Bryant Planning Commission Meeting

Boswell Municipal Complex - City Hall Court Room

210 SW 3rd Street

YouTube: https://www.youtube.com/c/bryantarkansas

Date: November 14, 2022 - **Time:** 6:00 PM

Call to Order

Approval of Minutes

1. Planning Commission Meeting Minutes 10-10-2022

- 2022-10-10 Planning Commission Meeting Minutes.pdf

Announcements

Director's Report

DRC Report

2. Hilltop Landing PUD - PUD Zoning Plan and Rezoning

Hope Consulting - Requesting Recommendation for Approval of PUD Zoning Plan and Rezoning - NO RECOMMENDATION

3. 6133 Creekside Drive - Conditional Use Permit

Parham - Requesting Recommendation for Approval of Conditional Use for Accessory Structures - NO RECOMMENDATION

4. 406 NW 3rd Street - Replat

GarNat Engineering - Requesting Recommendation for Approval of Replat - RECOMMENDED APPROVAL

5. Marketplace II Subdivision Phase 2 - Final Plat

GarNat Engineering - Requesting Recommendation for Approval of Final Plat - RECOMMEDNED APPROVAL, contingent upon As-builts and BOA being submitted

6. Custom Advertising - New Site Plan - 23738 I-30

GarNat Engineering - Requesting Recommendation for Site Plan Approval - RECOMMENDED APPROVAL, Contingent upon remaining comments being addressed

7. Scooter's Coffee - 1816 N Reynolds Road - Commercial Plat

Sherill Associates - Requesting Recommendation for Commerical Plat Approval - RECOMMENDED APPROVAL, Contingent upon SW In-Lieu-of fee being paid

8. Scooter's Coffee - 1816 N Reynolds Road - Sign Variance

Springfield Sign - Requesting Recommendation for Sign Variance Approval - RECOMMENDED APPROVAL

9. Target - 7377 Alcoa Road - Exterior and Parking Lot Changes

Kimley Horn - Requesting Recommendation for Site Plan Approval - RECOMMENDED APPROVAL

10. Target - 7377 Alcoa Road - Special Sign Permit

Kimley Horn - Requesting Recommendation for Special Sign Permit Approval - RECOMMENDED APPROVAL

11. Scooter's Coffee - 1816 N Reynolds Road - Site Plan

Sherill Associates - Requesting Site Plan Approval - APPROVED

- 0603-PLN-02.pdf
- 0603-SRV-01.pdf
- 0603-LSP-01.pdf
- 0603-SPL-01.pdf
- 0603-APP-01.pdf
- 0603-STR-01.pdf
- 0603-PLN-01.pdf

12. Hamilton Family Dentistry - 2422 Springhill Road - Sign Permit

Siez Sign Company - Requesting Sign Permit Approval - APPROVED

- 0605-APP-01.pdf

13. McAlister's Deli - 7401 Alcoa Road - Sign Permit

Arkansas Sign and Neon - Requesting Sign Permit Approval - APPROVED

- 0617-APP-01.pdf

14. Baxley Penfield Moudy Realty - Tenant Spaces - Sign Permit

Custom Advertising - Requesting Sign Permit Approval - APPROVED

- 0616-APP-01.pdf

15. America's Carmart - 3200 N Reynolds RD - Sign Permit

Ken's Signs - Requesting Sign Permit Approval - APPROVED

- 0614-APP-01.pdf

16. TaMolly's - 206 W Commerce - Sign Permit

Whatley Industries - Requesting Sign Permit Approval - APPROVED

- 0613-APP-01.pdf

17. Exxon - 22755 I-30 - Sign Permit

Arkansas Sign and Neon - Requesting Sign Permit Approval - APPROVED

- 0604-APP-01.pdf

Public Hearing

18. Hilltop Landing PUD - PUD Zoning Plan and Rezoning

Hope Consulting - Requesting Approval for PUD Zoning Plan and Rezoning

- 0606-RND-01.pdf
- 0606-BOA-01.pdf
- 0606-RZN-02.pdf
- 0606-PLN-03.pdf
- 0606-ZPLN-01.pdf
- 0606-LTR-01.pdf
- 0606-RZN-01.pdf

19. 6133 Creekside Drive - Conditional Use Permit

Reginald Parham - Requesting Approval for Conditional Use Permit for Accessory Structures over Allotted Square Footage

- 0615-APP-01.pdf

Old Business

New Business

20. 406 NW 3rd Street - Replat

GarNat Engineering - Requesting Approval for Replat

- 0610-PLN-01.pdf

21. Marketplace II Subdivision Phase 2 - Final Plat

GarNat Engineering - Requesting Final Plat Approval

- 0607-PLN-03.pdf
- 0607-BOA-01.pdf
- 0607-APP-01.pdf
- 0607-LTR-01.pdf

22. Custom Advertising - 23738 I-30 - Site Plan

GarNat Engineering - Requesting Site Plan Approval and Non-Standard Building Approval

- 0608-NSB-01.pdf
- 0608-PLN-05.pdf
- 0608-DRN-01.pdf
- 0608-PLN-02.pdf
- 0608-APP-01.pdf
- 0608-AFD-01.pdf
- 0608-LTR-01.pdf

23. Scooter's Coffee -1816 N Reynolds - Commercial Plat

Sherill Associates - Requesting Commercial Plat Approval

- 0603-PLN-02.pdf
- 0603-SRV-01.pdf

24. Scooter's Coffee -1816 N Reynolds - Sign Variance

Springfield Sign - Requesting Sign Variance Approval

- 0619-VAR-01.pdf
- 0619-APP-01.pdf

25. Target - 7377 Alcoa Road - Exterior and Parking Lot Changes

Kimley Horn - Requesting Site Plan Approval

- 0598-PLN-01.pdf
- 0598-APP-01.pdf

26. Target - 7377 Alcoa Road - Special Sign Permit

Kimley Horn - Requesting Special Sign Permit Approval

- 0598-APP-01.pdf
- 0598-PLN-01.pdf
- 0611-APP-01.pdf

27. Coral Ridge - Final Plat

Hope Consulting - Requesting Final Plat Approval

- 0596-ESM-02.pdf
- 0596-ESM-01.pdf
- 0596-PLN-02.pdf
- 0596-SWR-01.pdf
- 0596-ASB-01.pdf

28. 2023 Nominating Committee

Creation of Nominating Committee for Nominating 2023 Chairman and Vice-Chairman

Adjournments

Bryant Planning Commission Meeting Minutes

Monday, October 10th, 2022
Boswell Municipal Complex – City Hall Courtroom
6:00 PM

Agenda

CALL TO ORDER

- Chairman Rick Johnson calls the meeting to order.
- Commissioners Present: Statton, Hooten, Johnson, Edwards, Arey
- Commissioners Absent: Penfield, Burgess

ANNOUNCEMENTS

None

APPROVAL OF MINUTES

1. **Planning Commission Meeting Minutes 9/12/2022**

   Motion to Approve Minutes made by Commissioner Statton, Seconded by Commissioner Hooten. Voice Vote, 5 Yays, 0 nays. 2 Absent.

Chairman Johnson read the DRC Report.

DRC REPORT

2. **Lombard Heights - Phase 1 - Final Plat**

   Hope Consulting - Requesting Final Plat Approval - RECOMMEDED APPROVAL

3. **Coral Ridge - Final Plat**

   Hope Consulting - Requesting Final Plat Approval - RECOMMEDED APPROVAL,

   Contingent upon Completion of Staff Comment list

4. **Hospice Homecare - 701 Bryant Ave STE 1B - Sign Permit**

   Condray Signs - Requesting Sign Permit Approval - STAFF APPROVED

5. J&S Manufacturing Co. - 21856 I-30 - Sign Permit

LA Designs - Requesting Sign Permit Approval - STAFF APPROVED

6. Farmer's Bank and Trust - 3345 HWY 5 - Sign Permit

White Sign Co. - Requesting Sign Permit Approval - STAFF APPROVED

7. All Paws Petwash - 1400 N Reynolds Road

Hope Consulting - Requesting: 1) Site Plan Approval - APPROVED, Contingent upon non-standard building approval by PC and $500 minimum SW in-lieu-of fee.

2) Non-Standard Building Approval - RECOMMENDED APPROVAL

8. Abby Road Shopping Center - N. Reynolds Road

Phillip Lewis Engineering - Requesting Plat Approval - RECOMMENDED APPROVAL

9. The Station - GSFBC Raymar Fields - Special Sign Permit

Pinnacle Signs and Graphics - Requesting Approval for Special Sign Permit - RECOMMEDED APPROVAL

10. Grace Baptist Church - 21671 I-30 - Sign Variance

Pinnacle Signs and Graphics - Requesting Approval for Sign Variance

-RECOMMENDED APPROVAL

11. Church's Chicken - 1901 N Reynolds - Sign Variance

K&P Signs - Requesting Approval for Sign Variance

12. Southern Trace Rehabilitation & Care - 22515 I-30 - Sign Permit

Edwards Sign - Requesting Sign Permit Approval - APPROVED

13. Hounds Lounge - 519 West Commerce - Sign Permit

Redgie Adams Sign Co - Requesting Sign Permit Approval - APPROVED

14. J. Kencade Publishing - 5920 HWY 5 - Sign Permit

L Graphics - Requesting Sign Permit Approval - STAFF APPROVED

NEW BUSINESS

15. Lombard Heights - Phase 1 - Final Plat

Hope Consulting - Requesting Final Plat Approval

After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve. 5 yays, 0 nays, Penfield, Burgess Absent.

~~16. Coral Ridge - Final Plat~~

~~Hope Consulting - Requesting Final Plat Approval~~

Item Pulled from Agenda

17. All Paws Petwash - 1400 N Reynolds Road

Hope Consulting - Requesting Non-Standard Building Approval

After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve. 5 yays, 0 nays, Penfield, Burgess Absent. Item was Approved

18. Abby Road Shopping Center - N. Reynolds Road

Phillip Lewis Engineering - Requesting Plat Approval

After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve. 5 yays, 0 nays, Penfield, Burgess Absent. Item was Approved

19. The Station - GSFBC Raymar Fields - Special Sign Permit

Pinnacle Signs and Graphics - Requesting Approval for Special Sign Permit

After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve. 5 yays, 0 nays, Penfield, Burgess Absent. Item was Approved

20. Grace Baptist Church - 21671 I-30 - Sign Variance

Pinnacle Signs and Graphics - Requesting Approval for Sign Variance

After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve. 5 yays, 0 nays, Penfield, Burgess Absent. Item was Approved

21. Church's Chicken - 1901 N Reynolds - Sign Variance

K&P Signs - Requesting Approval for Sign Variance

After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve contingent upon verification of location of sign by the City Engineer. 5 yays, 0 nays, Penfield, Burgess Absent. Item was Approved

DIRECTOR'S REPORT

Director Truett Smith spoke briefly on the upcoming Tyler Software Go Live date.

ADJOURNMENT

Motion to Adjourn made by Commissioner Arey, Seconded by Commissioner Edwards. Voice Vote, 5 Yays, 0 nays. Penfield, Burgess Absent. Meeting was adjourned.

_____ _____

Chairman, Rick Johnson *Date*

_____ _____

Secretary, Tracy Picanco *Date*

SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR

ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)

PERMITTED USES: RESTAURANTS PERMITTED

BUILDING COVERAGE: 35% MAXIMUM

HEIGHT: THREE STORIES OR 45' MAXIMUM

FRONT SETBACK: 50' MINIMUM

SIDE SETBACK: 0' UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 25' MINIMUM

REAR SETBACK: 15' MINIMUM UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 55' MINIMUM

REQUIRED PARKING: ONE SPACE PER 300 SF OF OCCUPIED SPACE=664/300=2 SPACES

PROPOSED PARKING: 7 STALLS INCLUDING 1 HANDICAP

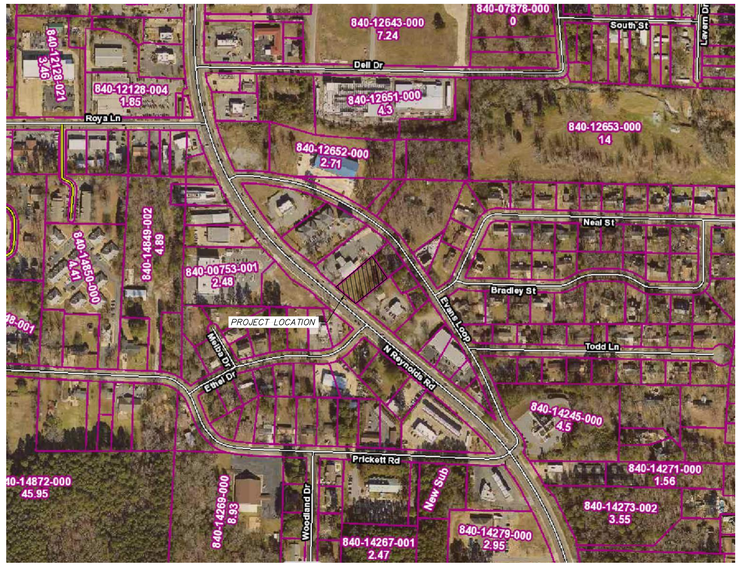
IMPERVIOUS AREA COVERAGE: 90% MAXIMUM

CONSTRUCTION DRAWINGS

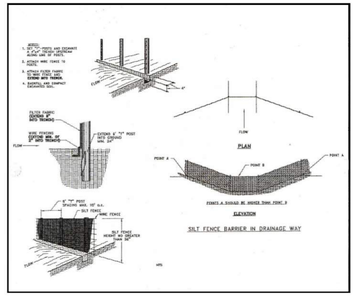
PROPOSED SCOOTER'S COFFEE
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

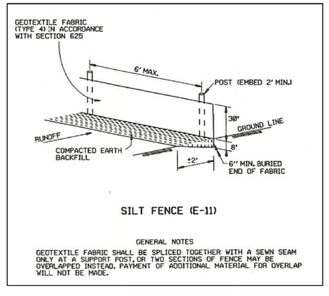
PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-016225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 662.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 269 AT PAGE 331, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 121.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 33 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.



VICINITY MAP (NTS)





CITY SILT FENCE DETAILS

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

SITE INFORMATION:
PARCEL: 840-14249-000
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
618-656-9251

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SURVEYOR:
MCALISTER ENGINEERING
4508 STADIUM BLVD, SUITE D
JONESBORO, AR 72404

DRAWING INDEX

C0.0 COVER SHEET
C1.0 PROPOSED SITE PLAN
C2.0 STORMWATER MANAGEMENT PLAN
C3.0 SEDIMENT AND EROSION CONTROL PLAN
C4.0 LANDSCAPE PLAN
C5.0 ALTA SURVEY

LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21001
WILSON D. WAGGONER

Title: COVER SHEET
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

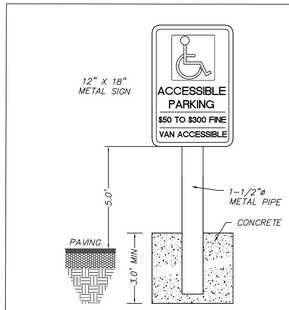
NO.	DATE	REVISION
1	10/12/22	CITY COMMENTS

PROJECT NO. 2235801

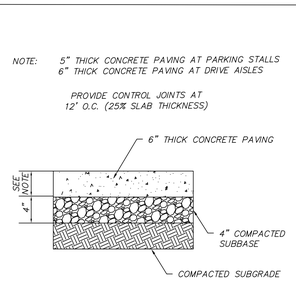
DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C0.0

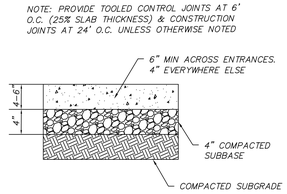
SHEET 1 OF 5



ACCESSIBLE PARKING SIGN
NOT TO SCALE



CONCRETE PAVING SECTION
NOT TO SCALE



CONCRETE SIDEWALK SECTION
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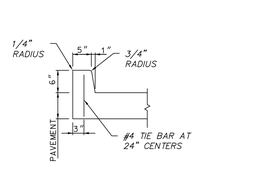
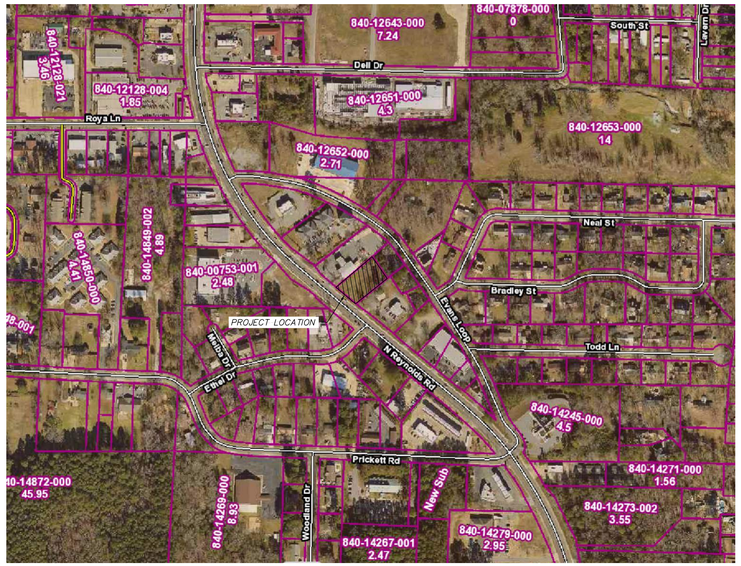


CONCRETE BARRIER CURB SECTION
NOT TO SCALE



VICINITY MAP (NTS)

UTILITIES NOTE

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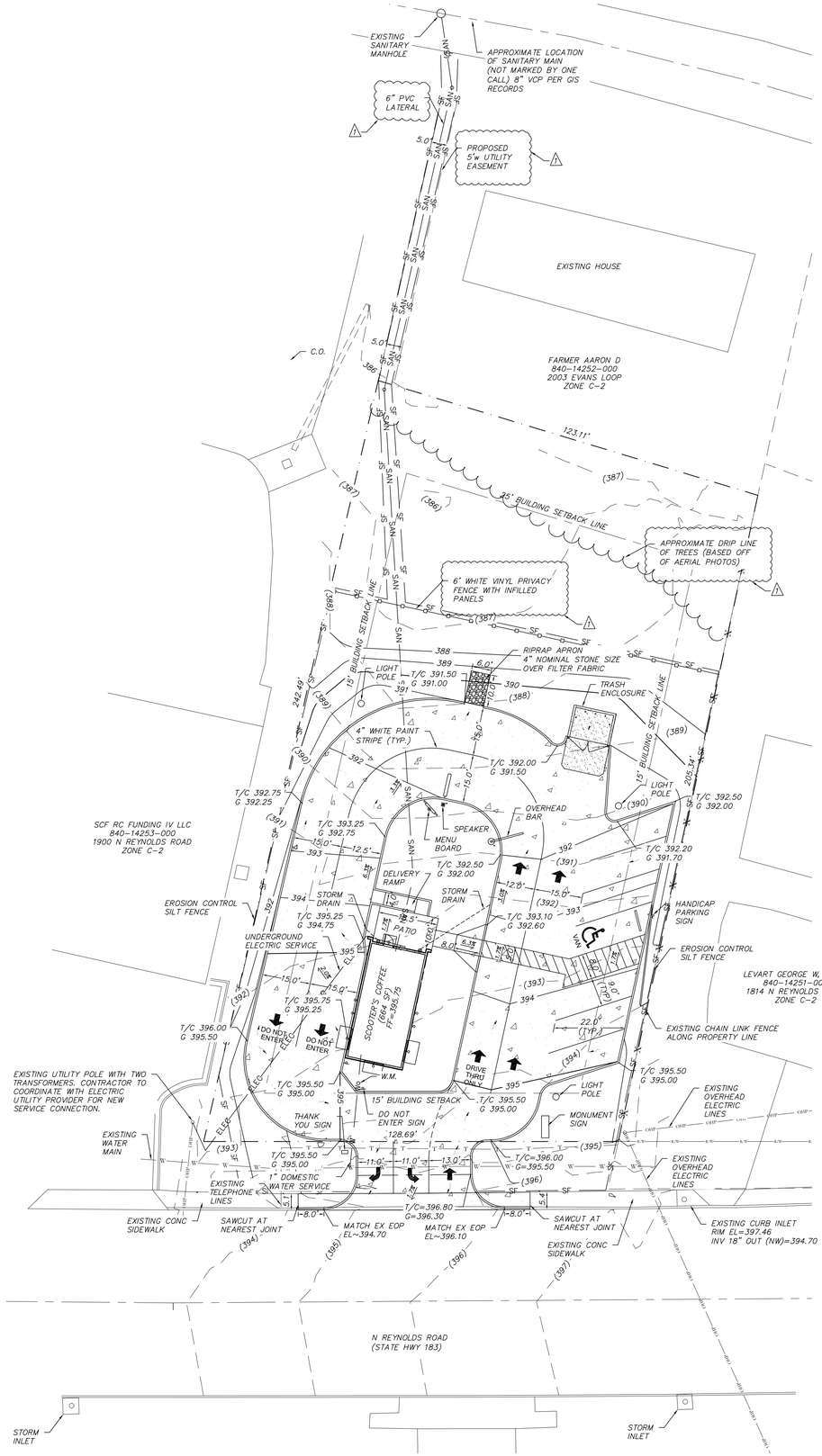
811 Know what's **below.** **811** before you dig.

LEGEND

	PROPOSED CONCRETE PAVEMENT
ELEC	PROPOSED ELECTRIC SERVICE
W	PROPOSED WATER SERVICE
SAN	PROPOSED SANITARY SERVICE
ST	PROPOSED STORM DRAIN
SF	EROSION CONTROL SILT FENCE
T/C	TOP OF CURB
G	GRADE/BOTTOM OF FACE OF CURB
(XXX)	EXISTING GRADE ELEVATION
XXX	PROPOSED GRADE ELEVATION



0' 10' 20'
SCALE : 1"=20'

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

SITE INFORMATION:
PARCEL: 840-14249-000
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
(618)656-9251

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SURVEYOR:
HOPE CONSULTING
117 S MARKET STREET
BENTON, ARKANSAS 72015
(501)315-2626

LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

LEGAL DESCRIPTION

PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-30225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 262.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR
ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)
PERMITTED USES: RESTAURANTS PERMITTED
BUILDING COVERAGE: 35% MAXIMUM
HEIGHT: THREE STORIES OR 45' MAXIMUM
FRONT SETBACK: 50' MINIMUM
SIDE SETBACK: 0' UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 25' MINIMUM
REAR SETBACK: 15' MINIMUM UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 55' MINIMUM
REQUIRED PARKING: ONE SPACE PER 300 SF OF OCCUPIED SPACE=664/300=2 SPACES
PROPOSED PARKING: 7 STALLS INCLUDING 1 HANDICAP
IMPERVIOUS AREA COVERAGE: 90% MAXIMUM

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21001
WILSON D. WAGGONER

Title: PROPOSED SITE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

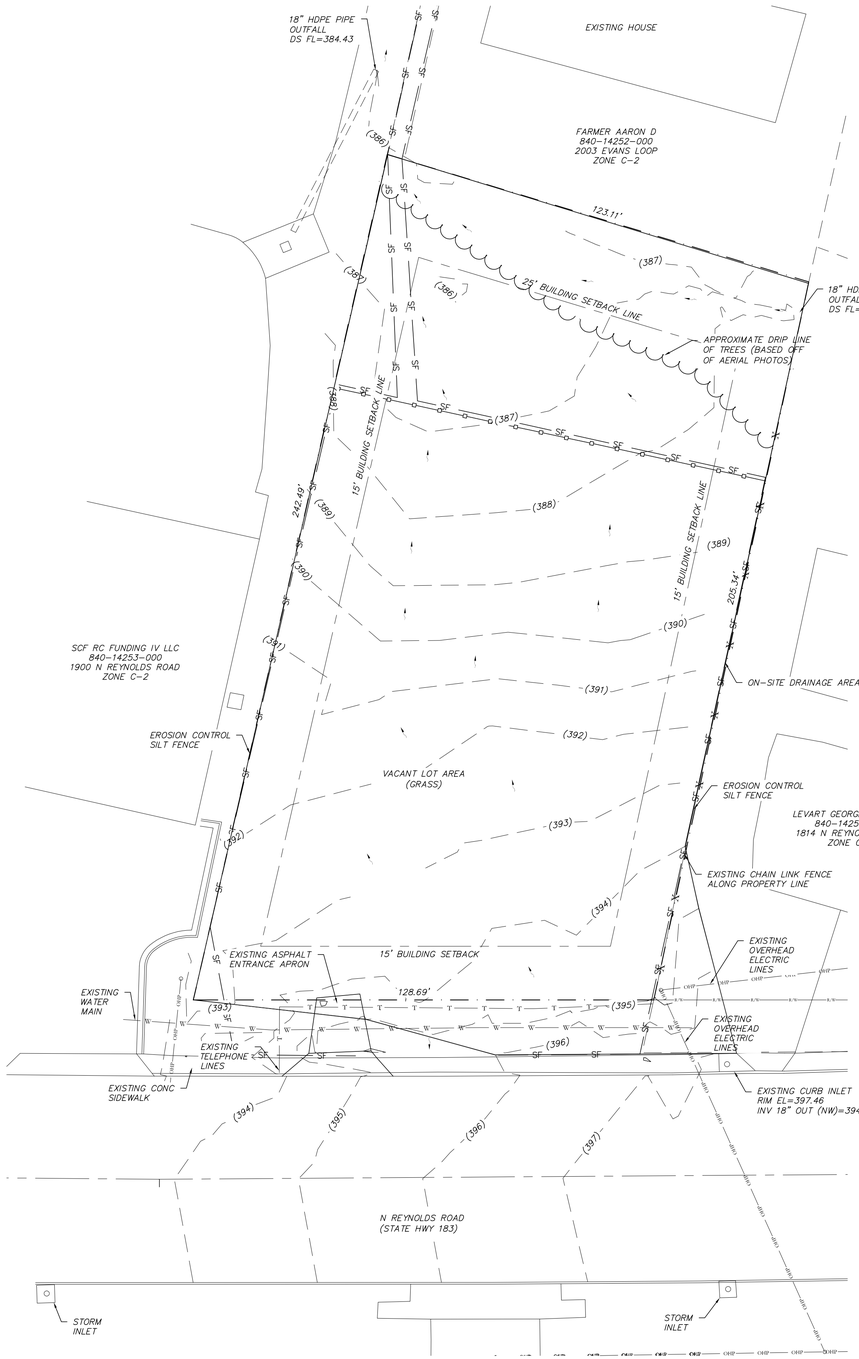
DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION
1	10/12/22	CITY COMMENTS

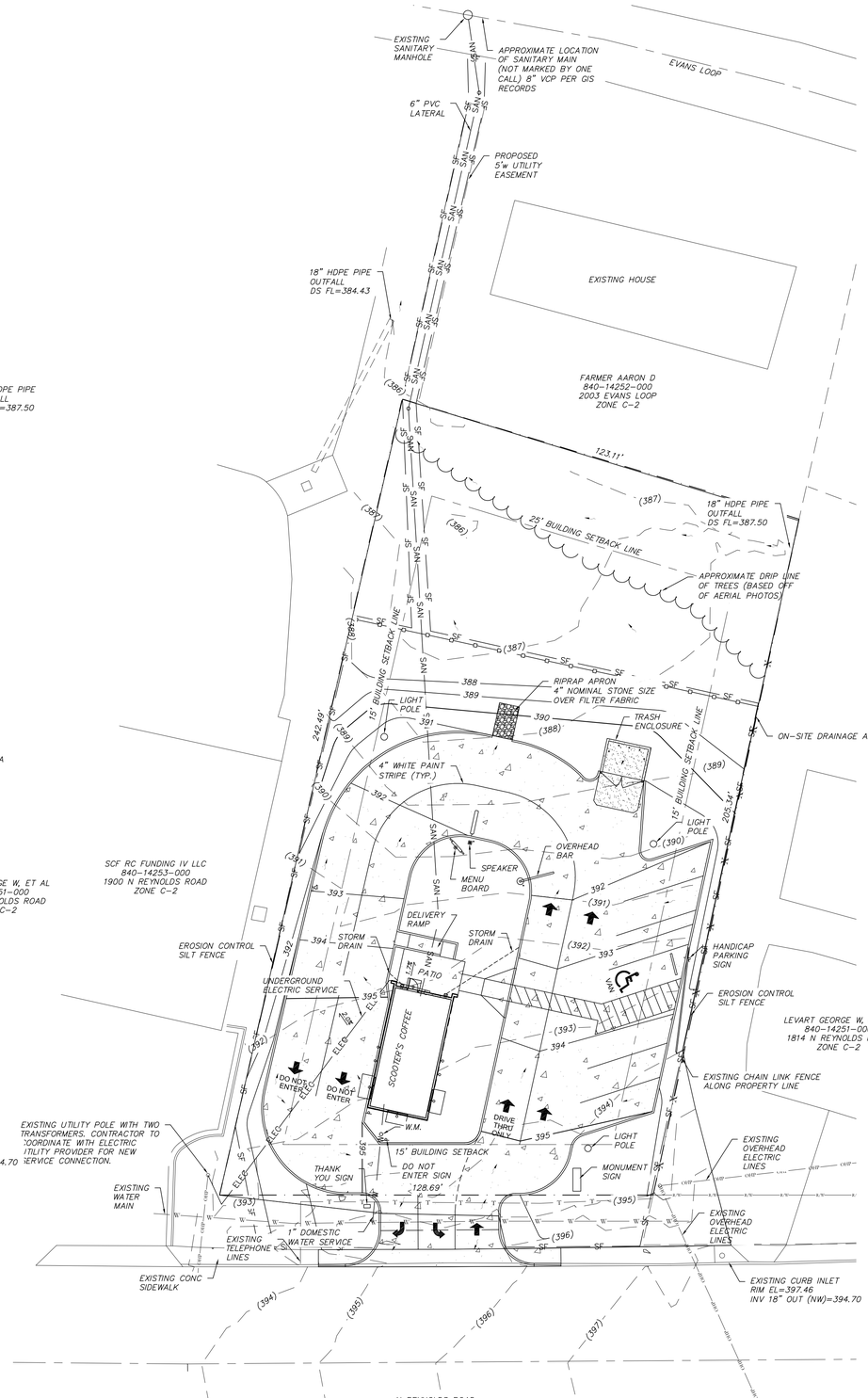
PROJECT NO. 2235801
DRAWN WDW | SCALE SEE PLAN
CHECKED WDW | DATE 8/17/2022

C1.0

SHEET 2 OF 6



EXISTING SITE PLAN



PROPOSED SITE PLAN

UTILITIES NOTE

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811 Know what's **below.** **811** before you dig.

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
(618)656-9251

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SITE INFORMATION:
PARCEL: 840-14249-000
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

SURVEYOR:
HOPE CONSULTING
117 S MARKET STREET
BENTON, ARKANSAS 72015
(501)315-2626

LOT AREA

27,806± SQ.FT.
0.64± AC.

LEGAL DESCRIPTION

PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-006225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 13 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 30 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG. EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.31 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1976 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 46 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.6 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR

ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)

FLOODZONE: NO PORTION OF EXISTING PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL #05119C0441G; DATED 7/6/2015

SOILS: GENERALLY CONSIST OF CLAYEY SANDS AND EXPANSIVE CLAY LAYERS.

IMPERVIOUS AREA CALCULATIONS

TOTAL AREA = 27,806 SF = 0.64± AC.

EXISTING IMPERVIOUS AREAS	
PAVEMENTS	14 SF
TOTAL =	14 SF

EXISTING PERVIOUS AREAS	
GRASS	27,792 SF

PROPOSED IMPERVIOUS AREAS	
BUILDING	664 SF
TRASH ENCLOSURE	133 SF
PAVEMENTS	12,850 SF
TOTAL =	13,647 SF

PROPOSED PERVIOUS AREAS	
LAWN/LANDSCAPING	14,159 SF

STORMWATER CALCULATIONS

RATIONAL METHOD (EXISTING)
EXISTING (2YR,15MIN)
Q=CIA=0.95*(0.88 IN/HR)(14 SF)/43,560+(0.35)(0.88 IN/HR)(27,792 SF)/43,560=0.20 CFS

EXISTING (10YR,15MIN)
Q=CIA=0.95*(0.88 IN/HR)(14 SF)/43,560+(0.35)(0.88 IN/HR)(27,792 SF)/43,560=0.30 CFS

EXISTING (10YR,15MIN)
Q=CIA=0.95*(1.70 IN/HR)(14 SF)/43,560+(0.35)(1.70 IN/HR)(27,792 SF)/43,560=0.38 CFS

RATIONAL METHOD (PROPOSED)
PROPOSED (2YR/15MIN)
Q=CIA=0.95*(0.88 IN/HR)(13,647 SF)/43,560+(0.35)(0.88 IN/HR)(14,159 SF)/43,560=0.36 CFS

PROPOSED (10YR/15MIN)
Q=CIA=0.95*(1.33 IN/HR)(13,647 SF)/43,560+(0.35)(1.33 IN/HR)(14,159 SF)/43,560=0.55 CFS

PROPOSED (25YR/15MIN)
Q=CIA=0.95*(1.57 IN/HR)(13,647 SF)/43,560+(0.35)(1.57 IN/HR)(14,159 SF)/43,560=0.65 CFS

PROPOSED (50YR/15MIN)
Q=CIA=0.95*(1.60 IN/HR)(13,647 SF)/43,560+(0.35)(1.60 IN/HR)(14,159 SF)/43,560=0.66 CFS

PROPOSED (100YR/15MIN)
Q=CIA=0.95*(1.70 IN/HR)(13,647 SF)/43,560+(0.35)(1.70 IN/HR)(14,159 SF)/43,560=0.70 CFS

DIFFERENTIAL RATES
2YR,15MIN=+0.16 CFS
10YR,15MIN=+0.25 CFS
100YR,15MIN=+0.32 CFS

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21001
WILSON D. WAGGONER

Title: STORMWATER MANAGEMENT PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C2.0

SHEET 3 OF 6

(a) **Silt Fence.** This sediment barrier utilizes standard strength or extra strength synthetic fabric with wire backing. It is designed for situations in which only sheet or overland flows are expected. Non-wire backed silt fence is NOT ALLOWABLE with this ordinance.

(1) All silt fence shall be placed as close to the contour as possible. The bottom of the fabric should be buried in a 6-inch wide by 6-inch depth trench and it shall be backfilled and compacted to prevent underflow. The height of the silt fence shall be a minimum of 15 inches and shall not exceed 18 inches;

(2) Silt fence shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, fabric should be spliced together only at a support post, with a minimum 6-inch overlap and securely sealed;

(3) Post shall be spaced a maximum of 3-feet apart at the barrier location and driven securely into the ground a minimum of 6-inches;

(4) Trenches shall be excavated approximately 6-inches wide and 6-inches deep along the line of posts and unsloped from the barrier;

(5) Silt fence shall be properly installed and facing the correct direction or silt fence shall be removed and reinstalled;

(6) Silt fence shall be inspected immediately after each rainfall and daily during prolonged rainfall;

(7) If silt fence is not functional, it must be repaired or replaced within 48 hours. Immediate maintenance may be required by the Administrative Authority if the conditions of the site are deemed a public hazard or has the potential to cause environmental damage or pollution;

(8) When sediment reaches ½ the height of the silt fence as a perimeter or runoff control device, sediment must be removed within 48 hours;

(9) If a perimeter control device is not functional, it must be repaired or replaced within 48 hours;

(10) Silt fence(s) shall be removed once they have served their useful purposes, but not before disturbed area(s) has been permanently stabilized;

(11) No person shall willfully damage silt fencing at any time. If silt fence obstructs access to any point on a site it is to be removed and properly reinstalled. Any person found in violation of willfully running over or damaging silt fence shall be issued a citation for this act;

(c) **Construction entrance.** A rock construction entrance is a bed of rocks that helps to remove sediment from vehicle tires. Rock construction entrances should be placed at all site ingress/egress points.

(1) Entrance protection shall be no less than the width of all points of ingress/egress with a 20-foot minimum width and a minimum length of 50-feet;

(2) Rock used on entrance protection shall be a minimum of 2-inch with NO FINES at a minimum depth of 6-inches;

(3) The Administrative Authority may at any time require geotextile fabric to be placed under entrance protection to assist with longevity of the entrance protection and to assist with alleviation of offsite tracking;

(4) Residential entrance protection should be the width of all ingress and egress points. Entrance length shall be adequate for any vehicle or equipment to get one full tire rotation on the ingress/egress pad;

(5) If conditions on the site are such that the majority of the mud is not removed by the vehicle/equipment traveling over the entrance pad, then the tires of the vehicle/equipment must be washed before entering any roadway. Wash water must be directed away from the entrance to a settling area to remove sediment;

(6) The Administrative Authority shall have the ability to enforce street sweeping as a best management practice measure if the conditions of the site are deemed to be excessive, a public hazard, an environmental threat or the site has failed to comply with construction entrance guidelines;

(7) The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-ways or roadways. This may require periodic top dressing with additional aggregate as conditions demand;

(8) All sediment spilled, dropped, washed, or tracked onto public-right-of-way or roadways must be removed immediately;

(d) **Storm drain inlet protection.** The purpose of storm drain inlet protection is to prevent sediment from entering storm drainage systems prior to permanent stabilization of disturbed areas.

(1) Storm drain inlet protection shall be used at sites:

(a) Where ponding will not encroach into traffic;

(b) Where sediment laden surface runoff may enter an inlet;

(c) Where disturbed drainage areas have not yet been permanently stabilized;

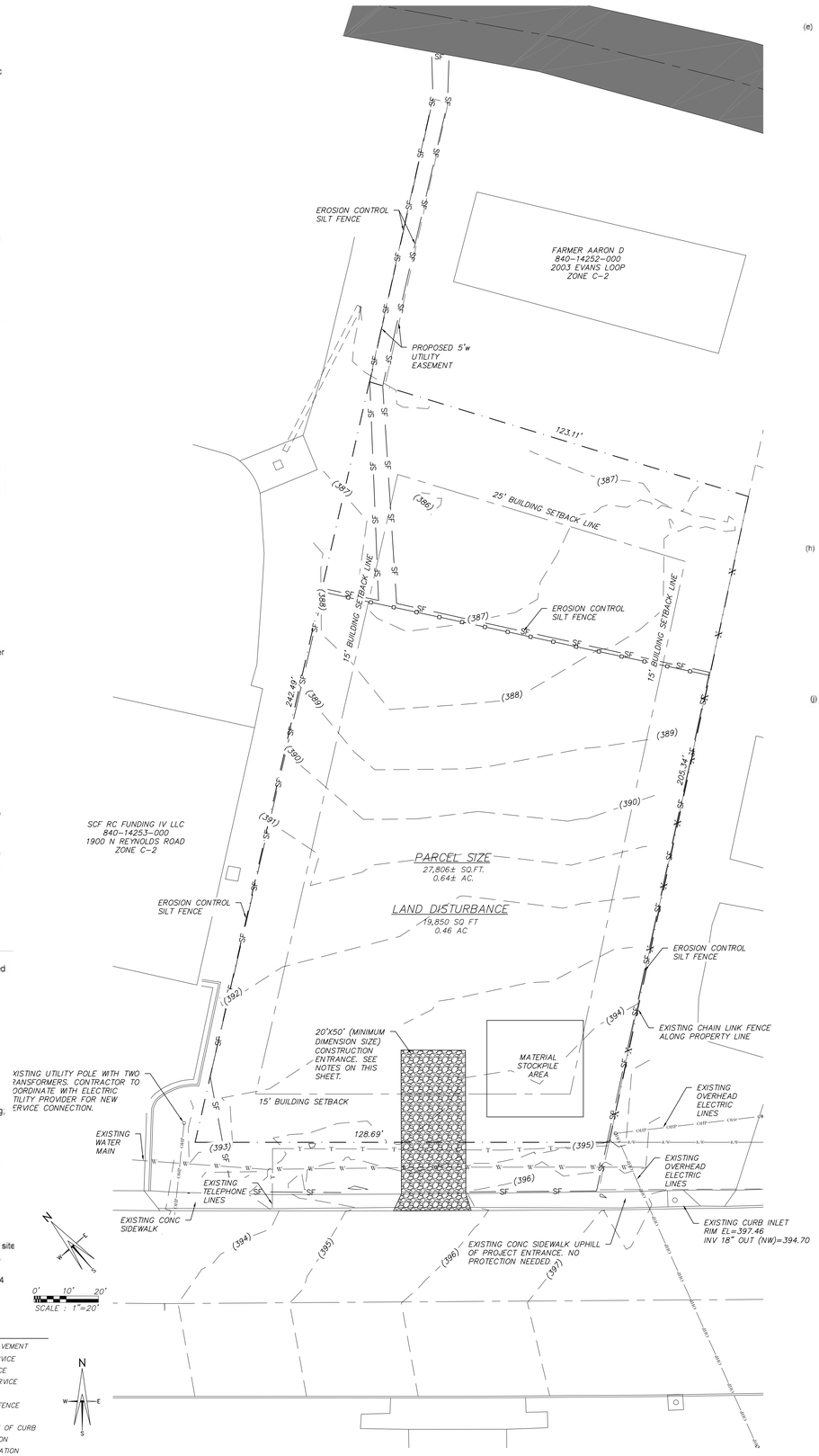
(d) Where soil disturbance or continual soil disturbance activities are occurring;

(e) Appropriate during wet and snow-melt seasons;

(2) There are several inlet filters, traps and inlet protection designs which have different applications dependent upon site conditions and the type of inlet. These types and designs can be found in the City of Bryant Stormwater Management Manual, this manual can be found on the City of Bryant website http://www.cityofbryant.com/895/Stormwater.

(3) If inlet protection is not functional, it must be replaced within 48 hours. Immediate maintenance may be required by the Administrative Authority if the conditions of the site are a public hazard or has the potential to cause environmental damage or pollution.

(4) If inlet protection is not in place as listed in the above section (d)(1) site shall have 24 hours to have storm drain inlet protection in place.



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LEGEND

	PROPOSED CONCRETE PAVEMENT
ELEC	PROPOSED ELECTRIC SERVICE
W	PROPOSED WATER SERVICE
SAN	PROPOSED SANITARY SERVICE
ST	PROPOSED STORM DRAIN
SF	EROSION CONTROL SILT FENCE
T/C	TOP OF CURB
G	GRADE/BOTTOM OF FACE OF CURB
(XXX)	EXISTING GRADE ELEVATION
XXX	PROPOSED GRADE ELEVATION

(e) **Concrete waste management.** Proper concrete waste management prevents the discharge of pollutants to stormwater, drainage ditches, storm drain inlets, storm drain systems, creeks, streams, water bodies and roadways. Concrete waste washout shall be performed on-site in a designated area using a proper concrete waste management pit and/or other approved concrete waste management devices. A concrete waste management pit or other approved concrete waste management device shall be in place before any concrete is poured on-site.

(1) All small, large, special and commercial construction sites are required to have a labeled concrete waste management device on-site;

(2) All residential lots are required to have a proper concrete waste management device. No concrete washout shall leave the lot at any time;

(3) Concrete waste management devices may at no time be placed within 50' of a basin, water body, street, roadway, storm drain inlet, drainage ditch, surface inlet, stormwater infrastructure, drainage easement or in a floodplain;

(4) All concrete waste management devices shall have proper entrance protection leading to them at all times. Concrete waste management entrance protection shall be a minimum of 2-inch rock with NO FINES at a minimum depth of 6-inches. Entrance protection shall be sized at an adequate length and width;

(5) Concrete waste management devices shall be lined with plastic so that no concrete washout runoff occurs. Concrete waste management devices shall also be labeled on the site map;

(6) When concrete reaches ½ the height of the concrete waste management device, the device shall be cleaned out and relined with plastic;

(7) Alternative types of concrete waste management devices may be approved by the Administrative Authority;

(8) No person shall place, washout, discharge or empty concrete in/onto a roadway, right-of-way, drainage easement, drainage ditch, storm drain inlet, storm system, basin, pond or water body. No person shall discharge onto another person's property or use another persons concrete waste management device unless written consent was given by the property owner. Any person found in violation shall receive an illicit discharge citation and be held responsible for the clean-up process and damages caused. If dirt is disturb during the clean-up process the person in violation will be responsible for stabilization of the area disturbed;

(9) Any concrete washout or concrete piles placed outside of a concrete waste management pit or approved concrete waste management device shall be removed immediately;

(10) Concrete or mortar residue discharges into a street, roadway, storm drain inlet or curb and gutter by way of incidentals, machine malfunction or washout shall be removed immediately. No person shall at any time use a watering source to wash down the concrete or mortar residue into a storm drain inlet. Failure to removed residue will be cause for an illicit discharge citation and restoration cost;

(h) **Stockpile Management.** Procedures and practices that are designed to reduce or eliminate stormwater pollution from stockpiles of soil, sand, aggregates, etc.

(1) Stockpiles shall never exceed the maximum height of 16-feet;

(2) Storage of stockpiles shall not exceed beyond 12 months. Once a project is complete all piles must be removed. Areas where stockpile sat shall be stabilized;

(3) Stockpiles shall be covered, stabilized or have some form of best management practices (BMPs) surrounding them to prevent runoff during rain events;

(4) Stockpiles shall never be placed in a street, easement or within 15-feet of a street, drainage ditch, waterbody, basin or stormwater infrastructure, etc;

(j) **Stabilization.** Process of implementing specific BMPs for the purpose of preventing soil from eroding. BMPs utilized for this purpose involve establishing a cover of some type over exposed soils such as mulch, sod, riprap, seed and straw, erosion control blankets, or other material that prevents soil from eroding.

(1) A description of initial, interim, and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed areas are stabilized. Stabilization practices may include: mulching, temporary seeding, permanent seeding, geotextiles, sod stabilization, natural buffer strips, protection of trees, and preservation of mature vegetation and other appropriate measures.

(2) Requires that a natural buffer zone be established between the top of the stream bank and the disturbed area. The SWPPP shall contain a description of how the site will maintain natural buffer zones. For construction projects where clearing and grading activities will occur, SWPPP shall provice at least (25) feet of natural buffer zone from any named or unnamed streams, creeks, rivers, lakes or other water bodies. The plan shall also provide at least fifty (50) feet of natural buffer zone from established TMDL water bodies, streams listed on the 303(d) list, an Extraordinary Resource Water (ERW), Ecologically Sensitive Waterbody (ESW), Natural and Scenic Waterway (NSW). If the site will be disturbed within the recommended buffer zone, then the buffer zone area shall be stabilized as soon as possible.

(3) **Deadlines for stabilization after construction activity temporarily ceases.** Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily ceased, but in no case more than fourteen (14) days after the construction activity in that portion of the site has temporarily ceased.

(4) **Deadline for stabilization after construction activity permanently ceases.** Stabilization measures shall be initiated immediately in portions of the site where construction activities have permanently ceased.

(5) **Rill erosion** is the removal of soil by concentrated water running through little streamlets, or headcuts. Detachment in a rill occurs if the sediment in the flow is below the amount the load can transport and if the flow exceeds the soil's resistance to detachment.

(a) Erosion rills must be reworked, filled and compacted before final stabilization occurs on any disturbed area of land;

(6) The Administrative Authority on a case by case basis may require any new or existing drainage ditches that are being constructed or have been disturbed during construction activities to be stabilized with solid sod to ensure the integrity of the drainage ditches. This will prevent future erosion and protect City of Bryant Stormwater Infrastructure.

(7) A site can be considered finally stabilized when all soil disturbing activities at the site have been completed, and a uniform perennial vegetative cover with a density of 80% for unpaved areas and areas not covered by permanent structures has been established, or equivalent permanent stabilization measures have been employed.

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
(618)656-9251

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
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ENGINEER:
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WILSON D. WAGGONER, P.E.

SITE INFORMATION:
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LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

3. **City responsibilities.**

(a) Administration of these regulations shall be by the Administrative Authority who shall review to determine approval, disapproval or modification of stormwater management plans as provided herein.

(b) All areas and/or structures dedicated to the city must be dedicated by plat or separate instrument and accepted by a formal letter from the Mayor, pursuant to resolution duly-adopted by the City Council.

(c) Operation and maintenance of publicly owned facilities. The Administrative Authority shall be responsible, after written approval and acceptance, for the operation and maintenance of all drainage structures and improved courses which are part of the drainage structures and improved courses which are part of the stormwater runoff management system under public ownership and which are not constructed and maintained by or under the jurisdiction of any state or federal agency.

4. **Private responsibilities.**

(a) Each developer or property owner of land within the corporate limits of the City of Bryant has a responsibility to provide that all approved stormwater runoff management facilities ensure adequate drainage and control of stormwater in the developer's or owner's property both during and after construction of such facilities.

(b) Each developer, property owner, property owners association and improvement district has a responsibility and duty before and after construction to properly operate and maintain any on-site stormwater runoff control facility which has not been accepted for maintenance by the City of Bryant. Such responsibility is to be transmitted to subsequent owners through appropriate covenants.

(c) All private systems not dedicated to the city shall have adequate easement to permit the Administrative Authority to inspect and, if necessary, to take any corrective enforcement action permitted by law should the responsible entity fails to properly maintain the system.

(d) All private stormwater facilities shall be maintained by the owner in proper condition consistent with the performance standards for which they were originally designed.

(e) All private systems must be designed to discharge at pre-developed rates unless approved by the Administrative Authority. New stormwater drainage system(s) cannot tie into existing systems of lesser capacity. In other words, a larger pipe cannot discharge into smaller pipe of lesser capacity.

ENGINEER'S CERTIFICATE

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Wilson D. Waggoner 10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS ★ LICENSED PROFESSIONAL ENGINEER ★ No. 21001 ★ WILSON D. WAGGONER

Title: SEDIMENT AND E.C. PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
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TEL: (618) 656-9251

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NO.	DATE	REVISION

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED WDW	DATE 8/17/2022

C3.0

SHEET 4 OF 6

LANDSCAPE CODE

SECTION IV: MINIMUM LANDSCAPING CRITERIA

	Residential Subdivision	C-1	C-2	PUD
Trees	N/A	1/each 1/3 acre or Fraction	1/each ½ acre or Fraction	X
Evergreens	N/A	1/2,000 SF	1/2,000 SF	X
Bedding Plants Or Ground Cover in Containment	Primary Entrance Must be Landscaped	100 Square Foot Minimum	100 Square Foot Minimum	X
Lawn (Grass)	N/A	Options	Options	X
Open Space Natural or Landscaping	100 SF/lot	N/A	N/A	X

(X=Landscape design must be approved)

No Planting within 5 foot of a fire hydrant.
Spacing will be 40' between trees.
Tree must be a minimum 3" in diameter @ the base and 12'+ tall.
Existing trees meeting the minimum size can be counted to meet the criteria.
No trees can be planted within thirty-foot (30') of a property corner or driveway.
Shrubs along street right-of-way lines cannot exceed thirty inches (30") in height.
Separations noted in the zoning regulations must be bermed or screened with landscaping and ground cover or grass.

SECTION V. PLANT MATERIAL SELECTION

A. The following list of trees are those which have been found to be best suited to the central Arkansas area. There are many more trees that are strong growth trees but the ones in the following lists require the least amount of maintenance. Additional trees may be selected for use in required landscape areas when proven to be hearty in this area.

1. **Primary List:**

Common Name	Scientific Name
Bald Cypress	Taxodium distichum
Chinese Elm	Ulmus parvifolia
Flowering Bradford Pear	Pyres Calleryana 'Bradford'
Shumard Oak	Quercus shumardi
Ginkgo (male)	Ginkgo biloba
Honey Locust	Gleditsia triacanthos
Loblolly Pine*	Pinus Taeda
Pin Oak	Quercus palustris
Sawtooth Oak	Quercus acutissima
Sugar Hackberry	Celtis laevigata
Willow Oak	Quercus phellos

*Evergreen trees

2. **Secondary List:**

Common Name	Scientific Name
American Holly*	Ilex opaca
Crab Apple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Dogwood	Cornus florida
Hawthorn	Crataegus opaca
Redbud	Cercis Canadensis
River Birch	Betula nigra
Southern Magnolia*	Magnolia grandiflora
Swamp Red Maple	Acer reburm
Water Oak	Quercus nigra
Weeping Willow	Salix babylonica

*Evergreen Trees

2. The Grasses listed in subsection (1) above are the more commonly used grasses adjacent to vehicular use areas.

E. Ground Covers

1. The following primary list of ground covers are recommended for use to comply with this ordinance.

Common Name	Scientific Name
Dwarf Nandina	N. domestica "Harbour Dwarf"
Junipers	Juniperus species
Liriope	Liriope Muscari
Memorial Rose	Rosa Wichcraiana
Mondo Grass	Ophiopogon japonicus
Periwinkle	Vinca minor
Spreading Euonymus	E. fortunei "Radicans"

2. Secondary List: (This list can be used but must be confined to a bed.)

Common Name	Scientific Name
Carolina Jessamine	Gelsemium sempervirens
Dwarf Bamboo	Arundinaria pygmaea
English Ivy	Hedera Helix
Honeysuckle	Lonicera sempervirens

SECTION VI. MAINTENANCE

1. The developer, his successor and the property owner shall be responsible for regular weeding, irrigating, fertilizing, pruning and other maintenance of all planting on private property of a development. Plant materials which are installed for compliance with this ordinance, both on private property and the public right-of-way, which exhibit evidence of insect pests, disease and/or damage, shall be appropriately treated and dead plant materials shall be replaced.

2. The owner of land abutting a constructed public right-of-way shall be responsible for the tree planting strip lying between the private property line and the curbline or backslope line and shall be required to regularly weed, mow, prune and maintain plantings in compliance with good horticultural practices.

3. If the owner of land thus situated as in (2) above, neglects or refuses to maintain the areas as prescribed, after having been given ten (10) days notice in writing to maintain by the City, the owner shall be guilty of a misdemeanor.

SECTION VII. PLANNING COMMISSION APPROVAL

The City of Bryant Planning Commission will review and act on all landscaping

B. Trees/shrubs on public right-of-way

All tree/shrub species listed in A, 1-2 and C, 1-2 may be used in the public right-of-way.

C. Shrub Species

The following list of shrubs are those which have been found to be best suited to this area and yet requiring the least amount of maintenance. This list along with the secondary list are those shrubs which may be planted in the required landscape area. Additional selective shrubs may be substituted when proven to be hearty in this region.

1. Primary List:

Common Name	Scientific Name
Evergreen Hollies	Ilex species
Nandina	Nandina domestica

2. Secondary List:

Common Name	Scientific Name
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Boxwood	Buxus sempervirens
Chinese Photinia	Photinia serrulata

Note: Secondary listed shrubs require increased maintenance

D. Grasses

1. The following grasses may be used to comply with this ordinance:

Mayer Z-52	Zoysia	Fescue
Bermuda Grass	Bermuda Grass hybrids	
Centipede	St. Augustine	

GENERAL NOTES

THE OWNER MAY CONTRACT WITH A LOCAL LANDSCAPER TO SUBSTITUTE SPECIES AND LOCATIONS OF THE PLANTINGS BUT THE CODE SHALL BE FOLLOWED FOR THE BUFFERS AND INTERNAL PLANTINGS PER CITY CODE.

LOT AREA

27,806± SQ.FT.
0.64± AC.

PLANTING SUMMARY

EVERGREEN TREES

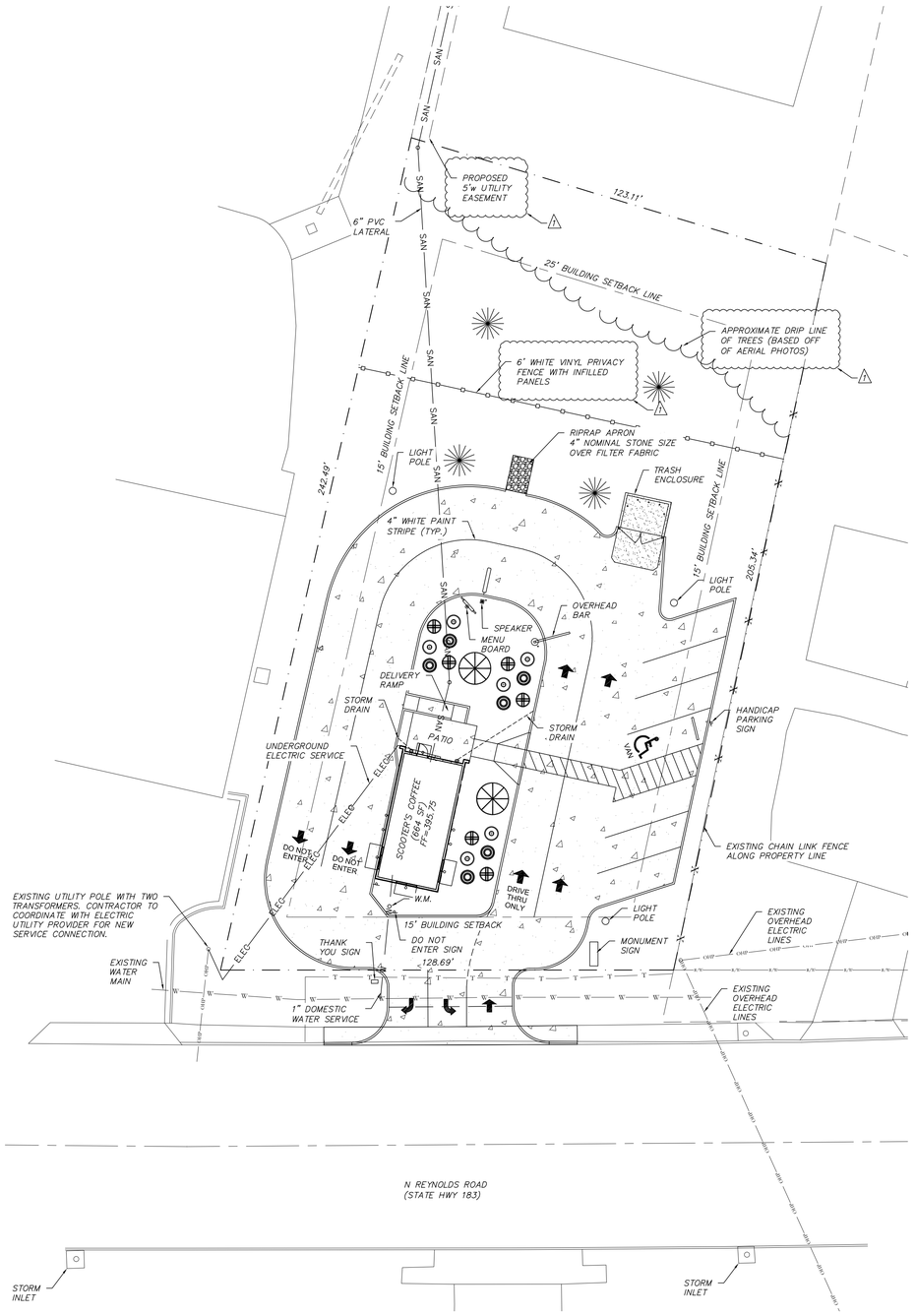
NAME	QTY.	SIZE	COMMENTS
LLEX OPACA AMERICAN HOLLY	14	24" BOX	8' HT. 2" CAL. MIN.

CANOPY TREES

NAME	QTY.	SIZE	COMMENTS
BETULA NIGRA RIVER BIRCH	2	24" BOX	8' HT. 2" CAL. MIN.

SHRUBS

NAME	QTY.	SIZE	COMMENTS
BUSUS SEMPERVIRENS BOXWOOD	6	5 GAL	24"–30" HT.
NANDINA DOMESTICA NANDINA	6	5 GAL	24"–30" HT.
LLEX SPECIES EVERGREEN HOLLY	6	5 GAL	24"–30" HT.



LEGEND

- PROPOSED CONCRETE PAVEMENT
- ELEC — PROPOSED ELECTRIC SERVICE
- W — PROPOSED WATER SERVICE
- SAN — PROPOSED SANITARY SERVICE
- ST — PROPOSED STORM DRAIN
- SF — EROSION CONTROL SILT FENCE

0' 10' 20'
SCALE : 1"=20'

UTILITIES NOTE

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811 Know what's **below.** **811** before you dig.

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS ★ LICENSED PROFESSIONAL ENGINEER ★ No. 21001 ★ WILSON D. WAGGONER

Title: LANDSCAPE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION
1	10/12/22	CITY COMMENTS

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C4.0

SHEET 5 OF 6

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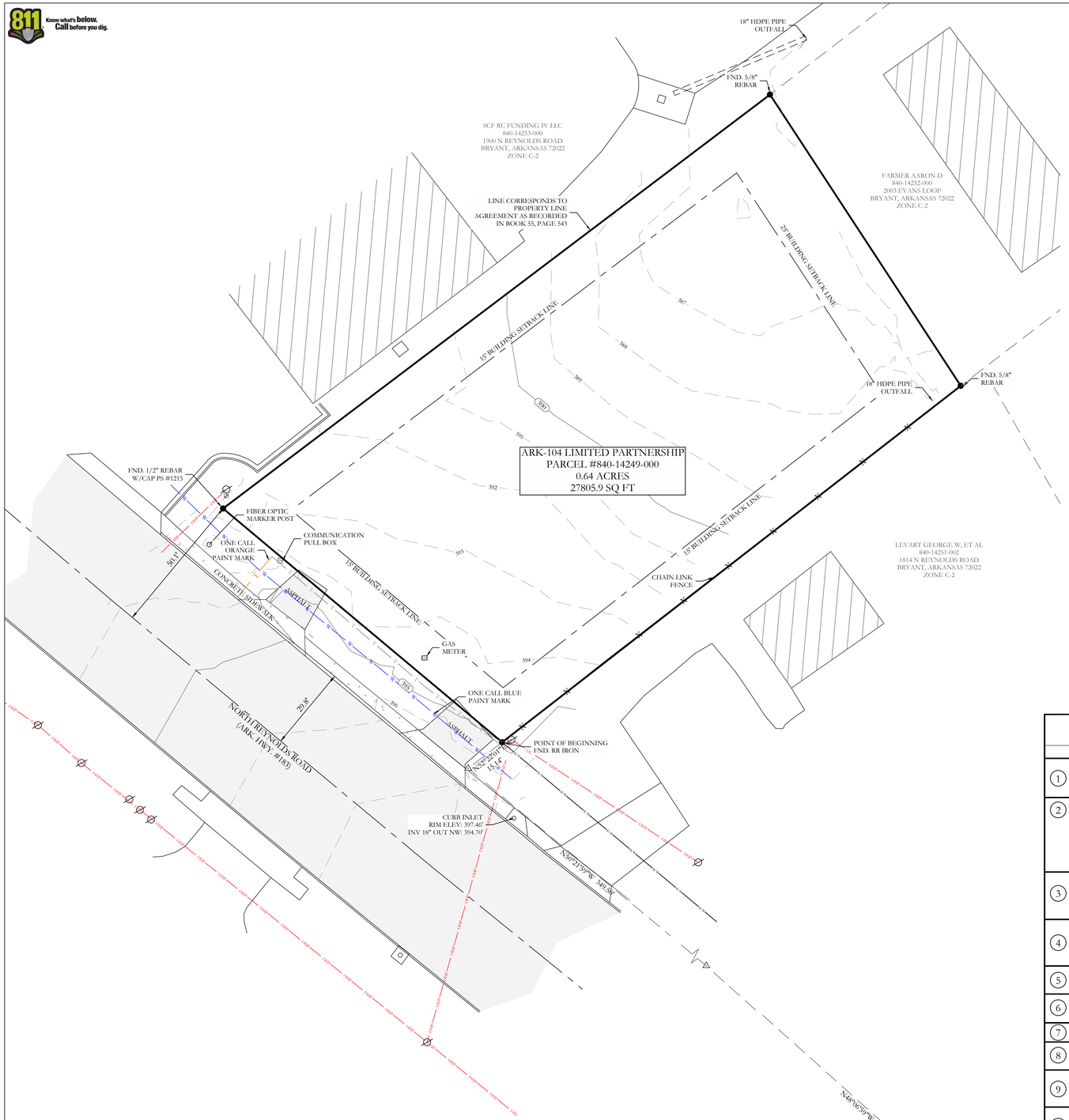
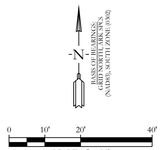




PROPERTY DESCRIPTION

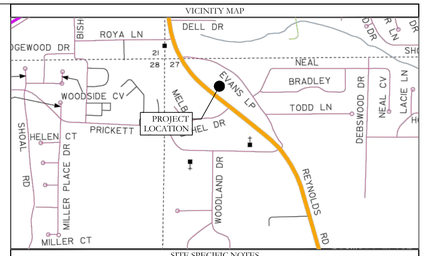
LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-006225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 205 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

TITLE COMMITMENT PROVIDED BY: CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NO. 22-022518-475, EFFECTIVE DATE: JUNE 12, 2022, 8:00AM

	SCHEDULE B PART II - EXCEPTIONS	EFFECT ON SURVEY
1	ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET.	NOT SURVEY RELATED
2	STANDARD EXCEPTIONS: (A)RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. (B)EASEMENTS OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. (C)ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES AND ANY MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY AND INSPECTION OF THE PREMISES. (D)ANY LIEN OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS.	AS SHOWN
3	LOSS ARISING FROM ANY OIL, GAS OR MINERAL INTERESTS, CONVEYED, RETAINED, ASSIGNED OR ANY ACTIVITY ON OR DAMAGE TO THE INSURED LAND CAUSED BY THE EXERCISE OF SUB-SURFACE RIGHTS OR OWNERSHIP, INCLUDING BUT NOT LIMITED TO THE RIGHT OF INGRESS AND EGRESS FOR SAID SUB-SURFACE PURPOSES.	NOT SURVEY RELATED
4	LOSS ARISING FROM ANY JUDGMENT LIENS OR OTHER LIENS OF RECORD IN ANY UNITED STATES DISTRICT COURT OR BANKRUPTICY COURT IN THE STATE OF ARKANSAS AS OF THE EFFECTIVE DATE HEREOF THAT ARE NOT REFLECTED IN THE REAL PROPERTY RECORDS OF THE COUNTY IN WHICH THE PROPERTY IS LOCATED.	NOT SURVEY RELATED
5	TAXES AND ASSESSMENTS FOR THE YEAR(S) 2022 AND THEREAFTER, WHICH ARE NOT YET DUE AND PAYABLE, PLUS ANY PENALTIES AND INTEREST WHICH MAY ACCRUE.	NOT SURVEY RELATED
6	FUTURE ASSESSMENTS OF SALEM FIRE PROTECTION DISTRICT NO. 1 (AKA SALEM FIRE PROTECTIONDISTRICT NO. 59).	NOT SURVEY RELATED
7	FUTURE ASSESSMENTS OF THE SALINE WATERSHED REGIONAL WATER DISTRIBUTION DISTRICT.	NOT SURVEY RELATED
8	ANY INACCURACY IN THE AREA, SQUARE FOOTAGE, OR ACREAGE OF LAND DESCRIBED IN SCHEDULE A. THE COMPANY DOES NOT INSURE THE AREA, SQUARE FOOTAGE, OR ACREAGE OF THE LAND.	ACREAGE AS SHOWN
9	EASEMENT IN FAVOR OF SOUTHWESTERN BELL TELEPHONE AS SET FORTH IN EASEMENT DATED FEBRUARY 24, 1979, AND RECORDED ON FEBRUARY 26, 1979, IN BOOK 56 AT PAGE 353 IN THE RECORDS OF SALINE COUNTY, ARKANSAS.	EASEMENT DESCRIPTION IS AMBIGUOUS AND CANNOT BE PLOTTED ACCURATELY
10	PROPERTY LINE BY AND BETWEEN RAYMOND E EVANS AND SHIRLEY M EVANS AND JAMES ELLIOT AND LOIS A ELLIOTT, DATED DECEMBER 8, 1978, RECORDED JANUARY 3, 1979, IN BOOK 55, PAGE 543 OF THE CONVEYANCE RECORDS OF SALINE COUNTY, ARKANSAS	PERTAINS TO THE NORTH WESTERLY PROPERTY LINE AS SHOWN

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M)- Measured
(P) - Plat/Deed
- Fence

VICINITY MAP



SITE SPECIFIC NOTES

OWNER(S) OF RECORD:
ARK-104 LIMITED PARTNERSHIP

STREET ADDRESS:
1816 NORTH REYNOLDS ROAD, BRYANT, ARKANSAS 72022

COUNTY PARCEL ID:
840-14249-000

ZONING DISTRICT:
C-2 GENERAL COMMERCIAL DISTRICT

BUILDING SETBACKS PER CITY REGULATIONS*:
FRONT: 15 FEET
REAR: 25 FEET
SIDE: 15 FEET

MAX LOT COVERAGE: 40%

MAX HEIGHT: 4 STORIES

LOCAL UTILITY PROVIDERS:
WATER SERVICE: CITY OF BRYANT
SEWER SERVICE: CITY OF BRYANT
ELECTRIC SERVICE: ENTERGY
GAS SERVICE: CENTERPOINT ENERGY

GENERAL NOTES

GENERAL SURVEYOR'S NOTES:
ALL LISTED MEASUREMENTS ARE AS MEASURED IN THE FIELD. FOR RECORD MEASUREMENTS, SEE DEED(S) OR PLAT(S) OF RECORD.

ADJACENT OWNERSHIP IS LISTED AS FILED IN THE SALINE COUNTY TAX ASSESSOR'S OFFICE AND IS SHOWN FOR REFERENCE ONLY.

THIS SURVEY IS FOR THE EXCLUSIVE USE AND BENEFIT OF PARTIES SHOWN HEREIN. USE OR DUPLICATION OF THIS DOCUMENT BY ANY OTHER PARTIES IS PROHIBITED AND VOIDS SAID DOCUMENT.

NOTE: THIS SURVEY IS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS. NO INVESTIGATION OR INDEPENDENT SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. ANY LISTED EASEMENTS OR RIGHTS-OF-WAY WERE DETERMINED FROM LISTED REFERENCE DOCUMENTS AND HAVE NOT BEEN CHECKED FOR ACCURACY OR CORRECTNESS.

ONLY LISTED REFERENCE DOCUMENTS HEREON WERE USED AND CONSIDERED AS A PART OF THIS SURVEY. OTHER DOCUMENTS, IF ANY, COULD FURTHER AFFECT THIS TRACT.

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Overhead Power
- Fence
- Computed point
(M)- Measured
(P) - Deed/Plat
- Grate

FLOOD STATEMENT

NO PORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL # 05119C0441G , DATED: 07/06/2015 .

ALTA/NSPS CERTIFICATION

TO CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP; AN ARKANSAS LIMITED PARTNERSHIP

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6 (A), 6(B), 7(A), 8, 11(A), 11(B), 13, 14, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 20, 2022.

WM. CORBITT R. SHOFFNER
ARKANSAS PS #1664
CORBITT@HOPECONSULTING.COM

DATE

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

REGISTERED
STATE OF ARKANSAS
No. 1664
SIGNATURE
WILLIAM CORBITT R. SHOFFNER
PROFESSIONAL LAND SURVEYOR

ORIGINAL SIGNATURE ON FILE

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

ALTA/NSPS LAND TITLE SURVEY

PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS

DATE: 07/25/2022		C.A.D. BY: JPP					DRAWING NUMBER:	
REVISED:		CHECKED BY:					22-0882	
SHEET:		SCALE: 1" = 20'						
500	01S	14W	0	27	400	62	1664	

© Land Design Solutions, LLC 2022 | 117 S. Market St. | Benton, AR 72015 | 501.315.2626 | Hope Consulting, Inc. | 117 S. Market St. | Benton, AR 72015 | 501.315.2626

LANDSCAPE CODE

SECTION IV: MINIMUM LANDSCAPING CRITERIA

	Residential Subdivision	C-1	C-2	PUD
Trees	N/A	1/each 1/3 acre or Fraction	1/each ½ acre or Fraction	X
Evergreens	N/A	1/2,000 SF	1/2,000 SF	X
Bedding Plants Or Ground Cover in Containment	Primary Entrance Must be Landscaped	100 Square Foot Minimum	100 Square Foot Minimum	X
Lawn (Grass)	N/A	Options	Options	X
Open Space Natural or Landscaping	100 SF/lot	N/A	N/A	X

(X=Landscape design must be approved)

No Planting within 5 foot of a fire hydrant.
Spacing will be 40' between trees.
Tree must be a minimum 3" in diameter @ the base and 12'+ tall.
Existing trees meeting the minimum size can be counted to meet the criteria.
No trees can be planted within thirty-foot (30') of a property corner or driveway.
Shrubs along street right-of-way lines cannot exceed thirty inches (30") in height.
Separations noted in the zoning regulations must be bermed or screened with landscaping and ground cover or grass.

SECTION V. PLANT MATERIAL SELECTION

A. The following list of trees are those which have been found to be best suited to the central Arkansas area. There are many more trees that are strong growth trees but the ones in the following lists require the least amount of maintenance. Additional trees may be selected for use in required landscape areas when proven to be hearty in this area.

1. Primary List:

Common Name	Scientific Name
Bald Cypress	Taxodium distichum
Chinese Elm	Ulmus parvifolia
Flowering Bradford Pear	Pyres Calleryana 'Bradford'
Shumard Oak	Quercus shumardi
Ginkgo (male)	Ginkgo biloba
Honey Locust	Gleditsia triacanthos
Loblolly Pine*	Pinus Taeda
Pin Oak	Quercus palustris
Sawtooth Oak	Quercus acutissima
Sugar Hackberry	Celtis laevigata
Willow Oak	Quercus phellos

*Evergreen trees

2. Secondary List:

Common Name	Scientific Name
American Holly*	Ilex opaca
Crab Apple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Dogwood	Comus florida
Hawthorn	Crataegus opaca
Redbud	Cercis Canadensis
River Birch	Betula nigra
Southern Magnolia*	Magnolia grandiflora
Swamp Red Maple	Acer reburm
Water Oak	Quercus nigra
Weeping Willow	Salix babylonica

*Evergreen Trees

2. The Grasses listed in subsection (1) above are the more commonly used grasses adjacent to vehicular use areas.

E. Ground Covers

1. The following primary list of ground covers are recommended for use to comply with this ordinance.

Common Name	Scientific Name
Dwarf Nandina	N. domestica "Harbour Dwarf"
Junipers	Juniperus species
Liriope	Liriope Muscari
Memorial Rose	Rosa Wichcraiana
Mondo Grass	Ophiopogon japonicus
Periwinkle	Vinca minor
Spreading Euonymus	E. fortunei "Radicans"

2. Secondary List: (This list can be used but must be confined to a bed.)

Common Name	Scientific Name
Carolina Jessamine	Gelsemium sempervirens
Dwarf Bamboo	Arundinaria pygmaea
English Ivy	Hedera Helix
Honeysuckle	Lonicera sempervirens

SECTION VI. MAINTENANCE

1. The developer, his successor and the property owner shall be responsible for regular weeding, irrigating, fertilizing, pruning and other maintenance of all planting on private property of a development. Plant materials which are installed for compliance with this ordinance, both on private property and the public right-of-way, which exhibit evidence of insect pests, disease and/or damage, shall be appropriately treated and dead plant materials shall be replaced.

2. The owner of land abutting a constructed public right-of-way shall be responsible for the tree planting strip lying between the private property line and the curbline or backslope line and shall be required to regularly weed, mow, prune and maintain plantings in compliance with good horticultural practices.

3. If the owner of land thus situated as in (2) above, neglects or refuses to maintain the areas as prescribed, after having been given ten (10) days notice in writing to maintain by the City, the owner shall be guilty of a misdemeanor.

SECTION VII. PLANNING COMMISSION APPROVAL

The City of Bryant Planning Commission will review and act on all landscaping

B. Trees/shrubs on public right-of-way

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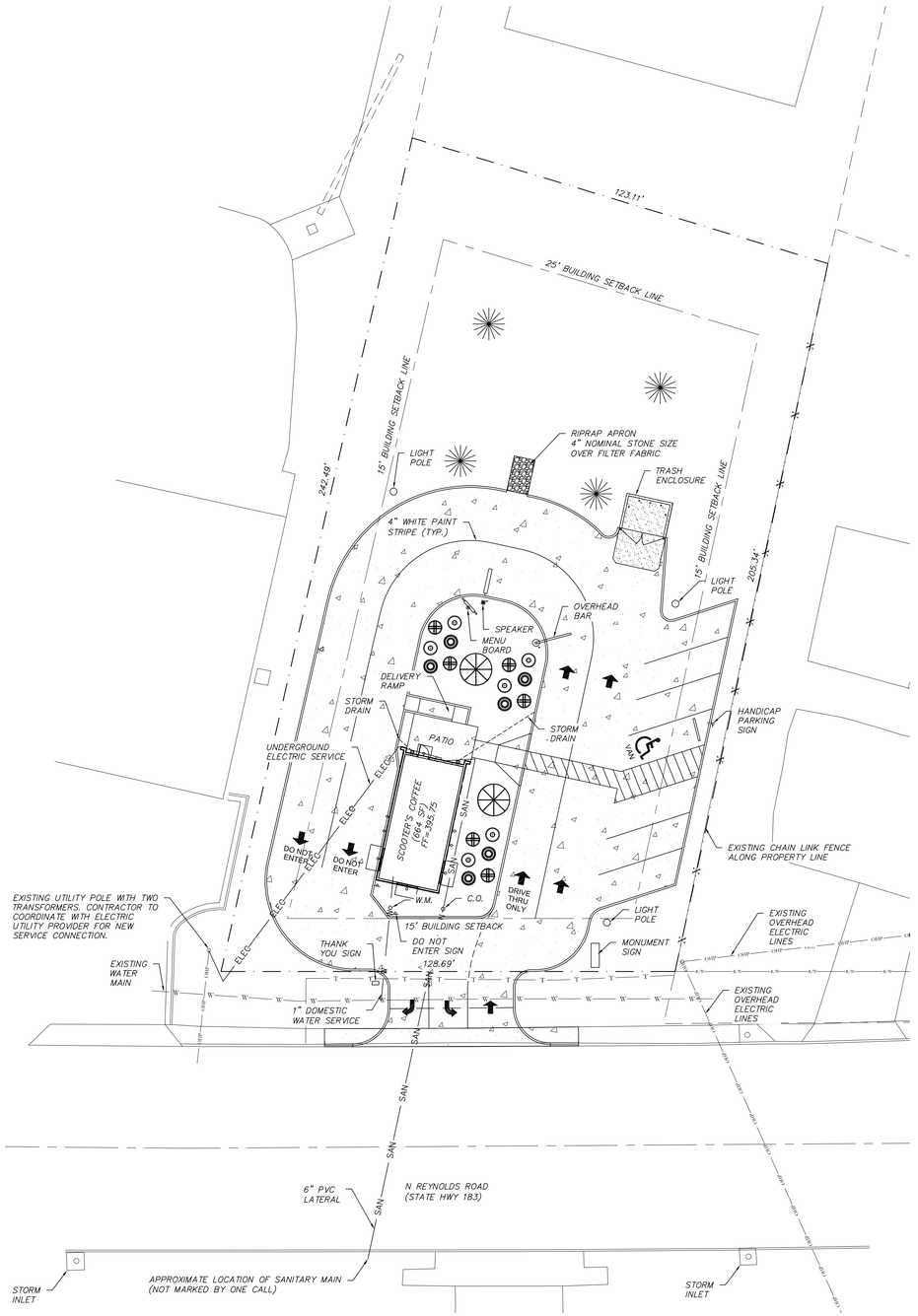

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Wilson D. Waggoner 9/14/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
WILSON D. WAGGONER
NUMBER PE-21001
PROFESSIONAL ENGINEER

Title: LANDSCAPE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
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EST. 1998 SCOOTER'S COFFEE

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Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

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REVISION	DATE	NO.

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C2.0

SHEET 3 OF 4

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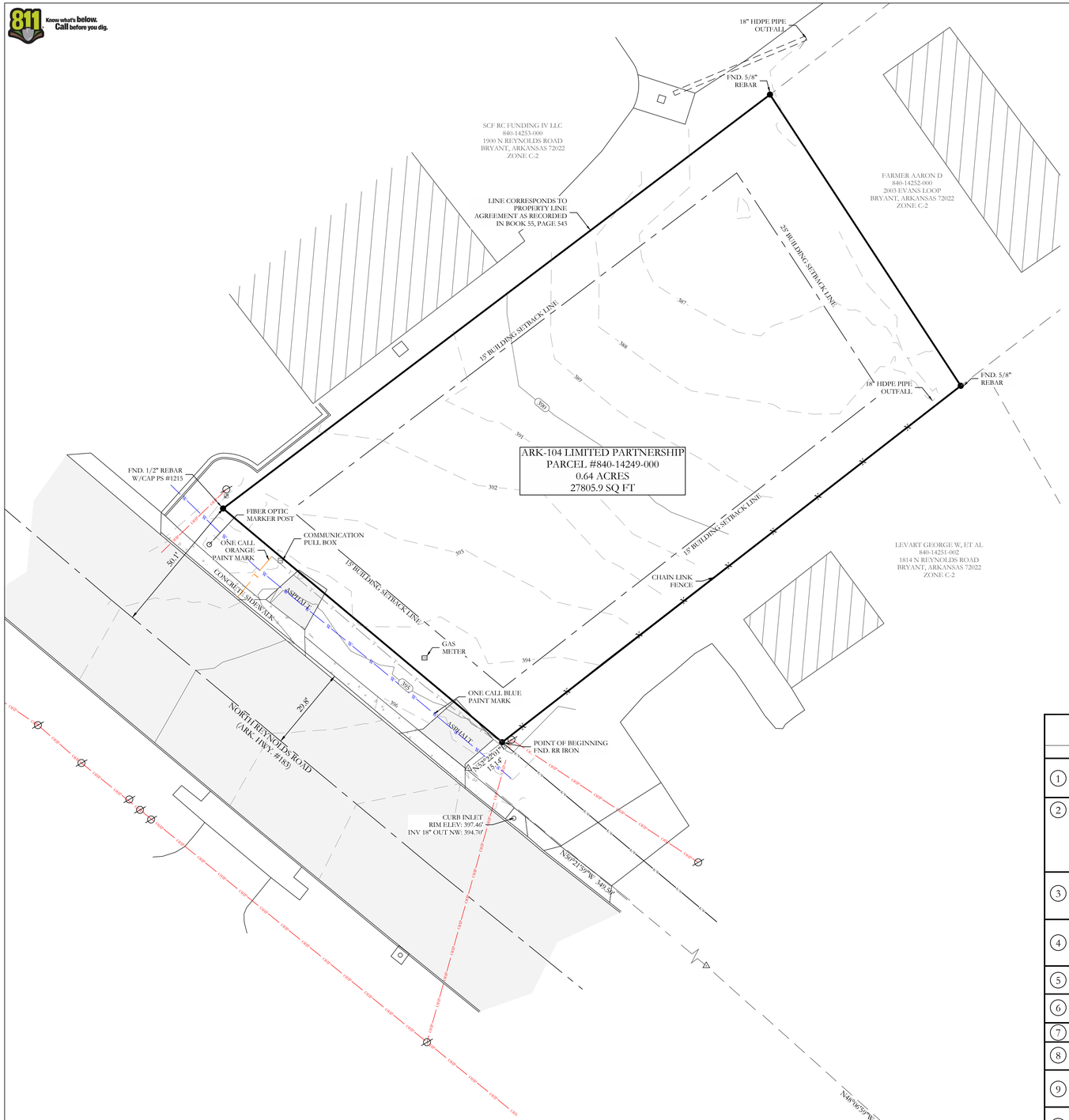

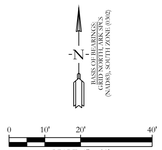

PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-006225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 205 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

TITLE COMMITMENT PROVIDED BY: CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NO. 22-022518-475, EFFECTIVE DATE: JUNE 12, 2022, 8:00AM

	SCHEDULE B PART II - EXCEPTIONS	EFFECT ON SURVEY
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3	LOSS ARISING FROM ANY OIL, GAS OR MINERAL INTERESTS, CONVEYED, RETAINED, ASSIGNED OR ANY ACTIVITY ON OR DAMAGE TO THE INSURED LAND CAUSED BY THE EXERCISE OF SUB-SURFACE RIGHTS OR OWNERSHIP, INCLUDING BUT NOT LIMITED TO THE RIGHT OF INGRESS AND EGRESS FOR SAID SUB-SURFACE PURPOSES.	NOT SURVEY RELATED
4	LOSS ARISING FROM ANY JUDGMENT LIENS OR OTHER LIENS OF RECORD IN ANY UNITED STATES DISTRICT COURT OR BANKRUPTICY COURT IN THE STATE OF ARKANSAS AS OF THE EFFECTIVE DATE HEREOF THAT ARE NOT REFLECTED IN THE REAL PROPERTY RECORDS OF THE COUNTY IN WHICH THE PROPERTY IS LOCATED.	NOT SURVEY RELATED
5	TAXES AND ASSESSMENTS FOR THE YEAR(S) 2022 AND THEREAFTER, WHICH ARE NOT YET DUE AND PAYABLE, PLUS ANY PENALTIES AND INTEREST WHICH MAY ACCRUE.	NOT SURVEY RELATED
6	FUTURE ASSESSMENTS OF SALEM FIRE PROTECTION DISTRICT NO. 1 (AKA SALEM FIRE PROTECTIONDISTRICT NO. 59).	NOT SURVEY RELATED
7	FUTURE ASSESSMENTS OF THE SALINE WATERSHED REGIONAL WATER DISTRIBUTION DISTRICT.	NOT SURVEY RELATED
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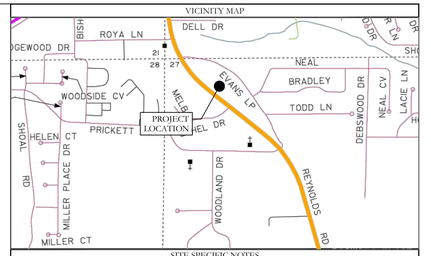
9	EASEMENT IN FAVOR OF SOUTHWESTERN BELL TELEPHONE AS SET FORTH IN EASEMENT DATED FEBRUARY 24, 1979, AND RECORDED ON FEBRUARY 26, 1979, IN BOOK 56 AT PAGE 353 IN THE RECORDS OF SALINE COUNTY, ARKANSAS.	EASEMENT DESCRIPTION IS AMBIGUOUS AND CANNOT BE PLOTTED ACCURATELY
10	PROPERTY LINE BY AND BETWEEN RAYMOND E EVANS AND SHIRLEY M EVANS AND JAMES ELLIOT AND LOIS A ELLIOTT, DATED DECEMBER 8, 1978, RECORDED JANUARY 3, 1979, IN BOOK 55, PAGE 543 OF THE CONVEYANCE RECORDS OF SALINE COUNTY, ARKANSAS	PERTAINS TO THE NORTH WESTERLY PROPERTY LINE AS SHOWN

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M)- Measured
(P) - Plat/Deed
- Fence

VICINITY MAP



SITE SPECIFIC NOTES

OWNER(S) OF RECORD:
ARK-104 LIMITED PARTNERSHIP

STREET ADDRESS:
1816 NORTH REYNOLDS ROAD, BRYANT, ARKANSAS 72022

COUNTY PARCEL ID:
840-14249-000

ZONING DISTRICT:
C-2 GENERAL COMMERCIAL DISTRICT

BUILDING SETBACKS PER CITY REGULATIONS*:
FRONT: 15 FEET
REAR: 25 FEET
SIDE: 15 FEET

MAX LOT COVERAGE: 40%

MAX HEIGHT: 4 STORIES

LOCAL UTILITY PROVIDERS:
WATER SERVICE: CITY OF BRYANT
SEWER SERVICE: CITY OF BRYANT
ELECTRIC SERVICE: ENTERGY
GAS SERVICE: CENTERPOINT ENERGY

GENERAL NOTES

GENERAL SURVEYOR'S NOTES:
ALL LISTED MEASUREMENTS ARE AS MEASURED IN THE FIELD. FOR RECORD MEASUREMENTS, SEE DEED(S) OR PLAT(S) OF RECORD.

ADJACENT OWNERSHIP IS LISTED AS FILED IN THE SALINE COUNTY TAX ASSESSOR'S OFFICE AND IS SHOWN FOR REFERENCE ONLY.

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NOTE: THIS SURVEY IS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS. NO INVESTIGATION OR INDEPENDENT SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. ANY LISTED EASEMENTS OR RIGHTS-OF-WAY WERE DETERMINED FROM LISTED REFERENCE DOCUMENTS AND HAVE NOT BEEN CHECKED FOR ACCURACY OR CORRECTNESS.

ONLY LISTED REFERENCE DOCUMENTS HEREON WERE USED AND CONSIDERED AS A PART OF THIS SURVEY. OTHER DOCUMENTS, IF ANY, COULD FURTHER AFFECT THIS TRACT.

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Overhead Power
- Fence
- Computed point
(M)- Measured
(P) - Deed/Plat
- Grate

FLOOD STATEMENT

NO PORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL # 05119C0441G , DATED: 07/06/2015 .

ALTA/NSPS CERTIFICATION

TO CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP; AN ARKANSAS LIMITED PARTNERSHIP

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6 (A), 6(B), 7(A), 8, 11(A), 11(B), 13, 14, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 20, 2022.

WM. CORBITT R. SHOFFNER
ARKANSAS PS #1664
CORBITT@HOPECONSULTING.COM

DATE

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

REGISTERED
STATE OF ARKANSAS
No. 1664
SIGNATURE
WILLIAM CORBITT R. SHOFFNER
PROFESSIONAL LAND SURVEYOR

ORIGINAL SIGNATURE ON FILE

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

ALTA/NSPS LAND TITLE SURVEY

PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS

DATE: 07/25/2022		C.A.D. BY: JPP					DRAWING NUMBER:	
REVISED:		CHECKED BY:					22-0882	
SHEET:		SCALE: 1" = 20'						
500	01S	14W	0	27	400	62	1664	

© Land Design Solutions, LLC 2022 | 117 S. Market St. | Benton, AR 72015 | 501.315.2626 | Hope Consulting, Inc. | 117 S. Market St. | Benton, AR 72015 | 501.315.2626

LANDSCAPE CODE

SECTION IV: MINIMUM LANDSCAPING CRITERIA

	Residential Subdivision	C-1	C-2	PUD
Trees	N/A	1/each 1/3 acre or Fraction	1/each ½ acre or Fraction	X
Evergreens	N/A	1/2,000 SF	1/2,000 SF	X
Bedding Plants Or Ground Cover in Containment	Primary Entrance Must be Landscaped	100 Square Foot Minimum	100 Square Foot Minimum	X
Lawn (Grass)	N/A	Options	Options	X
Open Space Natural or Landscaping	100 SF/lot	N/A	N/A	X

(X=Landscape design must be approved)

No Planting within 5 foot of a fire hydrant.
Spacing will be 40' between trees.
Tree must be a minimum 3" in diameter @ the base and 12'+ tall.
Existing trees meeting the minimum size can be counted to meet the criteria.
No trees can be planted within thirty-foot (30') of a property corner or driveway.
Shrubs along street right-of-way lines cannot exceed thirty inches (30") in height.
Separations noted in the zoning regulations must be bermed or screened with landscaping and ground cover or grass.

SECTION V. PLANT MATERIAL SELECTION

A. The following list of trees are those which have been found to be best suited to the central Arkansas area. There are many more trees that are strong growth trees but the ones in the following lists require the least amount of maintenance. Additional trees may be selected for use in required landscape areas when proven to be hearty in this area.

1. Primary List:

Common Name	Scientific Name
Bald Cypress	Taxodium distichum
Chinese Elm	Ulmus parvifolia
~~Flowering Bradford Pear~~	~~Pyres Calleryana 'Bradford'~~
Shumard Oak	Quercus shumardi
Ginkgo (male)	Ginkgo biloba
Honey Locust	Gleditsia triacanthos
Loblolly Pine*	Pinus Taeda
Pin Oak	Quercus palustris
Sawtooth Oak	Quercus acutissima
Sugar Hackberry	Celtis laevigata
Willow Oak	Quercus phellos

*Evergreen trees

2. Secondary List:

Common Name	Scientific Name
American Holly*	Ilex opaca
Crab Apple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Dogwood	Cornus florida
Hawthorn	Crataegus opaca
Redbud	Cercis Canadensis
River Birch	Betula nigra
Southern Magnolia*	Magnolia grandiflora
Swamp Red Maple	Acer reburm
Water Oak	Quercus nigra
Weeping Willow	Salix babylonica

*Evergreen Trees

2. The Grasses listed in subsection (1) above are the more commonly used grasses adjacent to vehicular use areas.

E. Ground Covers

1. The following primary list of ground covers are recommended for use to comply with this ordinance.

Common Name	Scientific Name
Dwarf Nandina	N. domestica "Harbour Dwarf"
Junipers	Juniperus species
Liriope	Liriope Muscari
Memorial Rose	Rosa Wichcraiana
Mondo Grass	Ophiopogon japonicus
Periwinkle	Vinca minor
Spreading Euonymus	E. fortunei "Radicans"

2. Secondary List: (This list can be used but must be confined to a bed.)

Common Name	Scientific Name
Carolina Jessamine	Gelsemium sempervirens
Dwarf Bamboo	Arundinaria pygmaea
English Ivy	Hedera Helix
Honeysuckle	Lonicera sempervirens

SECTION VI. MAINTENANCE

1. The developer, his successor and the property owner shall be responsible for regular weeding, irrigating, fertilizing, pruning and other maintenance of all planting on private property of a development. Plant materials which are installed for compliance with this ordinance, both on private property and the public right-of-way, which exhibit evidence of insect pests, disease and/or damage, shall be appropriately treated and dead plant materials shall be replaced.

2. The owner of land abutting a constructed public right-of-way shall be responsible for the tree planting strip lying between the private property line and the curbline or backslope line and shall be required to regularly weed, mow, prune and maintain plantings in compliance with good horticultural practices.

3. If the owner of land thus situated as in (2) above, neglects or refuses to maintain the areas as prescribed, after having been given ten (10) days notice in writing to maintain by the City, the owner shall be guilty of a misdemeanor.

SECTION VII. PLANNING COMMISSION APPROVAL

The City of Bryant Planning Commission will review and act on all landscaping

B. Trees/shrubs on public right-of-way

All tree/shrub species listed in A, 1-2 and C, 1-2 may be used in the public right-of-way.

C. Shrub Species

The following list of shrubs are those which have been found to be best suited to this area and yet requiring the least amount of maintenance. This list along with the secondary list are those shrubs which may be planted in the required landscape area. Additional selective shrubs may be substituted when proven to be hearty in this region.

1. Primary List:

Common Name	Scientific Name
Evergreen Hollies	Ilex species
Nandina	Nandina domestica

2. Secondary List:

Common Name	Scientific Name
Abelia	Abelia grandiflora
Boxwood	Buxus sempervirens
Chinese Photinia	Photinia serrulata

Note: Secondary listed shrubs require increased maintenance

D. Grasses

1. The following grasses may be used to comply with this ordinance:

Mayer Z-52	Zoysia	Fescue
Bermuda Grass	Bermuda Grass hybrids	
Centipede	St. Augustine	

GENERAL NOTES

THE OWNER MAY CONTRACT WITH A LOCAL LANDSCAPER TO SUBSTITUTE SPECIES AND LOCATIONS OF THE PLANTINGS BUT THE CODE SHALL BE FOLLOWED FOR THE BUFFERS AND INTERNAL PLANTINGS PER CITY CODE.

LOT AREA

27,806± SQ.FT.
0.64± AC.

PLANTING SUMMARY

EVERGREEN TREES

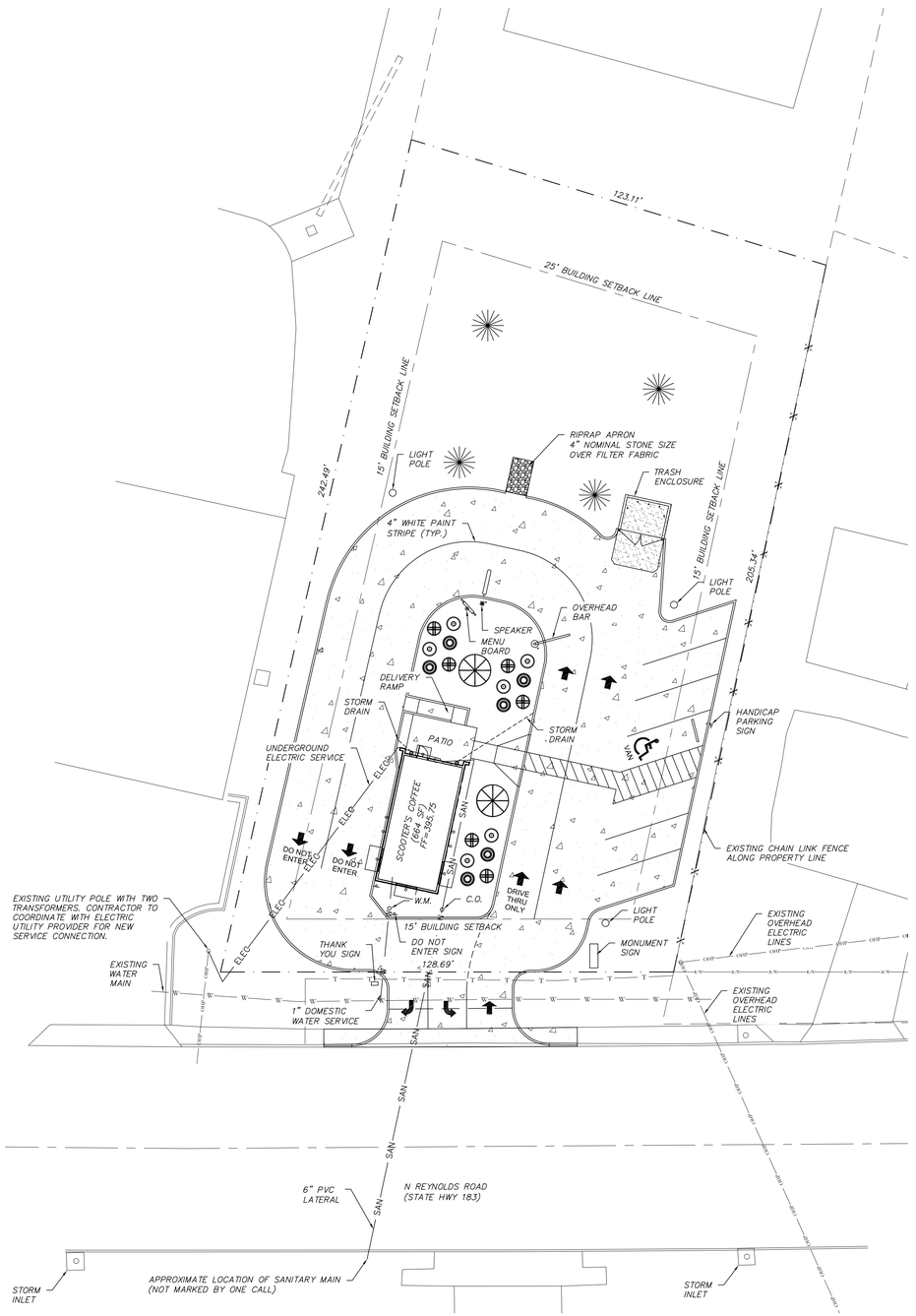
NAME	QTY.	SIZE	COMMENTS
ILEX OPACA AMERICAN HOLLY	14	24" BOX	8' HT. 2" CAL. MIN.

CANOPY TREES

NAME	QTY.	SIZE	COMMENTS
BETULA NIGRA RIVER BIRCH	2	24" BOX	8' HT. 2" CAL. MIN.

SHRUBS

NAME	QTY.	SIZE	COMMENTS
BUSUS SEMPERVIRENS BOXWOOD	6	5 GAL	24"–30" HT.
NANDINA DOMESTICA NANDINA	6	5 GAL	24"–30" HT.
ILEX SPECIES EVERGREEN HOLLY	6	5 GAL	24"–30" HT.



LEGEND

- PROPOSED CONCRETE PAVEMENT
- ELEC — PROPOSED ELECTRIC SERVICE
- W — PROPOSED WATER SERVICE
- SAN — PROPOSED SANITARY SERVICE
- ST — PROPOSED STORM DRAIN
- SF — EROSION CONTROL SILT FENCE

0' 10' 20'
SCALE : 1"=20'

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 9/14/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
WILSON D. WAGGONER
NUMBER PE-21001
PROFESSIONAL ENGINEER

Title: LANDSCAPE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES

Surveyors – Engineers – Planners

ILLINOIS DESIGN FIRM #184-001238

MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

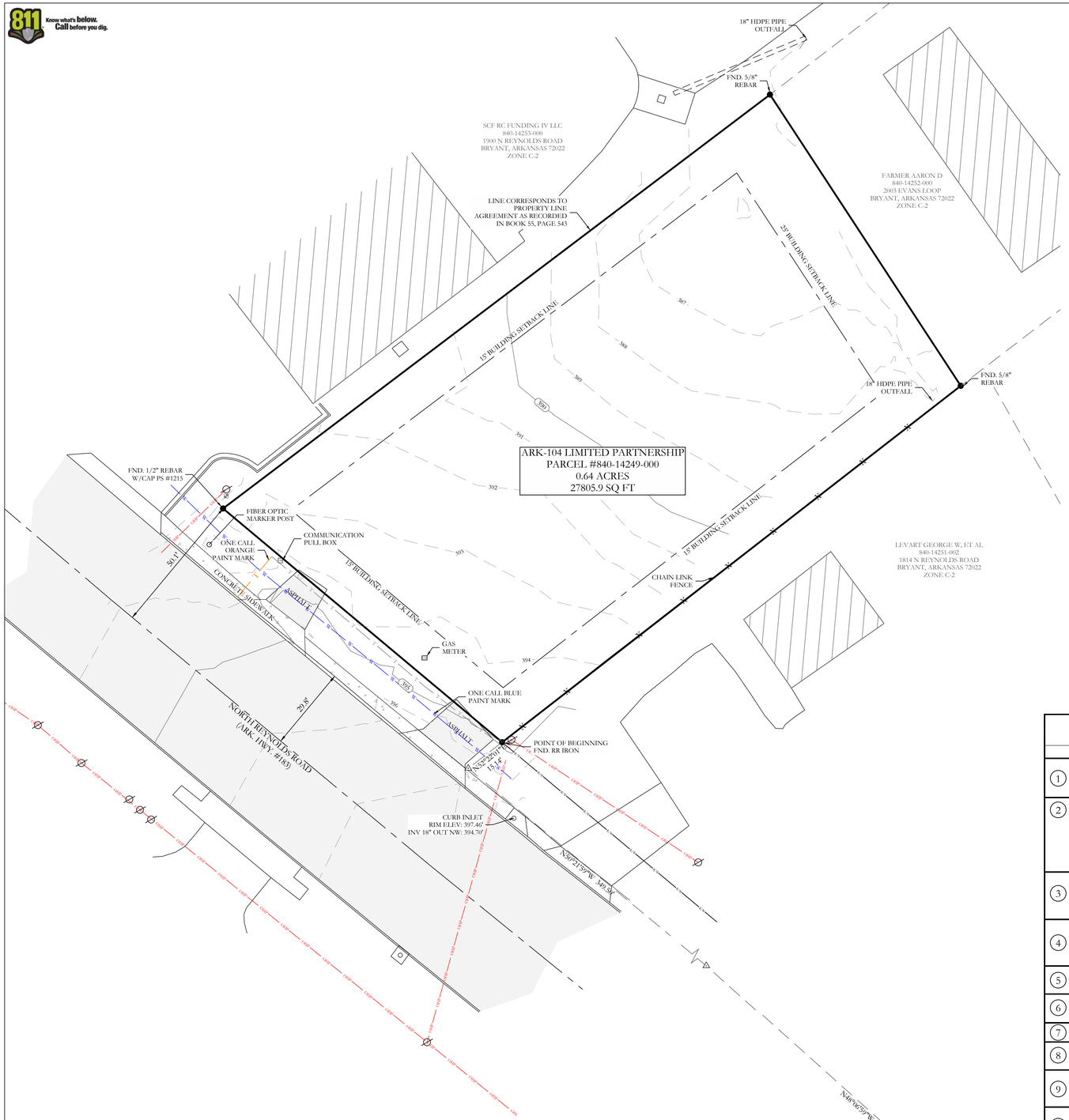
NO.	DATE	REVISION

PROJECT NO. 2235801
DRAWN WDW | SCALE SEE PLAN
CHECKED WDW | DATE 8/17/2022

C2.0

SHEET 3 OF 4

811 Know what's below. Call before you dig.



N
ALL BEARINGS ARE GRID NORTH, ARKANSAS STATE PLANE ZONE (NAD83, SOUTH ZONE 3302)

0 10' 20' 40'
SCALE: 1" = 20'

PROPERTY DESCRIPTION

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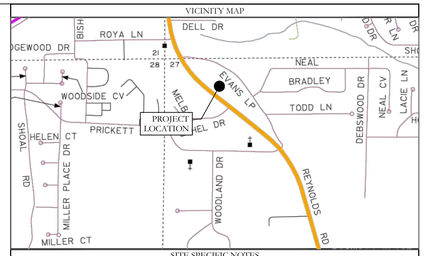

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ADJACENT OWNERSHIP IS LISTED AS FILED IN THE SALINE COUNTY TAX ASSESSOR'S OFFICE AND IS SHOWN FOR REFERENCE ONLY.

THIS SURVEY IS FOR THE EXCLUSIVE USE AND BENEFIT OF PARTIES SHOWN HEREIN. USE OR DUPLICATION OF THIS DOCUMENT BY ANY OTHER PARTIES IS PROHIBITED AND VOIDS SAID DOCUMENT.

NOTE: THIS SURVEY IS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS. NO INVESTIGATION OR INDEPENDENT SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. ANY LISTED EASEMENTS OR RIGHTS-OF-WAY WERE DETERMINED FROM LISTED REFERENCE DOCUMENTS AND HAVE NOT BEEN CHECKED FOR ACCURACY OR CORRECTNESS.

ONLY LISTED REFERENCE DOCUMENTS HEREON WERE USED AND CONSIDERED AS A PART OF THIS SURVEY. OTHER DOCUMENTS, IF ANY, COULD FURTHER AFFECT THIS TRACT.

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Overhead Power
- Fence
- Grate

FLOOD STATEMENT

NO PORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL # 05119C0441G , DATED: 07/06/2015 .

ALTA/NSPS CERTIFICATION

TO CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6 (A), 6(B), 7(A), 8, 11(A), 11(B), 13, 14, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 20, 2022.

WM. CORBITT R. SHOFFNER
ARKANSAS PS #1664
CORBITT@HOPECONSULTING.COM

DATE

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

REGISTERED
STATE OF ARKANSAS
No. 1664
SIGNATURE
WILLIAM CORBITT R. SHOFFNER
PROFESSIONAL LAND SURVEYOR

ORIGINAL SIGNATURE ON FILE

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

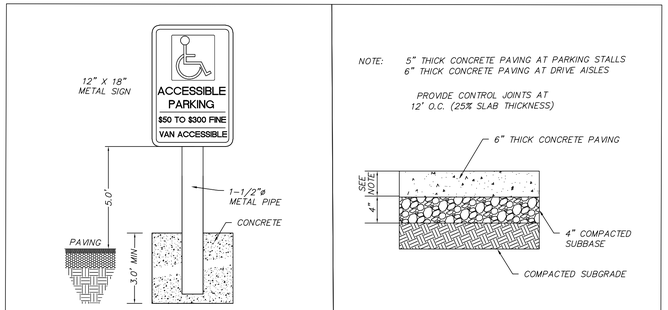
FOR USE AND BENEFIT OF:
CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

ALTA/NSPS LAND TITLE SURVEY

PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS

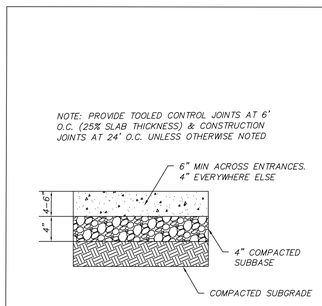
DATE: 07/25/2022		C.A.D. BY: JPP					DRAWING NUMBER:	
REVISED:		CHECKED BY:					22-0882	
SHEET:		SCALE: 1" = 20'						
500	01S	14W	0	27	400	62	1664	

© Land Design Solutions, LLC 2022 | 117 S. Market St. | Benton, AR 72015 | (501) 315-2626 | Drawn By: KS | Checked By: WRS | File: K:\Survey\22-0882\Dwg\22-0882 ALTA.dwg

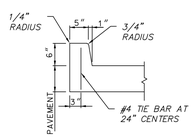


ACCESSIBLE PARKING SIGN
NOT TO SCALE

CONCRETE PAVING SECTION
NOT TO SCALE



CONCRETE SIDEWALK SECTION
NOT TO SCALE



CONCRETE BARRIER CURB SECTION
NOT TO SCALE



VICINITY MAP (NTS)

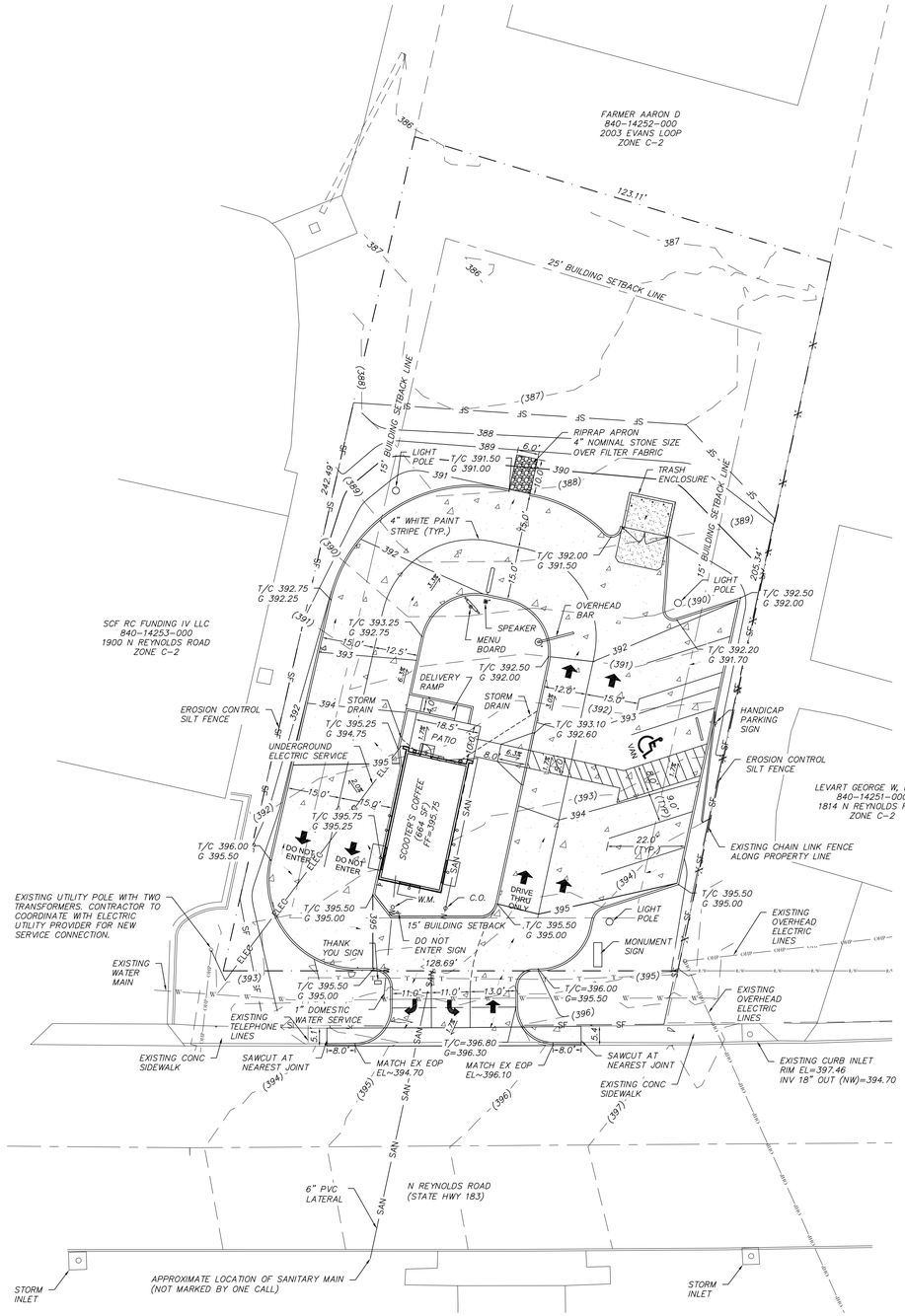
UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

LEGEND

	PROPOSED CONCRETE PAVEMENT
ELEC	PROPOSED ELECTRIC SERVICE
W	PROPOSED WATER SERVICE
SAN	PROPOSED SANITARY SERVICE
ST	PROPOSED STORM DRAIN
SF	EROSION CONTROL SILT FENCE
T/C	TOP OF CURB
G	GRADE/BOTTOM OF FACE OF CURB
(XXX)	EXISTING GRADE ELEVATION
XXX	PROPOSED GRADE ELEVATION



PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

SITE INFORMATION:
PARCEL: 840-14249-000
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
(618)656-9251

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SURVEYOR:
HOPE CONSULTING
117 S MARKET STREET
BENTON, ARKANSAS 72015
(501)315-2626

LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

LEGAL DESCRIPTION

PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-30225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 32 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 262.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 32 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR
ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)
PERMITTED USES: RESTAURANTS PERMITTED
BUILDING COVERAGE: 35% MAXIMUM
HEIGHT: THREE STORIES OR 45' MAXIMUM
FRONT SETBACK: 50' MINIMUM
SIDE SETBACK: 0' UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 25' MINIMUM
REAR SETBACK: 15' MINIMUM UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 55' MINIMUM
REQUIRED PARKING: ONE SPACE PER 300 SF OF OCCUPIED SPACE=664/300=2 SPACES
PROPOSED PARKING: 7 STALLS INCLUDING 1 HANDICAP
IMPERVIOUS AREA COVERAGE: 90% MAXIMUM

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 9/23/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
WILSON D. WAGGONER
NUMBER PE-21001
PROFESSIONAL ENGINEER

Title: PROPOSED SITE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION

PROJECT NO. 2235801
DRAWN WDW | SCALE SEE PLAN
CHECKED WDW | DATE 8/17/2022

C1.0

SHEET 2 OF 4

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

Small Scale Commercial Development Application Checklist

The Zoning Code is available at www.cityofbryant.com under the Planning and Community Development tab.

Date: 9/23/2022

Applicant or Designee:

Name Wilson Waggoner

Address 316 N Main Street, Edwardsville, IL 62025

Phone (618)656-9251

Email Address wdw@sherrillassoc.com

Project Information:

Name of Development Proposed Scooter's Coffee

Site Location 1816 N Reynolds Road, Bryant, AR

Parcel Number 840-14249-000 Current Zoning 840-14249-000

Current: Owner Name ARK-104 Limited Partnership Owner Email shawn@lamontiallc.com
Future: Mean Bean Coffee LLC

Application Checklist

Requirements for Submission

- ☒ Completed Checklist
- ☒ ADA/ABA Form completed
- ☒ Two full sets of Building Plans
- ☐ 8 folded copies of Site Plan (minimum size 17" X 34") that includes the following:
- ☐ 8 copies of Front and Rear Building Elevations
- ☒ An electronic copy of the Site Plan and Building Plans in a PDF Format.
- ☐ Copy of ADEQ Storm water Pollution Prevention Plan for property parcel containing one acre or larger.
- ☐ One (1) Copy of Storm Water Detention Plan
- ☐ $250.00 Fee for Storm Water Detention and Drainage Review

Note: ALL requirements listed above must be completed and included with the submission before it can be placed on the Development and Review Committee agenda.

I. Basic Information Needed on Site Plan

- ☒ Name of Development
- ☒ Current Zoning
- ☒ Name and Address of Owner of Record
- ☒ Name and Address of the architect, landscape architect, engineer, surveyor, or other person involved in the preparation of the plan
- ☒ Date of the preparation of the plan
- ☒ Vicinity map showing surrounding area within a half mile from the site.
- ☒ Legal description of the property with exact boundary lines.
- ☒ North arrow and scale
- ☐ Identification of any land areas within the 100 year floodplain and within the 100 year floodway.
- ☒ Lot area in square feet.
- ☒ Show scale (not less than 1"=100') (paper size minimum 17" x 34").
- ☐ Existing streams, drainage channels, and other bodies of water.
- ☐ Drainage easements for stormwater run-off and detention shown and labeled.
- ☒ Location and name of existing streets.
- ☒ Show source of water supply
- ☒ Show location of wastewater connection to municipal system and sanitary sewer layout.
- ☐ Fire Hydrant placement
- ☒ Proposed location of buildings and other structures, parking areas, drives, loading areas, service areas, alleys, walks, screening, and public streets.
- ☒ Building setbacks from property lines.
- ☒ Sufficient dimensions to indicate relationship between buildings, property lines, parking areas and other elements of the plan.
- ☒ Extent and character of proposed landscaping. Common and/or botanical plant names and sizes of new vegetation must be clearly indicated.
- ☒ Location, massing and pattern of existing vegetation to be retained.
- ☐ Existing structures on the site.
- ☒ Pedestrian and vehicular access points, sidewalks, crosswalks, etc.
- ☒ Typical buildings elevations depicting the style, size and exterior construction material of the buildings proposed. Where several buildings are proposed on the plan, a separate sketch shall be prepared for each type. The elevations shall be drawn a minimum scale of 1/16" to a foot and must show adjoining context.
- ☐ Any variance approvals.

II. Information Need, Not included on Plat

☒ Is the site compatible with the Master Street Plan?

☒ Is proposed improvement within building line setbacks?

☒ Can parking requirements be satisfied?

☒ Floor Space 664 SQ FT Divided by 300 = 2 (Number of Parking Spaces Required)

☒ Is the Improvement outside the 100 year floodplain? (If no, Provide 404 Permit for Site)

☐ Is all mechanical equipment above FEMA 100 year flood elevation?

☒ Will there be a dumpster on Site?

☒ Will there be a construction site office?

☒ Have you made a "One Call" utilities locates?

☒ Do the structure and site comply with ADA (Americans with Disability Act) and ABA (Architectural Barriers Act) Accessibility Guidelines?

☒ Does the design comply with Arkansas Plumbing Code and National Electric Code Requirements?

☒ Do the Foundation and Structure meet Earthquake requirements for Zone 1?

☒ Does the structure meets Arkansas Energy Code for specified use?

☒ Does the development comply with Arkansas Fire Prevention Code?

☒ Does the development comply with International Code Council regulations?

☒ Will a Site Clearance Permit be required? (City Ordinance 2002-03)

☐ Will a Burn Permit be required?

☐ Has the Board of Adjustment granted any variances for the property or development?

- If you have please explain in detail: _____

_____

III. Landscaping Requirements

☒ Minimum number of trees has been met

(C-1 Zoning – 1 tree per 1/3 acre or Fraction. C-2 & C-3 Zoning – 1 tree per ½ Acre or Fraction)

☒ Minimum number of evergreens has been met
(C-1, C-2, & C-3 Zoning – 1 evergreen per 2,000 Sq. Ft. of building.)

☒ At least 100 Sq. Ft of bedding plants or ground cover in containment.

☐ If located in C-2 or C-3 Zone and Commercial lot abuts a residentially zoned lot.

- Minimum 6ft high wood, rock, or masonry fence with landscape screen provided

READ CAREFULLY BEFORE SIGNING

I Wilson D. Waggoner, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all applicable City and States Regulations, Laws, and Codes.

ADA/ABA ACCESSIBILITY STANDARDS

The *Americans with Disability Act* and *Architectural Barriers Act* Accessibility Guidelines were prepared by the U.S. Access Board and mandated by the U. S. Department of Justice regulations implementing Title III as the official ADA/ABA accessibility guidelines. **All new construction, remodeling, and modifications must conform to these building standards** for places of public accommodation and commercial facilities. Residential is exempt.

The ADA/ABA accessibility guidelines contain general design standards for building and site elements, such as accessible entrances and routes, ramps, parking spaces, stairs, elevators, restrooms, signage, etc. Also included are specific standards for restaurants, medical care facilities, libraries and transportation facilities and vehicles, and places of lodging.

The guidelines also include "scoping" requirements that outline the necessary features or appropriate quantity for achieving ready access. For example, at least 50 percent of all public entrances to buildings must be accessible with an accessible path of travel. In public restrooms, at least one bathroom stall must be accessible unless there are more than six stalls, in which case the number increases.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the ADA Accessibility Guidelines. I further understand that a copy of the ADA/ABA Regulations are available for inspection during business hours of City Hall or I may obtain a copy by writing:

The Access Board
1331 F Street, NW, Suite 1000
Washington, DC 20004-1111
(202) 272-0080 (v) (202) 272-0082 (TTY) (202) 272-0081 (fax)
(800) 872-2253 (v) (800) 993-2822 (TTY)
email: info@access-board.gov

Wilson D. Waggoner

Signature of Contractor or Authorized Agent

9/23/2022

Date

Signature of Owner (If owner-builder)

Date

GREASE TRAP STANDARDS

The City of Bryant requires all commercial buildings comply with plumbing codes found in the Arkansas State Plumbing Code, Latest Edition. **All new construction, remodeling, and modifications must conform** to these plumbing standards for places of public accommodation and commercial facilities. These guidelines contain general design standards for construction and site elements relating to plumbing.

As of 7/27/04, the Bryant Sewer & Water Commission requires stringent specification standards for commercial or public businesses that involve any food preparation on the premise. The new standard requires calculations, and associated data to be submitted to the Bryant Water Utilities General Manager concurrent with the proposed building plumbing plans along with a grease trap calculation form. Building Permits will not be issued until this form has been received and approved by the Bryant Water Utilities General Manager.

All new buildings or strip centers containing sections designated for commercial enterprise are encouraged to provide a stub-out for a separate waste line for future grease interceptor installation. The owner of a new strip center shall consider suitable physical property space and sewer gradient that will be conducive for the installation of an exterior, in-ground grease interceptor(s) for any flex space contained within the strip center. Physical Property Restrictions and sewer gradient shall not be a defense for failure to install an exterior, in-ground grease interceptor.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the City of Bryant Water & Sewer Department. I further understand that copies of the Grease Interceptor Design and Structural Criteria regulations will be available from the Bryant Water/Wastewater Plant (501-847-8083) during business hours.

Project Name Proposed Scooter's Coffee

Wilson D. Waggoner

Signature of Contractor or Authorized Agent

9/23/2022

Date

Signature of Owner (If owner-builder)

Date



Ronald Roberts Associates, Inc.
Consulting Engineers

STRUCTURAL DESIGN CALCULATIONS

PROJECT: **SCOOTERS COFFEE**

LOCATION: **1816 N REYNOLDS RD.**
BRYANT, ARKANSAS 72022

BUILDING CODE: **2012 INTERNATIONAL BUILDING CODE**

DESIGN LOADS:

115 MPH	**DESIGN WIND SPEED (ULTIMATE)**
20 PSF	**ROOF DEAD LOAD**
20 PSF	**ROOF LIVE LOAD**

DATE: **AUGUST 31, 2022**

2948 N. Stemmons Freeway ▪ Dallas, TX 75247-6103 ▪ Phone: 214-637-6299 ▪ rara@rara.net

Ronald Roberts Associates, Inc. Consulting Engineers

PROJECT: SCOOTERS COFFEE JOB NO.: 22434

SUBJECT: DESIGN LOADS DATE: 8/31/2022

BY: CMB

ALL DESIGN LOADS PER THE 2012 INTERNATIONAL BUILDING CODE AND ASCE 7-10.

- ROOF LIVE LOAD (TABLE 4.3-1, ASCE7-10)
  - ORDINARY FLAT, PITCHED, AND CURVED ROOFS: **20 PSF**

- ROOF DEAD LOAD (TABLE C3-1, ASCE7-10)

ROOFING (BITUMINOUS):	1.5	PSF
ROOF DECK (3/4" PLYWOOD):	2.4	PSF
INSULATION (3" RIGID):	4.5	PSF
WOOD JOIST:	4.0	PSF
HVAC ALLOWANCE:	4.0	PSF
CEILING SYSTEM, LIGHTING, ETC.:	3.6	PSF
∑=	**20**	**PSF**

- GROUND SNOW LOAD, P_g
  - **P_g = 10 PSF**

- MAIN WIND-FORCE RESISTING SYSTEM (SIMPLE DIAPHRAGM, LOW-RISE BUILDING) PER TABLE 28.5-1 OF ASCE 7-10

STEP 1: DETERMINE RISK CATEGORY OF BUILDING OR OTHER STRUCTURE

RISK CATEGORY II (TABLE 1.5-1)

STEP 2: DETERMINE THE BASIC WIND SPEED, V, FOR APPLICABLE RISK CATEGORY

V_{ULT} = 115 MPH, $V_{ASD} = \sqrt{0.6}V_{ULT} = \sqrt{0.6}(115) = 89$ MPH (FIGURE 26.5-1B)

STEP 3: DETERMINE WIND LOAD PARAMETERS

EXPOSURE CATEGORY B (SECTION 26.7)

K_{zt} = 1.0 (SECTION 26.8)

STEP 4: ENTER FIGURE TO DETERMINE WIND PRESSURES FOR h=30 FT, P_{S30} (FIGURE 28.6-1) (ROOF ANGLE 0 TO 5°)

P_{S30} =	+21.0	PSF	ZONE A
=	-10.9	PSF	ZONE B
=	+13.9	PSF	ZONE C
=	-6.5	PSF	ZONE D
=	-25.2	PSF	ZONE E
=	-14.3	PSF	ZONE F
=	-17.5	PSF	ZONE G
=	-11.1	PSF	ZONE H
=	-35.3	PSF	OVERHANG, ZONE E
=	-27.6	PSF	OVERHANG, ZONE G

STEP 5: ENTER FIGURE TO DETERMINE ADJUSTMENT FOR BUILDING HEIGHT AND EXPOSURE, λ

λ = 1.00 (H = 13.0 FT, EXPOSURE B) – FIGURE 28.6-1

STEP 6: DETERMINE ADJUSTED WIND PRESSURES, P_S

$P_S = \lambda K_{zt} P_{s30}$ (EQUATION 28.6-1)

P_S =	+21.0	PSF	ZONE A
=	-10.9	PSF	ZONE B
=	+13.9	PSF	ZONE C
=	-6.5	PSF	ZONE D
=	-25.2	PSF	ZONE E
=	-14.3	PSF	ZONE F
=	-17.5	PSF	ZONE G
=	-11.1	PSF	ZONE H
=	-35.3	PSF	OVERHANG, ZONE E
=	-27.6	PSF	OVERHANG, ZONE G

PER SECTION 28.6.4 OF ASCE 7-10, THE LOAD EFFECTS OF THE DESIGN WIND PRESSURES FROM SECTION 28.6.3 SHALL NOT BE LESS THAN A MINIMUM LOAD DEFINED BY ASSUMING THE PRESSURES, P_s, FOR ZONES A AND C EQUAL TO +16 PSF, ZONES B AND D EQUAL TO +8 PSF, WHILE ASSUMING P_S FOR ZONES E, F, G, AND H ARE EQUAL TO 0 PSF.

MINIMUM WIND PRESSURES, P_S

P_S =	+16.0	PSF	ZONE A
=	+8.0	PSF	ZONE B
=	+16.0	PSF	ZONE C
=	+8.0	PSF	ZONE D
=	0	PSF	ZONE E
=	0	PSF	ZONE F
=	0	PSF	ZONE G
=	0	PSF	ZONE H

- COMPONENTS & CLADDING (SIMPLIFIED METHOD) PER TABLE 30.5-1 OF ASCE 7-10

STEP 1: DETERMINE RISK CATEGORY OF BUILDING OR OTHER STRUCTURE

RISK CATEGORY II (TABLE 1.5-1)

STEP 2: DETERMINE THE BASIC WIND SPEED, V, FOR APPLICABLE RISK CATEGORY

V_{ULT} = 115 MPH, $V_{ASD} = \sqrt{0.6}V_{ULT} = \sqrt{0.6}(115) = 89$ MPH (FIGURE 26.5-1B)

STEP 3: DETERMINE WIND LOAD PARAMETERS

EXPOSURE CATEGORY B (SECTION 26.7)
K_{zt} = 1.0 (SECTION 26.8)

STEP 4: ENTER FIGURE TO DETERMINE WIND PRESSURES AT h=30 FT, P_{NET30} (FIGURE 30.5-1) (ROOF ANGLE 0 TO 7°)

P_{NET30} = +7.7 PSF ZONE 1, EFFECTIVE AREA = 100 FT^2
-21.8 PSF

= +7.7 PSF ZONE 2, EFFECTIVE AREA = 100 FT^2
-25.8 PSF

= +7.7 PSF ZONE 3, EFFECTIVE AREA = 100 FT^2
-25.8 PSF

= +22.7 PSF WALL, ZONE 4, EFFECTIVE AREA = 20 FT^2
-24.7 PSF

= +22.7 PSF WALL, ZONE 5, EFFECTIVE AREA = 20 FT^2
-29.7 PSF

STEP 5: ENTER FIGURE TO DETERMINE ADJUSTMENT FOR BUILDING HEIGHT AND EXPOSURE, λ

λ = 1.0 (H = 13.6 FT, EXPOSURE B) – FIGURE 30.5-1

STEP 6: DETERMINE ADJUSTED WIND PRESSURES, P_{NET}

$P_{NET} = \lambda K_{zt} P_{NET30}$ (EQUATION 30.5-1)

P_{NET} = +7.7 PSF ZONE 1, EFFECTIVE AREA = 100 FT^2
-21.8 PSF

= +7.7 PSF ZONE 2, EFFECTIVE AREA = 100 FT^2
-25.8 PSF

= +7.7 PSF ZONE 3, EFFECTIVE AREA = 100 FT^2
-25.8 PSF

= +22.7 PSF WALL, ZONE 4, EFFECTIVE AREA = 20 FT^2
-24.7 PSF

= +22.7 PSF WALL, ZONE 5, EFFECTIVE AREA = 20 FT^2
-29.7 PSF

PER SECTION 30.2.2 OF ASCE 7-10, THE DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING OF BUILDINGS SHALL NOT BE LESS THAN A NET PRESSURE OF 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.

- MAIN WIND-FORCE RESISTING SYSTEM (PARAPETS) PER SECTION 28.3.2 OF ASCE 7-10

$P_P = q_P (GC_{PN})$ (EQUATION 28.3-2)

$q_P = 0.00256K_ZK_{Zt}K_dV^2$ (EQUATION 26.10-1)

$K_Z =$ 0.70 (H =19 FT, EXPOSURE B, TABLE 28.3-1)
$K_{Zt} =$ 1.0 (SECTION 26.8.2)
$K_d =$ 0.85 (TABLE 26.6-1)
$V_{ULT} =$ 115 MPH (FIGURE 26.5-1B)

$q_P =$ $0.00256(0.70)(1.0)(0.85)(115)^2 = 20.1$ PSF

$P_P =$ 20.1 PSF (+1.5) = +30.2 PSF (WINDWARD PARAPET)
$P_P =$ 20.1 PSF (-1.0) = -20.1 PSF (LEEWARD PARAPET)

- COMPONENTS & CLADDING (PARAPETS) PER TABLE 30.9-1 OF ASCE 7-10

STEP 1: DETERMINE RISK CATEGORY OF BUILDING OR OTHER STRUCTURE

RISK CATEGORY II (TABLE 1.5-1)

STEP 2: DETERMINE THE BASIC WIND SPEED, V, FOR APPLICABLE RISK CATEGORY

V_{ULT} = 115 MPH, $V_{ASD} = \sqrt{0.6}V_{ULT} = \sqrt{0.6}(115) = 89$ MPH (FIGURE 26.5-1B)

STEP 3: DETERMINE WIND LOAD PARAMETERS

K_d = 0.85 (TABLE 26.6-1)

EXPOSURE CATEGORY B (SECTION 26.7)
K_{zt} = 1.0 (SECTION 26.8)

ENCLOSED BUILDING (SECTION 26.10)

INTERNAL PRESSURE COEFFICIENT, GC_{pi} = ±0.18 (TABLE 26.11-1)

STEP 4: DETERMINE VELOCITY PRESSURE EXPOSURE COEFFICIENT

K_h = 0.70 (H = 19 FT, EXPOSURE B, TABLE 30.3-1)

STEP 5: DETERMINE VELOCITY PRESSURE q_p

$$q_P = 0.00256K_hK_{Zt}K_dV^2 \text{ (EQUATION 30.3-1)}$$

$$q_P = 0.00256(0.70)(1.0)(0.85)(115)^2 = 20.1 \text{ PSF}$$

STEP 6: DETERMINE EXTERNAL PRESSURE COEFFICIENT FOR WALL AND ROOF SURFACES ADJACENT TO PARAPET, (GC_P)

GC_P = +0.9 (WALL, ZONE 5, EFFECTIVE AREA = 20 FT^2)
= -1.3 (WALL, ZONE 5, EFFECTIVE AREA = 20 FT^2)

= -1.1 (ROOF, ZONE 3, EFFECTIVE AREA = 100 FT^2)

STEP 7: CALCULATE WIND PRESSURE, P

LOAD CASE A: +0.9-(-1.1) = +2.0
$P = q_P(GC_P - GC_{Pi})$ (EQUATION 30.9-1)
P = 20.1 PSF (+2.0 + 0.18)
P = 43.8 PSF

LOAD CASE B: +0.9-(-1.3) = +2.2
P = 20.1 PSF (+2.2 + 0.18)
P = 47.8 PSF

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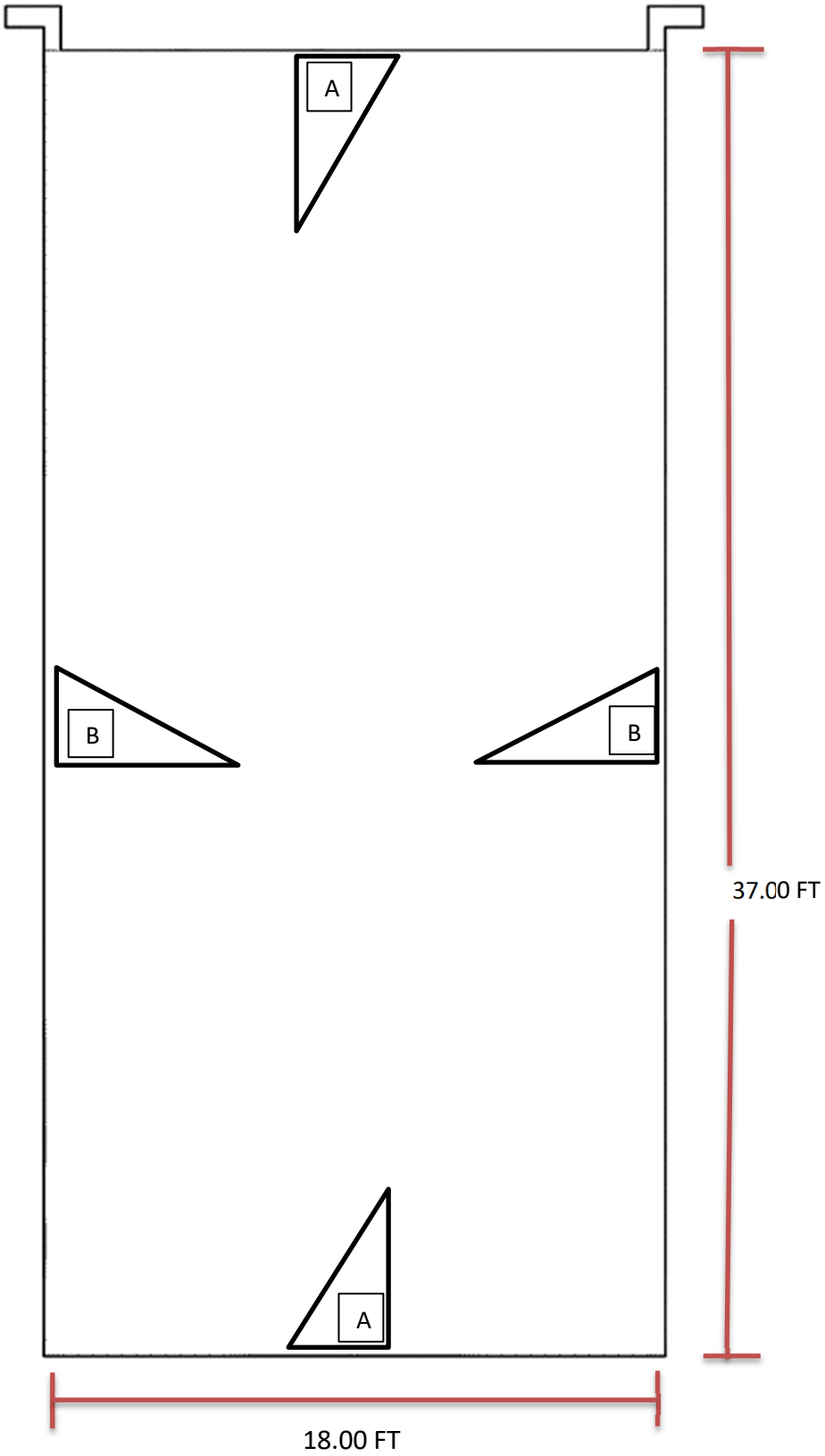
Consulting Engineers

B.O. DECK: 12.85 FT
T. O. PARAPET: 18.25 FT

PARAPET HEIGHT: 5.40 FT



B.O. DECK: 13.60 FT
T. O. PARAPET: 19.00 FT

PARAPET HEIGHT: 5.40 FT

GROUND SNOW LOAD (P_g) : 10.0 PSF (ASCE 7-10: 7.2)

FLAT ROOF SNOW LOAD (ASCE 7-10: 7.3)

$P_f = .7C_eC_tI_sP_g$ Equation 7.3-1

C_e 1.0
C_t = 1.0
I_s = 1.0
P_g = 10.0 PSF

P_f = 7.0 PSF

MINIMUM SNOW LOAD FOR LOW- SLOPE ROOFS (ASCE7-10: 7.3.4)

$P_m = 20 * I_s$ for Ground Snow > 20
$P_m = I_sP_g$ for Ground Snow < 20

I_s = 1.0
P_g = 10.0 PSF

P_m = 10.0 PSF

SNOW DENSITY

$\gamma = .013P_g+14$ but no more than 30 pcf (ASCE 7-10 : 7.7-1)

P_g = 10.0 PSF

γ= 14.13 PCF

BASE SNOW HEIGHT

$h_b = {}^{P_f}/_{\gamma}$

P_f = 10.0 PSF
γ= 14.13 PCF

h_b = 0.71 FT

SNOW DRIFT A

FULL DRIFT

$$h_d = .43\sqrt[3]{l_u}\sqrt[4]{P_g + 10} - 1.5$$ (ASCE 7-10 : FIG. 7-9)

l_u = 37.00 FT if less than 20 FT use 20 FT

P_g = 10.0 PSF

h_d = 1.53 FT

MULTIPLY BY 0.75 FOR PARAPET

$0.75h_d$ = 1.15 FT

LESS THAN PARAPET HEIGHT: 5.40 FT

THEREFORE FULL DRIFT POSSIBLE TRUE

MAXIMUM INTENSITY OF DRIFT SURCHARGE LOAD

$$P_d = h_d\gamma$$

h_d =1.15 FT

γ = 14.13 PCF

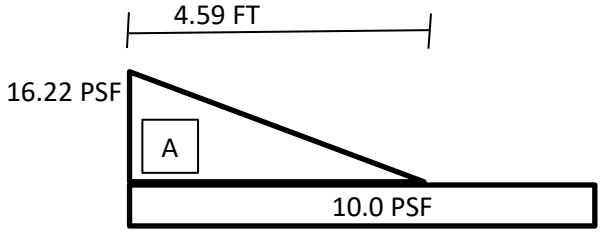
P_d = 16.22 PSF

DRIFT LENGTH

$$w = 4h_d$$

h_d = 1.15 FT

w= 4.59 FT



SNOW DRIFT B

FULL DRIFT

$$h_d = .43\sqrt[3]{l_u}\sqrt[4]{P_g + 10} - 1.5$$ (ASCE 7-10 : FIG. 7-9)

l_u = 20.00 FT — 20 if less than 20 FT use 20 FT

P_g = 10.0 PSF

$\mathbf{h_d}$ = **0.97 FT**

0.75$\mathbf{h_d}$ = **0.73 FT**

MULTIPLY BY 0.75 FOR PARAPET
LESS THAN PARAPET HEIGHT: 5.40 FT
THEREFORE FULL DRIFT POSSIBLE TRUE

MAXIMUM INTENSITY OF DRIFT SURCHARGE LOAD

$$P_d = h_d\gamma$$

h_d =0.73 FT
γ = 14.13 PCF

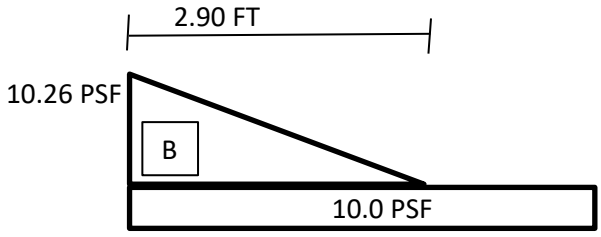
$\mathbf{P_d}$ = **10.26 PSF**

DRIFT LENGTH

$$w = 4h_d$$

h_d = 0.73 FT

w= 2.90 FT



- HEADER (A)

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 8’ – 6”
ROOF LIVE LOAD:	20	PSF	TRIBUTARY WIDTH (WALL) = 9’ – 1”
WALL LOAD:	15	PSF	
			SPAN = 6’ – 6”

USE (3) 2x10 W/ ½’’ PLYWOOD SPACERS*

- HEADER (B)

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 1’ – 0”
ROOF LIVE LOAD:	20	PSF	TRIBUTARY WIDTH (WALL) = 9’ – 1”
WALL LOAD:	15	PSF	
			SPAN = 6’ – 0”

USE (3) 2x8 W/ ½” PLYWOOD SPACERS*

- HEADER (C)

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 1’ – 0”
ROOF LIVE LOAD:	20	PSF	TRIBUTARY WIDTH (WALL) = 9’ – 1”
WALL LOAD:	15	PSF	
			SPAN = 3’ – 4”

USE (3) 2x6 W/ ½” PLYWOOD SPACERS*

*REFER TO ATTACHED ENERCALC OUTPUT FOR DESIGN DETAILS

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: HEADER A

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method : Load Resistance Factor D
Load Combination : ASCE 7-10

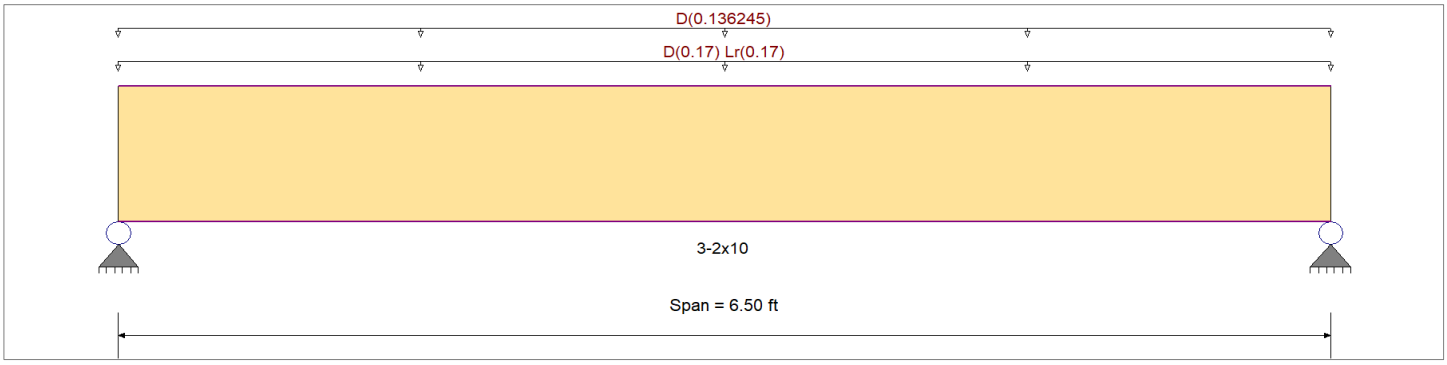
Wood Species : Southern Pine
Wood Grade : No.2: 2"-4" Thick: 10" Wide

Beam Bracing : Beam is Fully Braced against lateral-torsional buckling

Fb +	800.0 psi
Fb -	800.0 psi
Fc - Prll	1,300.0 psi
Fc - Perp	565.0 psi
Fv	175.0 psi
Ft	475.0 psi

E : Modulus of Elasticity

Ebend- xx	1,400.0 ksi
Eminbend - xx	510.0 ksi
Density	34.330 pcf



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 ksf, Tributary Width = 8.50 ft, (ROOF LOAD)
Uniform Load : D = 0.0150 ksf, Tributary Width = 9.083 ft, (WALL LOAD)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.465 : 1	Maximum Shear Stress Ratio	=	0.193 : 1
Section used for this span		3-2x10	Section used for this span		3-2x10
fb: Actual	=	643.31 psi	fv: Actual	=	58.47 psi
Fb: Allowable	=	1,382.40 psi	Fv: Allowable	=	302.40 psi
Load Combination		+1.20D+1.60Lr	Load Combination		+1.20D+1.60Lr
Location of maximum on span	=	3.250 ft	Location of maximum on span	=	5.741 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.017 in	Ratio =	4719	>=360	Span: 1 : Lr Only
Max Upward Transient Deflection	0 in	Ratio =	0	<360	n/a
Max Downward Total Deflection	0.047 in	Ratio =	1650	>=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0	<180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	λ	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	Mu	fb	Fb	Vu	fv	Fv
+1.40D													0.00	0.00	0.00	0.00
Length = 6.50 ft	1	0.422	0.175	0.60	1.000	1.00	1.00	1.00	1.00	1.00	2.34	437.14	1036.80	1.10	39.73	226.80
+1.20D+0.50Lr					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.50 ft	1	0.332	0.138	0.80	1.000	1.00	1.00	1.00	1.00	1.00	2.45	458.64	1382.40	1.16	41.69	302.40
+1.20D					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.50 ft	1	0.271	0.113	0.80	1.000	1.00	1.00	1.00	1.00	1.00	2.00	374.69	1382.40	0.95	34.06	302.40
+1.20D+1.60Lr					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.50 ft	1	0.465	0.193	0.80	1.000	1.00	1.00	1.00	1.00	1.00	3.44	643.31	1382.40	1.62	58.47	302.40
+0.90D					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.50 ft	1	0.163	0.068	1.00	1.000	1.00	1.00	1.00	1.00	1.00	1.50	281.02	1728.00	0.71	25.54	378.00

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: HEADER A

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.0473	3.274		0.0000	0.000

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	1.580	1.580
Overall MINimum	0.553	0.553
D Only	1.028	1.028
+D+Lr	1.580	1.580
+D+0.750Lr	1.442	1.442
+0.60D	0.617	0.617
Lr Only	0.553	0.553

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

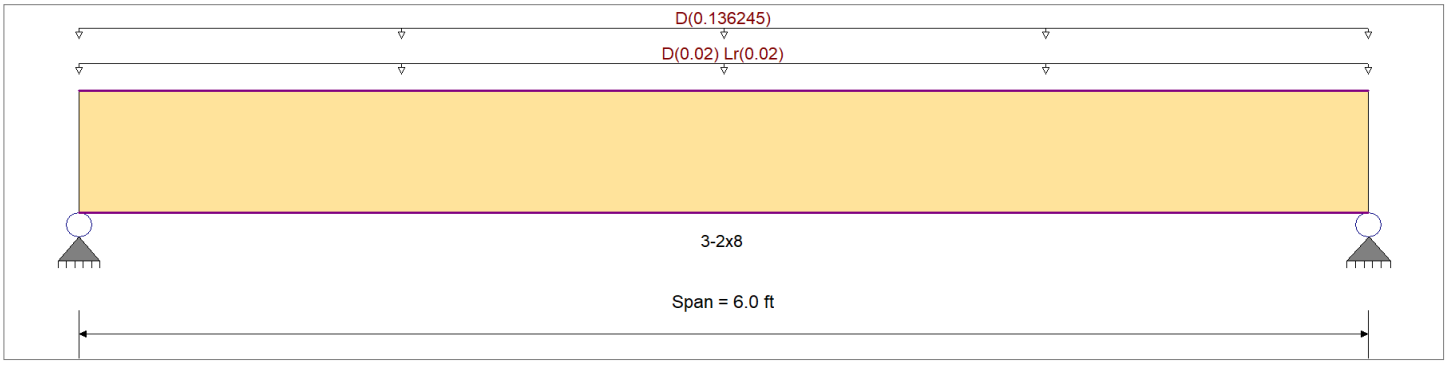
DESCRIPTION: HEADER B

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	925.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	925.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,350.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 8" Wide	Fv	175.0 psi		
		Ft	550.0 psi	Density	34.330 pcf
Beam Bracing :	Beam is Fully Braced against lateral-torsional buckling				



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 , Tributary Width = 1.0 ft, (ROOF LOAD)
Uniform Load : D = 0.0150 ksf, Tributary Width = 9.083 ft, (WALL LOAD)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.270 : 1	Maximum Shear Stress Ratio	=	0.115 : 1
Section used for this span		3-2x8	Section used for this span		3-2x8
fb: Actual	=	224.68 psi	fv: Actual	=	18.17 psi
Fb: Allowable	=	832.50 psi	Fv: Allowable	=	157.50 psi
Load Combination		D Only	Load Combination		D Only
Location of maximum on span	=	3.000 ft	Location of maximum on span	=	0.000 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.003 in	Ratio =	24556 >=360	Span: 1 : Lr Only
Max Upward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Downward Total Deflection	0.027 in	Ratio =	2668 >=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0 <180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
D Only													0.00	0.00	0.00	0.00
Length = 6.0 ft	1	0.270	0.115	0.90	1.000	1.00	1.00	1.00	1.00	1.00	0.74	224.68	832.50	0.40	18.17	157.50
+D+Lr					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.0 ft	1	0.218	0.093	1.25	1.000	1.00	1.00	1.00	1.00	1.00	0.83	252.07	1156.25	0.44	20.38	218.75
+D+0.750Lr					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.0 ft	1	0.212	0.091	1.25	1.000	1.00	1.00	1.00	1.00	1.00	0.81	245.23	1156.25	0.43	19.83	218.75
+0.60D					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 6.0 ft	1	0.091	0.039	1.60	1.000	1.00	1.00	1.00	1.00	1.00	0.44	134.81	1480.00	0.24	10.90	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.0270	3.022		0.0000	0.000

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: HEADER B

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	0.552	0.552
Overall MINimum	0.060	0.060
D Only	0.492	0.492
+D+Lr	0.552	0.552
+D+0.750Lr	0.537	0.537
+0.60D	0.295	0.295
Lr Only	0.060	0.060

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: HEADER C

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method : Allowable Stress Design
Load Combination : ASCE 7-10

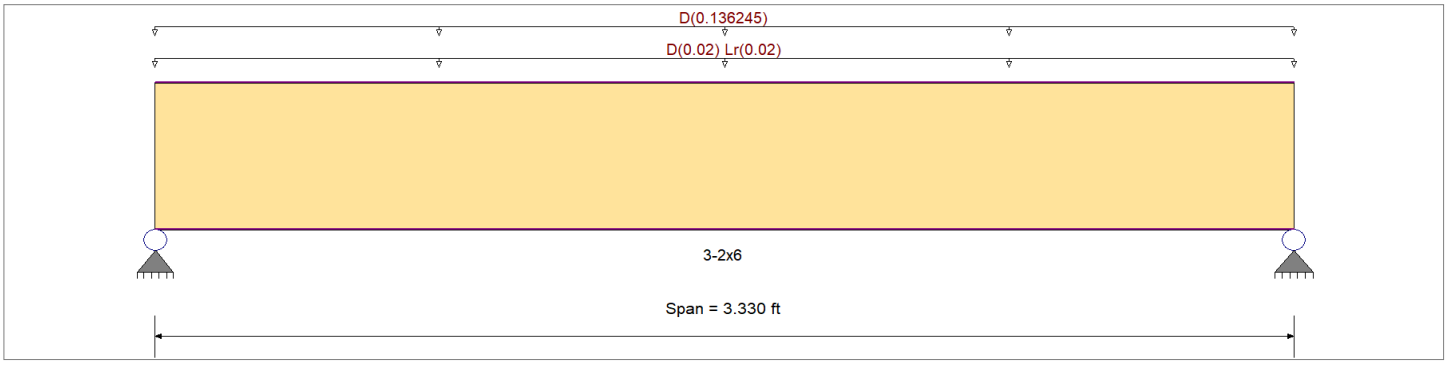
Wood Species : Southern Pine
Wood Grade : No.2: 2"-4" Thick: 5"-6" Wide

Beam Bracing : Beam is Fully Braced against lateral-torsional buckling

Fb +	1,000.0 psi
Fb -	1,000.0 psi
Fc - Prll	1,400.0 psi
Fc - Perp	565.0 psi
Fv	175.0 psi
Ft	600.0 psi

E : Modulus of Elasticity

Ebend- xx	1,400.0 ksi
Eminbend - xx	510.0 ksi
Density	34.330 pcf



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 , Tributary Width = 1.0 ft, (ROOF LOAD)
Uniform Load : D = 0.0150 ksf, Tributary Width = 9.083 ft, (WALL LOAD)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.132 : 1	Maximum Shear Stress Ratio	=	0.076 : 1
Section used for this span		3-2x6	Section used for this span		3-2x6
fb: Actual	=	118.88 psi	fv: Actual	=	11.94 psi
Fb: Allowable	=	900.00 psi	Fv: Allowable	=	157.50 psi
Load Combination		D Only	Load Combination		D Only
Location of maximum on span	=	1.665 ft	Location of maximum on span	=	0.000 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Upward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Downward Total Deflection	0.006 in	Ratio =	6886 >=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0 <180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
D Only													0.00	0.00	0.00	0.00
Length = 3.330 ft	1	0.132	0.076	0.90	1.000	1.00	1.00	1.00	1.00	1.00	0.22	118.88	900.00	0.20	11.94	157.50
+D+Lr					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 3.330 ft	1	0.107	0.061	1.25	1.000	1.00	1.00	1.00	1.00	1.00	0.25	133.54	1250.00	0.22	13.42	218.75
+D+0.750Lr					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 3.330 ft	1	0.104	0.060	1.25	1.000	1.00	1.00	1.00	1.00	1.00	0.25	129.87	1250.00	0.22	13.05	218.75
+0.60D					1.000	1.00	1.00	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 3.330 ft	1	0.045	0.026	1.60	1.000	1.00	1.00	1.00	1.00	1.00	0.13	71.33	1600.00	0.12	7.17	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.0058	1.677		0.0000	0.000

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: HEADER C

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	0.303	0.303
Overall MINimum	0.033	0.033
D Only	0.270	0.270
+D+Lr	0.303	0.303
+D+0.750Lr	0.295	0.295
+0.60D	0.162	0.162
Lr Only	0.033	0.033

- ROOF JOIST: TYPICAL

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 1’ – 4”
ROOF LIVE LOAD:	20	PSF	
			SPAN = 17’ – 0”
			USE: 2X12*

- ROOF JOIST: AHU

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 1’ – 4”
ROOF LIVE LOAD:	20	PSF	
MECH LOAD:	62.5	LBS	@ 7’ – 9”
MECH LOAD:	62.5	LBS	@ 11’ – 9”
			SPAN = 17’ – 0”
			USE: 2X12*

- ROOF JOIST: MECH @ HEADERED JOIST

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 1’ – 4”
ROOF LIVE LOAD:	20	PSF	
MECH LOAD:	83.3	LBS	@ 11’ – 3”
			SPAN = 17’ – 0”
			USE: 2X12*

- ROOF JOIST: WATER HEATER

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 1’ – 4”
ROOF LIVE LOAD:	20	PSF	
WATER HEATER LOAD:	300	LBS	@ 16’ – 0”
			SPAN = 17’ – 0”
			USE: 2X12*

*REFER TO ATTACHED ENERCALC OUTPUT FOR DESIGN DETAILS

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

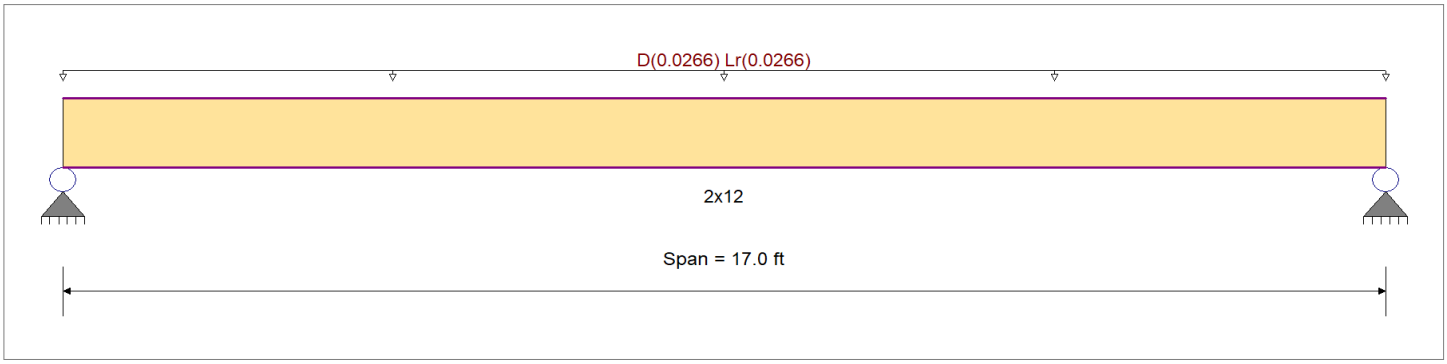
DESCRIPTION: ROOF JOIST: TYPICAL

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	750.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	750.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,250.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 12" Wide	Fv	175.0 psi		
		Ft	450.0 psi	Density	34.330 pcf
Beam Bracing :	Beam is Fully Braced against lateral-torsional buckling			Repetitive Member Stress Increase	



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 ksf, Tributary Width = 1.330 ft, (ROOF LOAD)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.727 : 1	Maximum Shear Stress Ratio	=	0.176 : 1
Section used for this span		2x12	Section used for this span		2x12
fb: Actual	=	784.00 psi	fv: Actual	=	38.50 psi
Fb: Allowable	=	1,078.13 psi	Fv: Allowable	=	218.75 psi
Load Combination		+D+Lr	Load Combination		+D+Lr
Location of maximum on span	=	8.500 ft	Location of maximum on span	=	0.000 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.202 in	Ratio =	1010 >=360	Span: 1 : Lr Only
Max Upward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Downward Total Deflection	0.434 in	Ratio =	469 >=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0 <180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
D Only													0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.540	0.131	0.90	1.000	1.00	1.15	1.00	1.00	1.00	1.11	419.56	776.25	0.23	20.60	157.50
+D+Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.727	0.176	1.25	1.000	1.00	1.15	1.00	1.00	1.00	2.07	784.00	1078.13	0.43	38.50	218.75
+D+0.750Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.643	0.156	1.25	1.000	1.00	1.15	1.00	1.00	1.00	1.83	692.89	1078.13	0.38	34.03	218.75
+0.60D					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.182	0.044	1.60	1.000	1.00	1.15	1.00	1.00	1.00	0.66	251.74	1380.00	0.14	12.36	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.4341	8.562		0.0000	0.000

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: ROOF JOIST: TYPICAL

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	0.486	0.486
Overall MINimum	0.226	0.226
D Only	0.260	0.260
+D+Lr	0.486	0.486
+D+0.750Lr	0.430	0.430
+0.60D	0.156	0.156
Lr Only	0.226	0.226

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: ROOF JOIST: AHU

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method : Allowable Stress Design
Load Combination : ASCE 7-10

Wood Species : Southern Pine
Wood Grade : No.2: 2"-4" Thick: 12" Wide

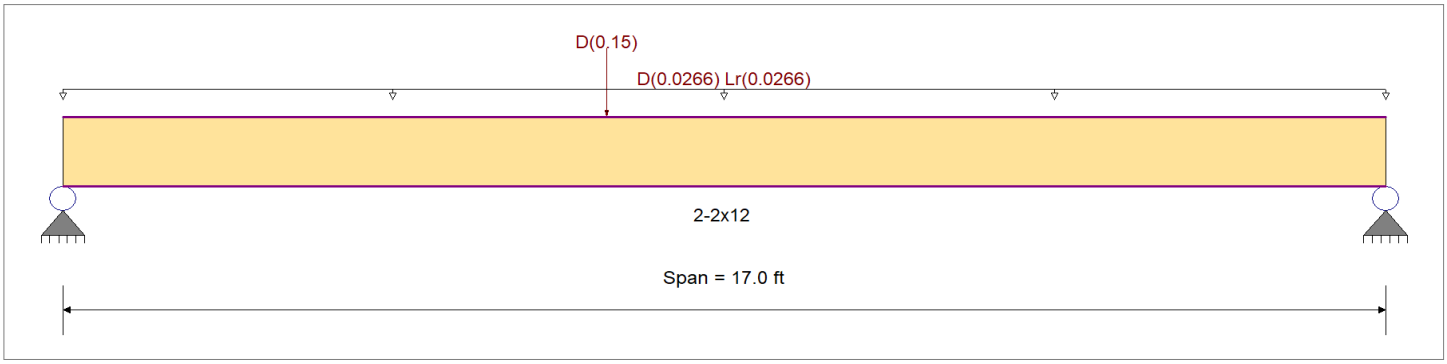
Beam Bracing : Beam is Fully Braced against lateral-torsional buckling

Fb +	750.0 psi
Fb -	750.0 psi
Fc - Prll	1,250.0 psi
Fc - Perp	565.0 psi
Fv	175.0 psi
Ft	450.0 psi

E : Modulus of Elasticity

Ebend- xx	1,400.0 ksi
Eminbend - xx	510.0 ksi
Density	34.330 pcf

Repetitive Member Stress Increase



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 ksf, Tributary Width = 1.330 ft, (ROOF LOAD)
Point Load : D = 0.150 k @ 7.0 ft, (MECH LOAD)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.487 : 1	Maximum Shear Stress Ratio	=	0.112 : 1
Section used for this span		2-2x12	Section used for this span		2-2x12
fb: Actual	=	525.02 psi	fv: Actual	=	24.53 psi
Fb: Allowable	=	1,078.13 psi	Fv: Allowable	=	218.75 psi
Load Combination		+D+Lr	Load Combination		+D+Lr
Location of maximum on span	=	7.507 ft	Location of maximum on span	=	0.000 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.101 in	Ratio =	2021 >=360	Span: 1 : Lr Only
Max Upward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Downward Total Deflection	0.284 in	Ratio =	719 >=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0 <180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
D Only													0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.447	0.099	0.90	1.000	1.00	1.15	1.00	1.00	1.00	1.83	347.05	776.25	0.35	15.58	157.50
+D+Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.487	0.112	1.25	1.000	1.00	1.15	1.00	1.00	1.00	2.77	525.02	1078.13	0.55	24.53	218.75
+D+0.750Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.445	0.102	1.25	1.000	1.00	1.15	1.00	1.00	1.00	2.53	480.18	1078.13	0.50	22.29	218.75
+0.60D					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.151	0.033	1.60	1.000	1.00	1.15	1.00	1.00	1.00	1.10	208.23	1380.00	0.21	9.35	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.2835	8.438		0.0000	0.000

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: ROOF JOIST: AHU

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	0.609	0.582
Overall MINimum	0.226	0.226
D Only	0.383	0.356
+D+Lr	0.609	0.582
+D+0.750Lr	0.552	0.526
+0.60D	0.230	0.214
Lr Only	0.226	0.226

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: ROOF JOIST: CU

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method : Allowable Stress Design
Load Combination : ASCE 7-10

Wood Species : Southern Pine
Wood Grade : No.2: 2"-4" Thick: 12" Wide

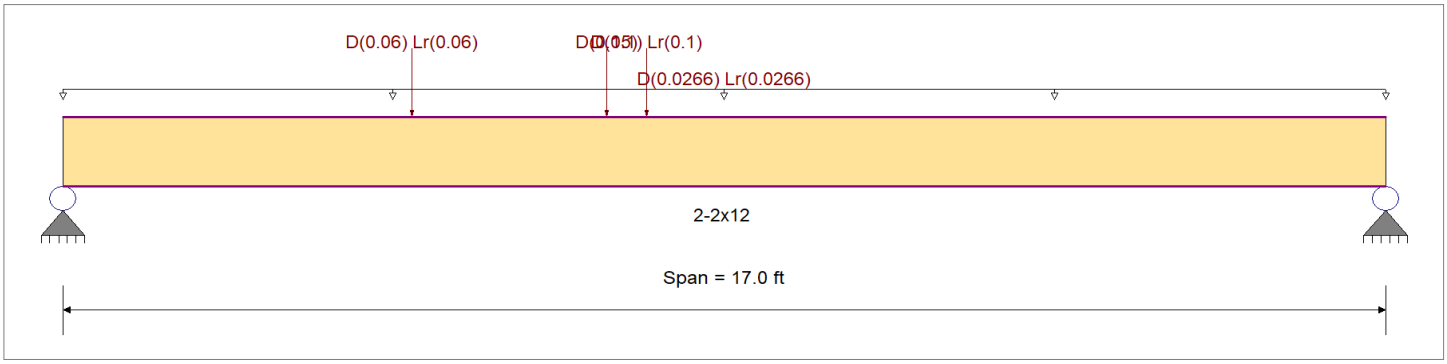
Beam Bracing : Beam is Fully Braced against lateral-torsional buckling

Fb +	750.0 psi
Fb -	750.0 psi
Fc - Prll	1,250.0 psi
Fc - Perp	565.0 psi
Fv	175.0 psi
Ft	450.0 psi

E : Modulus of Elasticity

Ebend- xx	1,400.0 ksi
Eminbend - xx	510.0 ksi
Density	34.330 pcf

Repetitive Member Stress Increase



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 ksf, Tributary Width = 1.330 ft, (ROOF LOAD)
Point Load : D = 0.150 k @ 7.0 ft, (MECH LOAD)
Point Load : D = 0.060, Lr = 0.060 k @ 4.50 ft, (HEADER LOAD 1)
Point Load : D = 0.10, Lr = 0.10 k @ 7.50 ft, (HEADER LOAD 2)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.687 : 1	Maximum Shear Stress Ratio	=	0.153 : 1
Section used for this span		2-2x12	Section used for this span		2-2x12
fb: Actual	=	741.03 psi	fv: Actual	=	33.41 psi
Fb: Allowable	=	1,078.13 psi	Fv: Allowable	=	218.75 psi
Load Combination		+D+Lr	Load Combination		+D+Lr
Location of maximum on span	=	7.507 ft	Location of maximum on span	=	0.000 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.151 in	Ratio =	1347 >=360	Span: 1 : Lr Only
Max Upward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Downward Total Deflection	0.385 in	Ratio =	530 >=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0 <180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination	Max Stress Ratios										Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
D Only													0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.584	0.127	0.90	1.000	1.00	1.15	1.00	1.00	1.00	2.39	453.29	776.25	0.45	20.02	157.50
+D+Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.687	0.153	1.25	1.000	1.00	1.15	1.00	1.00	1.00	3.91	741.03	1078.13	0.75	33.41	218.75
+D+0.750Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.621	0.137	1.25	1.000	1.00	1.15	1.00	1.00	1.00	3.53	669.09	1078.13	0.68	30.07	218.75
+0.60D					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.197	0.043	1.60	1.000	1.00	1.15	1.00	1.00	1.00	1.43	271.97	1380.00	0.27	12.01	280.00

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: ROOF JOIST: CU

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.3846	8.314		0.0000	0.000

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	0.809	0.702
Overall MINimum	0.326	0.286
D Only	0.483	0.416
+D+Lr	0.809	0.702
+D+0.750Lr	0.727	0.631
+0.60D	0.290	0.250
Lr Only	0.326	0.286

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

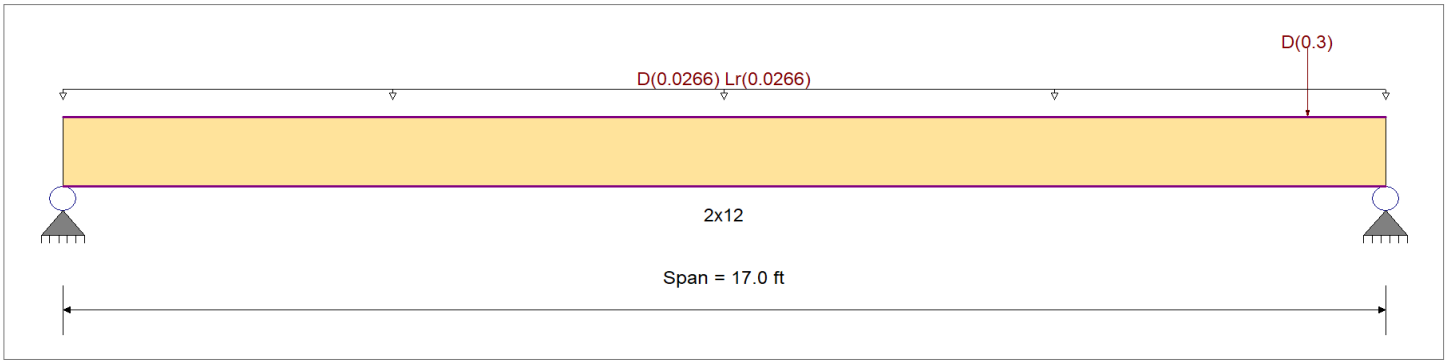
DESCRIPTION: ROOF JOIST: WATER HEATER

CODE REFERENCES

Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	750.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	750.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,250.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 12" Wide	Fv	175.0 psi		
		Ft	450.0 psi	Density	34.330 pcf
Beam Bracing :	Beam is Fully Braced against lateral-torsional buckling			Repetitive Member Stress Increase	



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loading
Uniform Load : D = 0.020, Lr = 0.020 ksf, Tributary Width = 1.330 ft, (ROOF LOAD)
Point Load : D = 0.30 k @ 16.0 ft, (WATER HEATER LOAD)

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.781 : 1	Maximum Shear Stress Ratio	=	0.291 : 1
Section used for this span		2x12	Section used for this span		2x12
fb: Actual	=	841.92 psi	fv: Actual	=	63.60 psi
Fb: Allowable	=	1,078.13 psi	Fv: Allowable	=	218.75 psi
Load Combination		+D+Lr	Load Combination		+D+Lr
Location of maximum on span	=	8.810 ft	Location of maximum on span	=	16.069 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.202 in	Ratio =	1010 >=360	Span: 1 : Lr Only
Max Upward Transient Deflection	0 in	Ratio =	0 <360	n/a
Max Downward Total Deflection	0.472 in	Ratio =	432 >=180	Span: 1 : +D+Lr
Max Upward Total Deflection	0 in	Ratio =	0 <180	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
D Only													0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.616	0.290	0.90	1.000	1.00	1.15	1.00	1.00	1.00	1.26	478.37	776.25	0.51	45.70	157.50
+D+Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.781	0.291	1.25	1.000	1.00	1.15	1.00	1.00	1.00	2.22	841.92	1078.13	0.72	63.60	218.75
+D+0.750Lr					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.697	0.270	1.25	1.000	1.00	1.15	1.00	1.00	1.00	1.98	750.94	1078.13	0.67	59.13	218.75
+0.60D					1.000	1.00	1.15	1.00	1.00	1.00			0.00	0.00	0.00	0.00
Length = 17.0 ft	1	0.208	0.098	1.60	1.000	1.00	1.15	1.00	1.00	1.00	0.76	287.02	1380.00	0.31	27.42	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+Lr	1	0.4718	8.624		0.0000	0.000

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: ROOF JOIST: WATER HEATER

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Overall MAXimum	0.504	0.769
Overall MINimum	0.226	0.226
D Only	0.278	0.543
+D+Lr	0.504	0.769
+D+0.750Lr	0.448	0.712
+0.60D	0.167	0.326
Lr Only	0.226	0.226

- GRADE BEAM (WORST CASE)

ROOF DEAD LOAD:	20	PSF	TRIBUTARY WIDTH (ROOF) = 8’ – 6”
ROOF LIVE LOAD:	20	PSF	TRIBUTARY WIDTH (WALL) = 18’ – 0”
WALL LOAD:	20	PSF	
GRADE BEAM WIDTH:	1’ – 6”		

TOTAL LOAD = (20 + 20) PSF (8.5’) + (20) PSF (18.0’) = 700 PLF

ALLOWABLE = 1’ – 4” (2,500) = 3,333 PLF > 680 PLF **OK**

USE 1’-4” x 2’-0” GRADE BEAM W/ (2) #5 TOP, BOT. & INT. W/ #3 STIRRUPS AT 18” O.C.

*REFER TO ATTACHED ENERCALC OUTPUT FOR THESE REACTIONS

- WOOD STUDS: LOAD CASE A

HEIGHT: 19' – 0" TRIBUTARY WIDTH (SPACING) = 16" O.C.
LATERAL WIND LOAD:

PARAPET:	43.8 PSF (LOAD CASE A C&C PARAPET: ULT)	13.6 FT TO 19 FT
MAIN BLDG:	22.7 PSF (WALL ZONE 5 C&C: ULT.)	0 FT TO 13.6 FT

USE 2X6 STUDS @ 16" O.C.*

- WOOD STUDS: LOAD CASE B

HEIGHT: 19' – 0" TRIBUTARY WIDTH (SPACING) = 16" O.C.
LATERAL WIND LOAD:

PARAPET:	47.8 PSF (LOAD CASE B C&C PARAPET: ULT)	13.5 FT TO 19 FT
MAIN BLDG:	29.7 PSF (WALL ZONE 5 C&C: ULT.)	0 FT TO 13.5 FT

USE 2X6 STUDS @ 16" O.C.*

- WOOD STUDS: LOAD CASE A

HEIGHT: 18' – 3" TRIBUTARY WIDTH (SPACING) = 16" O.C.
LATERAL WIND LOAD:

PARAPET:	43.8 PSF (LOAD CASE A C&C PARAPET: ULT)	12.9 FT TO 18.3 FT
MAIN BLDG:	22.7 PSF (WALL ZONE 5 C&C: ULT.)	0 FT TO 12.9 FT

USE 2X6 STUDS @ 16" O.C.*

- WOOD STUDS: LOAD CASE B

HEIGHT: 18' – 3" TRIBUTARY WIDTH (SPACING) = 16" O.C.
LATERAL WIND LOAD:

PARAPET:	47.8 PSF (LOAD CASE B C&C PARAPET: ULT)	12.9 FT TO 18.3 FT
MAIN BLDG:	29.7 PSF (WALL ZONE 5 C&C: ULT.)	0 FT TO 12.9 FT

USE 2X6 STUDS @ 16" O.C.*

*REFER TO ATTACHED ENERCALC OUTPUT FOR THESE REACTIONS

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case A: Wood Stud: 19'-0"

CODE REFERENCES

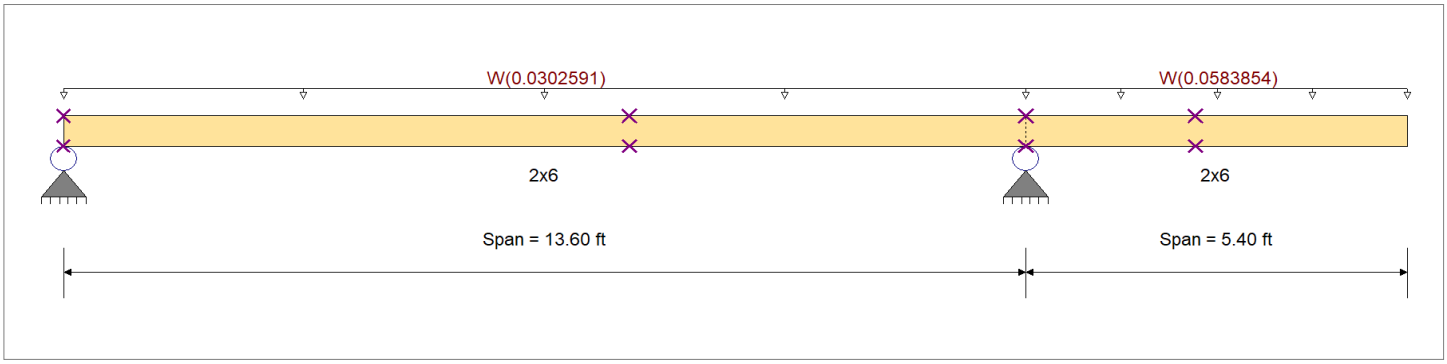
Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	1,000.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	1,000.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,400.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 5"-6" Wide	Fv	175.0 psi		
		Ft	600.0 psi	Density	34.330 pcf
Beam Bracing :	Beam bracing is defined as a set spacing over all spans			Repetitive Member Stress Increase	

Unbraced Lengths

First Brace starts at 8.0 ft from Left-Most support
Regular spacing of lateral supports on length of beam = 8.0 ft



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added
Load for Span Number 1
Uniform Load : W = 0.02270 ksf, Tributary Width = 1.333 ft
Load for Span Number 2
Uniform Load : W = 0.04380 ksf, Tributary Width = 1.333 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.521 : 1	Maximum Shear Stress Ratio	=	0.123 : 1
Section used for this span		2x6	Section used for this span		2x6
fb: Actual	=	810.45 psi	fv: Actual	=	34.39 psi
Fb: Allowable	=	1,555.12 psi	Fv: Allowable	=	280.00 psi
Load Combination		+0.60W	Load Combination		+0.60W
Location of maximum on span	=	13.600 ft	Location of maximum on span	=	13.600 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.587 in	Ratio =	220 >=120	Span: 2 : W Only
Max Upward Transient Deflection	-0.015 in	Ratio =	10650 >=120	Span: 1 : W Only
Max Downward Total Deflection	0.352 in	Ratio =	366 >=120	Span: 2 : +0.60W
Max Upward Total Deflection	-0.009 in	Ratio =	17751 >=120	Span: 1 : +0.60W

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Max Stress Ratios M	Max Stress Ratios V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	Moment Values M	Moment Values fb	Moment Values F'b	Shear Values V	Shear Values fv	Shear Values F'v
													0.00	0.00	0.00	0.00
Length = 7.978 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.91			942.32	0.00	0.00	157.50
Length = 5.622 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.95			986.07	0.00	0.00	157.50
Length = 2.383 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.98			1018.93	0.00	0.00	157.50
Length = 3.017 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.98			1013.11	0.00	0.00	157.50
+0.60W					1.000	1.00	1.15	1.00	1.00	0.98			0.00	0.00	0.00	0.00
Length = 7.978 ft	1	0.253	0.056	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.20	322.46	1276.67	0.09	15.62	280.00

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case A: Wood Stud: 19'-0"

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
Length = 5.622 ft	**1**	0.521	0.123	1.60	1.000	1.00	1.15	1.00	1.00	0.85	0.51	810.45	1555.12	0.19	34.39	280.00
Length = 2.383 ft	**2**	0.456	0.123	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.51	810.45	1776.22	0.19	34.39	280.00
Length = 3.017 ft	**2**	0.145	0.123	1.60	1.000	1.00	1.15	1.00	1.00	0.95	0.16	252.94	1745.48	0.11	34.39	280.00
+0.450W					1.000	1.00	1.15	1.00	1.00	0.95			0.00	0.00	0.00	0.00
Length = 7.978 ft	**1**	0.189	0.042	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.15	241.84	1276.67	0.06	11.71	280.00
Length = 5.622 ft	**1**	0.391	0.092	1.60	1.000	1.00	1.15	1.00	1.00	0.85	0.38	607.84	1555.12	0.14	25.80	280.00
Length = 2.383 ft	**2**	0.342	0.092	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.38	607.84	1776.22	0.14	25.80	280.00
Length = 3.017 ft	**2**	0.109	0.092	1.60	1.000	1.00	1.15	1.00	1.00	0.95	0.12	189.71	1745.48	0.08	25.80	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
W Only	1	0.2417	5.318	W Only	-0.0153	12.688
W Only	2	0.5873	5.400		0.0000	12.688

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2	Support 3
Overall MAXimum	0.143	0.584	
Overall MINimum	0.143	0.584	
+0.60W	0.086	0.350	
+0.450W	0.064	0.263	
W Only	0.143	0.584	

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case B: Wood Stud: 19'-0"

CODE REFERENCES

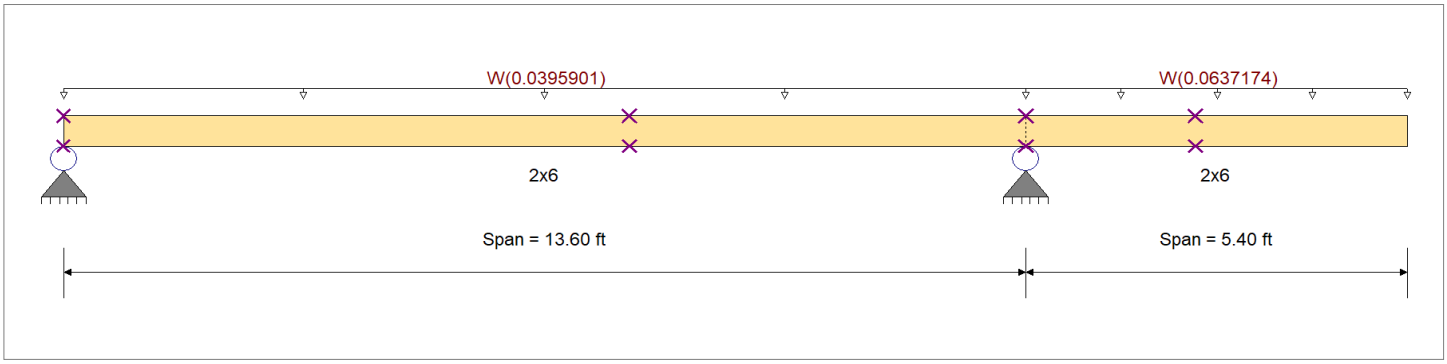
Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	1,000.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	1,000.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,400.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 5"-6" Wide	Fv	175.0 psi		
		Ft	600.0 psi	Density	34.330 pcf
Beam Bracing :	Beam bracing is defined as a set spacing over all spans			Repetitive Member Stress Increase	

Unbraced Lengths

First Brace starts at 8.0 ft from Left-Most support
Regular spacing of lateral supports on length of beam = 8.0 ft



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added
Load for Span Number 1
Uniform Load : W = 0.02970 ksf, Tributary Width = 1.333 ft
Load for Span Number 2
Uniform Load : W = 0.04780 ksf, Tributary Width = 1.333 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.569 : 1	Maximum Shear Stress Ratio	=	0.124 : 1	
Section used for this span		2x6	Section used for this span		2x6	
fb: Actual	=	884.47 psi	fv: Actual	=	34.85 psi	
Fb: Allowable	=	1,555.12 psi	Fv: Allowable	=	280.00 psi	
Load Combination		+0.60W	Load Combination		+0.60W	
Location of maximum on span	=	13.600 ft	Location of maximum on span	=	13.144 ft	
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1	

Maximum Deflection

Max Downward Transient Deflection	0.420 in	Ratio =	308 >=120	Span: 2 : W Only
Max Upward Transient Deflection	0 in	Ratio =	0 <120	n/a
Max Downward Total Deflection	0.252 in	Ratio =	512 >=120	Span: 2 : +0.60W
Max Upward Total Deflection	0 in	Ratio =	0 <120	n/a

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
													0.00	0.00	0.00	0.00
Length = 7.978 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.91			942.32	0.00	0.00	157.50
Length = 5.622 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.95			986.07	0.00	0.00	157.50
Length = 2.383 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.98			1018.93	0.00	0.00	157.50
Length = 3.017 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.98			1013.11	0.00	0.00	157.50
+0.60W					1.000	1.00	1.15	1.00	1.00	0.98			0.00	0.00	0.00	0.00
Length = 7.978 ft	1	0.380	0.071	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.31	485.31	1276.67	0.11	19.95	280.00

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case B: Wood Stud: 19'-0"

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
Length = 5.622 ft	**1**	0.569	0.124	1.60	1.000	1.00	1.15	1.00	1.00	0.85	0.56	884.47	1555.12	0.19	34.85	280.00
Length = 2.383 ft	**2**	0.498	0.124	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.56	884.47	1776.22	0.19	34.85	280.00
Length = 3.017 ft	**2**	0.158	0.124	1.60	1.000	1.00	1.15	1.00	1.00	0.95	0.17	276.04	1745.48	0.12	34.85	280.00
+0.450W					1.000	1.00	1.15	1.00	1.00	0.95			0.00	0.00	0.00	0.00
Length = 7.978 ft	**1**	0.285	0.053	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.23	363.99	1276.67	0.08	14.96	280.00
Length = 5.622 ft	**1**	0.427	0.093	1.60	1.000	1.00	1.15	1.00	1.00	0.85	0.42	663.35	1555.12	0.14	26.14	280.00
Length = 2.383 ft	**2**	0.373	0.093	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.42	663.35	1776.22	0.14	26.14	280.00
Length = 3.017 ft	**2**	0.119	0.093	1.60	1.000	1.00	1.15	1.00	1.00	0.95	0.13	207.03	1745.48	0.09	26.14	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
W Only	1	0.4313	5.774		0.0000	0.000
W Only	2	0.4203	5.400		0.0000	0.000

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2	Support 3
Overall MAXimum	0.201	0.682	
Overall MINimum	0.201	0.682	
+0.60W	0.121	0.409	
+0.450W	0.090	0.307	
W Only	0.201	0.682	

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case A: Wood Stud: 18'-3"

CODE REFERENCES

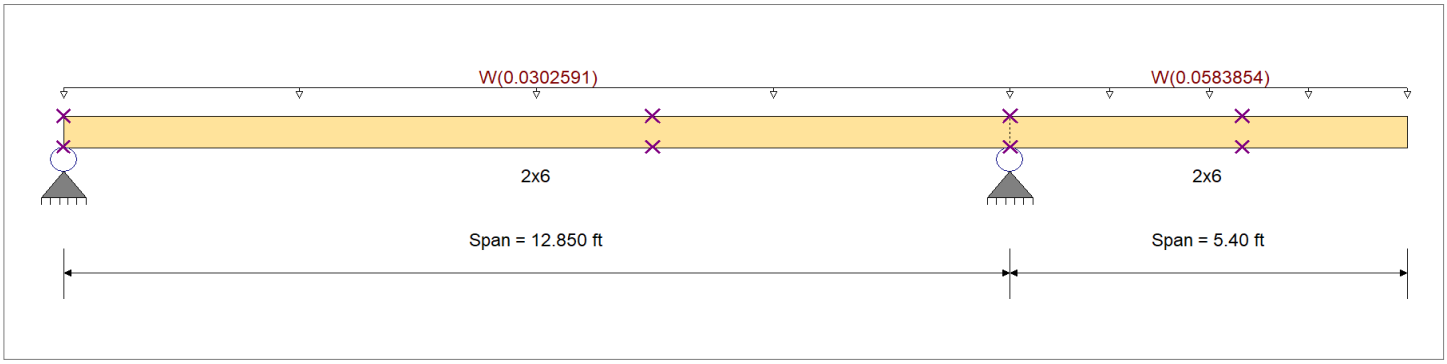
Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	1,000.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	1,000.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,400.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 5"-6" Wide	Fv	175.0 psi		
		Ft	600.0 psi	Density	34.330 pcf
Beam Bracing :	Beam bracing is defined as a set spacing over all spans			Repetitive Member Stress Increase	

Unbraced Lengths

First Brace starts at 8.0 ft from Left-Most support
Regular spacing of lateral supports on length of beam = 8.0 ft



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added
Load for Span Number 1
Uniform Load : W = 0.02270 ksf, Tributary Width = 1.333 ft
Load for Span Number 2
Uniform Load : W = 0.04380 ksf, Tributary Width = 1.333 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.499 : 1	Maximum Shear Stress Ratio	=	0.113 : 1
Section used for this span		2x6	Section used for this span		2x6
fb: Actual	=	810.45 psi	fv: Actual	=	31.51 psi
Fb: Allowable	=	1,624.27 psi	Fv: Allowable	=	280.00 psi
Load Combination		+0.60W	Load Combination		+0.60W
Location of maximum on span	=	12.850 ft	Location of maximum on span	=	12.850 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.678 in	Ratio =	190 >=120	Span: 2 : W Only
Max Upward Transient Deflection	-0.036 in	Ratio =	4270 >=120	Span: 1 : W Only
Max Downward Total Deflection	0.407 in	Ratio =	318 >=120	Span: 2 : +0.60W
Max Upward Total Deflection	-0.022 in	Ratio =	7116 >=120	Span: 1 : +0.60W

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
													0.00	0.00	0.00	0.00
Length = 7.968 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.91			942.54	0.00	0.00	157.50
Length = 4.882 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.96			995.09	0.00	0.00	157.50
Length = 3.137 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.98			1011.90	0.00	0.00	157.50
Length = 2.263 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.99			1019.95	0.00	0.00	157.50
+0.60W					1.000	1.00	1.15	1.00	1.00	0.99			0.00	0.00	0.00	0.00
Length = 7.968 ft	1	0.202	0.045	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.16	258.43	1277.78	0.07	12.56	280.00

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case A: Wood Stud: 18'-3"

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Max Stress Ratios M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	Moment Values M	fb	F'b	Shear Values V	fv	F'v
Length = 4.882 ft	1	0.499	0.113	1.60	1.000	1.00	1.15	1.00	1.00	0.88	0.51	810.45	1624.27	0.17	31.51	280.00
Length = 3.137 ft	2	0.466	0.113	1.60	1.000	1.00	1.15	1.00	1.00	0.94	0.51	810.45	1738.54	0.17	31.51	280.00
Length = 2.263 ft	2	0.080	0.113	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.09	142.28	1781.15	0.08	31.51	280.00
+0.450W					1.000	1.00	1.15	1.00	1.00	0.97			0.00	0.00	0.00	0.00
Length = 7.968 ft	1	0.152	0.034	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.12	193.82	1277.78	0.05	9.42	280.00
Length = 4.882 ft	1	0.374	0.084	1.60	1.000	1.00	1.15	1.00	1.00	0.88	0.38	607.84	1624.27	0.13	23.63	280.00
Length = 3.137 ft	2	0.350	0.084	1.60	1.000	1.00	1.15	1.00	1.00	0.94	0.38	607.84	1738.54	0.13	23.63	280.00
Length = 2.263 ft	2	0.060	0.084	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.07	106.71	1781.15	0.06	23.63	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
W Only	1	0.1446	4.594	W Only	-0.0361	11.414
W Only	2	0.6781	5.400		0.0000	11.414

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2	Support 3
Overall MAXimum	0.128	0.576	
Overall MINimum	0.128	0.576	
+0.60W	0.077	0.346	
+0.450W	0.058	0.259	
W Only	0.128	0.576	

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case B: Wood Stud: 18'-3"

CODE REFERENCES

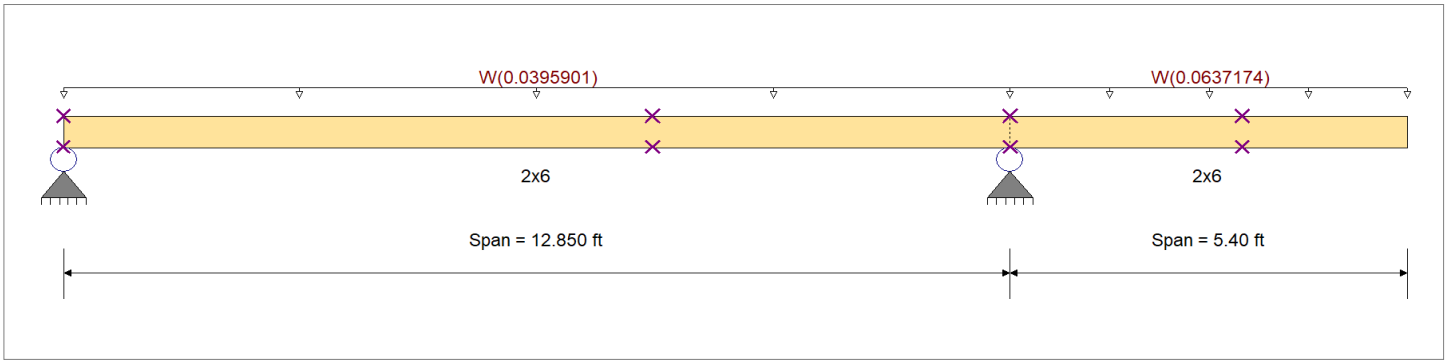
Calculations per NDS 2015, IBC 2015, CBC 2016, ASCE 7-10
Load Combination Set : ASCE 7-10

Material Properties

Analysis Method :	Allowable Stress Design	Fb +	1,000.0 psi	*E : Modulus of Elasticity*	
Load Combination :	ASCE 7-10	Fb -	1,000.0 psi	Ebend- xx	1,400.0 ksi
		Fc - Prll	1,400.0 psi	Eminbend - xx	510.0 ksi
Wood Species :	Southern Pine	Fc - Perp	565.0 psi		
Wood Grade :	No.2: 2"-4" Thick: 5"-6" Wide	Fv	175.0 psi		
		Ft	600.0 psi	Density	34.330 pcf
Beam Bracing :	Beam bracing is defined as a set spacing over all spans			Repetitive Member Stress Increase	

Unbraced Lengths

First Brace starts at 8.0 ft from Left-Most support
Regular spacing of lateral supports on length of beam = 8.0 ft



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added
Load for Span Number 1
Uniform Load : W = 0.02970 ksf, Tributary Width = 1.333 ft
Load for Span Number 2
Uniform Load : W = 0.04780 ksf, Tributary Width = 1.333 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.545 : 1	Maximum Shear Stress Ratio	=	0.123 : 1
Section used for this span		2x6	Section used for this span		2x6
fb: Actual	=	884.47 psi	fv: Actual	=	34.39 psi
Fb: Allowable	=	1,624.27 psi	Fv: Allowable	=	280.00 psi
Load Combination		+0.60W	Load Combination		+0.60W
Location of maximum on span	=	12.850 ft	Location of maximum on span	=	12.850 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1

Maximum Deflection

Max Downward Transient Deflection	0.554 in	Ratio =	232 >=120	Span: 2 : W Only
Max Upward Transient Deflection	-0.005 in	Ratio =	34050 >=120	Span: 1 : W Only
Max Downward Total Deflection	0.332 in	Ratio =	388 >=120	Span: 2 : +0.60W
Max Upward Total Deflection	-0.003 in	Ratio =	56750 >=120	Span: 1 : +0.60W

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios									Moment Values			Shear Values		
Segment Length	Span #	M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	M	fb	F'b	V	fv	F'v
													0.00	0.00	0.00	0.00
Length = 7.968 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.91			942.54	0.00	0.00	157.50
Length = 4.882 ft	1			0.90	1.000	1.00	1.15	1.00	1.00	0.96			995.09	0.00	0.00	157.50
Length = 3.137 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.98			1011.90	0.00	0.00	157.50
Length = 2.263 ft	2			0.90	1.000	1.00	1.15	1.00	1.00	0.99			1019.95	0.00	0.00	157.50
+0.60W					1.000	1.00	1.15	1.00	1.00	0.99			0.00	0.00	0.00	0.00
Length = 7.968 ft	1	0.312	0.064	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.25	398.59	1277.78	0.10	18.00	280.00

Wood Beam

Project File: 22434 scooters framing.ec6

LIC# : KW-06017501, Build:20.22.8.17 RONALD A. ROBERTS ASSOCIATES (c) ENERCALC INC 1983-2022

DESCRIPTION: Load Case B: Wood Stud: 18'-3"

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Max Stress Ratios M	V	C_d	$C_{F/V}$	C_i	C_r	C_m	C_t	C_L	Moment Values M	fb	F'b	Shear Values V	fv	F'v
Length = 4.882 ft	1	0.545	0.123	1.60	1.000	1.00	1.15	1.00	1.00	0.88	0.56	884.47	1624.27	0.19	34.39	280.00
Length = 3.137 ft	2	0.509	0.123	1.60	1.000	1.00	1.15	1.00	1.00	0.94	0.56	884.47	1738.54	0.19	34.39	280.00
Length = 2.263 ft	2	0.087	0.123	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.10	155.27	1781.15	0.09	34.39	280.00
+0.450W					1.000	1.00	1.15	1.00	1.00	0.97			0.00	0.00	0.00	0.00
Length = 7.968 ft	1	0.234	0.048	1.60	1.000	1.00	1.15	1.00	1.00	0.69	0.19	298.95	1277.78	0.07	13.50	280.00
Length = 4.882 ft	1	0.408	0.092	1.60	1.000	1.00	1.15	1.00	1.00	0.88	0.42	663.35	1624.27	0.14	25.79	280.00
Length = 3.137 ft	2	0.382	0.092	1.60	1.000	1.00	1.15	1.00	1.00	0.94	0.42	663.35	1738.54	0.14	25.79	280.00
Length = 2.263 ft	2	0.065	0.092	1.60	1.000	1.00	1.15	1.00	1.00	0.97	0.07	116.46	1781.15	0.06	25.79	280.00

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
W Only	1	0.2878	5.169	W Only	-0.0045	12.347
W Only	2	0.5540	5.400		0.0000	12.347

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2	Support 3
Overall MAXimum	0.182	0.671	
Overall MINimum	0.182	0.671	
+0.60W	0.109	0.402	
+0.450W	0.082	0.302	
W Only	0.182	0.671	

USE SDS25412 SCREWS

- MINIMUM EDGE DISTANCE: C_Δ = 0.5 FOR 2D AND C_Δ = 1.0 FOR 4D (TABLE 12.5.1A, NDS)

  D = SCREW DIAMETER = 0.25”
  0.25” x 2 = 0.5”
  0.2” x 4 = 1.0”

  IF INSTALLED IN THE MIDDLE OF THE 2X EDGE DISTANCE = 0.75 INCHES OR 3D. INTEREPLATING BETWEEN 2D AND 4D, C_Δ = 0.75 INCHES

- SPACING REQUIREMENTS: 4D FOR C_Δ = 1.0 (TABLE 12.5.1B, NDS) = 4 (0.25”) = 1”

- LOADED EDGE 4D = 1.0 INCH (CHECK PER TABLE 12.5.1C)

- MINIMUM PENETRATION: 8D = 8 x 0.25’’ = 2 INCHES
  SDS25412 = 4 ½’’ – 1 ½’’ = 3’’ > 2 INCHES **OK**

- SHEAR CAPACITY OF SINGLE SDS25412 SCREW

  $Z' = Z(C_D)(C_m)(C_E)(C_g)(C_\Delta)$

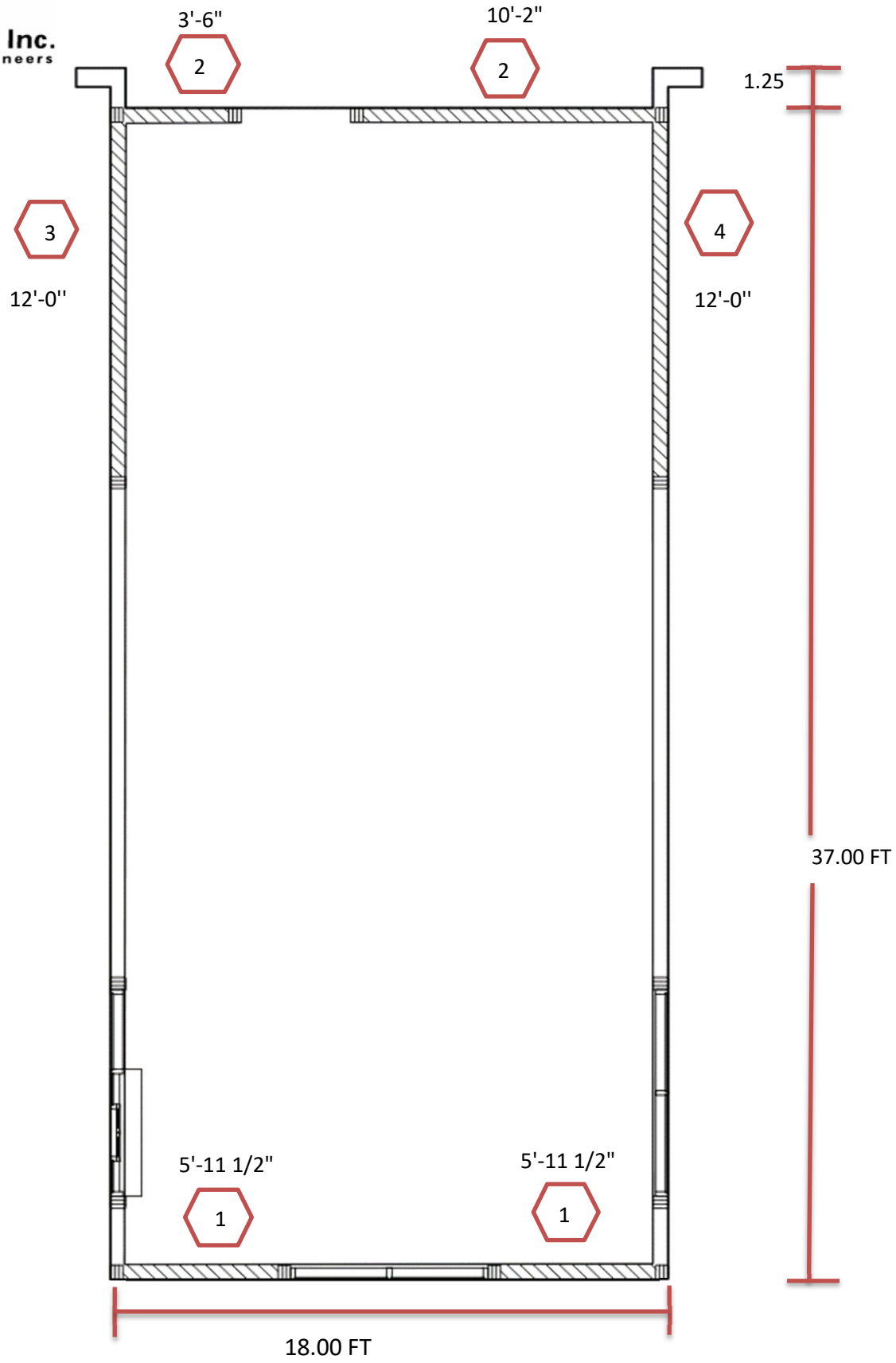
  Z = 350 LBS (PER ESR-2236)
  C_D = 1.0
  C_m = 1.0
  C_E = 1.0
  C_g = 1.0
  C_Δ = 0.75

  Z’ = 350 LBS (1.0)(1.0)(1.0)(1.0)(0.75) = 262 LBS

- REQUIRED LOAD = 769 LBS (REFER TO WORST CASE JOIST CALCULATION)

- REQUIRED NUMBER OF SCREWS

  (769 LBS)/(262 LBS/SCREW) = 2.94 => USE 3 SCREWS MINIMUM
  (5 SCREWS USED IN TYPICAL DESIGN)
  USE: (5) SDS25412 SCREWS/STUD


3'-6"
2
10'-2"
2
1.25
3
12'-0''
4
12'-0''
37.00 FT
5'-11 1/2"
1
5'-11 1/2"
1
18.00 FT

EDGE DISTANCE:

a = 10% LEAST HORIZONTAL DIMENSION OR .4 DECK HEIGHT BUT NOT LESS THAN 3 FT

		a
LEAST HORIZONTAL DIMENSION:	18.00'	1.8 FT
DECK HEIGHT:	13.00'	5.2 FT

USE: 5.2 FT

AVERAGE TOP OF PARAPET : 18.50 FT

Ronald Roberts Associates, Inc.
Consulting Engineers

BUILDING WEIGHT
SCOOTERS

JOB NO.22434

	Weights of Materials Per ASCE 7-10 Table C3-1							
EXTERIOR WALLS:			LINEAR FEET		HEIGHT			
2X6 STUD	2.20 PSF		112.50 FT	X	18.5 FT	=	2081.3 SF	
INSULATION	0.70 PSF							
5/8" GYP	2.50 PSF							
1/2 PLYWOOD SHEATHING	1.60 PSF						2081.3 SF	
ADHERED STONE	10.00 PSF							
2" EIFS	1.50 PSF							
TOTAL:	18.50 PSF	X	2081.3 SF	=	38503 LBS			
INTERIOR WALLS:					ESTIMATED WALL	=	50.0 FT	
2X6 STUD WALLS	2.20 PSF				HEIGHT	=	12.0 FT	
5/8" GYP BOARD X 2 SIDES	5.50 PSF						600.0 SF	
TOTAL:	7.70 PSF	X	600.0 FT	=	4,620 LBS			
ROOF:			WIDTH		LENGTH			
SINGLE PLY MEMBRANE	0.70 PSF		18.0 FT	X	37.0 FT	=	666.0 SF	
3/4" PLYWOOD ROOF DECK	2.40 PSF							
MECHANICAL/LIGHTING	4.00 PSF							
MECHANICAL/LIGHTING	4.00 PSF							
RIGID INSULATION	4.15 PSF							
SPRINKLER	2.00 PSF							
GYPSUM CEILING	2.75 PSF							
TOTAL:	20.0 PSF	X	666.0 SF	=	13,320 LBS			
MECHANICAL UNITS:								
TOTAL OF ALL UNITS:	1,000 LBS							

TOTAL WEIGHT: **57443 LBS**

SIMPLIFIED DESIGN PROCEDURE CHECKLIST (12.14.1.1)

1) THE STRUCUTRE SHALL QUALIFY FOR RISK CATEGORY I OR II IN ACCORDANCE WITH ☑
2) THE SITE CLASS, DEFINED IN CHAPTER 20, SHALL NOT BE CLASS E OR F. ☑
3) THE STRUCTURE SHALL NOT EXCEED THREE STORIES ABOVE GRADE PLANE. ☑
4) THE SEISMIC FORCE- RESISTING SYSTEM SHALL BE EITHER A BEARING WALL SYSTEM OR BUILDING FRAME SYSTEM, AS INDICATED IN TABLE 12.14-1. ☑
5) THE STRUCTURE SHALL HAVE AT LEAST TWO LINES OF LATERAL RESISTANCE IN EACH OF THE TWO MAJOR AXIS DIRECTIONS. ☑
6) AT LEAST ONE LINE OF RESISTANCE SHALL BE PROVIDED ON EACH SIDE OF THE CENTER OF MASS IN EACH DIRECTION. ☑
7) FOR STRUCUTRES WITH FLEXIBLE DIAPHRAGMS, OVERHANGS BEYONG THE OUSDIE LINE OF SHEAR WALLS OR BRACED SHALL SATISFY THE FOLLOWING: ☑

$$a \leq d/5$$

a = the distance perpendicular to the forces being considered from the extreme edge of the diaphragm to the line of vertical resistance closest to that edge
d = the depth of the diaprgam parallel to the forces being considered at the line of the vertical resistance closest to the edge.

8) FOR BUILDINGS WITH A DIAPHRAGM THAT IS NOT FLEXIBLE, THE DISTANCE BETWEENT HE CENTER OF RIGIDITY AND THE CENTER OF MASS PARALLEL TO EACH MAJOR AXIS SHALL NOT EXCEED 15 PERCENT OF THE GREATEST WIDTH OF THE DIAPHRAGM n/a
9) LINES OF RESISTANCE OF THE SEISMIC FORCE-RESISTING SYSTEM SHALL BE ORIENTED AT ANGLE OF NO MORE THAN 15 DEGREES FROM ALIGMENT WITH THE MAJOR ORTHOGONAL HORIZONTAL AXES OF THE BUILDING. ☑
10) THE SIMPLIFIED DESIGN PROCEDURE SHALL BE USED FOR EACH MAJOR ORTHOGONAL HORIZONTAL AAXIS DIRECTION OF THE BUILDING. ☑
11) SYSTEM IRREGULARITIES CASUED BY IN-PLANE OR OUT-OF-PLANE OFFSETS OF LATERAL FORCE- RESISTING ELEMENTS SHALL NOT BE PERMITTED. ☑
EXCEPTION: OUT-OF-PLANE AND IN-PLANE OFFSETS OF SHEAR WALLS ARE PERMITTED IN TWO-STORY BUILDINGS OF LIGHT-FRAME CONSTRUCTION PROVIDED THAT THE FRAMING SUPPORTING THE UPPER WALL IS DESINGED FOR SEISMIC FORCE EFFECTS FROM OVERTURNING OF THE WALL AMPLIFIED BY A FACTOR OF 2.5.

12) THE LATERAL LOAD RESISTANCE OF ANY STORY SHALL NOT BE LESS THAN 80 PERCENT OF THE STORY ABOVE. ☑

DETERMINE SEISMIC BASE SHEAR:

$$V = \frac{FS_{ds}W}{R}$$ Equation 12.14-11

F = 1.00 Per ASCE 7-10, 12.14.8.1

S_{ds} = *0.28*

R = 6.50

W = 57,443 LBS FROM CALCULATION ABOVE

R=6.5 (Light framed wood walls sheathed in plywood)

TOTAL BASE SHEAR = 2,466 LBS

DETERMINE SHEAR TO WALLS

SHEARWALL 1

PERCENT TO WALL: 50.00% X 2,466 LBS = 1233 LBS

SHEARWALL 2

PERCENT TO WALL: 50.00% X 2,466 LBS = 1233 LBS

SHEARWALL 3

PERCENT TO WALL: 50.00% X 2,466 LBS = 1233 LBS

SHEARWALL 4

PERCENT TO WALL: 50.00% x 2,466 LBS = 1233 LBS

AVERAGE TOP OF SHEAR WALL :	13 FT
TOP OF PARAPET (WORST CASE)	19 FT

MAIN BUILDING WIND PRESSURE :	21.0 PSF	END ZONE (A)
	13.9 PSF	INTERIOR ZONE (C)
PARAPET WIND PRESSURE :	30.2 PSF	(WINDWARD)
	20.1 PSF	(LEEWARD)
	50.3 PSF	TOTAL PARAPET

W = 21.0 PSF (13FT/2) + 50.3 PSF (19FT - 13FT) = 438.3 PLF (ZONE A)

W = 13.9 PSF (13FT/2) + 50.3 PSF (19FT - 13FT) = 392.2 PLF (ZONE C)

DETERMINE SHEAR TO SIDES

SHEARWALL 1

SHEAR (V) = 392.2 PLF (37FT /2- 5.2FT) + 438.3 PLF (5.2 FT) = 7,495 LBS

SHEARWALL 2

SHEAR (V) = 392.2 PLF (37FT /2- 5.2FT) + 438.3 PLF (5.2 FT+1.25FT) = 8,043 LBS

SHEARWALL 3

SHEAR (V) = 392.2 PLF (18FT /2- 5.2FT) + 438.3 PLF (5.2 FT) = 3,769 LBS

SHEARWALL 4

SHEAR (V) = 392.2 PLF (18FT /2- 5.2FT) + 438.3 PLF (5.2 FT) = 3,769 LBS

ULTIMATE VALUES SHOWN

AVERAGE TOP OF SHEAR WALL :	13	FT
TOP OF PARAPET (WORST CASE) :	19	FT

MINIMUM

MAIN BUILDING WIND PRESSURE :	16.0	PSF	END ZONE (A)
	16.0	PSF	INTERIOR ZONE (C)
PARAPET WIND PRESSURE :	30.2	PSF	(WINDWARD)
	20.1	PSF	(LEEWARD)
	50.3	PSF	TOTAL PARAPET

W = 16 PSF (13FT/2) + 50.3 PSF (19FT - 13FT) = 405.8 PLF

DETERMINE SHEAR TO SIDES

SHEARWALL 1

SHEAR (V) = 405.8 PLF (37 FT /2) = 7,507 LBS

SHEARWALL 2

SHEAR (V) = 405.8 PLF (37 FT /2 + 1.25FT) = 8,015 LBS

SHEARWALL 3

SHEAR (V) = 405.8 PLF (18 FT /2) = 3,652 LBS

SHEARWALL 4

SHEAR (V) = 405.8 PLF (18 FT /2) = 3,652 LBS

	SHEAR LOADS			
SHEAR WALL	SEISMIC	WIND PRESSURE	MINIMUM WIND PRESSURE	USE
WALL 1	1233 LBS	7,495 LBS	7,507 LBS	7,507 LBS
WALL 2	1233 LBS	8,043 LBS	8,015 LBS	8,043 LBS
WALL 3	1233 LBS	3,769 LBS	3,652 LBS	3,769 LBS
WALL 4	1233 LBS	3,769 LBS	3,652 LBS	3,769 LBS

ULTIMATE VALUES SHOWN

WALL 1

		(ULTIMATE)		(ASD)
SHEAR (V)	=	7,507 LBS X	.6 =	4504 LBS
NAILING LENGTH (LN)	=	11.9 FT		
ANCHOR LENGTH (LA)	=	9.9 FT		
HEIGHT (H)	=	13.5 FT		

NAILING REQUIREMENTS

$$V/LN = \frac{4504\ PLF}{11.9\ FT} = 378\ LBS$$

USE 10d NAILS @ 6" O.C. (CAPACITY = 435 PLF)

NDS15 : Table 4.3A USING 15/32 PANEL SHEATING

HOLDOWN REQUIREMENTS

$$(VH)/LA = \frac{60809\ LBS\text{- }FT}{9.9\ FT} = 6130\ LBS$$

USE HDU8-SDS2.5 (CAPACITY = 7,870 LBS)

2019 - 2020 SIMPSON CATALOG

ANCHOR REQUIREMENTS (AR)

$$AR = V/LA = \frac{7507\ LBS}{9.9\ FT} = 757\ PLF$$

PER NDS 2015 TABLE 12E: 5/8" BOLT WITH 1.5" THICK DOUGLAS FIR-LARCH SIDE MEMBER ALLOWABLE SHEAR WITH WIND LOAD

5/8" DIA. ANCHOR ALLOW. LOAD: 1488 LBS/ANCHOR

$$\frac{(A.B.ALLOW * 12INCHES/FT)}{AR} = \frac{1488\ LBS * 12\ IN/FT}{757\ LBS/ANCHOR} = 24\ IN$$

USE 5/8" DIAMETER ANCHORS AT 24" O.C.

ALLOWABLE VALUES SHOWN

WALL 2

		(ULTIMATE)		(ASD)
SHEAR (V)	=	8,043 LBS X	.6 =	4,826 LBS
NAILING LENGTH (LN)	=	13.7 FT		
ANCHOR LENGTH (LA)	=	11.7 FT		
HEIGHT (H)	=	13.0 FT		

NAILING REQUIREMENTS

$$V/LN = \frac{4826\ PLF}{13.7\ FT} = 353\ LBS$$

USE 10d NAILS @ 6" O.C. (CAPACITY = 435 PLF)

NDS15 : Table 4.3A USING 15/32 PANEL SHEATING

HOLDOWN REQUIREMENTS

$$(VH)/LA = \frac{62733\ LBS\text{- }FT}{11.7\ FT} = 5377\ LBS$$

USE HDU5-SDS2.5 (CAPACITY = 5,645 LBS)

2019 - 2020 SIMPSON CATALOG

ANCHOR REQUIREMENTS (AR)

$$AR = V/LA = \frac{8043\ LBS}{11.7\ FT} = 689\ PLF$$

PER NDS 2015 TABLE 12E: 5/8" BOLT WITH 1.5" THICK DOUGLAS FIR-LARCH SIDE MEMBER ALLOWABLE SHEAR WITH WIND LOAD

5/8" DIA. ANCHOR ALLOW. LOAD: 1488 LBS/ANCHOR

$$\frac{(A.B.ALLOW * 12INCHES/FT)}{AR} = \frac{1488\ LBS * 12\ IN/FT}{689\ LBS/ANCHOR} = 26\ IN$$

USE 5/8" DIAMETER ANCHORS AT 24" O.C.

ALLOWABLE VALUES SHOWN

WALL 3

		(ULTIMATE)		(ASD)
SHEAR (V)	=	3,769 LBS X	.6 =	2,262 LBS
NAILING LENGTH (LN)	=	12.0 FT		
ANCHOR LENGTH (LA)	=	11.0 FT		
HEIGHT (H)	=	12.5 FT		

NAILING REQUIREMENTS

$$V/LN = \frac{2262\ PLF}{12.0\ FT} = 188\ LBS$$

USE 10d NAILS @ 6" O.C. (CAPACITY = 435 PLF)

NDS15 : Table 4.3A USING 15/32 PANEL SHEATING

HOLDOWN REQUIREMENTS

$$(VH)/LA = \frac{28270\ LBS\text{- }FT}{11.0\ FT} = 2570\ LBS$$

USE HDU2-SDS2.5 (CAPACITY = 3,075 LBS)

2019 - 2020 SIMPSON CATALOG

ANCHOR REQUIREMENTS (AR)

$$AR = V/LA = \frac{3769\ LBS}{11.0\ FT} = 343\ PLF$$

PER NDS 2015 TABLE 12E: 5/8" BOLT WITH 1.5" THICK DOUGLAS FIR-LARCH SIDE MEMBER ALLOWABLE SHEAR WITH WIND LOAD

5/8" DIA. ANCHOR ALLOW. LOAD: 1488 LBS/ANCHOR

$$\frac{(A.B.ALLOW * 12INCHES/FT)}{AR} = \frac{1488\ LBS * 12\ IN/FT}{343\ LBS/ANCHOR} = 52\ IN$$

USE 5/8" DIAMETER ANCHORS AT 32" O.C.

ALLOWABLE VALUES SHOWN

WALL 4

		(ULTIMATE)		(ASD)
SHEAR (V)	=	3,769 LBS X	.6 =	2,262 LBS
NAILING LENGTH (LN)	=	12.0 FT		
ANCHOR LENGTH (LA)	=	11.0 FT		
HEIGHT (H)	=	12.5 FT		

NAILING REQUIREMENTS

$$V/LN = \frac{2262\ PLF}{12.0\ FT} = 188\ LBS$$

USE 10d NAILS @ 6" O.C. (CAPACITY = 435 PLF)

NDS15 : Table 4.3A USING 15/32 PANEL SHEATING

HOLDOWN REQUIREMENTS

$$(VH)/LA = \frac{28270\ LBS\text{-}FT}{11.0\ FT} = 2570\ LBS$$

USE HDU2-SDS2.5 (CAPACITY = 3,075 LBS)

2019 - 2020 SIMPSON CATALOG

ANCHOR REQUIREMENTS (AR)

$$AR = V/LA = \frac{3769\ LBS}{11.0\ FT} = 343\ PLF$$

PER NDS 2015 TABLE 12E: 5/8" BOLT WITH 1.5" THICK DOUGLAS FIR-LARCH SIDE MEMBER ALLOWABLE SHEAR WITH WIND LOAD

5/8" DIA. ANCHOR ALLOW. LOAD: 1488 LBS/ANCHOR

$$\frac{(A.B.ALLOW * 12INCHES/FT)}{AR} = \frac{1488\ LBS * 12\ IN/FT}{343\ LBS/ANCHOR} = 52\ IN$$

USE 5/8" DIAMETER ANCHORS AT 32" O.C.

ALLOWABLE VALUES SHOWN

DIAPHARGM

WALL 1 &2: 4,826 LBS/ 18 FT = 268.09 PLF
(WORST CASE)

CASE 1: ALLOWABLE : 400 PLF

WALL 3 & 4 2,262 LBS/ 37 FT = 61.12 PLF

CASE 3 ALLOWABLE : 300 PLF

USE 10d NAILS @ 6 O.C. AT DIAPHRAGM BOUNDARIES (UN-BLOCKED) U.N.O

CHORD

Chord Along Wall 1 and 2

$$\frac{(3{,}769 \text{ LBS} + 3{,}769 \text{ LBS}) \times 18 \text{ FT}}{8 \times 37 \text{ FT}} = 458 \text{ LBS} \quad (.6) = 275.1 \text{ LBS}$$

USE 2X8 (MIN) LEDGER

FT = 575 TALLOW = 575*10.875 = 6,253 LBS > 458 LBS

Chord Along Wall 3 and 4

$$\frac{(8{,}043 \text{ LBS} + 7{,}495 \text{ LBS}) \times 37 \text{ FT}}{8 \times 18 \text{ FT}} = 3{,}992 \text{ LBS} \quad (.6) = 2395 \text{ LBS}$$

USE 2X12 (MIN) LEDGER

FT = 575 TALLOW = 575*16.875 = 9,703 LBS > 2,395 LBS

USE SIMPSON MSTI48 STRAP @ SPLICE

CAPACITY : 5,070 LBS

ULTIMATE VALUES SHOWN

RESPONSIBILITY SCHEDULE

Item	By	Misc Information	Vendor Company	Vendor Contact Info
Air balance	NIC	GC to coordinate based on CO needs		
Artwork / Décor	FBO	GC to coordinate delivery and provide installation	By Owner	
Awnings	NIC	GC to coordinate installation. GC to provide blocking for attachment.		
Doors & Door Hardware	GC	GC to provide per drawings and specifications	LockNet	
Drive-thru System	NIC	GC to coordinate installation, conduit by electrical contractor	Commercial Electronics	Chris lanke, P: 314-656-4026, E: cianke@cerepairs.com
Drive-thru Window	GC	GC to provide per drawings and specifications	Quick-Serv	
Espresso Machines	FBO	GC to coordinate installation, conduit and step-down transformer by electrical contractor	Franke	Michael Vennera, P: 615-462-1334, E: michael.vennera@franke.com
Exterior Insulation Finishing System / Stucco (when shown), WP Membrane	GC	GC to provide system per drawings and Owner specs, no alternates	Sto Corp	
Flooring, Concrete	GC	GC to provide and install per drawings and specifications	Laticrete	
Flooring, Tile (when shown)	GC	GC to provide and install per drawings and specifications	Dal-Tile	
Grease Interceptor	GC	GC to provide and install per drawings and specifications	Schier Products	Sean Molen, P: 816-506-3203, E: scooters@schierproducts.com
Hardie Siding and Panel System	GC	GC to provide and install per drawings and specifications	James Hardie	
HVAC Commissioning	GC			
HVAC Equipment	GC	GC to coordinate and verify shipment		
Ice Machine	NIC	GC to coordinate delivery and provide installation. GC to provide clear access to building for delivery & supply forklift for unloading.		
Kitchen Equipment	FBO	GC to coordinate delivery and provide installation. GC to provide clear access to building for delivery & supply forklift for unloading.		
Landscape & Irrigation	GC	GC to provide and install per drawings and specifications		
Lay-in Ceilings	GC	GC to provide and install per drawings and specifications	Armstrong	
Light Fixtures	GC	GC to provide and install per drawings and specifications	FSG	Victoria Sexton, P: 800-994-1309, E: victoria.sexton@fsgi.com
Masonry, Brick (when shown)	GC	GC to provide and install per drawings and specifications	Mutual Materials	
Masonry, Stone (when shown)	GC	GC to provide and install per drawings and specifications	Eldorado Stone	
Menu Boards Exterior	NIC	GC to coordinate installation, conduit by electrical contractor		
Menu Boards Interior	NIC	GC to coordinate installation, conduit by electrical contractor	The Howard Company	Katie Christopherson, P: 262-317-7709, E: gary@howardcompany.com, katie@howardcompany.com
Millwork Package	FBO	GC to coordinate delivery and provide installation	Midwest Cabinetry	Brandon Lee (Estimator), Scott Teter, P: 785-242-8181, E: steter@midwestcabinet.com
Music System	NIC	GC to coordinate installation, conduit by electrical contractor	Carousel Industries	Pierre Guzman, P: 385-230-6260, E: pguzman@carouselindustries.com , scooterscoffee@carouselindustries.com
Networking Equipment	NIC	GC to coordinate installation, conduit by electrical contractor	Carousel Industries	Pierre Guzman, P: 385-230-6260, E: pguzman@carouselindustries.com , scooterscoffee@carouselindustries.com
Nitro System	FBO	GC to coordinate and verify shipment. GC to provide wall chase and final connections.	MicroMatic	Leah Haab, P: 352-593-2007, E: lkh@micro-matic.com
Patio Accessories (trash, bike rack, etc.)	GC	GC to provide and install per drawings and specifications		
Patio Furniture	FBO	GC to coordinate delivery and provide installation	Florida Seating	
Patio Railing (when shown)	GC	GC to provide and install per drawings and specifications		
Patio Umbrellas	FBO	GC to coordinate delivery and provide installation	Florida Seating	
Phone Lines, System and Internet	NIC	GC to assist as needed		
POS System	NIC	GC to coordinate installation, conduit by electrical contractor	Brink/Partech	James Umphrey, P: 562-735-1618, E: james_umphrey@partech.com
RO / Water Softener	FBO	GC to coordinate delivery and provide installation	Clean Water Guys	Ellee Pierce, P: 402-330-6440, E: ellee@cleanwaterguys.com
Safe for Office	FBO	GC to coordinate delivery and provide installation		
Furniture, chairs	FBO	GC to coordinate delivery and provide installation	Florida Seating	
Furniture, lounge seating	FBO	GC to coordinate delivery and provide installation	Joy Bird	
Furniture, side tables	FBO	GC to coordinate delivery and provide installation	Poly & Bark	
Security System	NIC	GC to coordinate installation, conduit by electrical contractor	Carousel Industries	Pierre Guzman, P: 385-230-6260, E: pguzman@carouselindustries.com , scooterscoffee@carouselindustries.com
Signage (exterior)	NIC	GC to coordinate installation, power by electrical contractor.		
Site Lighting (when shown)	GC	GC to provide and install per drawings and specifications	FSG	Victoria Sexton, P: 800-994-1309, E: victoria.sexton@fsgi.com
Smallwares	NIC	GC to coordinate and verify shipment		
Solid Surface	GC	GC to provide and install per drawings and specifications	Silestone	
Special Inspections	NIC	All special inspections by owner		
Stainless Fabrication	FBO	GC to coordinate delivery and provide installation. GC to provide clear access to building for delivery & supply forklift for unloading.		
Trash Containers / Services	NIC	GC to coordinate and verify shipment		
Toilet Accessories	GC	GC to provide and install per drawings and specifications		
Utilities (including temp)	GC	GC to coordinate set-up for all utilities		
Water Heater	GC	GC to provide and install per drawings and specifications		
Window Treatments	GC	GC to provide and install per drawings and specifications	Roll-A-Shade	
Wood Siding, Composite	GC	GC to provide and install per drawings and specifications	Fiberon	

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EST. 1998 SCOOTER'S COFFEE

SCOOTER'S COFFEE

1816 N Reynolds Rd.
Bryant, AR 72022
4.1 Straight Prototype Kiosk - May 2022

CODE ANALYSIS

APPLICABLE CODES:

BUILDING CODE:	2012 INTERNATIONAL BUILDING CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
ELECTRIC CODE:	2017 NATIONAL ELECTRIC CODE
MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE
FIRE CODE:	2012 ARKANSAS FIRE CODE
ENERGY CODE:	2009 INTERNATIONAL ENERGY CONSERVATION CODE
ACCESSIBILITY CODE:	2012 ARKANSAS ACCESSIBILITY STANDARDS
FUEL & GAS:	2018 INTERNATIONAL PLUMBING CODE

KIOSK AREA INFORMATION

BUILDING SQUARE FOOTAGE	AREA	PERCENT
NET RESTROOM AREA	60 SQ.FT	9%
NET BACK OF HOUSE / BARISTA AREA	549 SQ.FT	83%
TOTAL NET AREA	609 SQ.FT	92%
GROSS BUILDING AREA	664 SQ.FT	100%
ADDITIONAL SQUARE FOOTAGE	**AREA**	**PERCENT**
DUMPSTER ENCLOSURE	130 SQ.FT	100%

CODE SUMMARY

CODE ITEMS	PROPOSED
ZONING CLASSIFICATION	C-2 Highway Commercial
USE GROUP	B
TYPE OF CONSTRUCTION	V-B
MIXED USE	NO
NUMBER OF STORIES	SINGLE
MAXIMUM BUILDING HEIGHT	19'-0"
CLIMATE ZONE	3A

OCCUPANT LOAD FACTOR - SEE G0.2 FOR OCCUPANCY CALCULATIONS

TOTAL BUILDING OCCUPANT LOAD	DESIGN LOAD: 4, MAXIMUM LOAD: 8

INTERIOR OCCUPANT LOAD ACCESSIBLE EXIT REQUIREMENTS

INTERIOR OCCUPANT LOAD ONLY (EXCLUSIVE OF PATIO EGRESS REQUIREMENTS)

OCCUPANT LOAD	WIDTH/PER PERSON	WIDTH REQUIRED	WIDTH PROVIDED
4	.2 in.	8 in.	36 in. (CLEAR WIDTH)

DEFERRED/SEPARATE SUBMITTALS

1. BUILDING SIGNAGE (DEFERRED)
2. HEALTH (SEPARATE)
3. OTHER?

REQUIRED SPECIAL INSPECTIONS & TESTING

STRUCTURAL SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS ARE REQUIRED FOR SPECIFIC BUILDING ELEMENTS. REFER TO STRUCTURAL DRAWINGS FOR THE LIST OF WORK REQUIRING SPECIAL INSPECTIONS. AN APPROVED SPECIAL INSPECTION SERVICE IS REQUIRED. THE NAME OF THE SPECIAL INSPECTION AGENCY AND CONTACT INFO SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT ONCE CONTRACTED. REPORTS SHALL BE SUBMITTED TO VERIFY CONFORMANCE WITH THE DRAWINGS.

PLUMBING FIXTURE COUNT REQUIREMENT

TOTAL OCCUPANT LOAD	4	REQUIRED			PROVIDED		
		LAVATORY	WATER CLOSET	URINAL	LAVATORY	WATER CLOSET	URINAL
UNISEX		1	1	0	1	1	0

THERMAL ENVELOPE REQUIREMENTS

BUILDING ELEMENTS	REQUIRED	PROVIDED
INSULATION ENTIRELY ABOVE DECK	R-30ci	R-30
WOOD FRAMED & OTHER	R-13 + R-3.8ci OR R-20	+R-20
UNHEATED SLABS	R-10 FOR 24" BELOW	+R-10

INTERIOR & EXTERIOR FINISHES

INTERIOR WALL & CEILING FINISH CLASSIFICATIONS:

CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED INDEX 0-450
CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPED INDEX 0-450
CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED INDEX 0-450

SMOKE DEVELOPED INDEXES OF INTERIOR MATERIALS: 0-450

USE GROUP	VERTICAL EXITS & EXIT PASSAGEWAYS	EXIT ACCESS CORRIDORS	ROOMS AND ENCLOSED SPACES	
B	B N/A TO PROJECT	B N/A TO PROJECT	C ALL AREAS	

CITY CONTACTS

BUILDING DEPARTMENT
Community Development
210 SW 3rd. St.,
Bryant, AR 72022
Contact: Joe Thomas,
Phone: 501-943-0368
Email: jthomas@cityofbryant.com

FIRE DEPARTMENT
210 SW 3rd. St.,
Bryant, AR 72022
Contact: Thomas Hammond, Fire Marshal
Phone: (501) 943-0397

PLANNING / ZONING
Community Development
210 SW 3rd. St.,
Bryant, AR 72022
Contact: Colton Leonard
Phone: (501) 943-0301
Email: cleonard@cityofbryant.com

HEALTH DEPARTMENT
Arkansas Department of Health
Protective Health Codes – Plumbing & Natural Gas
4815 West Markham/Slot #24
Little Rock, Arkansas 72205-3867
Contact: Chuck Dumas
Phone: 501-661-2163 or (501)661-2650
Email: john.dumas@arkansas.gov

PROJECT CONTACTS

ARCHITECT
GHA ARCHITECTURE / DEVELOPMENT
14901 Quorum Drive, Suite 300
Dallas, TX 75254
Phone: (972) 239-8884
Contact: Seun Olatunbosun
Email: solatunbosun@gha-architects.com

OWNER
Shawn LaMontia
Mean Bean Coffee, LLC
8818 S 193rd St.
Gretna, NE 68028
Phone: (402) 598-8314
Email: shawn@lamontiallc.com

SCOOTER'S PRE-DEVELOPMENT:
Lisa White, Pre-Development Manager
Email: lisa.white@scooterscoffee.com
10500 Sapp Brothers Dr.
Omaha, NE 68138

STRUCTURAL ENGINEER
Ronald A. Roberts, Associates, Inc.
2948 N. Stemmons Freeway
Dallas, TX 75247
Phone: (214) 637-6299
Contact: Craig Bailey
Email: cbailey@rara.net

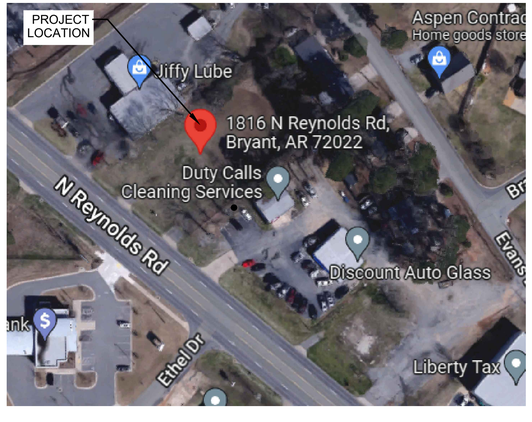
CIVIL
Sherrill Associates, INC.
316 North Main Street
Edwardsville, IL 62025
Phone: (618) 656-9251
Contact: Wilson D. Waggoner, P.E.
Email: wdw@sherrillassoc.com

Select from drop down

MEP ENGINEER
GHC ENGINEERS
14901 Quorum Drive, Suite 300
Dallas, TX 75254
Phone: (214) 915-8737
Contact: Grant Claussen
Email: iparsons@ghcengineers.com

KITCHEN DESIGNER
Trimark
4900 Osage St. Ste.400
Denver, CO80221
Phone: (402)339-8900

VICINITY MAP



1 VICINITY MAP
SCALE: N.T.S.

NORTH

SHEET INDEX

SHEET #	SHEET TITLE	08/26/2022 PERMIT/BID
GENERAL		
G0.1	COVER SHEET	●
G0.2	LIFE SAFETY / OCCUPANCY PLAN	●
G0.3	ACCESSIBILITY NOTES & DETAILS	●
G0.4	BUILDING COMCHECK	●
G1.1	ARCHITECTURAL SPECIFICATIONS	●
G1.2	ARCHITECTURAL SPECIFICATIONS	●
CIVIL		
C-0.0	COVER SHEET	●
C-2.0	PROPOSED SITE PLAN	●
C-3.0	LANDSCAPE PLAN	●
C-5.0	ALTA SURVEY	●
ARCHITECTURAL		
A1.0	DIMENSION FLOOR PLAN	●
A1.1	FINISH FLOOR PLAN	●
A1.2	EQUIPMENT AND FURNISHINGS PLAN	●
A1.3	REFLECTED CEILING & LIGHTING LOCATION PLAN	●
A1.4	ROOF PLAN	●
A1.5	TRASH ENCLOSURE PLAN, ELEVATIONS & DETAILS	●
A2.1	EXTERIOR ELEVATIONS	●
A2.2	EXTERIOR ELEVATIONS	●
A3.1	BUILDING SECTIONS	●
A3.2	EXTERIOR WALL SECTIONS	●
A3.3	EXTERIOR WALL SECTIONS	●
A3.4	EXTERIOR WALL SECTIONS	●
A3.5	EXTERIOR DOOR & WINDOW DETAILS	●
A3.6	EXTERIOR DETAILS	●
A4.1	INTERIOR ELEVATIONS	●
A4.2	ENLARGED RESTROOM PLAN AND ELEVATIONS	●
A5.2	INTERIOR DETAILS	●
A6.1	DOOR AND WINDOW SCHEDULE	●
A7.1	SITE DETAILS	●
A7.2	MONUMENT SIGN	●
KITCHEN		
K1.0	EQUIPMENT PLAN & SCHEDULE	●
K2.0	EQUIPMENT PLUMBING ROUGH-IN PLAN	●
K3.0	EQUIPMENT ELECTRICAL ROUGH-IN PLAN	●
K4.0	EQUIPMENT ELEVATIONS	●
STRUCTURAL		
S0.0	STRUCTURAL NOTES AND SPECIAL INSPECTIONS	●
S0.1	DIAGRAMS & SCHEDULES	●
S1.0	FOUNDATION & ROOF FRAMING PLANS	●
S2.0	FOUNDATION SECTIONS & DETAILS	●
S2.1	FOUNDATION SECTIONS & DETAILS	●
S3.0	FRAMING SECTIONS & DETAILS	●
MECHANICAL		
M1.01	MECHANICAL SPECIFICATIONS	●
M1.02	MECHANICAL LEGENDS, NOTES, & ABBREVIATIONS	●
M1.03	MECHANICAL DETAILS	●
M1.04	MECHANICAL COMCHECK	●
M1.05	MECHANICAL COMCHECK	●
M2.01	MECHANICAL FLOOR PLAN & SCHEDULES	●
PLUMBING		
P1.01	PLUMBING SPECIFICATIONS	●
P1.02	PLUMBING LEGENDS AND SCHEDULES	●
P1.03	PLUMBING DETAILS	●
P2.01	SANITARY SEWER FLOOR PLAN & RISER DIAGRAM	●
P2.02	WATER SUPPLY FLOOR PLAN & RISER DIAGRAM	●
ELECTRICAL		
E0.01	ELECTRICAL SITE PLAN	●
E1.01	ELECTRICAL SPECIFICATIONS	●
E1.02	ELECTRICAL SPECIFICATIONS	●
E1.03	ELECTRICAL DETAILS	●
E1.04	ELECTRICAL COMCHECK	●
E2.01	LIGHTING FLOOR PLAN, NOTES, & SCHEDULES	●
E2.02	POWER FLOOR PLAN, NOTES & SCHEDULES	●

GENERAL NOTES

A. GENERAL CONTRACTOR SHALL VISIT THE SITE, REVIEW THE DRAWINGS AND BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS PRIOR TO CONSTRUCTION.

B. GENERAL CONTRACTOR SHALL CONSULT WITH THE CLIENT AND ARCHITECT TO RESOLVE ANY CHANGES, OMISSIONS OR PLAN DISCREPANCIES PRIOR TO CONSTRUCTION.

C. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES.

D. GENERAL CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES.

E. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. ALL DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS NOTED OTHERWISE.

F. GENERAL CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS, OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.

G. GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, FIRE ALARM, OR SPECIALTY SYSTEMS PRIOR TO INSTALLATION OF SUCH SYSTEMS.

H. GENERAL CONTRACTOR SHALL RETAIN ONE SET OF CONSTRUCTION ISSUE PLANS ON-SITE TO DOCUMENT ALL CHANGES MADE DURING CONSTRUCTION. THE RECORD DRAWINGS SHALL BE ISSUED TO THE CLIENT AT PROJECT CLOSE-OUT AS DESCRIBED IN THE GENERAL REQUIREMENTS OF THE PROJECT MANUAL.

I. RESPONSIBILITY FOR SUPPLY AND DELIVERY OF MATERIALS AND EQUIPMENT IS IDENTIFIED IN THE DRAWING SCHEDULE SHEETS UNDER THE COLUMN LABELED "RESPONSIBILITY".

J. FOR THE PURPOSE OF THE DOCUMENTS, TO "INSTALL" SHALL MEAN TO PROVIDE ALL FASTENERS, MISCELLANEOUS HARDWARE, BLOCKING, ELECTRICAL CONNECTIONS, PLUMBING CONNECTIONS AND OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION UNLESS OTHERWISE NOTED.

K. ALL ITEM SUBSTITUTIONS MUST BE APPROVED BY CLIENT AND ARCHITECT.

L. GC TO INCLUDE 8 HOURS OF HANGING MISC OWNER PROVIDED SHELVING AND ACCESSORIES.

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Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2592
STATE OF ARKANSAS

09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
COVER SHEET

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
G0.1

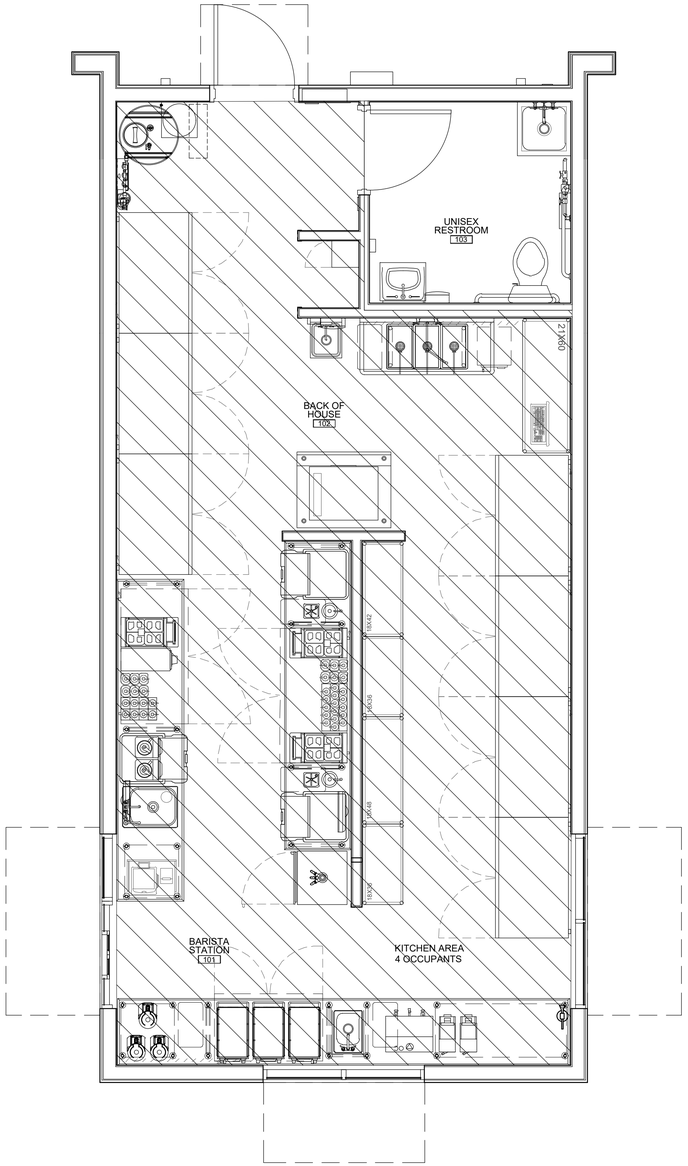
OCCUPANT LOAD AND EGRESS ANALYSIS

	USE	AREA	LOAD FACTOR	OCCUPANTS
	FOOD PREP	549 SF	1:200	4
	RESTROOMS	60 SF		0
TOTAL OCCUPANTS:				4

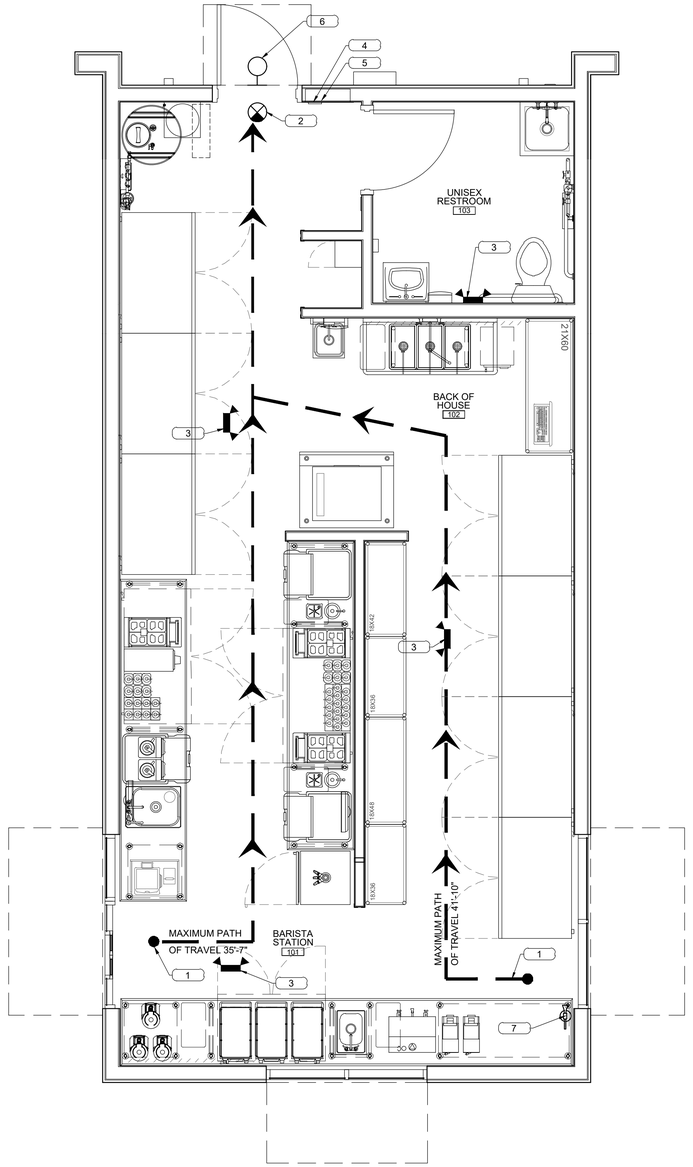
EXIT WIDTH CALCULATIONS:
4 OCCUPANTS x.2 = .8" REQUIRED - 36" PROVIDED

OCCUPANT LOAD IS 4 AND ONE EXIT IS REQUIRED, ONE IS PROVIDED.

ALLOWABLE PATH OF TRAVEL WITHOUT A SPRINKLER SYSTEM: 75'-0"
MAXIMUM PATH OF TRAVEL: 41'-10"



2 OCCUPANCY PLAN
SCALE: 3/8" = 1'-0"



1 LIFE SAFETY PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A10BC RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF.
2. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION & FOR COMPLETED PROJECT.
3. EXIT DOORS
   - 3.1. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL.
   - 3.2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR EFFORT (NO BOLTS, NO SLIDING BOLTS, ETC.).
   - 3.3. ALL EXIT DOORS & INTERVENING DOORS ON THE EXIT PATH, IF PROVIDED WITH A LOCK OR LATCH, MUST BE MARKED " THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED".
   - 3.4. PROVIDE ILLUMINATED EXIT SIGNS ABOVE EXITS WITH MIN. 3/4"x6" LETTERS LIGHTED ON CONTRASTING BACKGROUND.
4. EXIT SIGNS
   - 4.1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED
   - 4.2. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
   - 4.3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SECTION 2702.
   - 4.4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. (1011.3)
   - 4.5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (1011.6.3).
5. EGRESS EMERGENCY LIGHTING
   - 5.1. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
   - 5.2. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.
   - 5.3. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY IN THE EVENT OF SUPPLY; FAILURE AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE.
6. UNLESS ALREADY EXISTING, AN APPROVED SET OF NUMERALS, MINIMUM 6" HIGH ALUMINUM NUMBERS WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH AND FONT TYPE ARIAL BOLD, SHALL BE PLACED ON THE BUILDING. THE NUMBERING SHALL BE PLAINLY VISIBLE & LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. SAID NUMERALS SHALL CONTRAST W/ THEIR BACKGROUND. IF THE ADDRESS THAT IS POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET OR ROAD FRONTING THE PROPERTY IS NOT VISIBLE, ADDITIONAL ADDRESSES POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET ARE REQUIRED. (VERIFY REQUIREMENTS.)
7. PROVIDE A KNOX BOX FOR FIRE DEPT. ACCESS & KEY ACCESS, LOCATION IF REQUIRED BY FIRE MARSHAL.
8. GENERAL CONTRACTOR SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE DEPARTMENT PRIOR TO OCCUPYING THIS BUILDING.
9. PROVIDE ALL WEATHER ACCESS ROAD (MIN 20') TO ALL BUILDINGS & HYDRANTS FROM PUBLIC WAY DURING CONSTRUCTION.

KEYNOTES

X

1. EXIT PATH OF TRAVEL
2. EXIT SIGN, SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN
3. CEILING MOUNTED EMERGENCY LIGHTING, SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN
4. TACTILE EXIT SIGNS
5. OCCUPANT LOAD SIGN. FINAL LOCATION APPROVED BY FIRE MARSHALL
6. EXTERIOR EXIT LIGHT, SEE ELECTRICAL DRAWING AND REFLECTED CEILING PLAN
7. FIRE EXTINGUISHER PER FIRE MARSHALL APPROVAL

LEGEND

- NEW EMERGENCY LIGHT
- EXTERIOR EMERGENCY LIGHT
- NEW EXIT SIGN, CONFIRM LOCATION REQUIREMENTS WITH FIRE MARSHAL
- EGRESS PATH OF TRAVEL
- 2A - 10BC MINIMUM RATED FIRE EXTINGUISHER - WALL HUNG

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Ph: (972) 239-8884
Fax: (972) 239-5054



09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
LIFE SAFETY & OCCUPANCY PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
G0.2

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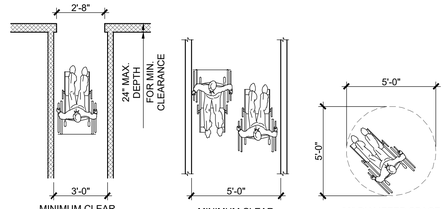
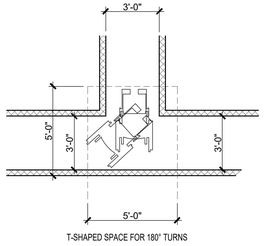
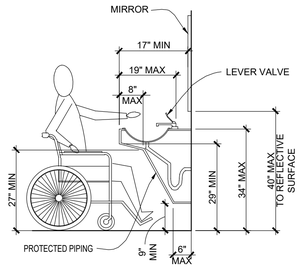




T-SHAPED SPACE FOR 180° TURNS

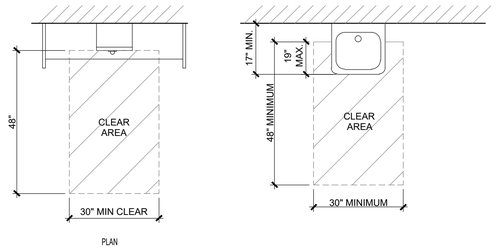
10 CLEAR FLOOR SPACE

SCALE: NTS



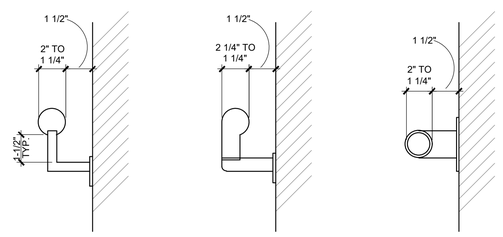
11 LAVATORY CLEARANCES

SCALE: NTS



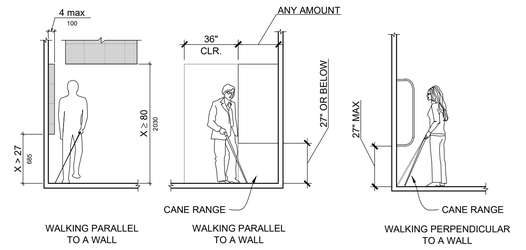
12 CLEAR FLOOR SPACE

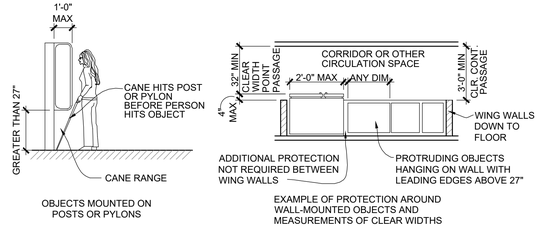
SCALE: NTS



13 SIZE AND SPACING OF HANDRAILS AND GRAB BARS

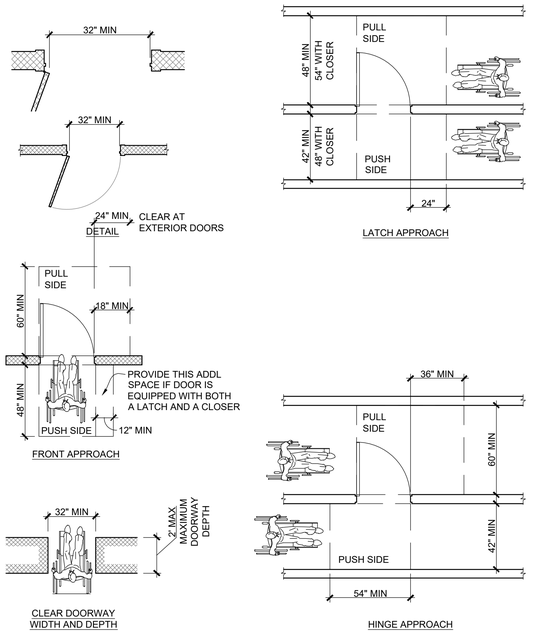
SCALE: NTS





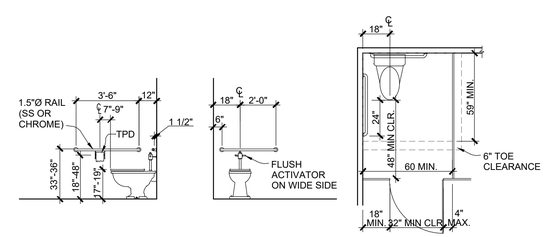
7 PROTRUDING OBJECTS

SCALE: NTS



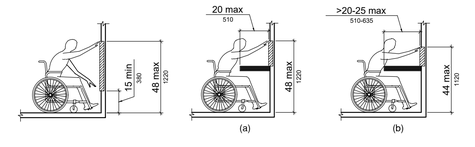
8 MANEUVERING CLEARANCES AT DOORWAY/DOORS

SCALE: NTS



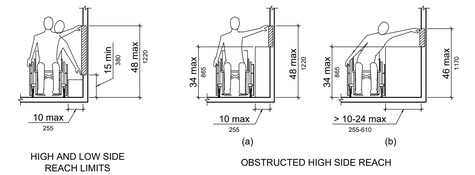
9 RESTROOM CLEARANCES

SCALE: NTS



1 FORWARD REACH

SCALE: NTS



2 SIDE REACH

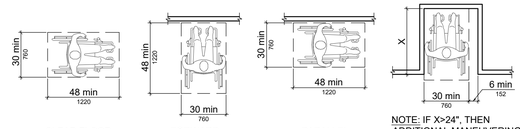
SCALE: NTS

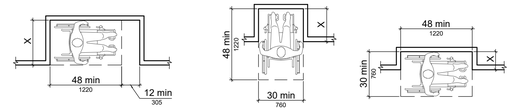
NOTE:
CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE BY MEANS OF A RAMP.



3 CHANGE IN LEVEL

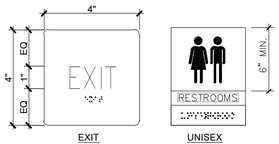
SCALE: NTS





4 MANEUVERING ACCESS

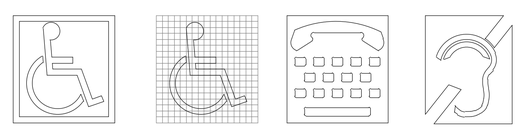
SCALE: NTS



BRAILLE SHALL BE MOUNTED 48" MINIMUM, AND 60" MAXIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE BRAILLE CELLS. RAISED CHARACTERS SHALL BE 48" MINIMUM TO THE BASELINE OF THE LOWEST RAISED CHARACTER AND 60" MAXIMUM TO THE HIGHEST RAISED CHARACTER. AN 18" X 18" CLEAR SPACE IS REQUIRED IN FRONT OF THE TACTILE SIGN, BEYOND THE ARC OF ANY DOOR SWING.

5 TACTILE SIGNAGE

SCALE: NTS



PROPORTIONS INTERNATIONAL SYMBOL OF ACCESSIBILITY

INTERNATIONAL TDD SYMBOL

INTERNATIONAL SYMBOL OF OF ACCESS FOR HEARING LOSS

6 INTERNATIONAL SYMBOLS

SCALE: NTS

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LICENSED ARCHITECT
STATE OF ARKANSAS
License Number 2002

09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
ACCESSIBILITY NOTES & DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
G0.3

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Envelope Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Proto - 4.1
Project Type: New Construction

Construction Site:	Owner/Agent:	Designer/Contractor:
1816 N Reynolds Rd. Bryant, Arkansas 72022	Kimberly Williford Scooter's Coffee LLC 10665 Bedford Ave. Omaha, Texas 68134 913.375.5256 kim.williford@scooterscoffe.com	Daryl Atwood GHA Architects 14901 Quorum Drive, Ste. 300 DALLAS, Texas 75254 972.239.8884 datwood@gha-architects.com

Building Location (for weather data): Bryant (Saline), Arkansas
Climate Zone: 3a
Vertical Glazing / Wall Area Pct.: **8%**

Building Use: Activity Type(s)	Floor Area
1-Dining: Bar Lounge/Leisure : Nonresidential	664

Section 2: Envelope Assemblies and Requirements Checklist

Envelope PASSES: Design 10% better than code.

Envelope Assemblies:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Orientation: NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	217	20.0	0.0	0.064	0.089
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	24	---	---	0.770	0.700
Orientation: EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	475	20.0	0.0	0.064	0.089
Window: Other Window: Fixed, Perf. Specs.: Product ID Spandrel - NA, SHGC 0.01, PF 0.56, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (c)	20	---	---	0.050	0.650
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.25, PF 0.56, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (c)	19	---	---	0.280	0.650
Orientation: SOUTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	230	20.0	0.0	0.064	0.089
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.25, PF 0.56, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (c)	36	---	---	0.280	0.650
Orientation: WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	475	20.0	0.0	0.064	0.089
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.25, PF 0.56, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (c)	39	---	---	0.280	0.650
Orientation: UNSPECIFIED ORIENTATION					

Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	608	---	25.0	0.039	0.048
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	111	---	---	---	---

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- ☐ 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- ☐ 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 5. 'Other' components have supporting documentation for proposed U-Factors.
- ☐ 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- ☐ 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
- ☐ 8. Cargo doors and loading dock doors are weather sealed.
- ☐ 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- ☐ 10. Building entrance doors have a vestibule equipped with self-closing devices.
  Exceptions:
  - ☐ Building entrances with revolving doors.
  - ☐ Doors not intended to be used as a building entrance.
  - ☐ Doors that open directly from a space less than 3000 sq. ft. in area.
  - ☐ Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
  - ☐ Doors opening directly from a sleeping/dwelling unit.

Section 3: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COM*check-Web* and to comply with the mandatory requirements in the Requirements Checklist.

Seun Olatunbosun - Project Manager	*Seun Olatunbosun*	08/18/2022
Name - Title	Signature	Date

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Fax: (972) 239-5054

REGISTERED ARCHITECT
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License Number 2009
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09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
BUILDING
COMCHECK

KIOSK PROTOTYPE:
4.1 PROTOTYPE
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DATE:
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☒ PERMIT/BID SUBMITTAL
☐ CONSTRUCTION ISSUE

SHEET NO.
G0.4

ARCHITECTURAL SPECIFICATIONS

0101 SUMMARY OF WORK

A. DESCRIPTION
1.1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE CONSTRUCTION DOCUMENTS, WITH FINAL APPROVALS OF ALL WORK.
1.2. THE CONTRACTOR RESPONSIBLE FOR THE PORTION OF THE WORK REQUIRING INSPECTIONS BY GOVERNMENT AGENCIES, IS CHARGED WITH REQUESTING ALL SUCH INSPECTIONS.
1.3. CLOSE COORDINATION WILL BE REQUIRED BETWEEN GENERAL, MECHANICAL AND ELECTRICAL CONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE SCHEDULING AND PHASING OF CONSTRUCTION.
1.4. CLOSE COORDINATION OF FINAL EQUIPMENT CONNECTION REQUIREMENTS AND CONDITIONS WILL BE NECESSARY ON THIS PROJECT. ENGINEERING OF GAS, ELECTRIC, WATER AND SEWER AND VENTILATION SERVICES MAY VARY WITH FINAL SELECTIONS.

0108 APPLICABLE STANDARDS

A. DESCRIPTION
1.1. WORK INCLUDED: THROUGHOUT THE CONTRACT DOCUMENTS, REFERENCE IS MADE TO CODES AND STANDARDS WHICH ESTABLISH QUALITIES AND TYPES OF WORKMANSHIP AND MATERIALS, AND WHICH ESTABLISH METHODS FOR TESTING AND REPORTING ON THE PERTINENT CHARACTERISTICS.
1.2. RELATED WORK DESCRIBED ELSEWHERE: SPECIFIC NAMING OF CODES OR STANDARDS OCCURS ON THE DRAWINGS AND IN OTHER SECTIONS OF THESE SPECIFICATIONS.
B. QUALITY ASSURANCE:
1.1. FAMILIARITY WITH PERTINENT CODES AND STANDARDS: IN PROCURING ALL ITEMS USED IN THIS WORK IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THE DETAILED REQUIREMENTS OF THE PREVAILING CODES AND STANDARDS AND TO VERIFY THAT THE ITEMS PROCURED FOR USE IN THE WORK MEET OR EXCEED THE SPECIFIED REQUIREMENTS.
1.2. REJECTION OF NON-COMPLYING ITEMS: THE OWNER RESERVES THE RIGHT TO REJECT ITEMS INCORPORATED INTO THE WORK, WHICH FAIL TO MEET THE SPECIFIED MINIMUM REQUIREMENTS. THE OWNER FURTHER RESERVES THE RIGHT, AND WITHOUT PREJUDICE TO OTHER RECOURSE THE OWNER MAY TAKE, TO ACCEPT NON-COMPLYING ITEMS SUBJECT TO AN ADJUSTMENT IN THE CONTRACT AMOUNT AS APPROVED BY THE OWNER.

1.3 APPLICABLE STANDARDS LISTED IN THESE SPECIFICATION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STANDARDS PROMULGATED BY THE FOLLOWING AGENCIES AND ORGANIZATION:
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
AMERICAN PLYWOOD ASSOCIATION (APA)
AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
AMERICAN WELDING SOCIETY (AWS)
ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION (AAMA)
ARCHITECTURAL WOODWORK INSTITUTE (AWI)
INTERNATIONAL BUILDING CODE (IBC)
COMMERCIAL SPECIFICATIONS (CS)
CONCRETE REINFORCING STANDARDS
NATIONAL ACOUSTICAL CONTRACTORS ASSOCIATION
NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMA)
NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA)
NATIONAL CONCRETE MASONRY ASSOCIATION (NFPA)
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
NATIONAL SANITATION FOUNDATION (NSF)
NATIONAL WOODWORK MANUFACTURERS ASSOCIATION (NWMA)
TILE COUNCIL OF AMERICA (TCA)
UNDERWRITER LABORATORIES (UL)

0171 CLEANING

A. DESCRIPTION:
1.1. SCOPE OF WORK: THROUGHOUT THE CONSTRUCTION PERIOD, MAINTAIN THE BUILDING AND SITE IN A STANDARD OF CLEANLINESS AS DESCRIBED IN THIS SECTION.
1.2. RELATED WORK: IN ADDITION TO STANDARDS DESCRIBED IN THIS SECTION, COMPLY WITH ALL REQUIREMENTS FOR CLEANING UP AS DESCRIBED IN VARIOUS OTHER SECTIONS OF THESE SPECIFICATIONS.

1.3 FINAL CLEANING:
a. DEFINITION: EXCEPT AS OTHERWISE SPECIFICALLY PROVIDED, "CLEAN" (FOR THE PURPOSE OF THIS ARTICLE) SHALL BE INTERPRETED AS MEANING THE LEVEL OF CLEANLINESS GENERALLY PROVIDED BY SKILLED CLEANERS USING COMMERCIAL QUALITY BUILDING MAINTENANCE EQUIPMENT AND MATERIALS.
b. GENERAL: PRIOR TO COMPLETION OF THE WORK, REMOVE FROM THE JOB SITE ALL TOOLS, SURPLUS MATERIALS, EQUIPMENT, SCRAP, DEBRIS, AND WASTE.
c. INTERIOR: VISUALLY INSPECT ALL INTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIAL, SMUDGES, AND OTHER FOREIGN MATTER. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES. REMOVE ALL PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM FINISHED SURFACES. USE ONLY THE SPECIFIED CLEANING MATERIALS AND EQUIPMENT.

0550 -METAL FABRICTIONS

1. WORK INCLUDES MISCELLANEOUS SHOP FABRICATED FERROUS METAL ITEMS, INCLUDING BUT NOT LIMITED TO:
A. LOOSE STEEL LINTELS
B. MISCELLANEOUS FRAMING, SUPPORTS AND TRIM
C. ROOF LADDERS
D. STEEL DECK PANELS

2. MATERIALS
A. STEEL SECTIONS: ASTM A36.
B. STEEL TUBING: ASTM A500 OR ASTM A501.
C. STAINLESS STEEL: TYPE 304 (18-8), ASTM A269; SATIN POLISHED FINISH.
D. STEEL PIPE: ASTM A53, GRADE B, STANDARD WEIGHT (SCHEDULE 40).
E. MALLEABLE IRON CASTINGS; ASTM A47.
F. BOLTS, NUTS, AND WASHERS. ASTM A307.
G. WELDING MATERIALS: ASW D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
H. PRIMER SSPC-PAINT 2, FOR SHOP APPLICATION AND FIELD TOUCH-UP.
I. STEEL DECK PANELS: ASTM A446 WITH G90 GALVANIZED COATING, STEEL ASTM A611, GRADE C, SHOP PRIMED.

3. FABRICATION:
A. VERIFY DIMENSIONS IN FIELD PRIOR TO SHOP FABRICATION.
B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
C. FIT AND SHOP ASSEMBLE IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
D. PRIME PAINT ITEMS SCHEDULE TO PROVIDE A UNIFORM DRY FILM THICKNESS OF 2.0 MILS.

LADDERS:

A. FABRICATE LADDERS FOR THE LOCATIONS SHOWN, WITH DIMENSIONS, SPACING, DETAILS AND ANCHORAGE AS INDICATED. COMPLY WITH THE REQUIREMENTS OF ANSI A 14.3, EXCEPT AS OTHERWISE INDICATED.
1) UNLESS OTHERWISE SHOWN, PROVIDE 1/2" X 2-1/2" CONTINUOUS STRUCTURAL STEEL FLAT BAR SIDE RAILS WITH EASED EDGES, SPACED 24" APART.
2) PROVIDE 3/4" DIAMETER SOLID STRUCTURAL STEEL BAR RANGE, SPACED 12"O.C.
B. FIT RUNGS IN CENTERLINE OF SIDE RAILS, PLUG WELD AND GRIND SMOOTH ON OUTER RAIL FACES.
C. SUPPORT EACH LADDER AT TOP AND BOTTOM AND AT INTERMEDIATE POINTS, SPACED NOT MORE THAN 5'-0" O.C. USE WELDED OR BOLTED STEEL BRACKETS, DESIGNED FOR ADEQUATE SUPPORT AND ANCHORAGE, AND TO HOLD LADDER CLEAR OF THE WALL SURFACE WITH A MINIMUM OF 7" CLEARANCE WALL TO CENTERLINE OF RUNGS. RETURN RAILS TO WALL OR STRUCTURE UNLESS OTHER SECURE HANDHOLDS ARE PROVIDED.
D. PROVIDE NON-SLIP SURFACE ON TOP OF EACH RUNG, EITHER BY COATING THE RUNG WITH ALUMINUM OXIDE GRANULES SET IN EPOXY RESIN ADHESIVE, OR BY USING A TYPE OF MANUFACTURED RUNG WHICH IS FILLED WITH ALUMINUM OXIDE GROUT.

SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIAL, SMUDGES, AND OTHER

0720 - THERMAL INSULATION

A. GENERAL: PROVIDE THERMAL INSULATION WITH ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
1. INSULATION INTEGRAL WITH ROOFING AND INSULATION IN EXTERIOR WALLS.
B. ACCESSORIES: PROVIDE TAPE OR PENETRATION ANCHORS WHERE REQUIRED TO ENSURE PERMANENT INSTALLATION.

A. MATERIALS:

1.1 ROOF INSULATION POLYISOCYANURATE INSULATION BOARD FIRESTONE STANDARD ISO 95+GL (OR EQUAL) COVER BOARD FIRESTONE ASTM C1289 TYPE II, CLASS 4 ISOGARD HD COMPOSITE COVER BOARD (OR EQUAL)
1.2 THERMAL BATT INSULATION: PREFORMED GLASS FIBER BATT WITH FSK-25 REFLECTIVE MEMBRANE ON ONE SIDE ASTM C665 TYPE III, CLASS A KNAUF INSULATION ECOBATT INSULATION (OR EQUAL).
1.3 TAPE: TO MATCH FOIL SCRIM KRAFT FACE; 2 INCH WIDTH.
1.4 EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION UNDER GRADE. ASTM C578 TYPE IV OWENS CORNING FOAMULAR 250 (OR EQUAL).
1.5 ACOUSTICAL BATT INSULATION PERFORMED FIBER BATT UNFACED ASTM C665 TYPE I, CLASS A KNAUF INSULATION ECOBATT INSULATION (OR EQUAL).

B. INSTALLATION:

1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.

2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.

3. INSTALLATION OF THERMAL BATT INSULATION:
3.1. INSTALL INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE SEAL TEARS OR CUTS IN VAPOR BARRIER
3.2. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.

3.3. MECHANICAL FASTENING:
3.3.1. AT LOCATIONS WHERE NO FRAMING IS PRESENT TO SUPPORT THE INSULATION, PROVIDE METAL IMPALING PINS AND RETAINERS TO HOLD THE INSULATION FIRMLY IN PLACE.
3.3.2. MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3.3.3. SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BLANKET. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.

4. INSTALLATION OF RIGID PERIMETER INSULATION: INSTALL INSULATION FROM TOP OF FOOTING TO UNDERSIDE OF SLAB AND BENEATH THE SLAB HORIZONTALLY 24" FROM THE INTERIOR FACE OF THE FOOTING.

C. R VALUE SCHEDULE:

1.1 PROVIDE INSULATION IN SUFFICIENT THICKNESS; REFERENCE BUILDING COMCHECK ON G0.4

7457 CEMENTITIOUS PANELS

PART 1 GENERAL

1.1. SECTION INCLUDES
A. CEMENTITIOUS EXPRESS/REVEAL JOINTED PANELS WITH ACCESSORIES. (JAMES HARDIE HZ10 HARDIE REVEAL PANELS).

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 231 SOUTH LASALLE STREET UNIT 2000, CHICAGO, IL 60606. ASD. TOLL FREE TEL: 866-274-3464; TEL: 312-705-6000; EMAIL: INFO@JAMESHARDIE.COM; WEB: HTTP://WWW.JAMESHARDIEPROS.COM/PRODUCTS /HARDIE-REVEAL-PANEL-SYSTEM
2.2 CLADDING
A. CEMENT CLADDING PANELS: HARDIE REVEAL PANEL AS MANUFACTURED BT JAMES HARDIE BUILDING PRODUCTS, INC. 5/16 INCHES THICK, 3 FEET 11.5 INCHES (1206 MM) WIDE BY 7 FEET 11.5 INCHES (2426) MM LONG. PRODUCT SHALL BE ENGINEERED FOR CLIMATE CONDITIONS.
1. MANUFACTURER'S CLIMATE ZONE PRODUCT: HZ10 FOR HOT HUMID AND WET CLIMATES WITH A YELLOW TINT PRIMER - SMOOTH SAND FINISH.
B. CODE COMPLIANCE REQUIREMENT FOR SIDING MATERIALS:
1. FIBER-CEMENT SIDING, COMPLIES WITH ASTM C 1186 TYPE A GRADE II.
2. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL.
3. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX=5.
4. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 119 1 HOUR AND 2 HOUR FIRE RESISTIVE ASSEMBLIES LISTED WITH WARNOCK HERSEY.
5. FIBER-CEMENT SIDING, TESTED TO ASTM E330 FOR TRANSVERSE LOADS.
6. INTERTEK WARNOCK HERSEY PRODUCT LISTING.
7. MANUFACTURER'S TECHNICAL DATA SHEET.
2.3 WEATHER BARRIER
A. WEATHER BARRIER: JAMES HARDIE HARDIEWRAP AND HARDIEWRAP FLASHING AND SEAM TAPES (OR EQUAL).
B. CODE COMPLIANCE REQUIREMENT FOR WEATHER BARRIER:
1. THICKNESS, 11 MIL SHEET.
2. BREATHABILITY IN ACCORDANCE WITH ASTM E96.
3. TEAR STRENGTH IN ACCORDANCE WITH ASTM D1117.
4. WATER RESISTANCE IN ACCORDANCE WITH AATCC127.
5. AIR PENETRATION IN ACCORDANCE WITH TAPPI-T460.
6. HARDIEWRAP WEATHER BARRIER ICC-ES EVALUATION REPORT ESR-2258.
2.4 ACCESSORIES
A. TRIMS: REVEAL TRIMS MANUFACTURED BY CUSTOM ALUMINUM OF ELGIN, IL IN THE FOLLOWING PROFILES SUPPLIED BY JAMES HARDIE. ALUMINUM ALLOY 6063-T5 WITH A MINIMUM THICKNESS OF 0.050 INCH. ALL REVEAL TRIMS ARE 8 FEET IN LENGTH.
B. XTEREMETRIM MANUFACTURED BY TAMLYN. ALUMINUM ALLOY 6063-T5 WITH A MINIMUM THICKNESS OF 0.050 INCH. ALL REVEAL TRIMS ARE 8 FEET IN LENGTH.
1. SURROUND HORIZONTAL TRIM.
2. SURROUND VERTICAL TRIM.
3. SURROUND HORIZONTAL END CUT TRANSITION TRIM.
4. SURROUND OUTSIDE CORNER TRIM.
5. SURROUND INSIDE CORNER TRIM.
6. SURROUND J CHANNEL TRIM.
7. SURROUND DRAINAGE FLASHING
8. RECESS HORIZONTAL TRIM.
9. RECESS VERTICAL TRIM.
10. RECESS HORIZONTAL EDGE TRIM.
11. RECESS VERTICAL F-TRIM.
12. RECESS OUTSIDE CORNER TRIM.
13. RECESS DRAINAGE FLASHING.
2.5 FASTENERS
A. FASTENERS: FOR ATTACHING HARDIE REVEAL PANEL DIRECT TO SHEATHING TO A RAIN SCREEN PROVIDE THE FOLLOWING:
1. WOOD FRAMING, COUNTERSUNK SCREWS: NO. 8 BY 0.39 INCH HEAD DIAMETER BY 1-5/8 INCH LONG.
2. FASTENERS SHALL BE OF HIGH QUALITY STAINLESS STEEL TO ENSURE RESISTANCE TO CORROSION. FOR FIELD PAINTING, FASTENERS SHALL BE TREATED TO ACCEPT PAINT ADHESION.

PART 3 EXECUTION

3.1 EXAMINATION
A. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.
B. IF FRAMING PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.
3.2 PREPARATION
A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
C. ENSURE THAT DRAINAGE PLANE IN INTACT AND ALL PENETRATIONS ARE SEALED.
3.3 INSTALLATION
A. WOOD FRAMING: NOMINAL 2 INCH BY 4 INCH (51 MM BY 102 MM) WOOD FRAMING SELECTED FOR MINIMAL SHRINKAGE AND COMPLYING WITH LOCAL BUILDING CODES, INCLUDING THE USE OF WATER-RESISTIVE BARRIERS OR VAPOR BARRIERS WHERE REQUIRED. MINIMUM 1-1/2 INCHES (38 MM) FACE AND STRAIGHT, TRUE, OF UNIFORM DIMENSIONS AND PROPERLY ALIGNED.
1. INSTALL WATER-RESISTIVE BARRIERS AND CLADDINGS TO DRY SURFACES.
2. REPAIR AND PUNCTURES OR TEARS IN THE WATER-RESISTIVE BARRIER PRIOR TO THE INSTALLATION OF THE SIDING.
3. PROTECT SIDING FROM OTHER TRADES.

07462 SIDING

PART 1 GENERAL

1.1. SECTION INCLUDES
A. FIBER CEMENT LAP SIDING, PANELS, SHINGLE, TRIM, FASCIA, MOULDING AND ACCESSORIES: JAMES HARDIE HZ10 ENGINEERED FOR CLIMATE SIDING.
1.2 WARRANTY
A. PRODUCT WARRANTY: LIMITED, NON-PRO-RATED PRODUCT WARRANTY.
1. HARDIEPLANK HZ10 LAP SIDING FOR 30 YEARS.
B. WORKMANSHIP WARRANTY: APPLICATION LIMITED WARRANTY FOR 2 YEARS.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 26300 LA ALAMEDA SUITE 400 ; MISSION VIEJO, CA 92691; TOLL FREE TEL: 866-274-3464; TEL: 949-367-4980; FAX: 949-367-4981; EMAIL; REQUEST INFO (INFO@JAMESHARDIE.COM); WEB: WWW.JAMESHARDIECOMMERCIAL.COM
2.2 SIDING
A. HARDIEPLANK HZ10 LAP SIDING:
1. FIBER-CEMENT SIDING - COMPLIES WITH STM C 1186 TYPE A GRADE II.
2. FIBER-CEMENT SIDING - COMPLIES WITH STM E 136 AS A NONCOMBUSTIBLE MATERIAL.
3. FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX = 5.
4. CAL-FIRE, FIRE ENGINEERING DIVISION BUILDING MATERIALS LISTING - WILDLAND URBAN INTERFACE (WUI) LISTED PRODUCT.
5. NATIONAL EVALUATION REPORT NO. NER 405 (BOCA, ICBO, SBCCI, IBC, IRC).
6. CITY OF LOS ANGELES, RESEARCH REPORT NO. 24862.
7. MIAMI DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE 07-0418-04.
8. US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT MATERIALS RELEASE 1263D.
9. CALIFORNIE DSA PA-019.
10. CITY OF NEW YORK M EA 223-93-M.
11. FLORIDA STATE PRODUCT APPROVAL FL889.
12. TEXAS DEPARTMENT OF INSURANCE PRODUCT EVALUATION 22-23.
B. LAP SIDING: HARDIEPLANKHZ10 LAP AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.
1. TYPE: SELECT CEDARMILL 6-1/4 INCHES (159 MM) WITH 5 INCHES (127 MM) EXPOSURE.
C. TRIM:
1. HARDIETRIM HZ10 BOARDS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.
2. HARDIETRIM HZ10 FASCIA BOARDS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.

2.3 FASTENERS
A. WOOD FRAMING FASTENERS:
1. WOOD FRAMING: 4D COMMON CORROSION RESISTANT NAILS.
2. WOOD FRAMING: 6D COMMON CORROSION RESISTANT NAILS.
3. WOOD FRAMING: 8D BOX RING COMMON CORROSION RESISTANT NAILS.
4. WOOD FRAMING: 0.089 INCH (2.2 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.
5. WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.
6. WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2-1/2 INCHES (64 MM) CORROSION RESISTANT NAILS.
7. WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.
8. WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.225 INCH (5.7 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.
9. WOOD FRAMING: 0.121 INCH (3 MM) SHANK BY 0.371 INCH (9.44 MM) HEAD BY 1-1/4 INCHES (32 MM) CORROSION RESISTANT ROOFING NAILS.
10. WOOD FRAMING: NO. 11 GAUGE 1-1/4 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.
11. WOOD FRAMING: NO. 11 GAUGE 1-1/2 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.
12. WOOD FRAMING: NO. 11 GAUGE 1-3/4 INCHES (44 MM) CORROSION RESISTANT ROOFING NAILS.
2.4 FINISHES
A. FACTORY PRIMER: PROVIDE FACTORY APPLIED UNIVERSAL PRIMER.
1. PRIMER: FACTORY PRIMED BY JAMES HARDIE.

A.
PART 3 EXECUTION

3.1 PREPARATION
A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
C. INSTALL A WATER-RESISTIVE BARRIER IS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
D. THE WATER-RESISTIVE BARRIER MUST BE APPROPRIATELY INSTALLED WITH PENETRATION AND JUNCTION FLASHING IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
3.2 INSTALLATION- HARDIEPLANK HZ10 LAP SIDING
A. INSTALL MATERIALS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
B. STARTING: INSTALL A MINIMUM 1/4 INCH (6 MM) THICK LATH STARTER STRIP AT THE BOTTOM COURSE OF THE WALL. APPLY PLANKS HORIZONTALLY WITH MINIMUM 1-1/4 INCHES (32 MM) WIDE LAPS AT THE TOP. THE BOTTOM EDGE OF THE FIRST PLANK OVERLAPS THE STARTER STRIP
C. ALLOW MINIMUM VERTICAL CLEARANCE BETWEEN THE EDGE OF SIDING AND ANY OTHER MATERIAL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
D. ALIGN VERTICAL JOINTS OF THE PLANKS OVER FRAMING MEMBERS.
E. MAINTAIN CLEARANCE BETWEEN SIDING AND ADJACENT FINISHED GRADE.
F. LOCATE SPLICES AT LEAST ONE STUD CAVITY AWAY FROM WINDOW AND DOOR OPENINGS.
G. USE OFF-STUD METAL JOINER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
H. WIND RESISTANCE: WHERE A SPECIFIED LEVEL OF WIND RESISTANCE IS REQUIRED HARDIEPLANK LAP SIDING IS INSTALLED TO FRAMING MEMBERS AND SECURED WITH FASTENERS DESCRIBED IN TABLE NO. 2 IN NATIONAL EVALUATION SERVICE REPORT NO. NER-405.
I. FACE NAIL TO SHEATHING.
J. LOCATE JOICES AT LEAST 12 INCHES (305 MM) AWAY FROM WINDOW AND DOOR OPENINGS.

0753 - ROOFING SYSTEM

2.01 MANUFACTURERS
A. ACCEPTABLE MANUFACTURER - ROOFING SYSTEM: FIRESTONE BUILDING PRODUCTS CO., CARMEL, IN WWW.FIRESTONEBPCO.COM
B. ROOFING SYSTEMS MANUFACTURED BY OTHERS MAY BE ACCEPTABLE PROVIDED THE ROOFING SYSTEM IS COMPLETELY EQUIVALENT IN MATERIALS AND WARRANTY CONDITIONS AND THE MANUFACTURER MEETS THE FOLLOWING QUALIFICATIONS:
1. SPECIALIZING IN MANUFACTURING THE ROOFING SYSTEM TO BE PROVIDED.
2. MINIMUM TEN YEARS OF EXPERIENCE MANUFACTURING THE ROOFING SYSTEM TO BE PROVIDED.
3. ABLE TO PROVIDE A NO DOLLAR LIMIT, SINGLE SOURCE ROOF SYSTEM WARRANTY THAT IS BACKED BY CORPORATE ASSETS IN EXCESS OF ONE BILLION DOLLARS.
4. ISO 9002 CERTIFIED.
5. ABLE TO PROVIDE POLYISOCYANURATE INSULATION THAT IS PRODUCED IN OWN FACILITIES
C. MANUFACTURER OF INSULATION AND COVER BOARD: SAME MANUFACTURER AS ROOF MEMBRANE.
D. MANUFACTURER OF METAL ROOF EDGING: SAME MANUFACTURER AS ROOF MEMBRANE.
1. METAL ROOF EDGING PRODUCTS BY OTHER MANUFACTURERS ARE NOT ACCEPTABLE.
2. FIELD- OR SHOP-FABRICATED METAL ROOF EDGINGS ARE NOT ACCEPTABLE.

2.02 ROOFING SYSTEM DESCRIPTION
A. ROOFING SYSTEM:
1. MEMBRANE: SELF ADHERING THERMOPLASTIC POLYOLEFIN (TPO).
2. THICKNESS: AS SPECIFIED ELSEWHERE.
3. MEMBRANE ATTACHMENT: FULLY ADHERED.
4. SLOPE: DECK IS SLOPED, BUT POSSIBLY NOT ENOUGH. PROVIDE ADDITIONAL SLOPE TO ACHEIVE 1/4 INCH PER FOOT (1:48) BY MEANS OF TAPERED INSULATION.
5. COMPLY WITH APPLICABLE LOCAL BUILDING CODE REQUIREMENTS.
6. PROVIDE ASSEMBLY HAVING UNDERWRITERS LABORATORIES, INC. (UL) CLASS A, B, C, FIRE HAZARD CLASSIFICATION.
7. PROVIDE ASSEMBLY COMPLYING WITH FACTORY MUTUAL CORPORATION (FM) ROOF ASSEMBLY CLASSIFICATION, FM DS 1-28 AND 1-29, AND MEETING MINIMUM REQUIREMENTS OF FM 1-[60, 90, 120, 160] WIND UPLIFT RATING.

B. INSULATION:
1. TOTAL SYSTEM R VALUE: 20, MINIMUM.
2. MAXIMUM BOARD THICKNESS: 2 INCHES (50 MM); USE AS MANY LAYERS AS NECESSARY; STAGGER JOINTS IN ADJACENT LAYERS.

SYSTEM R VALUE*	TOTAL ISO INSULATION THICKNESS, NOMINAL
20 R	3.5 INCHES
25 R	4.5 INCHES
30 R	5.25 INCHES
35 R	6.25 INCHES

USE OF FIRESTONE ISOGARD HD COVER BOARD CAN PROVIDE AN ADDITIONAL 2.5 R VS. GYPSUM BASED COVER BOARDS. [EXAMPLE: 1.66 INCH ISO (9.45 R) + 1.66 INCH ISO (9.45 R) + .5 INCH HD ISO COVER BOARD (2.5 R) = 21.4 R]
*LONG TERM THERMAL RESISTANCE (LTTR) VALUES PROVIDE A 15 YEAR TIME WEIGHTED AVERAGE IN ACCORDANCE WITH ASTM 1289-13.
3. BASE LAYER: POLYISOCYANURATE FOAM BOARD, NON-COMPOSITE.
a. ATTACHMENT: MECHANICAL FASTENING, CONTACT ADHESIVE OR LOW-RISE POLYURETHANE ADHESIVE.
4. TOP LAYER: POLYISOCYANURATE FOAM BOARD, NON-COMPOSITE.
a. ATTACHMENT: MECHANICAL FASTENING, CONTACT ADHESIVE OR LOW-RISE POLYURETHANE ADHESIVE.
C. COVER BOARD: HIGH DENSITY POLYISOCYANURATE COVER BOARD:
1. THICKNESS: 0.5 INCH (12.7MM).
2. R-VALUE: 2.5 BASED ON ASTM TESTS C158 AND C177.
a. ATTACHMENT: MECHANICAL FASTENING, CONTACT ADHESIVE OR LOW-RISE POLYURETHANE ADHESIVE. OR COVER BOARD: GYPSUM-BASED COVER BOARD:
1. THICKNESS: 0.25 INCH (6.4MM).
2. R-VALUE: NEGLIGIBLE.
a. ATTACHMENT: MECHANICAL FASTENING, CONTACT ADHESIVE OR LOW-RISE POLYURETHANE ADHESIVE.

2.03 TPO MEMBRANE MATERIALS
A. MEMBRANE: FLEXIBLE, HEAT WELDABLE SHEET COMPOSED OF THERMOPLASTIC POLYOLEFIN POLYMER AND ETHYLENE PROPYLENE RUBBER; COMPLYING WITH ASTM D 6878. WITH POLYESTER WEFT INSERTED REINFORCEMENT AND THE FOLLOWING ADDITIONAL CHARACTERISTICS:
1. THICKNESS: 0.060 INCH (1.15 MM) PLUS/MINUS 10 PERCENT, WITH COATING THICKNESS OVER REINFORCEMENT OF 0.021 INCH (0.54 MM) PLUS/MINUS 10 PERCENT.
2. PUNCTURE RESISTANCE: 300 LBF (1,334 N), MINIMUM, WHEN TESTED IN ACCORDANCE FTM 101C METHOD 2031.
3. SOLAR REFLECTANCE: 0.74, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM C 1549. [WHITE]
4. COLOR: WHITE (OR TAN OR GRAY BY SPECIAL ORDER ONLY)
5. ACCEPTABLE PRODUCT: ULTRAPLY TPO SA WITH SECURE BOND TECHNOLOGY BY FIRESTONE.
B. MEMBRANE FASTENERS: TYPE AND SIZE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY FASTENERS FURNISHED BY ROOF MEMBRANE MANUFACTURER.
C. CURB AND PARAPET FLASHING: SAME MATERIAL AS MEMBRANE, WITH ENCAPSULATED EDGE WHICH ELIMINATES NEED FOR SEAM SEALING THE FLASHING-TO-ROOF SPLICE; PRECUT TO 18 INCHES (457 MM) WIDE.
D. FORMABLE FLASHING: NON-REINFORCED, FLEXIBLE, HEAT WELDABLE SHEET, COMPOSED OF THERMOPLASTIC POLYOLEFIN POLYMER AND ETHYLENE PROPYLENE RUBBER.
1. THICKNESS: 0.060 INCH (1.52 MM) PLUS/MINUS 10 PERCENT.
2. TENSILE STRENGTH: 1550 PSI (10.7 MPA), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 638 AFTER HEAT AGING.
3. ELONGATION AT BREAK: 650 PERCENT, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 638 AFTER HEAT AGING.
4. TEARING STRENGTH: 12 LBF (53 N), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 1004 AFTER HEAT AGING.
5. COLOR: SAME AS FIELD MEMBRANE.
6. ACCEPTABLE PRODUCT: ULTRAPLY TPO FLASHING BY FIRESTONE.
E. TAPE FLASHING: 5-1/2 INCH (140 MM) NOMINAL WIDE TPO MEMBRANE LAMINATED TO CURED RUBBER POLYMER SEAMING TAPE, OVERALL THICKNESS 0.065 INCH (1.6 MM) NOMINAL; TPO QUICKSEAM FLASHING BY FIRESTONE.
F. POURABLE SEALER: TWO-PART POLYURETHANE, TWO-COLOR FOR MM). RELIABLE MIXING; POURABLE SEALER BY FIRESTONE.
G. SEAM PLATES: STEEL WITH BARBS AND GALVALUME COATING; CORROSION-RESISTANCE COMPLYING WITH FM 4470.
H. TERMINATION BARS: ALUMINUM BARS WITH INTEGRAL CAULK LEDGE; 1.3 INCHES (33 MM) WIDE BY 0.10 INCH (2.5 MM) THICK; FIRESTONE TERMINATION BAR BY FIRESTONE.
I. CUT EDGE SEALANT: SYNTHETIC RUBBER-BASED, FOR USE WHERE MEMBRANE REINFORCEMENT IS EXPOSED; ULTRAPLY TPO CUT EDGE SEALANT BY FIRESTON

ARCHITECTURAL SPECIFICATIONS - CONTINUED

2.04 ROOF INSULATION AND COVER BOARDS

A. POLYISOCYANURATE BOARD INSULATION: CLOSED CELL POLYISOCYANURATE FOAM WITH BLACK GLASS REINFORCED MAT LAMINATED TO FACES, COMPLYING WITH ASTM C 1289 TYPE II CLASS 1, WITH THE FOLLOWING ADDITIONAL CHARACTERISTICS: OWENS CORNING DENSDECK OR BETTER:
1. THICKNESS: AS INDICATED ELSEWHERE.
2. SIZE: 48 INCHES (1220 MM) BY 96 INCHES (2440 MM), NOMINAL.
3. EXCEPTION: INSULATION TO BE ATTACHED USING ADHESIVE OR ASPHALT MAY BE NO LARGER THAN 48 INCHES (1220 MM) BY 48 INCHES (1220 MM), NOMINAL.
4. R-VALUE (LTTR): 1.0 INCH (25 MM) THICKNESS: 5.7 R, MINIMUM.
5. COMPRESSIVE STRENGTH: 20 PSI (138 KPA) WHEN TESTED IN ACCORDANCE WITH ASTM C 1289.
6. OZONE DEPLETION POTENTIAL: ZERO; MADE WITHOUT CFC OR HCFC BLOWING AGENTS.
7. RECYCLED CONTENT: 19 PERCENT POST-CONSUMER AND 15 PERCENT POST-INDUSTRIAL, AVERAGE.
8. ACCEPTABLE PRODUCT: ISO 95+ POLYISO BOARD INSULATION BY FIRESTONE OR
8. ACCEPTABLE PRODUCT: RESISTA POLYISO BOARD INSULATION BY FIRESTONE (OPTIONAL MOLD RESISTANT MATERIAL PER ASTM D3273) CHOOSE ONE/ ELIMINATE ONE. MATCH WITH ROOFING SYSTEM DESCRIPTION ABOVE.

B. HIGH DENSITY POLYISOCYANURATE COVER BOARD: NON-COMBUSTIBLE, WATER RESISTANT HIGH DENSITY, CLOSED CELL POLYISOCYANURATE CORE WITH COATED GLASS MAT FACERS, COMPLYING WITH ASTM D 1623, AND WITH THE FOLLOWING ADDITIONAL CHARACTERISTICS:
1. SIZE: 48 INCHES (1220 MM) BY 96 INCHES (2440 MM), NOMINAL.
   a. EXCEPTION: BOARD TO BE ATTACHED USING ADHESIVE OR ASPHALT MAY BE NO LARGER THAN 48 INCHES (1220 MM) BY 48 INCHES (1220 MM), NOMINAL.
2. THICKNESS: 0.5 INCH (12.7MM).
3. R-VALUE: 2.5 R BASED ON ASTM TESTS C158 AND C177.
4. SURFACE WATER ABSORPTION: <3%, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM C 209.
5. COMPRESSIVE STRENGTH: 120PSI, WHEN TESTED IN ACCORDANCE WITH ASTM 1621.
6. DENSITY: 9PCF, WHEN TESTED IN ACCORDANCE WITH ASTM 1622.
7. FACTORY MUTUAL APPROVED FOR USE WITH FM 1-60 AND 1-90 RATED ROOFING ASSEMBLIES.
8. MOLD GROWTH RESISTANCE: PASSED, WHEN TESTED IN ACCORDANCE WITH ASTM D 3273.
9. ACCEPTABLE PRODUCT: ISOGARD HD COVER BOARD BY FIRESTONE.

C. INSULATION FASTENERS: TYPE AND SIZE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY FASTENERS FURNISHED BY ROOF MEMBRANE MANUFACTURER.

D. INSULATION ADHESIVE: TYPE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY ADHESIVE FURNISHED BY ROOF MEMBRANE MANUFACTURER.

2.05 METAL ACCESSORIES

INCLUDE FOLLOWING ELEMENTS AS APPLICABLE TO YOUR PROJECT, ELIMINATE OTHERS;

A. METAL ROOF EDGING AND FASCIA: CONTINUOUS METAL EDGE MEMBER SERVING AS TERMINATION OF ROOF MEMBRANE AND RETAINER FOR METAL FASCIA; WATERTIGHT WITH NO EXPOSED FASTENERS; MOUNTED TO ROOF EDGE NAILER.
1. WIND PERFORMANCE:
   a. MEMBRANE PULL-OFF RESISTANCE: 100 LBS/FT (1460 N/M), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-1, CURRENT EDITION.
   b. FASCIA PULL-OFF RESISTANCE: AT LEAST THE MINIMUM REQUIRED WHEN TESTED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-2, CURRENT EDITION.
   c. PROVIDE PRODUCT LISTED IN CURRENT FACTORY MUTUAL RESEARCH CORPORATION APPROVAL GUIDE WITH AT LEAST FM 1-270 WIND UPLIFT RATING.
2. DESCRIPTION: TWO-PIECE; 45 DEGREE SLOPED GALVANIZED STEEL SHEET EDGE MEMBER SECURING TOP AND BOTTOM EDGES OF FORMED METAL FASCIA: FIRESTONE EDGEGARD.
3. FASCIA FACE HEIGHT: 5 INCHES (127 MM).
4. EDGE MEMBER HEIGHT ABOVE NAILER: 1-1/4 INCHES (31
5. LENGTH: 144 INCHES (3650 MM).
6. FACTORY FINISH; CHARACTERISTICS: FASCIA RETAINER SUPPORTS WHILE ALLOWING FOR FREE THERMAL CYCLING OF FASCIA.
7. ALUMINUM BAR: CONTINUOUS 6063-T6 ALLOY ALUMINUM EXTRUSION WITH PRE-PUNCHED SLOTTED HOLES; MITERS WELDED; INJECTION MOLDED EPDM SPLICES TO ALLOW THERMAL EXPANSION.
8. ANCHOR BAR CLEAT: 20 GAGE, 0.036 INCH (0.9 MM) G90 COATED COMMERCIAL TYPE GALVANIZED STEEL WITH PRE-PUNCHED HOLES.
9. CURVED APPLICATIONS: FACTORY MODIFIED.
10. FASTENERS: FACTORY-PROVIDED CORROSION RESISTANT FASTENERS, WITH DRIVERS; NO EXPOSED FASTENERS PERMITTED.
11. SPECIAL SHAPED COMPONENTS: PROVIDE FACTORY-FABRICATED PIECES NECESSARY FOR COMPLETE INSTALLATION, INCLUDING MITERS, SCUPPERS, AND END CAPS; MINIMUM 14 INCH (355 MM) LONG LEGS ON CORNER PIECES.
12. SCUPPERS: WELDED WATERTIGHT.
13. ACCESSORIES: PROVIDE MATCHING BRICK WALL CAP, DOWNSPOUT, EXTENDERS, AND OTHER SPECIAL FABRICATIONS AS SHOWN ON THE DRAWINGS.

B. PARAPET COPINGS: FORMED METAL COPING WITH GALVANIZED STEEL ANCHOR/SUPPORT CLEATS FOR CAPPING ANY PARAPET WALL; WATERTIGHT, MAINTENANCE FREE, WITHOUT EXPOSED FASTENERS; BUTT TYPE JOINTS WITH CONCEALED SPLICE PLATES; MECHANICALLY FASTENED AS INDICATED; FIRESTONE PTCF.
1. WIND PERFORMANCE:
   a. AT LEAST THE MINIMUM REQUIRED WHEN TESTED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-3, CURRENT EDITION.
   b. PROVIDE PRODUCT LISTED IN CURRENT FACTORY MUTUAL RESEARCH CORPORATION APPROVAL GUIDE WITH AT LEAST FM 1-90 RATING.
2. DESCRIPTION: COPING SECTIONS ALLOWED TO EXPAND AND CONTRACT FREELY WHILE LOCKED IN PLACE ON ANCHOR CLEATS BY MECHANICAL PRESSURE FROM HARDENED STAINLESS STEEL SPRINGS FACTORY ATTACHED TO ANCHOR CLEATS; 8 INCH (200 MM) WIDE SPLICE PLATES WITH FACTORY APPLIED DUAL NON-CURING SEALANT STRIPS CAPABLE OF PROVIDING WATERTIGHT SEAL.
3. MATERIAL AND FINISH: 24 GAGE, 0.024 INCH (0.06 MM) THICK GALVANIZED STEEL WITH KYNAR 500 FINISH IN MANUFACTURER'S STANDARD COLOR; MATCHING CONCEALED JOINT SPLICE PLATES; FACTORY-INSTALLED PROTECTIVE PLASTIC FILM.
4. DIMENSIONS:
   a. WALL WIDTH: AS INDICATED ON THE DRAWINGS.
   b. PIECE LENGTH: MINIMUM 144 INCHES (3650 MM).
   c. CURVED APPLICATION: FACTORY FABRICATED IN TRUE RADIUS.
5. ANCHOR/SUPPORT CLEATS: 20 GAGE, 0.036 INCH (0.9 MM) THICK PREPUNCHED GALVANIZED CLEAT WITH 12 INCH (305 MM) WIDE STAINLESS STEEL SPRING MECHANICALLY LOCKED TO CLEAT AT 72 INCHES (1820 MM) ON CENTER.
6. SPECIAL SHAPED COMPONENTS: PROVIDE FACTORY-FABRICATED PIECES NECESSARY FOR COMPLETE INSTALLATION, INCLUDING MITERS, CORNERS, INTERSECTIONS, CURVES, PIER CAPS, AND END CAPS; MINIMUM 14 INCH (355 MM) LONG LEGS ON CORNER, INTERSECTION, AND END PIECES.
7. FASTENERS: FACTORY-FURNISHED; ELECTROLYTICALLY COMPATIBLE; MINIMUM PULL OUT RESISTANCE OF 240 POUNDS (109 KG) FOR ACTUAL SUBSTRATE USED; NO EXPOSED FASTENERS. 2.06 ACCESSORY MATERIALS

A. WOOD NAILERS: PS 20 DIMENSION LUMBER, STRUCTURAL GRADE NO. 2 OR BETTER SOUTHERN PINE, DOUGLAS FIR; OR PS 1, APA EXTERIOR GRADE PLYWOOD; PRESSURE PRESERVATIVE TREATED.
1. WIDTH: 3-1/2 INCHES (90 MM), NOMINAL MINIMUM, OR AS WIDE AS THE NAILING FLANGE OF THE ROOF ACCESSORY TO BE ATTACHED TO IT.
2. THICKNESS: SAME AS THICKNESS OF ROOF INSULATION.

0760 - FLASHING & SHEET METAL

A. GENERAL: PROVIDE FLASHING AND SHEET METAL, REGLETS, AND ACCESSORIES AS REQUIRED FOR ROOF REPAIRS AS REQUIRED FOR COMPLETE, WEATHERTIGHT INSTALLATION.

B. STANDARDS: CONFORM TO SMACNA "ARCHITECTURAL SHEET METAL MANUAL" REQUIREMENTS FOR FLASING AND SHEET METAL.

C. DESIGN REQUIREMENTS: ALLOW FOR MOVEMENT OF COMPONENTS WITHOUT CAUSING BUCKLING, FAILURE OF JOINT SEALS, UNDUE STRESS OF FASTENERS OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO 100 YEAR SEASONAL TEMPERATURE RANGES.

D. SUBMITTALS: FURNISH PRODUCT DATA FOR MANUFACTURED PRODUCTS.

E. WARRANTY: CORRECT FAILURE OF METAL FLASHING SYSTEM TO RESIST PENETRATION OF WATER AND DAMAGE FROM WIND; WARRANTY PERIOD TWO YEARS.

F. FLASHING AND SHEET METAL: MATCH EXISTING, BUT NOT LESS THAN FLOLLOWING:
1. GALVANIZED METAL FLASHING: ASTM A526 GALVANIZED STEEL WITH MINIMUM 0.02 COOPER, AND WITH MINIMUM G90 GALVANIZED COATING; MINIMUM 20 GAGE.
2. PREFINISHED METAL FLASHING: 20 GAGE GALVANIZED STEEL WITH FACTORY FINISHED KYNAR 500 TYPE FLUOROPOLYMER COATING AND STIPPABLE PROTECTIVE FILM; COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.
3. ALUMINUM FLASHING: ASTM B209, ALLOY AS REQUIRED TO MATCH FINISH SPECIFIED FOR OTHER ALUMINUM COMPONENTS; THICKNESS MINIMUM 0.050" SOFT TEMPER.
4. STAINLESS STEEL SHEET METAL: ASTM A666, 2D ANNEALED FINISH, SOFT TEMPER EXCEPT WHERE HARDER TEMPER IS REQUIRED FOR FORMING OR PERFORMANCE; (28 GAGE) TYPICAL.
5. COPPER SHEET METAL: ASTM B370, COLD ROLLED 16OZ. (0.0216") THICK; SOFT TEMPER WHERE REQUIRED FOR FORMING.

G. REGLETS: FRY/SPRINGLOK OR MM SYSTEM/SNAP-TITE REGLETS; FABRICATE OF SAME METAL AS ADJACENT FLASHING AND SHEET METAL.

H. METAL TO METAL SEALANT: BUTYL TYPE; NOT-STAINING, NON-CORROSIVE, NON-SHRINKING, NON-SAGGING, UNTRA-VIOLET AND OZONE RESISTANT.

I. INSTALLATION: COMPLY WITH SMACNA MANUAL.
1. INSTALL METAL FLASHING AND SHEET METAL IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL; TIGHT IN PLACE, WITH CORNERS SQUARE, SURFACES TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES AS INDICATED ON DRAWINGS.
2. INSTALL SEALANTS WHERE REQUIRED TO PREVENT DIRECT WEATHER PENETRATION.
3. COMPLETE INSTALLATION SHALL BE FREE OF RATTLES, NOISE DUE TO THERMAL AND AIR MOVEMENT AND WIND WHISTLES.

0790 -CAULKING & SEALANTS

A. DESCRIPTION:

1.1. WORK INCLUDED: SUPPLY AND INSTALL ALL CAULKING AND SEALANTS WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. THIS SHALL INCLUDE, BUT NOT IS LIMITED TO, THE FOLLOWING:
   a. ALUMINUM ENTRANCE SYSTEM & WINDOWS- SPECIFIED UNDER SECTION 0815 ALUMINUM ENTRANCE SYSTEM.
   b. TOILET FIXTURES: CAULK BY PLUMBING CONTRACTOR, COLOR- WHITE.
   c. WATER OR WASTE PENETRATIONS: CAULK BY PLUMBING CONTRACTOR, COLOR- WHITE
   d. COMPRESSION CUP MAY BE PROVIDED IN LIEU OF CAULK.
   e. TILE CORNERS CAULK BY GENERAL CONTRACTOR, COLOR - TBD
   f. TILE AT COOLER WALLS: CAULK BY GENERAL CONTRACTOR, COLOR -TBD
   g. TILE AT CEILING GRID: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
   h. VANITY TOPS & WAITRESS STATION: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR.
   i. PAPER TOWEL DISPENSER: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR.
   j. HOLLOW METAL DOORS: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR
   k. HOOD WALLS: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
   l. PASS THRU: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
   m. EXTERIOR SEALANTS: SEALANT BY GENERAL CONTRACTOR, COLOR - TBD

B. MATERIALS

1.1. GENERAL INTERIOR CAULK: ONE PART ACRYLIC LATEX CAULK. 90% SOLIDS MINIMUM. USE AS RECOMMENDED BY MANUFACTURER (AS GENERAL PURPOSE INTERIOR SEALANT). ACCEPTABLE MANUFACTURER: DOW CORNING.

1.2. JOINT BACKING: COMPRESSIBLE ROD OF MATERIAL AS RECOMMENDED BY SEALANT MANUFACTURER FOR JOINT TYPES AND WIDTHS INDICATED ON CONSTRUCTION DRAWINGS.

1.3. JOINT CLEANER, SEALERS, AND PRIMER SHALL BE USED AS RECOMMENDED BY MANUFACTURER.

C. INSTALLATION

1.1. JOINT BACKING MATERIAL SHALL BE A WIDTH GREATER TMAN THE JOINT, AS RECOMMENDED BY THE MANUFACTURER, TO GUARANTEE A TIGHT FIT WHEN FORCED INTO PLACE.

1.2 APPLY MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS: OBSERVE MANUFACTURER'S REQUIREMENTS REGARDING TEMPERATURE CONTROL, USABILITY OF MATERIALS, AND PROTECTION OF ADJACENT SURFACES.

1.1. MAKING SEALING SURFACE SLIGHTLY CONCAVE FREE OF WRINKLES AND SKIPS: UNIFORMLY SMOOTH AND WITH PERFECT ADHESION ALONG BOTH SIDES OF JOINT. PROTECT ADJACENT SURFACES FROM EXCESS MATERIALS LEAVE JOINTS IN A CLEAN NEAT CONDITION. DEFECTIVE JOINTS SHALL BE REMOVED, CLEANED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.SET THRESHOLDS IN FULL BED OF CAULKING AND ANCHOR WITH EXPANSION ANCHORS.

0810 HOLLOW METAL DOORS & FRAMES

A. DESCRIPTION

1.1. REFER TO DOOR SCHEDULE FOR LOCATIONS AND TYPES OF DOORS REQUIRED.

B. PRODUCTS

1.1. HOLLOW METAL FRAMES- GENERAL
   a. COLD ROLLED 18 GAUGE LABELED FRAMES WHERE REQUIRED.
   b. FRAMES SHALL RECEIVE TWO COATS OF RUST INHIBITIVE PRIMER. PROVIDE THREE (3) RUBBER BUMPERS AT EACH DOOR.
   c. ALL FRAMES TO BE WELDED HOLLOW METAL.
   d. APPROVED MANUFACTURERS: STEELCRAFT, CECO, TRUSSBILT, AMWELD, AND FENESTRA

1.2 HOLLOW METAL FRAMES - WELDED (INTERIOR & EXTERIOR)
   a. SAW MITER AND CONTINUOUSLY WELD CORNER JOINTS FOR FULL JAMB DEPTH AND WIDTH OF FRAME AND TRIM. CONTACT EDGES SHALL BE CLOSED TIGHT WELDS ON EXPOSED SURFACES DRESSED SMOOTH AND FLUSH. PRIME COAT PAINT.
   b. PROVIDE CHAMBER AT HINGE CUTOUTS TO ALLOW ATTACHMENT OF HINGES AFTER FRAME IS FILLED WITH GROUT.

1.3 HOLLOW METAL DOORS
   a. DOORS SHALL BE FLUSH DESIGN, OF SIZE INDICATED ON DOOR SCHEDULE
   b. CORE SHALL CONSIST OF STRUCTURAL HONEYCOMB OR SOLID POLYSTYRENE CORE BANDED TO BOTH FACES.
   c. APPROVED MANUFACTURERS: STEELCRAFT, CECO, TRUSSBILT, AMWELD, AND FENESTRA

C. INSTALLATION

1.1. FRAMES, WHICH ARE SCHEDULED FOR LABEL CONSTRUCTION, SHALL BE INSTALLED USING UL-APPROVED ANCHORING. FRAMES SHALL BE PROPERLY PREPARED TO RECEIVE UL-APPROVED HARDWARE AND SHALL HAVE PROPER LABEL ATTACHED AT THE FACTORY.

1.2. ALL FRAMES SHALL BE COMPLETED WITH JAMB ANCHORS FOR ATTACHING TO MASONRY WALLS, OR OTHER ANCHORS, AS REQUIRED BY THE PARTICULAR INSTALLATION.

1.3. AT THE TIME OF INSTALLATION, THE DOOR JAMBS SHOULD BE HELD ½ " OFF THE EXISTING CONCRETE FLOOR, BEFORE FLOOR TILE IS INSTALLED.

1.4. INSTALL ALL HOLLOW METAL DOORS AND FRAMES ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

1.5. FILL ALL WELDED FRAMES WITH MORTAR.

0815 ALUMINUM WINDOW SYSTEMS

A. DESCRIPTION

1.1. FURNISH AND INSTALL ALL GLAZING, GLASS AND DOOR FRAMES, BARRIER BARS, AND EXTERIOR WINDOW WALL SYSTEM, INCLUDING ALL HARDWARE, ACCESSORIES, AND CAULKING, REQUIRED FOR A COMPLETE WATERTIGHT INSTALLATION AS DETAILED ON THE DRAWINGS AND HEREINAFTER SPECIFIED.

B. PRODUCTS

1.1. ALUMINUM COMPONENTS: .22,000 PSI PER ULTIMATE TENSILE STRENGTH ALLOY, NOT LESS THAN 0.125 " WALL THICKNESS. 1-3/4 " X 4.5" FRAME SIZE.

1.2. FASTENING: ALUMINUM, STAINLESS STEEL OR CADMIUM PLATED CARBON STEEL

1.3. WEATHERSTOP DOOR OPENINGS WITH BLACK PLOY-PILE WEATHER-STRIPPING.

1.4. GLASS STOPS: WITHOUT VISIBLE FASTENINGS SNAP-IN TYPE BLACK, FOR PUTTY LESS GLAZING.

1.5. HARDWARE: REFER TO DOCUMENTS

1.6. FINISH: REFER TO DOCUMENTS

1.7. DOORS TO BE MEDIUM STILE TO MEET APPLICABLE AAMA REQUIREMENTS CONCERNING SILLS AND STRENGTHS.

1.8. CAULKING COLOR TO MATCH FRAME.

1.9. MANUFACTURERS:
   a. DOORS AND FRAMES: KAWNEER OR VISTAWALL.

C. INSTALLATION

1.1. FABRICATE AND INSTALL EXTERIOR UNITS TO WITHSTAND WIND PRESSURE LOAD OF 26 POUNDS PER SQUARE FOOT OVER ENTIRE FRAME, AND PANEL AREA, ACTING INWARD AND OUTWARD.

0850 - PASS-THRU WINDOW

MANUAL OPERATED, SELF-CLOSING, BI-PARTING PASS-THRU WINDOW IN ANODIZED ALUMINUM FRAME.
PRE-GLAZED WINDOW, SEE EXTERIOR ELEVATION AND DOOR AND WINDOW SCHEDULE FOR ADDITION INFORMATION. UNIT AS MANUFACTURED BY:

QUICKSERV CORP
P.O. BOX 40466
HOUSTON, TX 77240
CONTACT: WADE ARNOLD

0870 FINISH HARDWARE

A. DESCRIPTION

1.1. INSTALL ALL FINISH HARDWARE ON DOORS INDICATED ON DOOR SCHEDULE.

1.2. COORDINATION: HARDWARE TEMPLATES AND SCHEDULES SHALL BE SENT TO HOLLOW METAL MILLWORK WOOD DOOR SUPPLIER TO COORDINATE THE NECESSARY PREPARATION.

B. PRODUCTS

1.1. ALL HARDWARE TO MEET REQUIREMENTS LISTED IN THE DOOR SCHEDULE UNLESS OTHERWISE NOTED.

1.2. ALL ALUMINUM ENTRANCE SYSTEM HARDWARE ROLLING GRILLES & OVERHEAD FIRE DOORS & SHUTTER HARDWARE IS BY MANUFACTURER.

C. INSTALLATION

1.1. MOUNT ALL HARDWARE UNITS AT HEIGHTS RECOMMENDED IN "RECOMMEND LOCATIONS FOR BUILDERS HARDWARE" BY NBHA, EXCEPT AS OTHERWISE SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING HANDICAPPED REGULATIONS. THESE SHALL BE AS FOLLOWS:
   a. LOCK SETS AND LATCH SETS- 40"
   b. EXIT DEVICE CROSSBAR- 37"
   c. CENTER OF DOOR PULL- 42"
   d. CENTER OF PUSH PLATE- 48"
   e. DEADLOCK- 60"

1.2 INSTALL HARDWARE ITEMS COMPLYING WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. REMOVE HARDWARE FROM SURFACES TO BE FINISHED AFTER INSTALLATION AND STORE UNTIL SURFACE FINISH IS APPLIED; THEN REINSTALL.

1.3 ADJUST EACH OPERATING ITEM OF HARDWARE TO INSURE PROPER OPERATION OF FUNCTION OF UNIT.

1.4 LUBRICATE MOVING PARTS AS RECOMMENDED BY MANUFACTURER.

1.5 INSTALL ALL WEATHER-STRIPPING IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. FIT WEATHER-STRIPPING TIGHTLY AT CORNERS TO MAINTAIN CONTINUITY AROUND PERIPHERY OF DOOR.

1.6 CLEAN HARDWARE AS RECOMMENDED BY MANUFACTURER.

0880 GLASS & GLAZING

A. DESCRIPTION

1.1. FURNISH AND INSTALL ALL GLASS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

B. MATERIALS

1.1. GLAZING COMPOUND:
   a. (TT-P-781), TYPE 1 OR TYPE 2 MINIMUM AND ACCESSORIES SUCH AS POINTS, SETTING BLOCKS, SHIMS, STOP BEADS, ANGLES, WIRING SPRING CLIPS SHALL BE THE TYPE RECOMMENDED BY THE GLASS MANUFACTURER.

C. TYPES:

1.1. 5/8 " TEMPERED INSULATING GLASS IN EXTERIOR ALUMINUM DOORS.

1.2. 1" TEMPERED INSULATING GLASS @ EXTERIOR LOCATIONS.

1.3. 1/4" TEMPERED GLASS @ INTERIOR LOCATIONS.

1.4. PROVIDE 35% DUAL REFLECTIVE WINDOW FILM ON 2ND SURFACE (INSIDE).

D. INSTALLATION

1.1. PERFORM ALL GLAZING WORK IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE FLAT GLASS JOBBERS ASSOCIATION (FGJA) GLAZING MANUAL.

1.2. ALL GLASS FACTORY LABELED ON EACH PANE. DIMENSIONS SHOWN ON DRAWINGS ARE GIVEN ONLY AS A GUIDE FOR ESTIMATING PURPOSES, AND ACTUAL SIZE SHALL BE DETERMINED BY MEASUREMENT OF THE ACTUAL OPENINGS. GLASS SHALL BE ACCURATELY CUT TO FIT THESE OPENINGS.

1.3. INSPECT WINDOWS AND OTHER FRAMES TO DETERMINE THAT THE FRAMES, SASH AND STOPS ARE SET TRUE AND STRAIGHT. SASH RABBETS AND STOPS SHALL BE CLEAN AND DRY AT THE TIME OF GLAZING. BEFORE GLAZING METAL SASH REMOVE ANY OIL, LACQUER, OR OTHER MATERIAL TO WHICH THE COMPOUND WILL NOT READILY ADHERE OR WHICH WILL TEND TO DELAMINATE FROM THE METAL AND CAUSE A LEAK THROUGH THE GLAZING SEAL.

0950 ACOUSTICAL TREATMENT

A. GENERAL: PROVIDE ACOUSTICAL CEILINGS INCLUDING SUSPENSION SYSTEM, TRIM AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.

B. STANDARDS: CONFORM TO ASTM C635 FOR METAL SUSPENSION SYSTEM AND ASTM C636 FOR INSTALLATION OF ACOUSTICAL CEILINGS.

C. PERFORMANCE REQUIREMENTS: PROVIDE PRODUCTS LISTED BY UNDERWRITERS LABORATORIES (UL)
1. FLAME SPREAD/ MODE DENSITY: PROVIDE PRODUCTS MEETING CODE REQUIREMENTS FOR MAXIMUM 25 FLAME SPREAD AND SMOKE DEVELOPED INDEX 50 OR LESS.

D. SEISMIC REQUIREMENTS: COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS FOR SEISMIC BRACING OF CEILING SUSPENSION SYSTEM, AND WITH ASTM E580.

E. SUBMITTALS: SUBMIT PRODUCT DATA, SHOP DRAWINGS INDICATION LAYOUT, AND SAMPLES OF GRID, TRIM AND CEILING UNITS.

F. INSTALLER: FIRM WITH MINIMUM THREE YEARS SUCCESSFUL EXPERIENCE IN PROJECTS OF SIMILAR TYPE AND SCOPE: ACCEPTANCE TO MANUFACTURER OF ACOUSTICAL UNITS.

G. PROJECT CONDITION: DO NOT INSTALL CEILING UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED AND OVERHEAD MECHANICAL WORK IS COMPLETED, TESTED AND APPROVED: ALLOW WET WORK TO DRY PRIOR TO INSTALLATION.

H. ACOUSTICAL UNITS: TYPES AND MANUFACTURERS AS INDICTED ON DRAWINGS.

I. SUSPENSION SYSTEM: AS INDICTED ON DRAWINGS.

J. PREPARATION: MEASURE CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL UNITS TO BALANCE PROPER WIDTHS AT OPPOSITE EDGES OF EACH CEILING: DO NOT USE LESS THAN HALF WIDTH UNITS AT BORDERS.
1. COORDINATE WITH OTHER WORK SUPPORTED BY OR PENETRATING THROUGH CEILINGS, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT AND PARTITIONS SYSTEMS.

K. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS, ASTM C636, AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS.
1. FINISHED CEILINGS: TRUE TO LINES AND LEVELS AND FREE FROM WARPED, SOILED OR DAMAGED GRID OR ACOUSTICAL UNITS.
2. INSTALL CEILING SYSTEMS IN A MANNER CAPABLE OF SUPPORTING SUPERIMPOSED LOADS, WITH MAXIMIM PERMISSIBLE DEFLECTION OF 1/8" IN 10'-0".
3. ENSURE SUSPENSION SYSTEM IS LOCATED TO ACCOMMODATE FITTINGS AND UNITS FOR WHICH IS TO BE PLACED AFTER INSTALLATION OF CEILING GRID.
4. WHERE DUCTS OR OTHER EQUIPMENT PREVENT REGULAR SPACING OF HANGERS, REINFORCE NEAREST ADJACENT HANGERS AND RELATED SUPPORTING CHANNELS AS REQUIRED TO SPAN REQUIRED DISTANCE.
5. INSTALL EDGE MOLDINGS AT INTERSECTION OF CELING AND VERTICAL SURFACES, USING MAXIMUM LENGTHS, STRAIGHT, TRUE TO LINE AND LEVEL; MITER CORNERS.
6. FIT ACOUSTICAL UNITS IN PLACE, FREE FROM DAMAGED EDGES OR DEFLCTS DETRIMENTAL TO APPEARANCE AND FUNCTION. LAY DIRECTIONALLY PATTERNED UNITS ONE WAY WITH PATTERN AS DIRECTED. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES.
7. INSTALL UNITS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP AND DENTS.
8. INSTALL HOLD-DOWN CLIPS WHERE REQUIRED BY APPLICABLE CODES AND WHERE CEILING IS WITHIN 20'-0" OF AND EXTERIOR DOOR.

L. ADJUSTMENT: ADJUST SAGS OR TWISTS WHICH DEVELOP IN CEILING SYSTEM AND CEILING IS WITHIN 20'-0" OR AN EXTERIOR DOOR.

0990 PAINTING

A. DESCRIPTION

1.1. THE CONTRACTOR SHALL DO ALL INTERIOR AND EXTERIOR PAINTING INDICATED ON THE DRAWINGS, INCLUDING WOOD, MASONRY, GYPSUM BOARD FERROUS METALS, PRIME COATED METAL SURFACES, REGISTERS, AND GRILLES.

1.2. EXAMINE ALL SUBSURFACES TO RECEIVE WORK AND REPORT TO THE GENERAL CONTRACTOR WITH A COPY TO THE TENANT. ALL CONDITIONS DETRIMENTAL TO WORK. COMMENCEMENT OF WORK WILL BE CONSTRUED AS ACCEPTANCE OF ALL SUBSURFACES.

1.3. DELIVER MATERIALS AND EQUIPMENT IN ONE PLACE WHERE DIRECTED BY THE GENERAL CONTRACTOR'S FOREMAN. PROTECT FLOORS AND WALLS OF STORAGE ROOM. REMOVE OILY RAGS, WASTE ETC. FROM BUILDING EVERY NIGHT AND UNDER NO CIRCUMSTANCES ALLOW THEM TO ACCUMULATE.

B. PRODUCTS

1.1. ALL MATERIALS SHALL BE OF THE BEST GRADE; REFER TO FINISHES.

C. INSTALLATION

1.1. THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO BE FINISHED AND MAKE CERTAIN THAT THINGS CAN BE PUT IN PROPER CONDITION FOR FINISHING BY CUSTOMARY CLEANING, SANDING OR PUTTYING. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PRODUCING A SATISFACTORY JOB WITH THE MATERIALS SPECIFIED.

1.2. WORKMANSHIP SHALL BE OF THE VERY BEST, ALL MATERIALS EVENLY SPREAD AND SMOOTHLY FLOWED ON, GIVING A UNIFORM SHEEN AND COLOR WITHOUT RUNS AND SAGS. TRANSPARENT FINISHES SHALL HAVE ALL COATS BRUSHED OUT SMOOTH. SPRAYING IS ACCEPTABLE FOR PRIME COATS ONLY. ONLY SKILLED PAINTERS SHALL BE EMPLOYED AND ALL MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. EXCEPT AS OTHERWISE SPECIFIED, ONLY ONE MANUFACTURER'S MATERIALS SHALL BE USED IN EACH OF THE FINISHES SPECIFIED.

1.3. ALL SURFACES TO BE PAINTED OR ENAMELED SHALL BE CLEANED FREE OF LOOSE DIRT AND DUST BEFORE PAINTING IS STARTED. ALL KNOTS, PITCH STREAKS, AND SAPPY SPOTS SHALL FIRST BE TOUCHED UP WITH SHELLAC WHERE FINISH CALLS FOR PAINT OR ENAMEL.

1.4. ALL NECESSARY PUTTYING OF NAIL HOLES, CRACKS ETC SHALL BE DONE AFTER THE FIRST COAT, WITH PUTTY OF A COLOR TO MATCH THAT OF THE FINISH

1.5. ALL UNDERCOATS OF PAINT AND ENAMEL SHALL BE TINTED TO THE APPROXIMATE SHADE OF THE FINAL COAT. ALL SUCTION SPOTS OR HOT SPOTS IN CEMENT, AFTER THE APPLICATION OF THE FIRST COAT, SHALL BE TOUCHED UP BEFORE APPLYING THE SECOND COAT. CONTRACTOR SHALL SECURE COLOR SCHEDULE FOR ROOMS BEFORE PRIMING WALLS.

1.6. TOPS AND BOTTOMS OF ALL DOORS SHALL BE FINISHED SAME AS BALANCE OF DOOR.

1.7. ALL PAINTING SHALL BE DONE TO CONFORM TO LOCAL HEALTH DEPARTMENT REGULATIONS.

1.8. PAINTING SCHEDULE: THE FOLLOWING SPECIFICATIONS FOR FINISHING IS NOT INTENDED TO MENTION EVERY PARTICULAR ITEM WHICH WILL RECEIVE PAINTERS FINISH, BUT IS INTENDED TO ESTABLISH TYPE AND QUALITY OF FINISH WHICH WILL BE REQUIRED ON VARIOUS MATERIALS. INTERIOR AND EXTERIOR FERROUS METAL (INCLUDING ELECTRICAL PANELS AT UTILITY AREA):
FIRST COAT- RUST INHIBITED PRIMER.
SECOND COAT- ENAMEL UNDERCOAT.
THIRD COAT- ALKYD SATIN FINISH ENAMEL.
WOOD:
FIRST COAT- POLYURETHANE VARNISH, SATIN FINISH, SANDED.
SECOND COAT- POLYURETHANE VARNISH, SATIN FINISH, SANDED.
THIRD COAT- POLYURETHANE VARNISH, SATIN FINISH, SANDED.
RECESSED LIGHT

SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR

ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)

PERMITTED USES: RESTAURANTS PERMITTED

BUILDING COVERAGE: 35% MAXIMUM

HEIGHT: THREE STORIES OR 45' MAXIMUM

FRONT SETBACK: 50' MINIMUM

SIDE SETBACK: 0' UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 25' MINIMUM

REAR SETBACK: 15' MINIMUM UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 55' MINIMUM

REQUIRED PARKING: ONE SPACE PER 300 SF OF OCCUPIED SPACE=664/300=2 SPACES

PROPOSED PARKING: 7 STALLS INCLUDING 1 HANDICAP

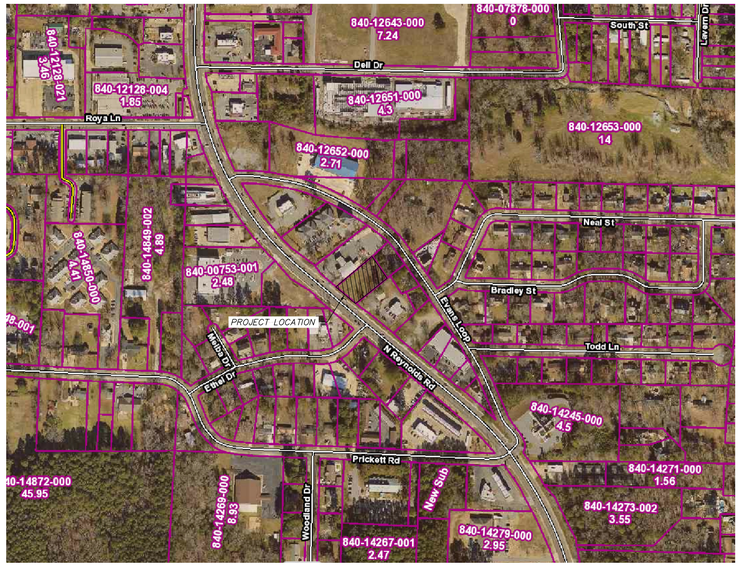
IMPERVIOUS AREA COVERAGE: 90% MAXIMUM

CONSTRUCTION DRAWINGS

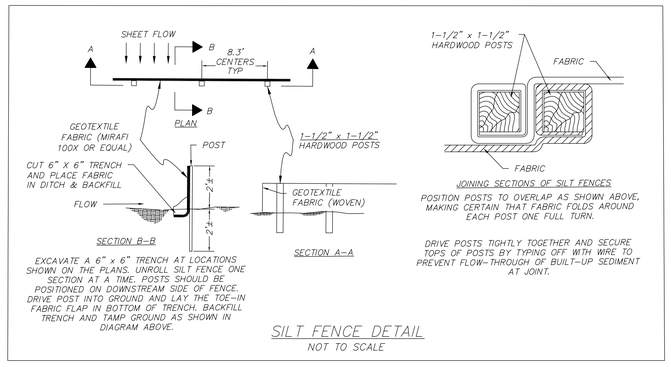
PROPOSED SCOOTER'S COFFEE
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-016225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 662.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 205 AT PAGE 331, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 121.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 53 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.



VICINITY MAP (NTS)



SILT FENCE DETAIL
NOT TO SCALE

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

SITE INFORMATION:
PARCEL: 840-14249-000
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
618-656-9251

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SURVEYOR:
MCALISTER ENGINEERING
4508 STADIUM BLVD, SUITE D
JONESBORO, AR 72404

DRAWING INDEX

C0.0 COVER SHEET
C2.0 PROPOSED SITE PLAN
C3.0 LANDSCAPE PLAN
C5.0 ALTA SURVEY

LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 9/14/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
WILSON D. WAGGONER
NUMBER PE-21001
PROFESSIONAL ENGINEER

Title: COVER SHEET
1612 LINWOOD DRIVE
PARAGOULD, AR 72450

Client:

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

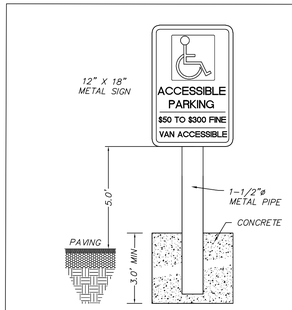
DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION

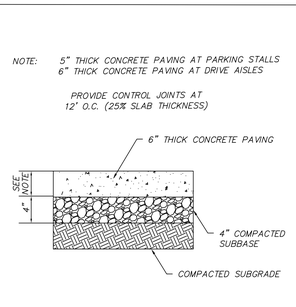
PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C0.0



ACCESSIBLE PARKING SIGN
NOT TO SCALE



CONCRETE PAVING SECTION
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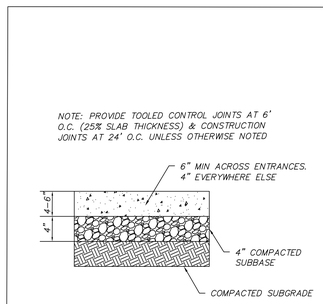

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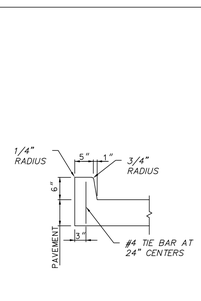

CONCRETE BARRIER CURB SECTION
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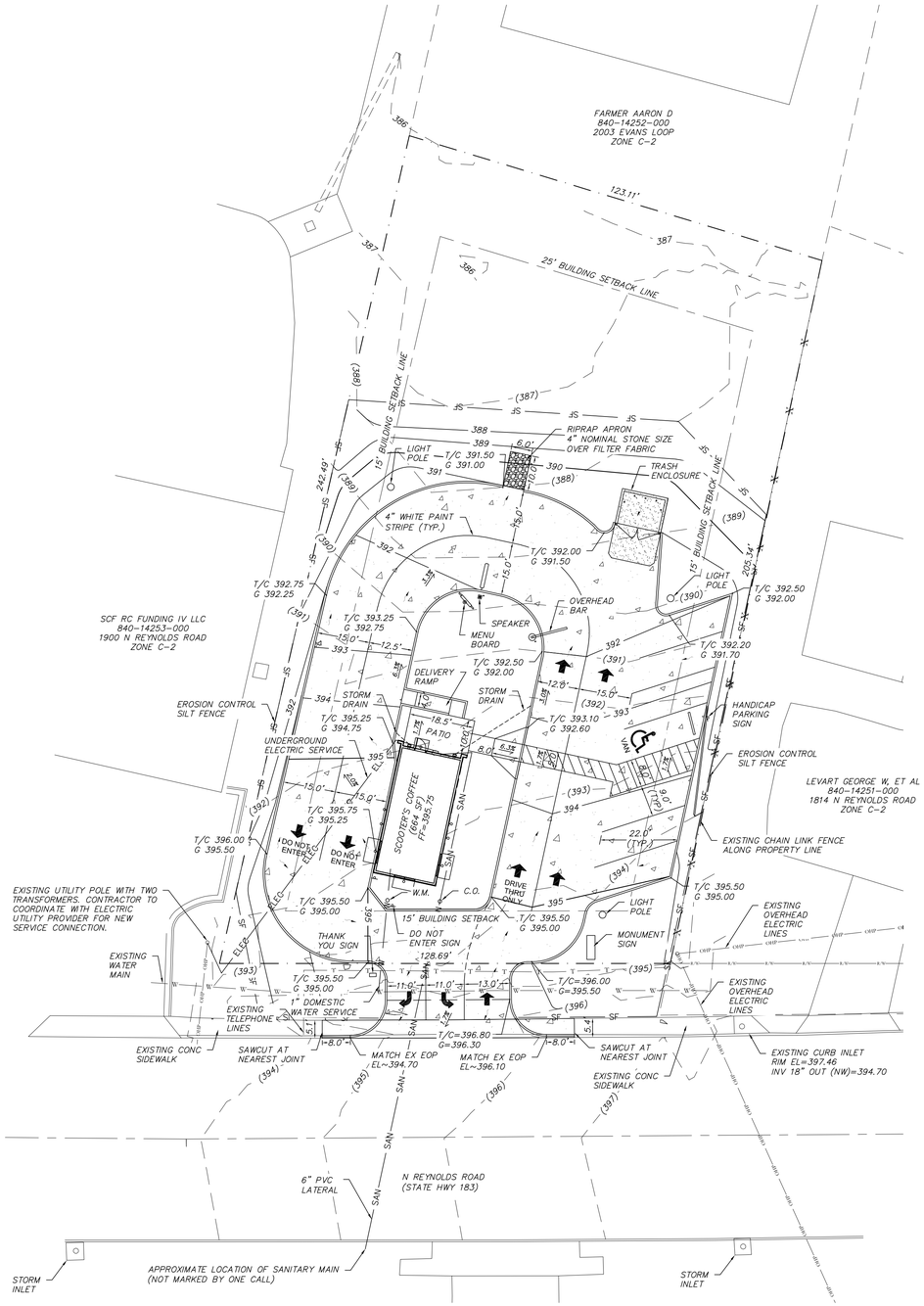

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

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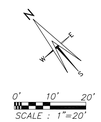
LEGEND

	PROPOSED CONCRETE PAVEMENT
ELEC	PROPOSED ELECTRIC SERVICE
W	PROPOSED WATER SERVICE
SAN	PROPOSED SANITARY SERVICE
ST	PROPOSED STORM DRAIN
SF	EROSION CONTROL SILT FENCE
T/C	TOP OF CURB
G	GRADE/BOTTOM OF FACE OF CURB
(XXX)	EXISTING GRADE ELEVATION
XXX	PROPOSED GRADE ELEVATION



ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 9/14/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
WILSON D. WAGGONER
NUMBER PE-21001
PROFESSIONAL ENGINEER

Title: PROPOSED SITE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C2.0

SHEET 2 OF 4

LANDSCAPE CODE

SECTION IV: MINIMUM LANDSCAPING CRITERIA

	Residential Subdivision	C-1	C-2	PUD
Trees	N/A	1/each 1/3 acre or Fraction	1/each ½ acre or Fraction	X
Evergreens	N/A	1/2,000 SF	1/2,000 SF	X
Bedding Plants Or Ground Cover in Containment	Primary Entrance Must be Landscaped	100 Square Foot Minimum	100 Square Foot Minimum	X
Lawn (Grass)	N/A	Options	Options	X
Open Space Natural or Landscaping	100 SF/lot	N/A	N/A	X

(X=Landscape design must be approved)

No Planting within 5 foot of a fire hydrant.
Spacing will be 40' between trees.
Tree must be a minimum 3" in diameter @ the base and 12'+ tall.
Existing trees meeting the minimum size can be counted to meet the criteria.
No trees can be planted within thirty-foot (30') of a property corner or driveway.
Shrubs along street right-of-way lines cannot exceed thirty inches (30") in height.
Separations noted in the zoning regulations must be bermed or screened with landscaping and ground cover or grass.

SECTION V. PLANT MATERIAL SELECTION

A. The following list of trees are those which have been found to be best suited to the central Arkansas area. There are many more trees that are strong growth trees but the ones in the following lists require the least amount of maintenance. Additional trees may be selected for use in required landscape areas when proven to be hearty in this area.

1. Primary List:

Common Name	Scientific Name
Bald Cypress	Taxodium distichum
Chinese Elm	Ulmus parvifolia
Flowering Bradford Pear	Pyres Calleryana 'Bradford'
Shumard Oak	Quercus shumardi
Ginkgo (male)	Ginkgo biloba
Honey Locust	Gleditsia triacanthos
Loblolly Pine*	Pinus Taeda
Pin Oak	Quercus palustris
Sawtooth Oak	Quercus acutissima
Sugar Hackberry	Celtis laevigata
Willow Oak	Quercus phellos

*Evergreen trees

2. Secondary List:

Common Name	Scientific Name
American Holly*	Ilex opaca
Crab Apple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Dogwood	Comus florida
Hawthorn	Crataegus opaca
Redbud	Cercis Canadensis
River Birch	Betula nigra
Southern Magnolia*	Magnolia grandiflora
Swamp Red Maple	Acer reburm
Water Oak	Quercus nigra
Weeping Willow	Salix babylonica

*Evergreen Trees

2. The Grasses listed in subsection (1) above are the more commonly used grasses adjacent to vehicular use areas.

E. Ground Covers

1. The following primary list of ground covers are recommended for use to comply with this ordinance.

Common Name	Scientific Name
Dwarf Nandina	N. domestica "Harbour Dwarf"
Junipers	Juniperus species
Liriope	Liriope Muscari
Memorial Rose	Rosa Wichcraiana
Mondo Grass	Ophiopogon japonicus
Periwinkle	Vinca minor
Spreading Euonymus	E. fortunei "Radicans"

2. Secondary List: (This list can be used but must be confined to a bed.)

Common Name	Scientific Name
Carolina Jessamine	Gelsemium sempervirens
Dwarf Bamboo	Arundinaria pygmaea
English Ivy	Hedera Helix
Honeysuckle	Lonicera sempervirens

SECTION VI. MAINTENANCE

1. The developer, his successor and the property owner shall be responsible for regular weeding, irrigating, fertilizing, pruning and other maintenance of all planting on private property of a development. Plant materials which are installed for compliance with this ordinance, both on private property and the public right-of-way, which exhibit evidence of insect pests, disease and/or damage, shall be appropriately treated and dead plant materials shall be replaced.

2. The owner of land abutting a constructed public right-of-way shall be responsible for the tree planting strip lying between the private property line and the curbline or backslope line and shall be required to regularly weed, mow, prune and maintain plantings in compliance with good horticultural practices.

3. If the owner of land thus situated as in (2) above, neglects or refuses to maintain the areas as prescribed, after having been given ten (10) days notice in writing to maintain by the City, the owner shall be guilty of a misdemeanor.

SECTION VII. PLANNING COMMISSION APPROVAL

The City of Bryant Planning Commission will review and act on all landscaping

B. Trees/shrubs on public right-of-way

All tree/shrub species listed in A, 1-2 and C, 1-2 may be used in the public right-of-way,

C. Shrub Species

The following list of shrubs are those which have been found to be best suited to this area and yet requiring the least amount of maintenance. This list along with the secondary list are those shrubs which may be planted in the required landscape area. Additional selective shrubs may be substituted when proven to be hearty in this region.

1. Primary List:

Common Name	Scientific Name
Evergreen Hollies	Ilex species
Nandina	Nandina domestica

2. Secondary List:

Common Name	Scientific Name
Abelia	Abelia grandiflora
Boxwood	Busus sempervirons
Chinese Photinia	Photinia serrulata

Note: Secondary listed shrubs require increased maintenance

D. Grasses

1. The following grasses may be used to comply with this ordinance:

Mayer Z-52	Zoysia	Fescue
Bermuda Grass	Bermuda Grass hybrids	
Centipede	St. Augustine	

GENERAL NOTES

THE OWNER MAY CONTRACT WITH A LOCAL LANDSCAPER TO SUBSTITUTE SPECIES AND LOCATIONS OF THE PLANTINGS BUT THE CODE SHALL BE FOLLOWED FOR THE BUFFERS AND INTERNAL PLANTINGS PER CITY CODE.

LOT AREA

27,806± SQ.FT.
0.64± AC.

PLANTING SUMMARY

EVERGREEN TREES

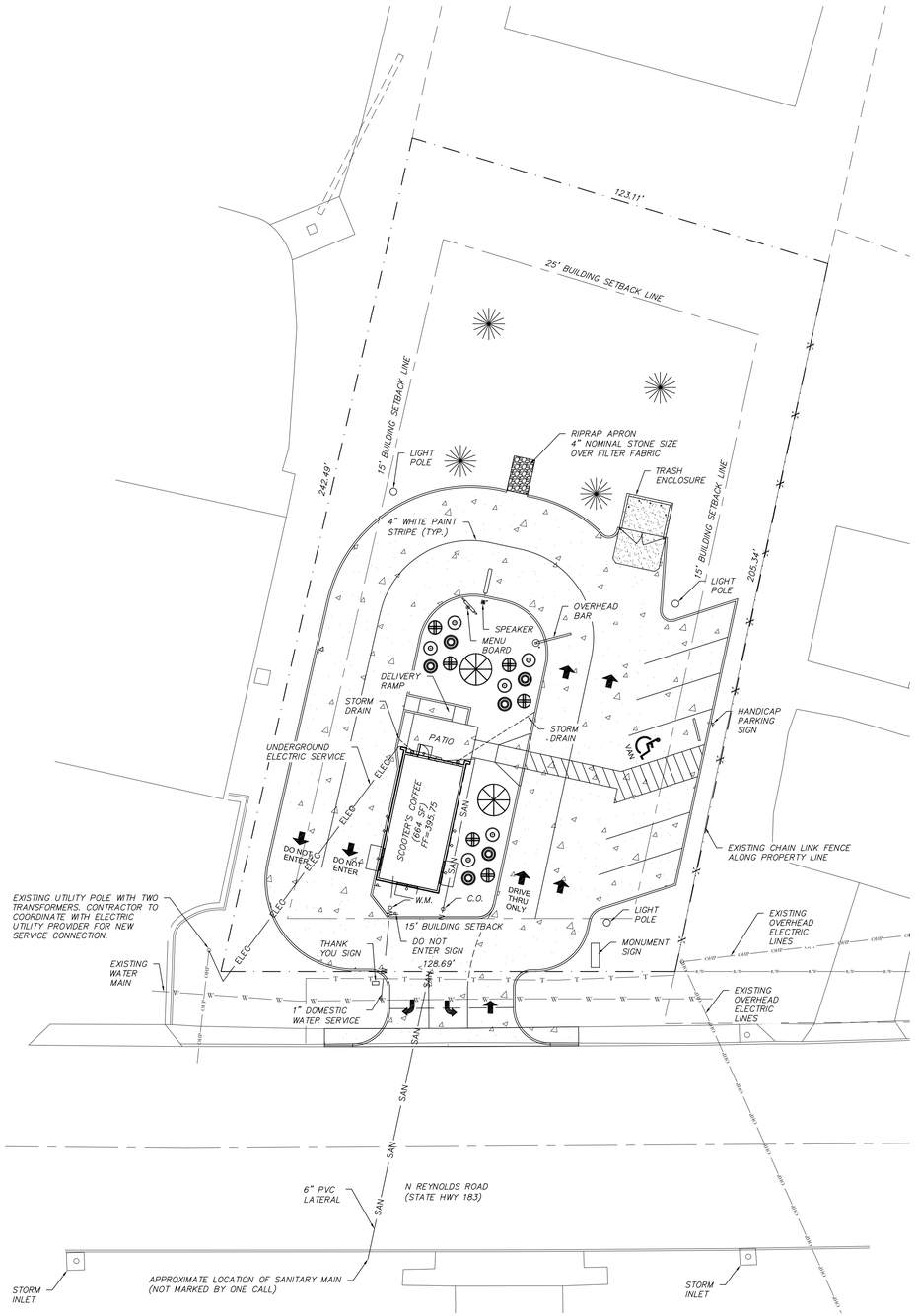
NAME	QTY.	SIZE	COMMENTS
LLEX OPACA AMERICAN HOLLY	14	24" BOX	8' HT. 2" CAL. MIN.

CANOPY TREES

NAME	QTY.	SIZE	COMMENTS
BETULA NIGRA RIVER BIRCH	2	24" BOX	8' HT. 2" CAL. MIN.

SHRUBS

NAME	QTY.	SIZE	COMMENTS
BUSUS SEMPERVIRENS BOXWOOD	6	5 GAL	24"–30" HT.
NANDINA DOMESTICA NANDINA	6	5 GAL	24"–30" HT.
LLEX SPECIES EVERGREEN HOLLY	6	5 GAL	24"–30" HT.



LEGEND

- PROPOSED CONCRETE PAVEMENT
- ELEC — PROPOSED ELECTRIC SERVICE
- W — PROPOSED WATER SERVICE
- SAN — PROPOSED SANITARY SERVICE
- ST — PROPOSED STORM DRAIN
- SF — EROSION CONTROL SILT FENCE

0' 10' 20'
SCALE : 1"=20'

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

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REVISION	DATE	NO.

PROJECT NO. 2235801

DRAWN	SCALE
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CHECKED	DATE
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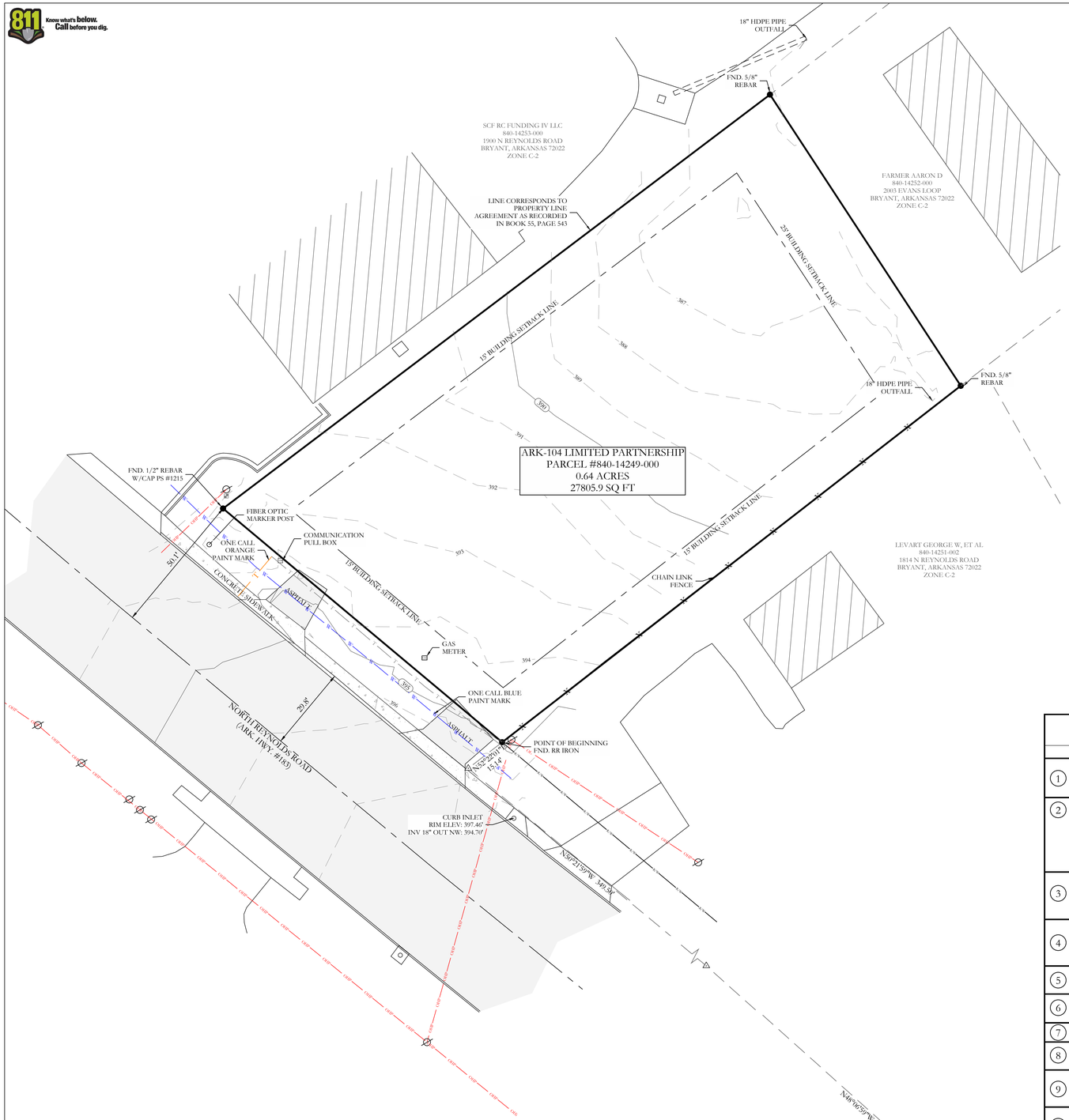
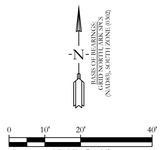
C2.0

SHEET 3 OF 4

811 Know what's below. Call before you dig.





PROPERTY DESCRIPTION

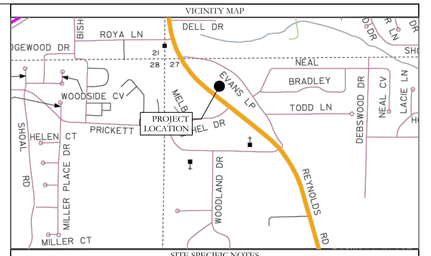
LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-006225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 205 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

TITLE COMMITMENT PROVIDED BY: CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NO. 22-022518-475, EFFECTIVE DATE: JUNE 12, 2022, 8:00AM

	SCHEDULE B PART II - EXCEPTIONS	EFFECT ON SURVEY
1	ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET.	NOT SURVEY RELATED
2	STANDARD EXCEPTIONS: (A)RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. (B)EASEMENTS OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. (C)ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES AND ANY MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY AND INSPECTION OF THE PREMISES. (D)ANY LIEN OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS.	AS SHOWN
3	LOSS ARISING FROM ANY OIL, GAS OR MINERAL INTERESTS, CONVEYED, RETAINED, ASSIGNED OR ANY ACTIVITY ON OR DAMAGE TO THE INSURED LAND CAUSED BY THE EXERCISE OF SUB-SURFACE RIGHTS OR OWNERSHIP, INCLUDING BUT NOT LIMITED TO THE RIGHT OF INGRESS AND EGRESS FOR SAID SUB-SURFACE PURPOSES.	NOT SURVEY RELATED
4	LOSS ARISING FROM ANY JUDGMENT LIENS OR OTHER LIENS OF RECORD IN ANY UNITED STATES DISTRICT COURT OR BANKRUPTICY COURT IN THE STATE OF ARKANSAS AS OF THE EFFECTIVE DATE HEREOF THAT ARE NOT REFLECTED IN THE REAL PROPERTY RECORDS OF THE COUNTY IN WHICH THE PROPERTY IS LOCATED.	NOT SURVEY RELATED
5	TAXES AND ASSESSMENTS FOR THE YEAR(S) 2022 AND THEREAFTER, WHICH ARE NOT YET DUE AND PAYABLE, PLUS ANY PENALTIES AND INTEREST WHICH MAY ACCRUE.	NOT SURVEY RELATED
6	FUTURE ASSESSMENTS OF SALEM FIRE PROTECTION DISTRICT NO. 1 (AKA SALEM FIRE PROTECTIONDISTRICT NO. 59).	NOT SURVEY RELATED
7	FUTURE ASSESSMENTS OF THE SALINE WATERSHED REGIONAL WATER DISTRIBUTION DISTRICT.	NOT SURVEY RELATED
8	ANY INACCURACY IN THE AREA, SQUARE FOOTAGE, OR ACREAGE OF LAND DESCRIBED IN SCHEDULE A. THE COMPANY DOES NOT INSURE THE AREA, SQUARE FOOTAGE, OR ACREAGE OF THE LAND.	ACREAGE AS SHOWN
9	EASEMENT IN FAVOR OF SOUTHWESTERN BELL TELEPHONE AS SET FORTH IN EASEMENT DATED FEBRUARY 24, 1979, AND RECORDED ON FEBRUARY 26, 1979, IN BOOK 56 AT PAGE 353 IN THE RECORDS OF SALINE COUNTY, ARKANSAS.	EASEMENT DESCRIPTION IS AMBIGUOUS AND CANNOT BE PLOTTED ACCURATELY
10	PROPERTY LINE BY AND BETWEEN RAYMOND E EVANS AND SHIRLEY M EVANS AND JAMES ELLIOT AND LOIS A ELLIOTT, DATED DECEMBER 8, 1978, RECORDED JANUARY 3, 1979, IN BOOK 55, PAGE 543 OF THE CONVEYANCE RECORDS OF SALINE COUNTY, ARKANSAS	PERTAINS TO THE NORTH WESTERLY PROPERTY LINE AS SHOWN

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M)- Measured
(P) - Plat/Deed
- Fence

VICINITY MAP



SITE SPECIFIC NOTES

OWNER(S) OF RECORD:
ARK-104 LIMITED PARTNERSHIP

STREET ADDRESS:
1816 NORTH REYNOLDS ROAD, BRYANT, ARKANSAS 72022

COUNTY PARCEL ID:
840-14249-000

ZONING DISTRICT:
C-2 GENERAL COMMERCIAL DISTRICT

BUILDING SETBACKS PER CITY REGULATIONS*:
FRONT: 15 FEET
REAR: 25 FEET
SIDE: 15 FEET

MAX LOT COVERAGE: 40%

MAX HEIGHT: 4 STORIES

LOCAL UTILITY PROVIDERS:
WATER SERVICE: CITY OF BRYANT
SEWER SERVICE: CITY OF BRYANT
ELECTRIC SERVICE: ENTERGY
GAS SERVICE: CENTERPOINT ENERGY

GENERAL NOTES

GENERAL SURVEYOR'S NOTES:
ALL LISTED MEASUREMENTS ARE AS MEASURED IN THE FIELD. FOR RECORD MEASUREMENTS, SEE DEED(S) OR PLAT(S) OF RECORD.

ADJACENT OWNERSHIP IS LISTED AS FILED IN THE SALINE COUNTY TAX ASSESSOR'S OFFICE AND IS SHOWN FOR REFERENCE ONLY.

THIS SURVEY IS FOR THE EXCLUSIVE USE AND BENEFIT OF PARTIES SHOWN HEREIN. USE OR DUPLICATION OF THIS DOCUMENT BY ANY OTHER PARTIES IS PROHIBITED AND VOIDS SAID DOCUMENT.

NOTE: THIS SURVEY IS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS. NO INVESTIGATION OR INDEPENDENT SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. ANY LISTED EASEMENTS OR RIGHTS-OF-WAY WERE DETERMINED FROM LISTED REFERENCE DOCUMENTS AND HAVE NOT BEEN CHECKED FOR ACCURACY OR CORRECTNESS.

ONLY LISTED REFERENCE DOCUMENTS HEREON WERE USED AND CONSIDERED AS A PART OF THIS SURVEY. OTHER DOCUMENTS, IF ANY, COULD FURTHER AFFECT THIS TRACT.

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Overhead Power
- Fence
- Computed point
(M)- Measured
(P) - Deed/Plat
- Grate

FLOOD STATEMENT

NO PORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL # 05119C0441G , DATED: 07/06/2015 .

ALTA/NSPS CERTIFICATION

TO CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP; AN ARKANSAS LIMITED PARTNERSHIP

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6 (A), 6(B), 7(A), 8, 11(A), 11(B), 13, 14, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 20, 2022.

WM. CORBITT R. SHOFFNER
ARKANSAS PS #1664
CORBITT@HOPECONSULTING.COM

DATE

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

REGISTERED
STATE OF ARKANSAS
No. 1664
SIGNATURE
WILLIAM CORBITT R. SHOFFNER
PROFESSIONAL LAND SURVEYOR

ORIGINAL SIGNATURE ON FILE

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

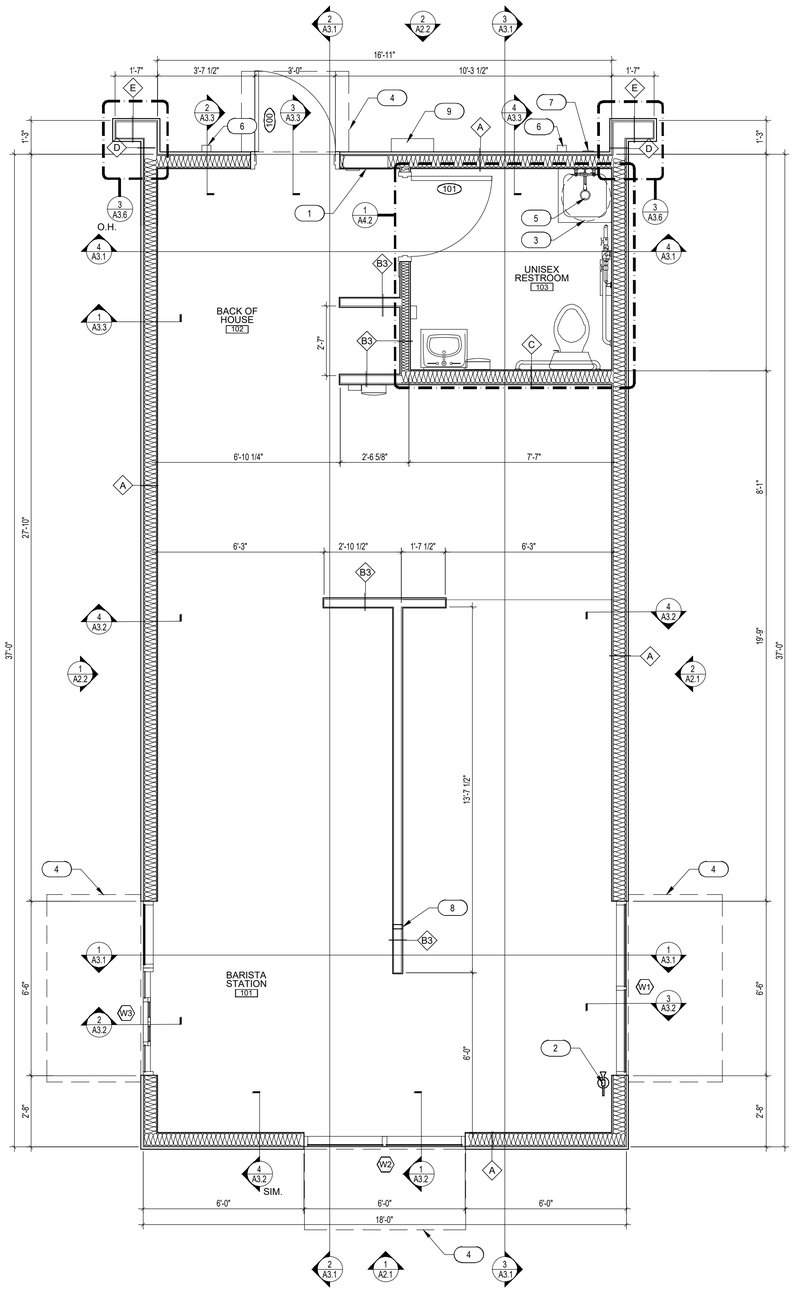
FOR USE AND BENEFIT OF:
CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

ALTA/NSPS LAND TITLE SURVEY

PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS

DATE: 07/25/2022		C.A.D. BY: JPP					DRAWING NUMBER:	
REVISED:		CHECKED BY:					22-0882	
SHEET:		SCALE: 1" = 20'						
500	01S	14W	0	27	400	62	1664	

© Land Design Solutions, LLC 2022 | 117 S. Market St. | Benton, AR 72015 | 501.315.2626 | Hope Consulting, Inc. | 117 S. Market St. | Benton, AR 72015 | 501.315.2626



1 DIMENSION FLOOR PLAN

SCALE: 3/8" = 1'-0"

GENERAL NOTES

A. PROVIDE PAINTED METAL ACCESS PANELS IN WALLS AND CEILINGS AT CONCEALED ITEMS SUCH AS VALVES, SHOCK ABSORBERS, CONTROLS, SWITCHES, ETC. AND ANY ITEMS WHICH MAY REQUIRE ACCESS NOT OTHERWISE PROVIDED.
B. GENERAL CONTRACTOR WILL FURNISH AND INSTALL 5LB MULTIPURPOSE DRY CHEMICAL (2A/10BC) RATED FIRE EXTINGUISHERS WITH MOUNTING BRACKETS AND ACCESSORIES AT 4'-0" A.F.F. AS REQUIRED BY GOVERNMENTAL AUTHORITIES. MAXIMUM TRAVEL DISTANCE OF 75'-0" FOR PLACEMENT.
C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE, AND CONFIRM ALL FLOOR SINK, UNDERGROUND / OVERHEAD PLUMBING AND ELECTRICAL STUB-UPS.
D. SEE ROOM FINISH SCHEDULE FOR ALL ROOM FINISHES, SHEET A1.1.
E. SEE KITCHEN DRAWINGS FOR EQUIPMENT INFORMATION, SHEET K1.0
F. GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION AND SAW CUT JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE - SEE JOINT SEALERS SPECIFICATIONS.
G. ALL ITEMS SUCH AS LIGHT SWITCHES, FIRE EXTINGUISHERS, FIRE ALARM PULLS AND OTHER ITEMS TO BE LOCATED AS CLOSE AS POSSIBLE TO THE ADJACENT DOOR FRAME.
H. AT MOP SINK AND SINKS, PROVIDE 120 CLEANING SOLUTION DISPENSER ON HOSE BIBB SIDE.
I. THERE SHALL BE A MAXIMUM 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY CHANGE OF FLOORING MATERIALS. OFFSETS GREATER THAN 1/4" REQUIRE A MAXIMUM BEVELED SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
J. ALL DOORS ARE 4" OFF ADJACENT WALLS UNO.
K. ALL EXTERIOR DOOR LANDING GRADES SHALL HAVE A SMOOTH TRANSITION TO THE ADJACENT PAVED SURFACE, AND THE MAX. RUNNING AND CROSS SLOPE OF ALL LANDINGS WILL BE 2%.
L. PROVIDE THERMOMETER ACCURATE TO 2 DEGREES FAHRENHEIT IN REFRIGERATORS IF ONE IS NOT INCLUDED WITH FIXTURE.
M. ALL HAND SINKS MUST BE PROVIDED WITH A HAND WASHING SIGN, PAPER TOWEL DISPENSER AND HAND SOAP DISPENSER.
N. DOOR TAGS. REFER TO SCHEDULE ON SHEET A6.1. (#)
O. WINDOW TAG. REFER TO DETAILS ON SHEET A6.1. (#)

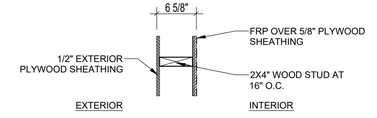
KEYNOTES - FLOOR PLAN (X)

1. NEW ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS
2. 2A-10BC MINIMUM RATED FIRE EXTINGUISHER, COORDINATE FINAL LOCATION WITH FIRE MARSHAL
3. WATER HEATER ABOVE, SEE PLUMBING DRAWINGS
4. LINE OF CANOPY ABOVE BY OTHERS
5. MOP SINK, SEE PLUMBING DRAWINGS
6. NEW 3"X4" MIN. DOWNSPOUT.
7. HOSE BIBB, SEE PLUMBING DRAWINGS.
8. CONDUIT CHASE IN WALL FOR NITRO, REF. 8/A5.2
9. MDP, REF. ELEC. - COORDINATE FINAL LOCATION TO ENSURE LOCATION DOES NOT INTERFERE WITH ROOF ACCESS BY LADDER

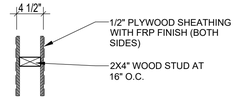
WALL LEGEND

FRAMING / DIMENSIONING NOTE:
ALL DIMENSIONS ARE TO FACE OF STUD, TYP.

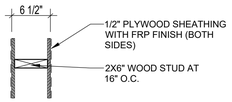
(A) EXTERIOR WALL:
HARDIE BOARD OVER WEATHER RESISTANT BARRIER (WRB) OVER EXTERIOR PLYWOOD SHEATHING OVER 2x6" WOOD STUDS @ 16" O.C., INTERIOR FACE: 5/8" PLYWOOD AND FRP PANEL TO 10'-6" A.F.F., PROVIDE BATT INSULATION PER COMCHECK IN ALL EXTERIOR WALLS.



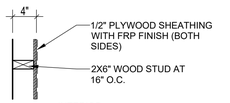
(B3) INTERIOR PARTITION WALL:
2x4" WOOD STUDS @ 16" O.C., 1/2" PLYWOOD WITH FRP PANEL FINISH TO 10'-6" A.F.F. (BOTH SIDES).
PROVIDE R-13 ACOUSTICAL BATT INSULATION AT RESTROOM.



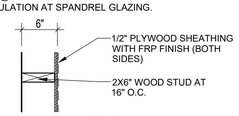
(B6) INTERIOR PARTITION WALL:
2x6" WOOD STUDS @ 16" O.C., 1/2" PLYWOOD WITH FRP PANEL FINISH TO 10'-6" A.F.F. (BOTH SIDES).
PROVIDE R-13 ACOUSTICAL BATT INSULATION AT RESTROOM.



(C3) PLUMBING PARTITION:
2x4" WOOD STUDS @ 16" O.C., 5/8" PLYWOOD AND FRP PANEL TO 10'-6" A.F.F.
PROVIDE BATT INSULATION AT SPANDREL GLAZING.



(C6) PLUMBING PARTITION:
2x6" WOOD STUDS @ 16" O.C., 5/8" PLYWOOD AND FRP PANEL TO 10'-6" A.F.F.
PROVIDE BATT INSULATION AT SPANDREL GLAZING.



(D) EXTERIOR WING WALL:
HARDIE BOARD OVER WEATHER RESISTANT BARRIER (WRB) OVER SHEATHING OVER 2x6" WOOD STUDS @ 16" O.C.

(E) EXTERIOR WING WALL:
HARDIE BOARD OVER WEATHER RESISTANT BARRIER (WRB) OVER SHEATHING OVER 2x8" WOOD STUDS @ 16" O.C.

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REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2592
09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
DIMENSION FLOOR PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

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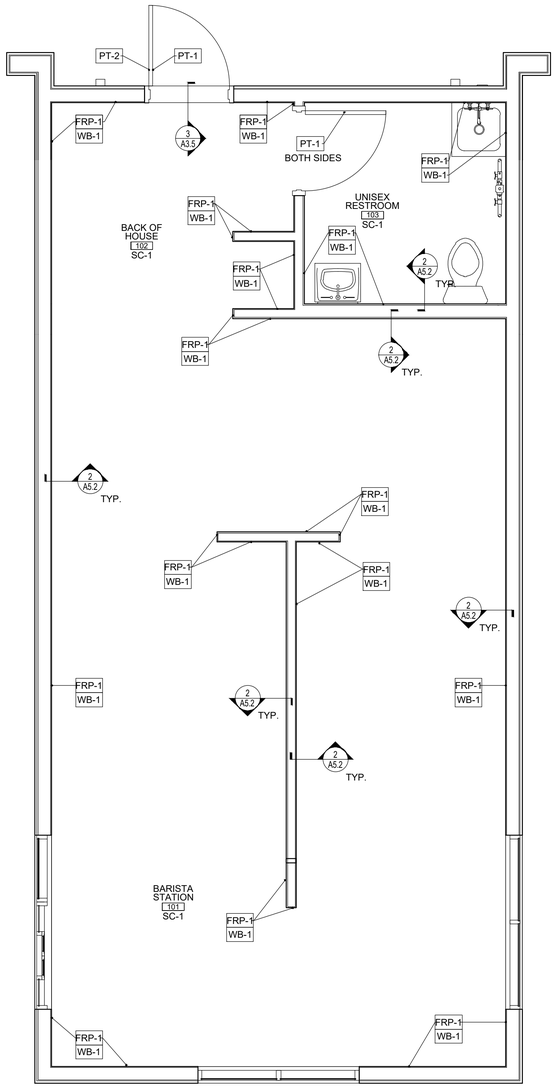

1 FINISH FLOOR PLAN

SCALE: 3/8" = 1'-0"

FINISH SCHEDULE

X

CODE	DESCRIPTION	MANUFACTURER	STYLE / PATTERN / COLOR	NOTES
FRP-1	FIBER REINFORCED PLASTIC	CRANE COMPOSITES	COLOR: SILVER (66) FINISH PEBBLE EMBOSSED	4X10 SHEETS INSTALL VERTICALLY
WB-1	VINYL WALL BASE	JOHNSONITE	40 BLACK B (4" H X .80" THICK)	PROVIDE SILICONE SEALANT AT FLOOR
WB-2	COVED	LATICRETE	SPARTACOTE COVE GEL	ALTERNATE AS REQUIRED BY JURISDICTION
SC-1	SEALED CONCRETE	LATICRETE	LEVEL 2 FINISH, RETRO SHIELD CLEAR SEALER CURCRETE	
F-1	CHIP XPL SYSTEM	LATICRETE	SPARTACOTE® CHIP XPL SYSTEM CHIP (FLAKE) BROADCAST SYSTEM	ALTERNATE AS REQUIRED BY JURISDICTION
PT-1	PAINT	SHERMAN WILLIAMS	SW7035 AESTHETIC WHITE FINISH: SEMI-GLOSS	INTERIOR DOOR AND INSIDE OF EXTERIOR DOOR
PT-2	PAINT	SHERMAN WILLIAMS	SW6992 - INKWELL FINISH: EGGSHELL	OUTSIDE OF EXTERIOR DOOR

NOTE:
NO ALTERATIONS ON FINISHES WITHOUT CORPORATE APPROVAL

GENERAL NOTES

A. REFER TO WALL SECTIONS AND ELEVATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.

C. ALL FINISHES SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THEIR USE, AS REQUIRED BY LOCAL CODES.

D. G.C SHALL CAULK JOINT BETWEEN CEILING GRID & FRP WALL PANELS IN ALL KITCHEN, JANITOR AND OFFICE AREAS.

E. ALL HOLLOW METAL DOORS AND FRAMES (U.N.O.), SHALL BE PRIMED & PAINTED

F. INSTALL MATERIAL OF THE LONGEST PRACTICAL LENGTHS & SIZES TO MINIMIZE THE NUMBER OF JOINTS

G. IF APPLICABLE, G.C. SHALL APPLY DIAMOND 35 SEALANT AND WAX TO ALL QUARRY TILE & COVE BASE. VERIFY WITH OWNER THE TIMING AND APPLICATION OF SEALER.

H. THE ARCHITECT ASSUMES THE GENERAL CONTRACTOR HAS INCLUDED IN HIS BID THE HIGHEST QUALITY AND GREATEST QUANTITY FOR THE PURPOSE OF RESOLVING ANY CONFLICTS IN THE CONSTRUCTION DOCUMENTS WHICH ARE IMPLIED OR UNDEFINED.

I. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANNER.

J. THE CONTRACTOR SHALL PROTECT ALL ADJACENT MATERIALS AND EQUIPMENT AGAINST DAMAGE FROM SPILLAGE, DRIPPING AND SPATTER OF COATING MATERIALS. REPLACE DAMAGED TILE AS REQUIRED. ALL BUILDING MATERIALS AND EQUIPMENT SHALL BE LEFT CLEAN, WITH ALL DAMAGED SURFACES CORRECTED. PROVIDE "WET PAINT" SIGNS TO INDICATE NEWLY PAINTED SURFACES.

K. ALL GROUT TO CONTAIN ACRYLIC ADDITIVE SEALER.

L. ALL FINISHES SHALL BE CLASS C WITH FLAME SPREAD INDEX OF 76-200 AND SMOKE DEVELOPMENT INDEX OF 0-450.

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09/01/2022

EST. 1998
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PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
FINISH FLOOR PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
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221329

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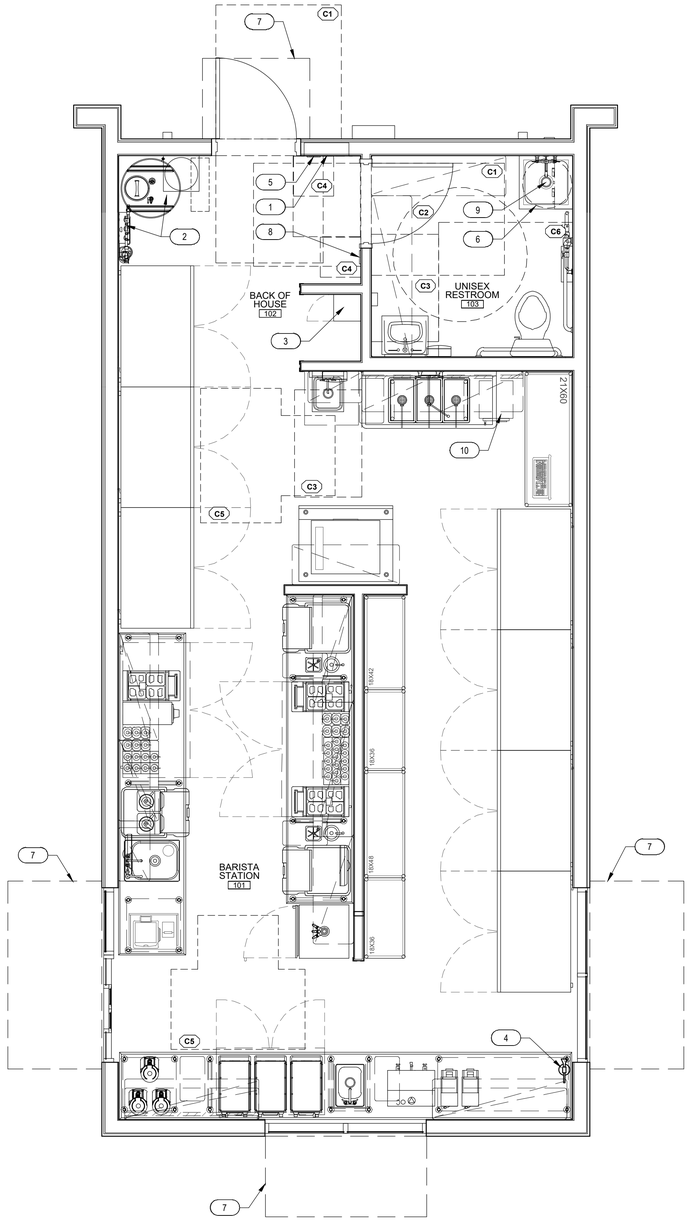


1 EQUIPMENT AND FURNISHINGS PLAN

SCALE: 3/8" = 1'-0"

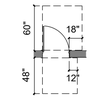
GENERAL NOTES

A. PROVIDE PAINTED METAL ACCESS PANELS IN WALLS AND CEILINGS AT CONCEALED ITEMS SUCH AS VALVES, SHOCK ABSORBERS, CONTROLS, SWITCHES, ETC. AND ANY ITEMS WHICH MAY REQUIRE ACCESS NOT OTHERWISE PROVIDED.
B. GENERAL CONTRACTOR WILL FURNISH AND INSTALL 5LB MULTIPURPOSE DRY CHEMICAL (2A/10BC) RATED FIRE EXTINGUISHERS WITH MOUNTING BRACKETS AND ACCESSORIES AT 4'-0" A.F.F. AS REQUIRED BY GOVERNMENTAL AUTHORITIES. MAXIMUM TRAVEL DISTANCE OF 75'-0" FOR PLACEMENT.
C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE, AND CONFIRM ALL FLOOR SINK, UNDERGROUND / OVERHEAD PLUMBING AND ELECTRICAL STUB-UPS.
D. SEE ROOM FINISH SCHEDULE FOR ALL ROOM FINISHES, SHEET A2.2.
E. SEE KITCHEN DRAWINGS FOR EQUIPMENT INFORMATION, SHEET K1.0
F. GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION AND SAW CUT JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE - SEE JOINT SEALERS SPECIFICATIONS.
G. ALL ITEMS SUCH AS LIGHT SWITCHES, FIRE EXTINGUISHERS, FIRE ALARM PULLS AND OTHER ITEMS TO BE LOCATED AS CLOSE AS POSSIBLE TO THE ADJACENT DOOR FRAME.
H. AT MOP SINK AND SINKS, PROVIDE 120 CLEANING SOLUTION DISPENSER ON HOSE BIBB SIDE.
I. THERE SHALL BE A MAXIMUM 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY CHANGE OF FLOORING MATERIALS. OFFSETS GREATER THAN 1/4" REQUIRE A MAXIMUM BEVELED SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
J. ALL DOORS ARE 4" OFF ADJACENT WALLS UNO.
K. ALL EXTERIOR DOOR LANDING GRADES SHALL HAVE A SMOOTH TRANSITION TO THE ADJACENT PAVED SURFACE, AND THE MAX. RUNNING AND CROSS SLOPE OF ALL LANDINGS WILL BE 2%.
L. PROVIDE THERMOMETER ACCURATE TO 2 DEGREES FAHRENHEIT IN REFRIGERATORS IF ONE IS NOT INCLUDED WITH FIXTURE.
M. ALL HAND SINKS MUST BE PROVIDED WITH A HAND WASHING SIGN, PAPER TOWEL DISPENSER AND HAND SOAP DISPENSER.

KEYNOTES - FLOOR PLAN (X)

1. NEW ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS
2. R.O. SYSTEM, SEE A5.2 AND SEE PLUMBING DRAWINGS
3. 4 DOOR EMPLOYEE LOCKERS ANCHORED TO WALL BY GC
4. 2A-10BC MINIMUM RATED FIRE EXTINGUISHER
5. PROVIDE TACTILE EXIT SIGN AT EXIT DISCHARGE
6. WATER HEATER ABOVE, SEE PLUMBING DRAWINGS
7. LINE OF CANOPY ABOVE BY OTHERS
8. ACCESSIBLE RESTROOM SIGN
9. MOP SINK, SEE PLUMBING DRAWINGS
10. FLOOR SAFE BY OWNER, BOLTED TO FLOOR BY G.C.

CLEARANCE KEYNOTE (XX)



C1 DOOR WITH A CLOSER AND A LATCH



C2 CIRCULAR TURNABOUT



C3 CLEAR FLOOR SPACE



C4 TACTILE SIGNS



C5 T-TURN



C6 WATER CLOSET

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09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EQUIPMENT AND FURNISHINGS PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
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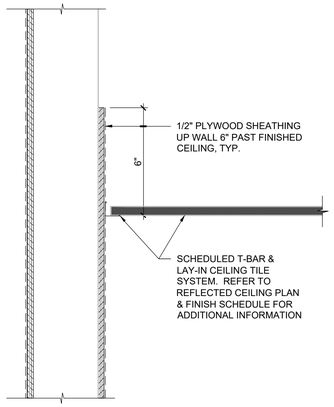
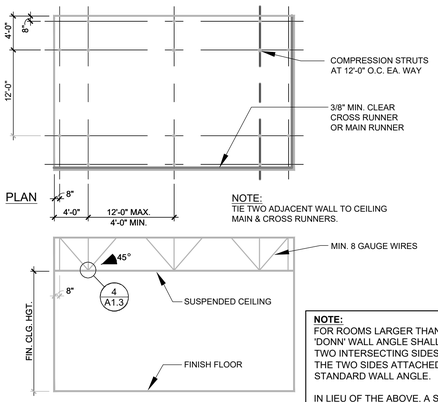


2 SUSPENDED LAY-IN CEILING AT KITCHEN

SCALE: N.T.S.

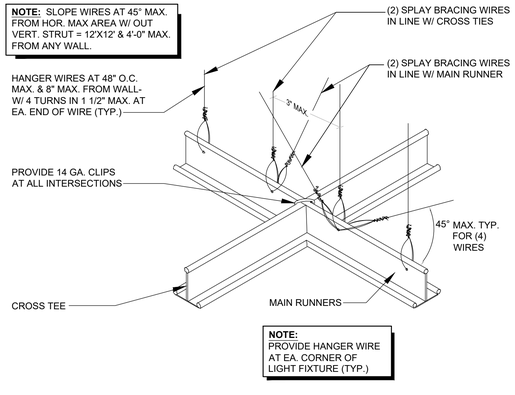


NOTE:
FOR ROOMS LARGER THAN 25' X 25', A 2" 'DONN' WALL ANGLE SHALL BE USED AT TWO INTERSECTING SIDES, OPPOSITE THE TWO SIDES ATTACHED TO STANDARD WALL ANGLE.

IN LIEU OF THE ABOVE, A STABILIZER BAR MAY BE USED ABOVE GRID OR GRID MAY BE TIED TOGETHER WITH 18 GA. WIRE FROM RUNNER TO RUNNER, CONTINUOUSLY AT THE TWO SIDES.

3 TYPICAL CEILING SUSPENSION SYSTEM

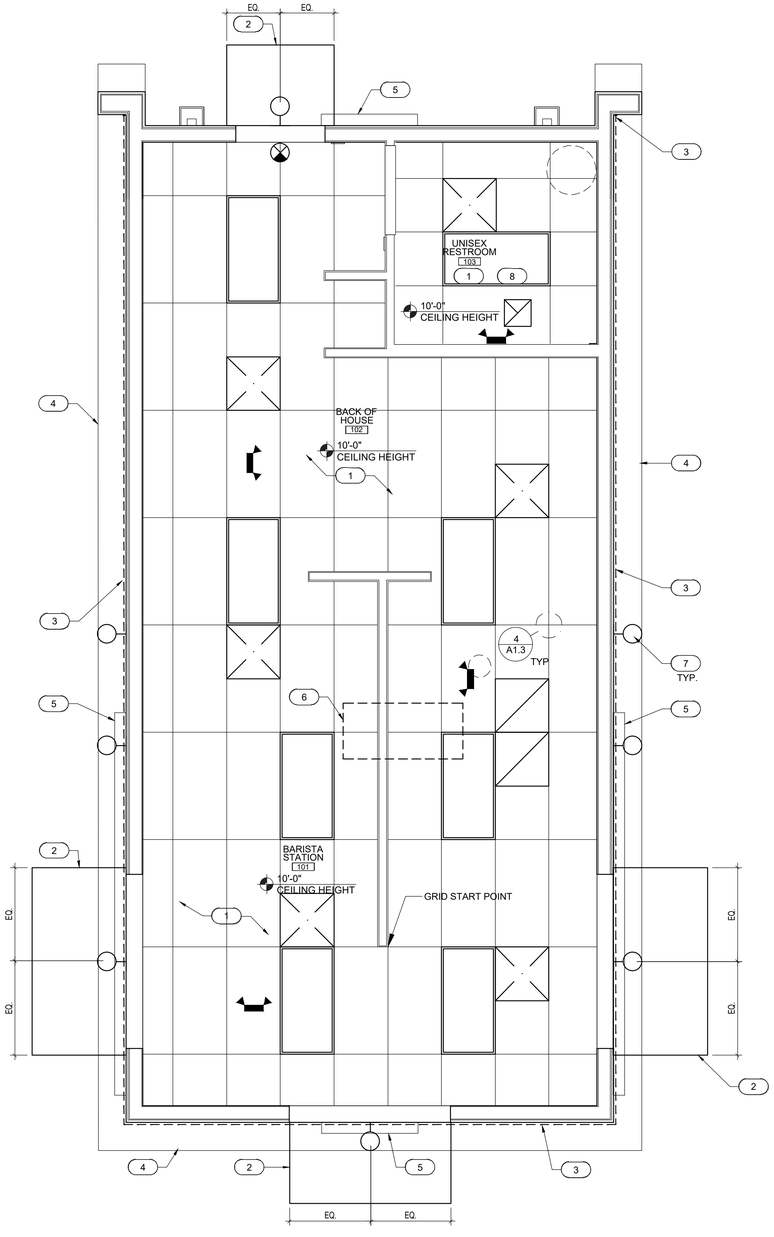
SCALE: N.T.S.



NOTE:
PROVIDE HANGER WIRE AT EA. CORNER OF LIGHT FIXTURE (TYP.)

4 SUSPENDED LAY-IN ACOUSTIC CEILING

SCALE: N.T.S.



1 REFLECTED CEILING AND LIGHTING LOCATION PLAN

SCALE: 3/8" = 1'-0"

CEILING LEGEND

SYMBOL	FIXTURE	NOTES
	2'x4' SURFACE MOUNTED LIGHT FIXTURE WITH PRISMATIC LENS	MOUNTING - LAY-IN GRID
	SUPPLY AIR GRILLE TITUS TMS 3 BLADE DIFFUSER OR SIMILAR	MOUNTING - LAY-IN GRID
	RETURN AIR RH45T COMMERCIAL T-BAR ALUMINUM GRILLE	MOUNTING - LAY-IN GRID
	TOILET ROOM EXHAUST FAN	MOUNTING - RECESSED IN CEILING 10' A.F.F
	EXTERIOR WALL SCONCE	
	EXTERIOR EMERGENCY WALL SCONCE	
	LED EXIT SIGN	
	EMERGENCY LIGHT W/BUG EYE	
	PERIMETER LED STRIP LIGHT	

NOTE: ALL LIGHTS TO BE PURCHASED BY FRANCHISEE OR GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.

CEILING MATERIAL LEGEND

ITEM	MFR (OR EQUAL)	MODEL NUMBER
TYPE "A"	ARMSTRONG	24" x 48" ARMSTRONG KITCHEN ZONE OR EQUAL TILES TO BE SMOOTH AND WASHABLE

GENERAL NOTES

A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.

B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NECESSARY REQUIREMENTS.

C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS. ALL FLUORESCENT FIXTURE BALLASTS SHALL BE HIGH FREQUENCY ELECTRONIC BALLASTS WITH A "TOTAL HARMONIC DISTORTION: OF LESS THAN 20%, REGARDLESS OF THE NUMBER OF LAMPS CONNECTED TO EACH BALLAST AND SHALL HAVE CBM LABEL. ALL FLUORESCENT FIXTURES INSTALLED SHALL INCORPORATE BALLAST PROTECTION. ALL FLUORESCENT BALLASTS SHALL HAVE AN AUDIBLE NOISE RATING OF "CLASS A" OR BETTER. ALL FLUORESCENT BALLASTS SHALL HAVE A POWER FACTOR GREATER THAN 98% WHEN USED WITH PRIMARY LAMP.

D. REFER TO SPECIFICATIONS FOR ROOF ASSEMBLY.

CEILING SPECIFICATION
ACOUSTICAL CEILING SYSTEM
EXPOSED TEE GRID USG DOWN DX GRID SYSTEMS AS MANUFACTURED BY USG INTERIORS OR EQUIVALENT.

HANGER WIRE, MINIMUM 12 GA. AWG GALVANIZED SOFT ANNEALED, MILD STEEL WIRE.

HANGER CUPS, PREFABRICATED METAL CLAMPS FOR FASTENING TO STRUCTURAL STEEL MEMBERS.

KEYNOTES- REFLECTED CEILING (#)

1. NEW 2'X4' WASHABLE LAY-IN CEILING TILES. (FIRE RATING - CLASS A)
2. RED CANVAS AWNING FURNISHED AND INSTALLED BY OTHERS
3. PERIMETER LED AT EXTERIOR SOFFIT
4. BREAK METAL SOFFIT & CORNICE
5. SIGNAGE FURNISHED AND INSTALLED BY OTHERS. UNDER A SEPARATE PERMIT.
6. AIR HANDLER (STRAP MOUNTED ABOVE CEILING), REF. MEP
7. EXTERIOR LIGHTING, SEE ELEVATIONS, SEE ALSO ELECTRICAL DRAWINGS.
8. GRID TO BE CENTERED IN ROOM AS SHOWN

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PROJECT ADDRESS:
1816 N Reynolds Rd.
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REVISIONS:

TITLE:
REFLECTED CEILING & LIGHTING LOCATION PLAN

KIOSK PROTOTYPE:
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MAY 2022

DATE:
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221329

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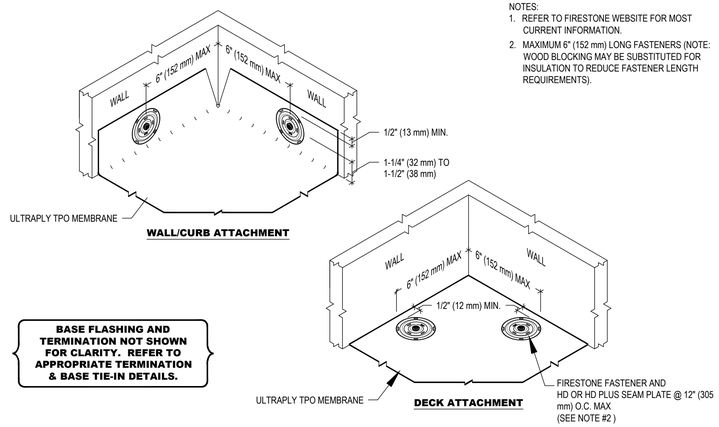
A1.3

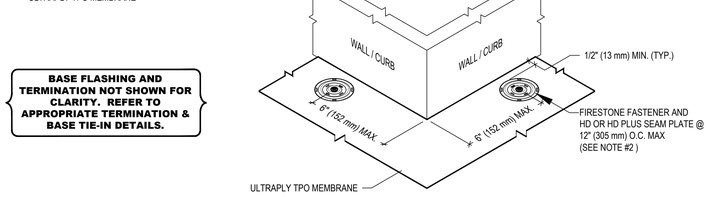


NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).

BASE FLASHING AND TERMINATION NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

2 MEMBRANE SECUREMENT AT INSIDE CORNER

SCALE: NTS



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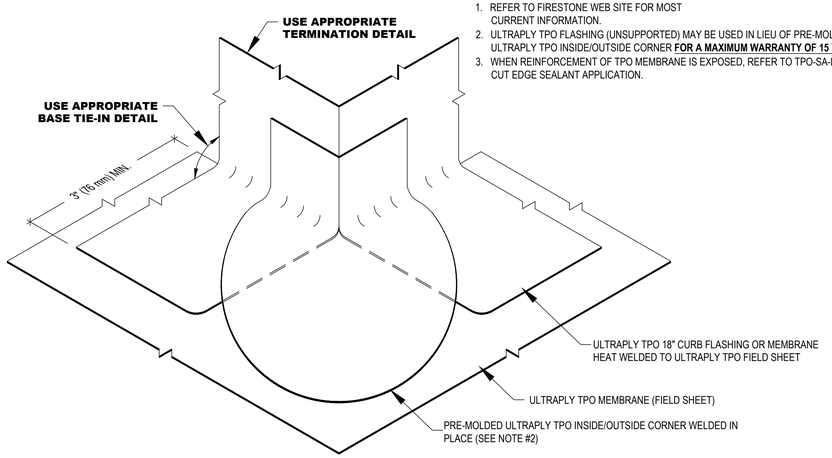
3 MEMBRANE SECUREMENT AT OUTSIDE CORNER

SCALE: NTS



NOTES:
1. REFER TO FIRESTONE WEB SITE FOR MOST CURRENT INFORMATION.
2. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER **FOR A MAXIMUM WARRANTY OF 15 YEARS.**
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO TPO-SA-LS-7 FOR CUT EDGE SEALANT APPLICATION.

4 OUTSIDE CORNER

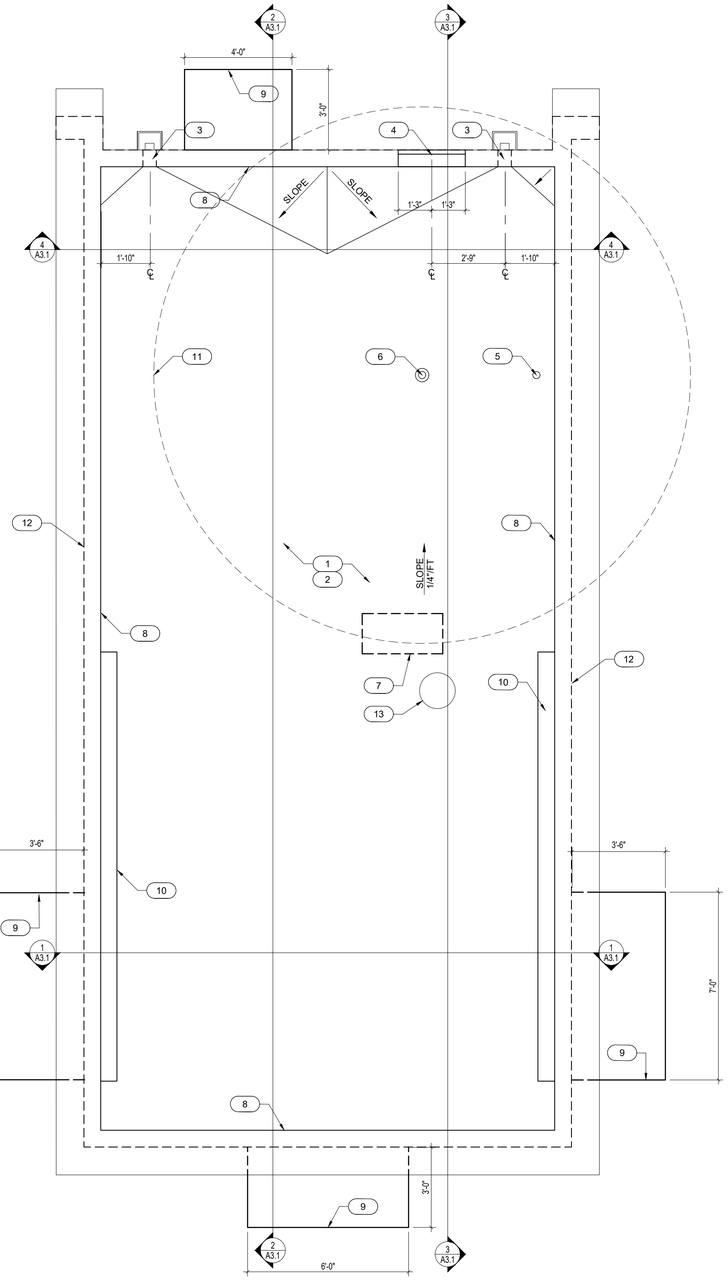
SCALE: NTS

ROOF DRAIN CALCULATIONS

ROOF AREA: 554 SQ.FT.
PARAPET AREA: 496/2 = 248 SQ.FT.
TOTAL AREA: 802 SQ.FT.

MINIMUM REQUIRED SCUPPER (WORSE CASE 6" PER HOUR): 2" X 3"
PROVIDED: (1) 4"X6" MAIN SCUPPER AND (1) 4"X6" OVERFLOW SCUPPER

NOTE: ROOF IS DESIGNED TO HOLD ANY POTENTIAL PONDING WATER IF ONE ROOF SCUPPER SHOULD BECOME CLOGGED



1 ROOF PLAN

SCALE: 3/8" = 1'-0"

GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR ROOF ASSEMBLY.

KEYNOTES-ROOF

#

1. 60 MIL TPO FULLY ADHERED OVER 1/2" DENSDECK OVER POLYISOCYANURATE INSULATION (PER BUILDING COMCHECK ON G0.4) OVER SHEATHING
2. CONTRACTOR ALTERNATIVE, AS ALLOWED BY CODE: 60 MIL TPO FULLY ADHERED OVER 1/2" DENSDECK WITH BATT INSULATION APPLIED TO UNDERSIDE OF DECK
3. THRU WALL ROOF SCUPPER, SEE DETAIL 8/A3.4
4. OPENING IN PARAPET FOR ROOF ACCESS
5. VENT, SEE PLUMBING DRAWINGS, SEE ALSO DETAIL 5/A3.6
6. 6" GOOSENECK FOR EXHAUST, SEE DETAIL 5/A3.6 SIM.
7. AIR CONDENSER, SEE MECHANICAL DRAWINGS
8. PRE-FINISHED METAL PARAPET CAP
9. 30" TALL RED CANVAS AWNING BELOW, FURNISHED AND INSTALLED BY OTHERS, DEPTH AND WIDTH AS DIMENSIONED
10. ROOFER TO FLASH ELECTRICAL RACEWAY FOR SIGNAGE ON SIDE OF PARAPET WALL - SIGNAGE UNDER SEPARATE PERMIT
11. PER CODE - NO AIR INTAKES MAY BE WITHIN A 10' RADIUS OF A VENT OR EXHAUST.
12. WALL BELOW PARAPET
13. NEW ROOF MOUNTED HOOD CONNECTED TO 10" DIA. FRESH AIR INTAKE DUCT; SEE MECHANICAL DRAWINGS.

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Fax: (972) 239-5054

09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
ROOF PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

☒ PERMIT/BID SUBMITTAL
☐ CONSTRUCTION ISSUE

SHEET NO.
A1.4

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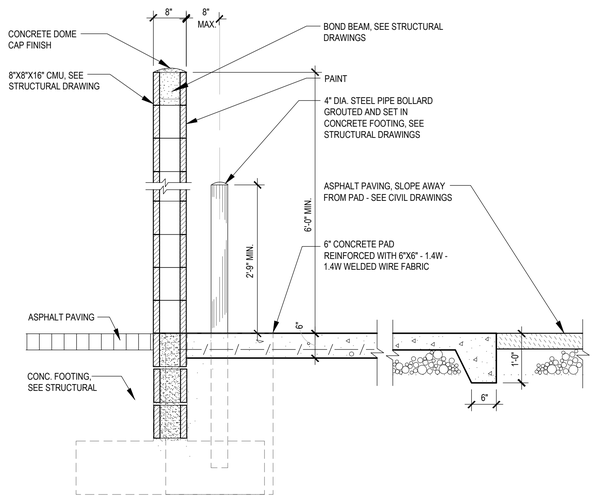
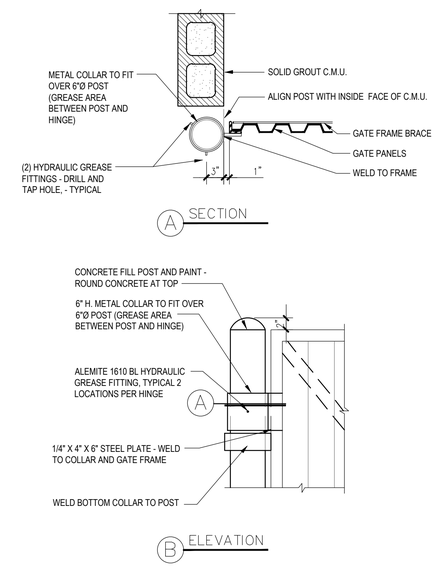
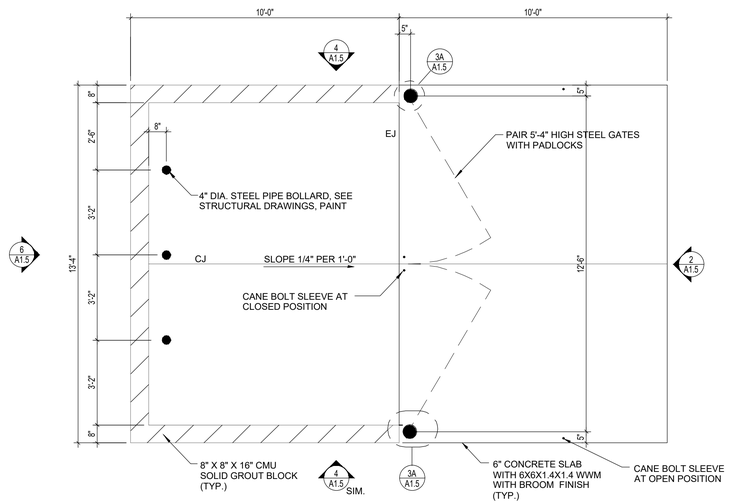


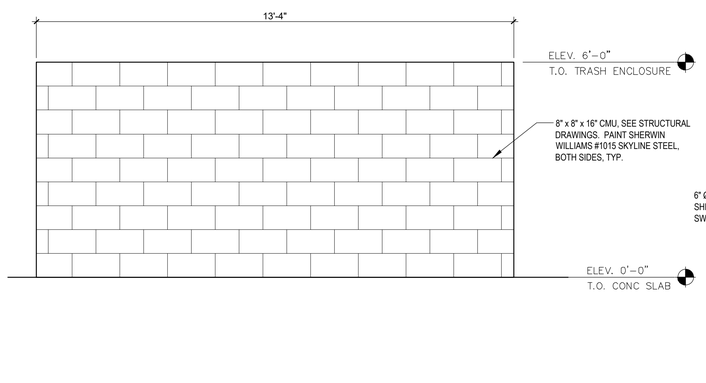
5 *SECTION AT TRASH ENCLOSURE*
SCALE: 3/4" = 1'-0"



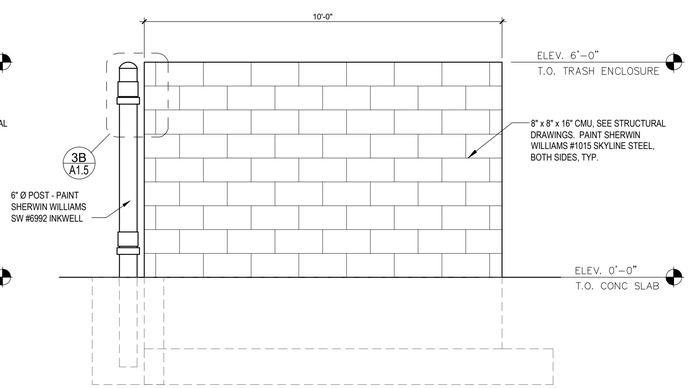
3 *HINGE AT TRASH GATE*
SCALE: NTS



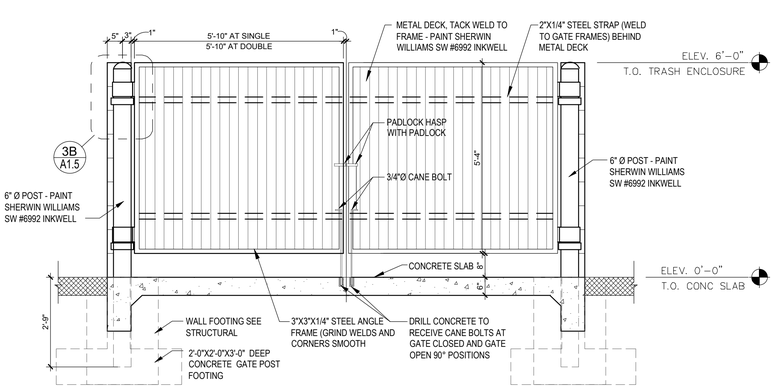
1 *TRASH ENCLOSURE*
SCALE: 3/8" = 1'-0"



6 *TRASH ENCLOSURE - BACK ELEVATION*
SCALE: 1/2" = 1'-0"



4 *TRASH ENCLOSURE - SIDE BACK ELEVATION*
SCALE: 1/2" = 1'-0"



2 *TRASH ENCLOSURE -FRONT ELEVATION*
SCALE: 1/2" = 1'-0"

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REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2592

09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
TRASH ENCLOSURE PLAN, ELEVATIONS & DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A1.5

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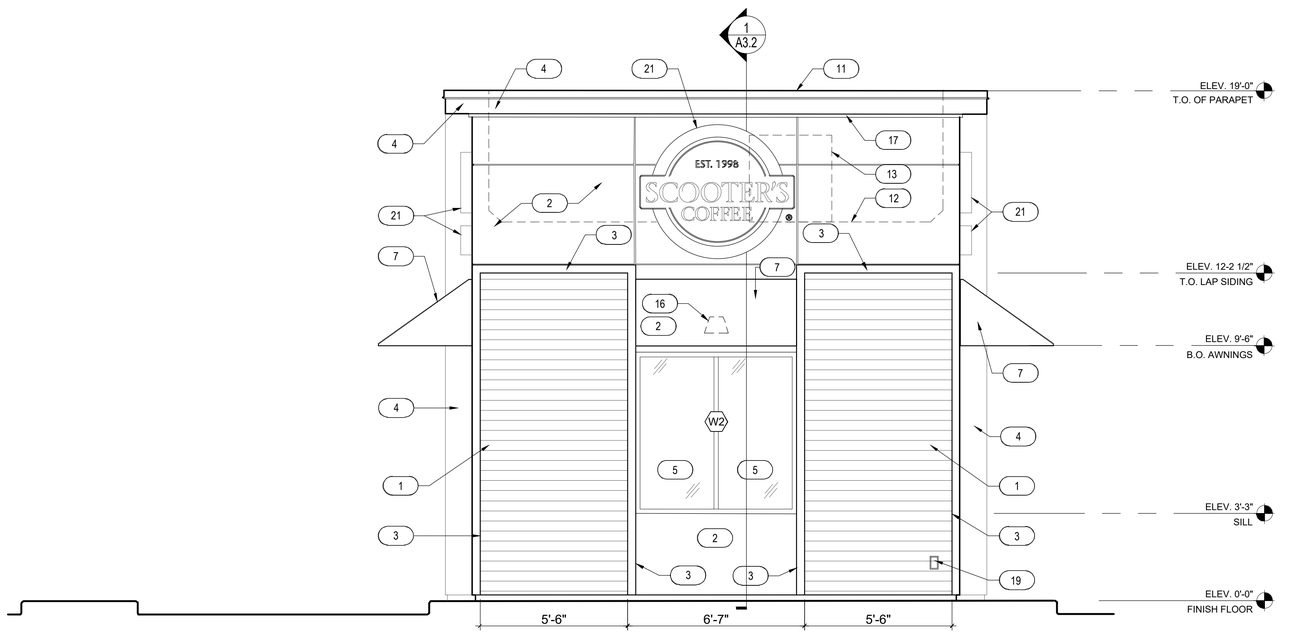
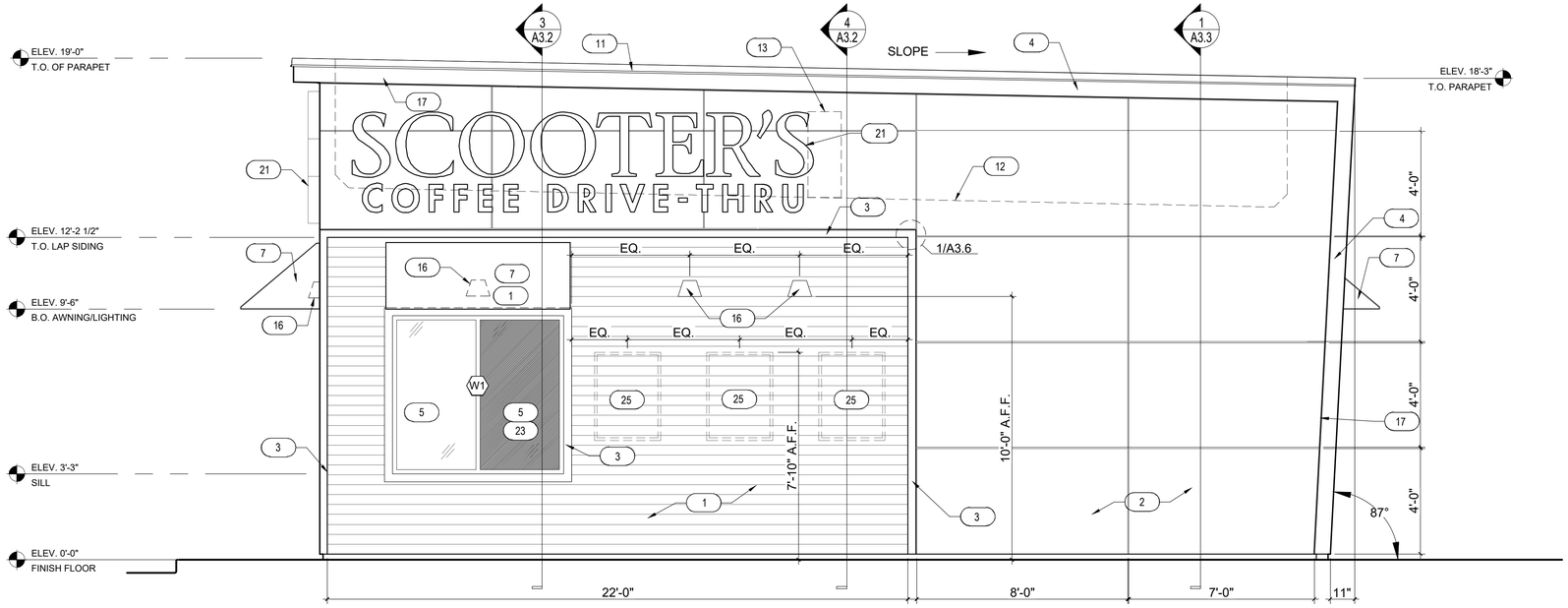


1 FRONT EXTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"



2 SIDE EXTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"

KEYNOTES

X

1. HARDIE PLANK HZ10 LAP SIDING CEDARMILL 6-1/4", SEE HARDIE DETAIL SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
2. HARDIE REVEAL PANEL SYSTEM HZ10 - SMOOTH FINISH, SEE HARDIE DETAIL SHEET A3.6 - COLOR: SW 1015 SKYLINE STEEL
3. 3 1/2" HARDIE TRIM, SEE HARDIE DETAIL SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
4. HARDIE BOARD TRIM ACCENTS AND SOFFITS - COLOR: BLACK
5. INSULATED DARK BRONZE ALUMINUM WINDOWS WITH DUAL PANE TEMPERED GLASS
6. QUICKSERVE 48X48 WINDOW - COLOR: DARK BRONZE
7. AWNING BY OTHERS - COLOR: RED
8. INSULATED HOLLOW METAL DOOR AND FRAME - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
9. WIDE ANGLE PEEP HOLE, BY DOOR MANUFACTURER
10. NOT USED
11. 22 GUAGE METAL PARAPET CAP
12. LINE OF ROOF BEYOND
13. AIR CONDENSER, SEE MECHANICAL DRAWINGS
14. ROOF SCUPPER AND DOWNSPOUT, SEE DETAIL 8/A6.3
15. MAILBOX BY GC BLACK
16. WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
17. LED LIGHT BAND, SEE ELECTRICAL DRAWINGS
18. SES PANEL, SEE ELECTRICAL DRAWINGS
19. ELECTRICAL OUTLETS, SEE ELECTRICAL DRAWINGS
20. HOSE BIBB, SEE PLUMBING DRAWINGS
21. PROPOSED SIGNAGE BY OTHERS, UNDER SEPARATE PERMIT
22. CONNECT DOWNSPOUTS TO UNDERGROUND PIPING, REF. CIVIL.
23. SPANDREL GLASS
24. NEW SECURITY CAMERA
25. CUSTOMER PROVIDED SIGN PANELS. PANELS TO BE MOUNTED TO FASCIA BY GC (WHEN PROVIDED) IN CUSTOMER SPECIFIED LOCATION USING PROPER HARDWARE AND FASTENERS (NON-CORROSIVE)

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EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EXTERIOR ELEVATIONS

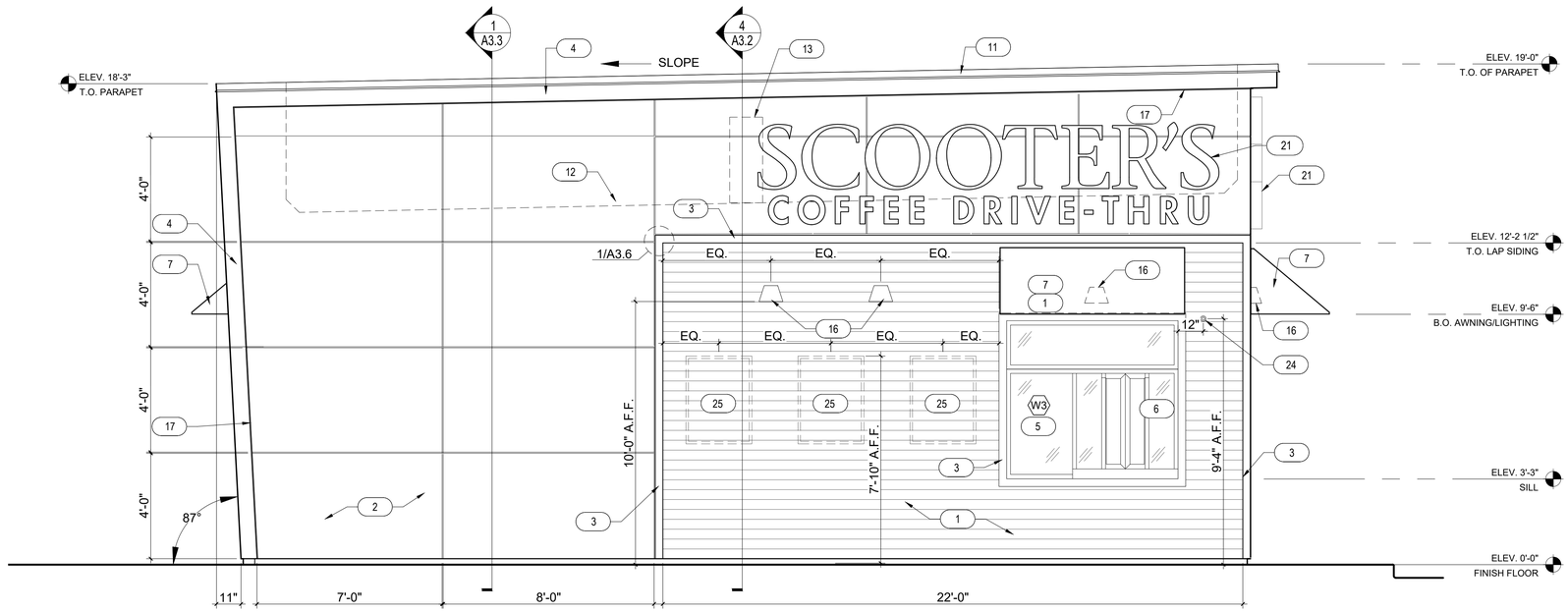
KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

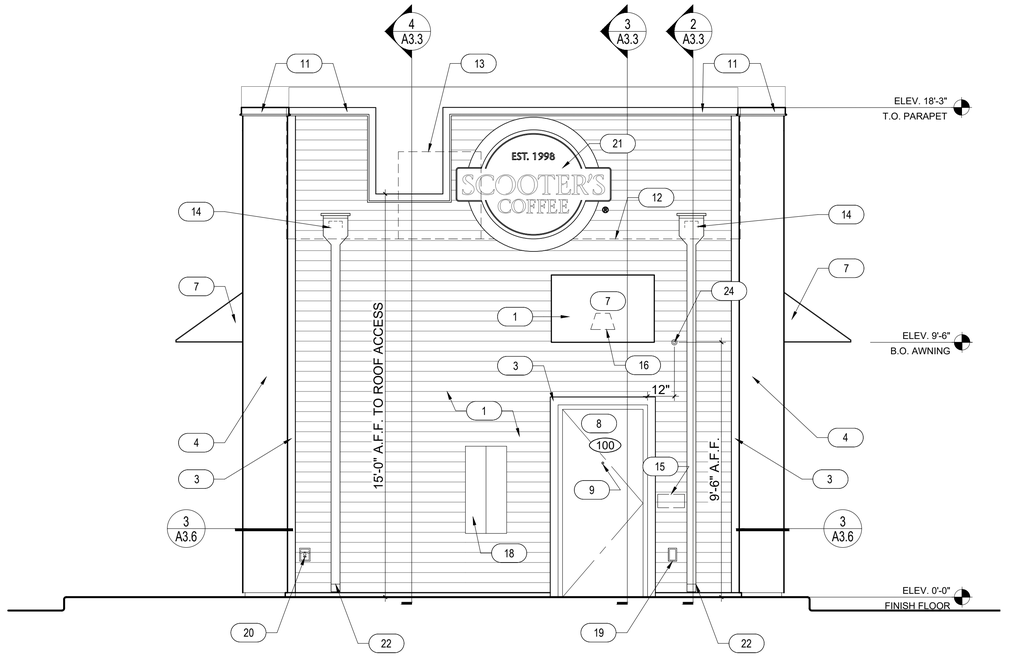
[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A2.1



1 EXTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"



2 EXTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"

KEYNOTES

X

1. HARDIE PLANK HZ10 LAP SIDING CEDARMILL 6-1/4", SEE HARDIE DETAIL SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
2. HARDIE REVEAL PANEL SYSTEM WZ10 - SMOOTH FINISH, SEE HARDIE DETAIL SHEET A3.6 - COLOR: SW 1015 SKYLINE STEEL
3. 3 1/2" HARDIE TRIM, SEE HARDIE DETAIL SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
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13. AIR CONDENSER, SEE MECHANICAL DRAWINGS
14. ROOF SCUPPER AND DOWNSPOUT, SEE DETAIL 8/A3.4
15. MAILBOX BY GC BLACK
16. WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
17. LED LIGHT BAND, SEE ELECTRICAL DRAWINGS
18. SES PANEL, SEE ELECTRICAL DRAWINGS
19. ELECTRICAL OUTLETS, SEE ELECTRICAL DRAWINGS
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09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EXTERIOR ELEVATIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

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[ ] CONSTRUCTION ISSUE

SHEET NO.
A2.2

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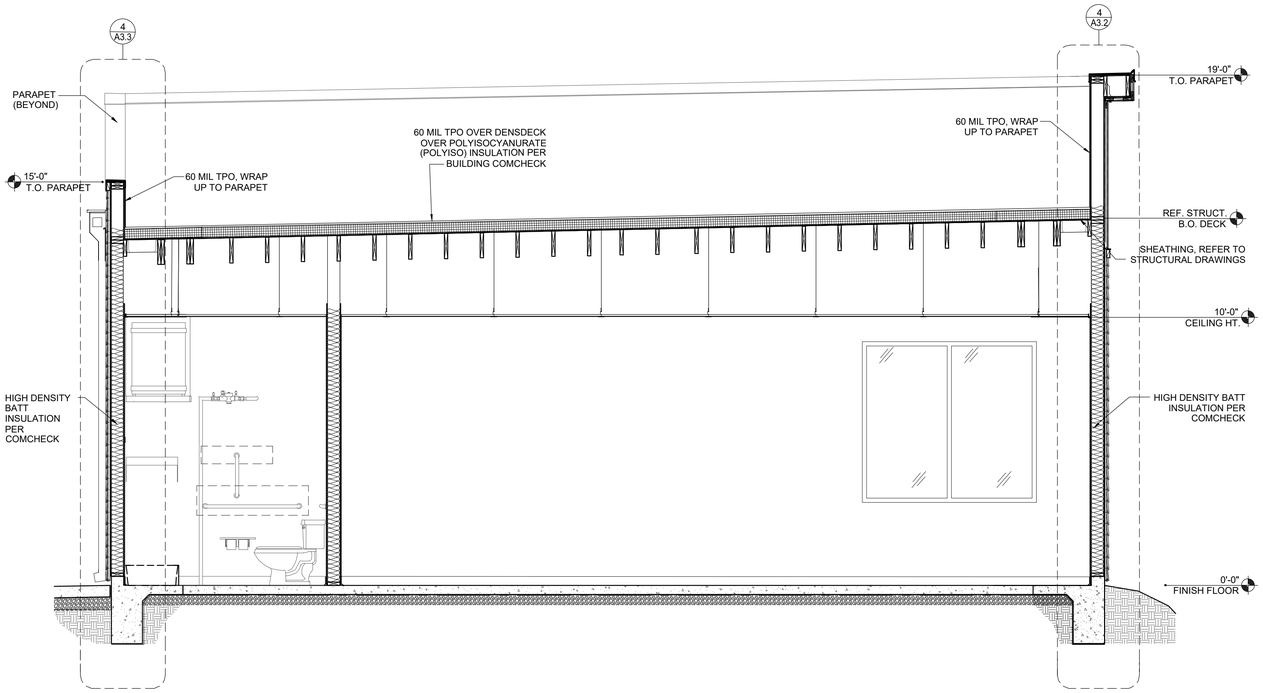
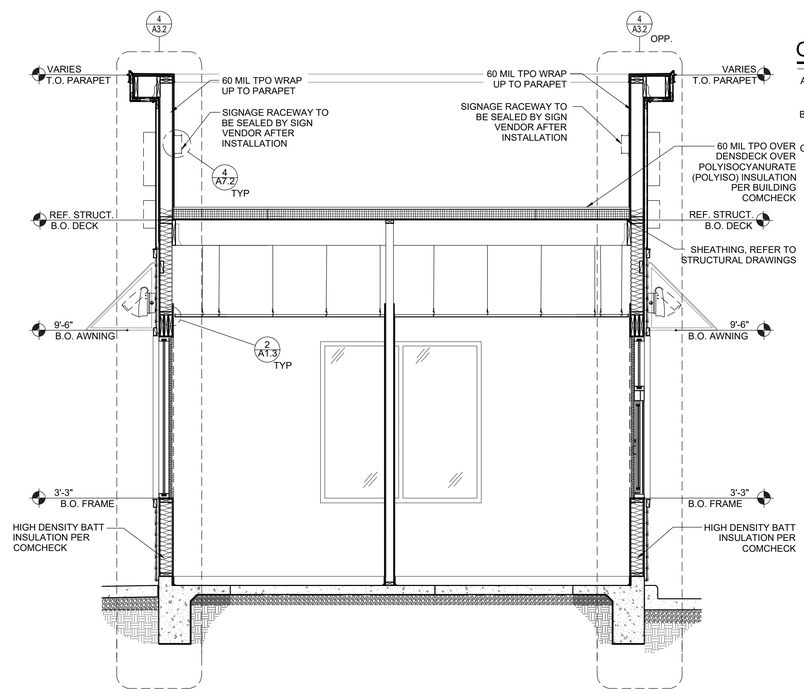


3 BUILDING SECTION AT SIDE WALL

SCALE: NTS



1 BUILDING SECTION AT FRONT WALL

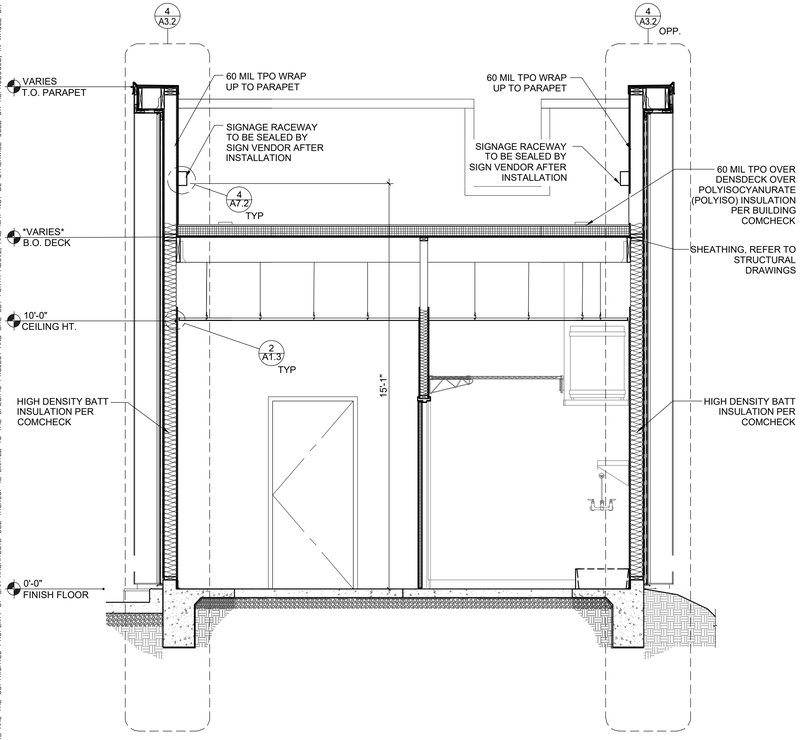
SCALE: NTS

GENERAL NOTES

A. REFER TO SHEET A1.1 FOR FINISH DESIGNATION

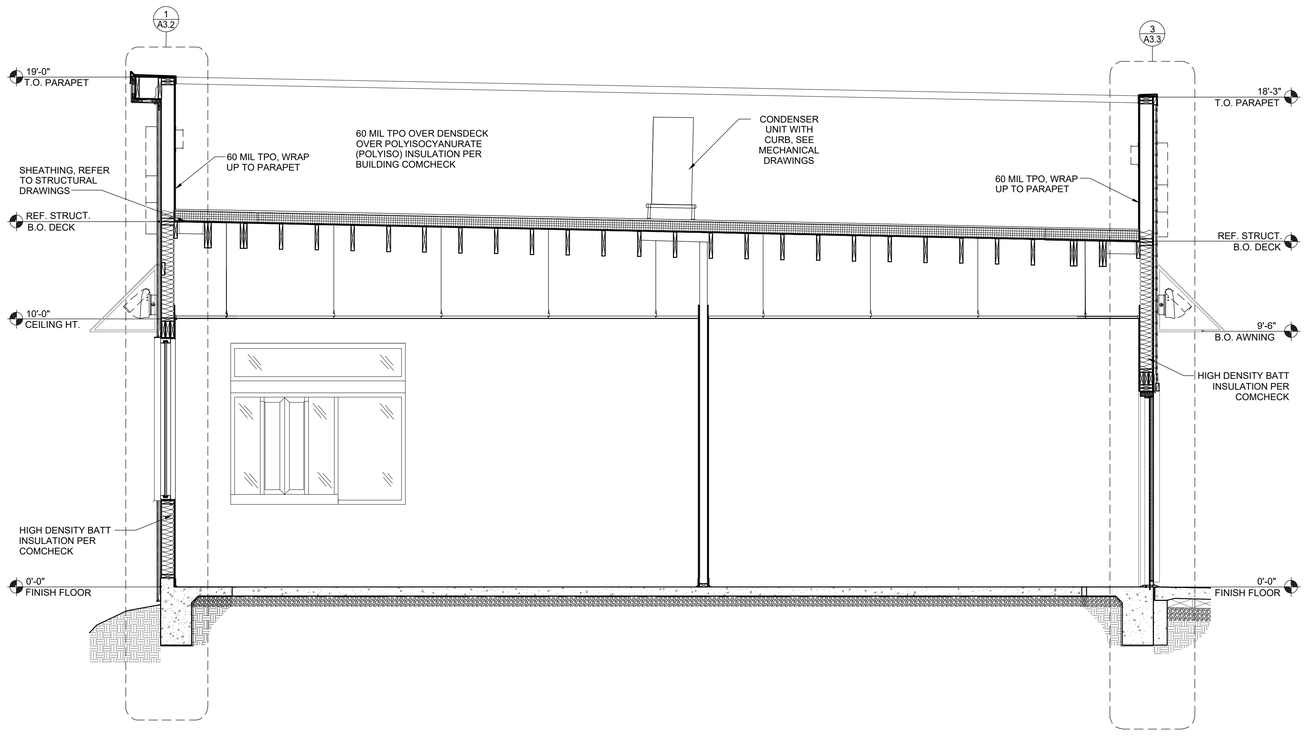
B. REFER TO SHEET K1.0 FOR EQUIPMENT INFORMATION

C. REFER TO SHEET G0.4 FOR BUILDING ENVELOPE REQUIREMENTS; BUILDING ENVELOPE MINIMUMS MUST BE MET



4 BUILDING SECTION AT REAR WALL

SCALE: 3/8" = 1'-0"



2 BUILDING SECTION AT DRIVE-THRU WALL

SCALE: 3/8" = 1'-0"

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09/01/2022

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EXTERIOR WALL SECTIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

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[ ] CONSTRUCTION ISSUE

SHEET NO.
A3.1

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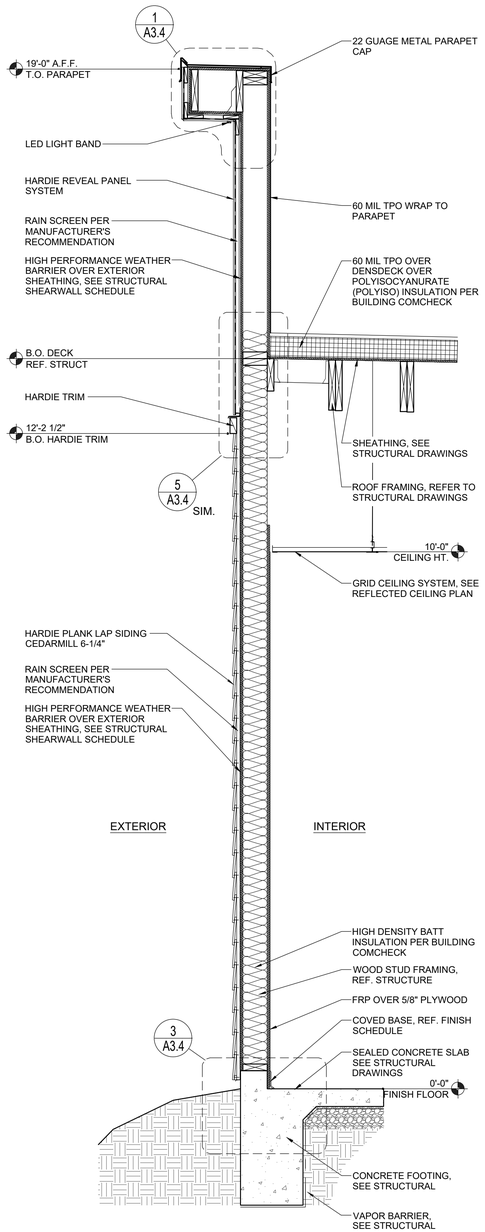
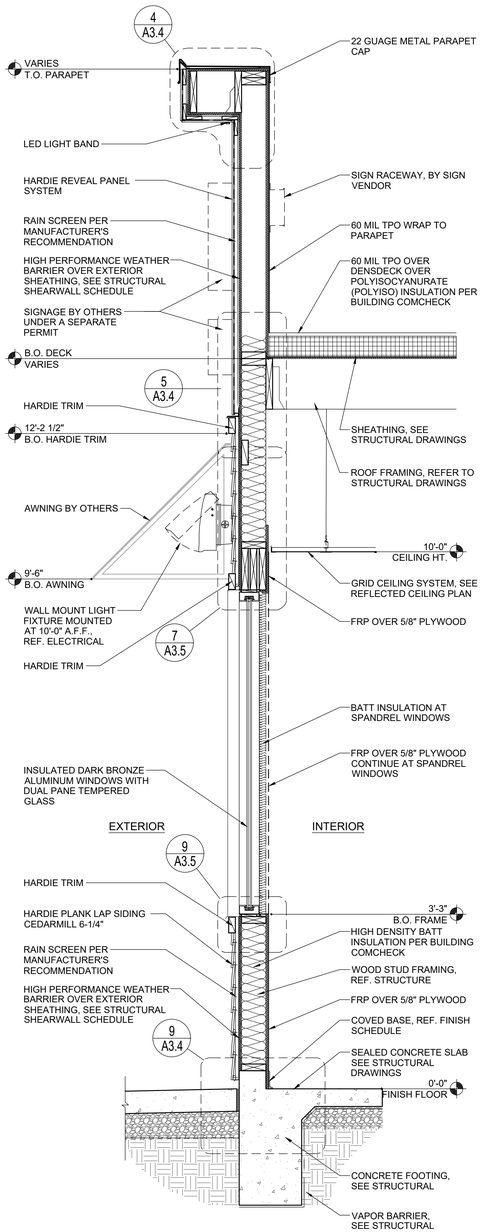


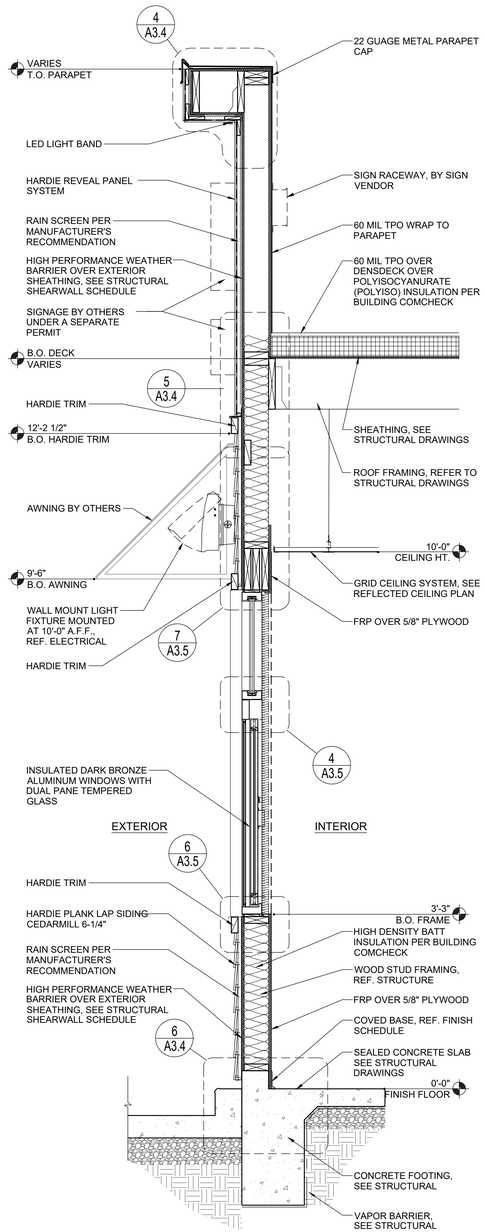
4 WALL SECTION AT HARDI-SIDING / HARDI PANEL TRANSITION

SCALE: 3/4" = 1'-0"



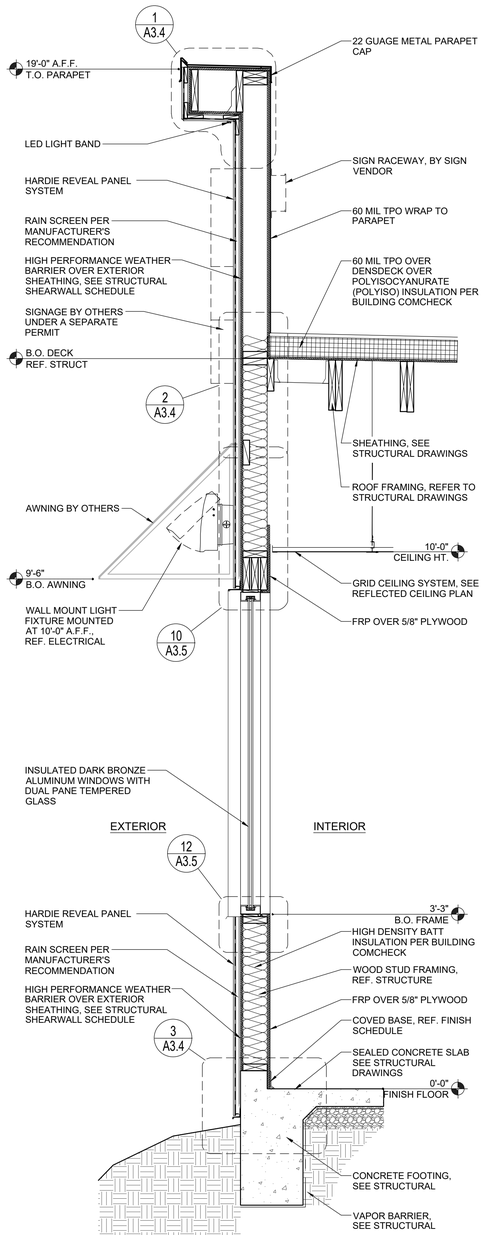
3 WALL SECTION AT SIDE WINDOW

SCALE: 3/4" = 1'-0"



2 WALL SECTION AT DRIVE-THRU WINDOW

SCALE: 3/4" = 1'-0"



1 WALL SECTION AT FRONT WINDOW

SCALE: 3/4" = 1'-0"

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09/01/2022

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
WALL SECTIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

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[ ] CONSTRUCTION ISSUE

SHEET NO.
A3.2

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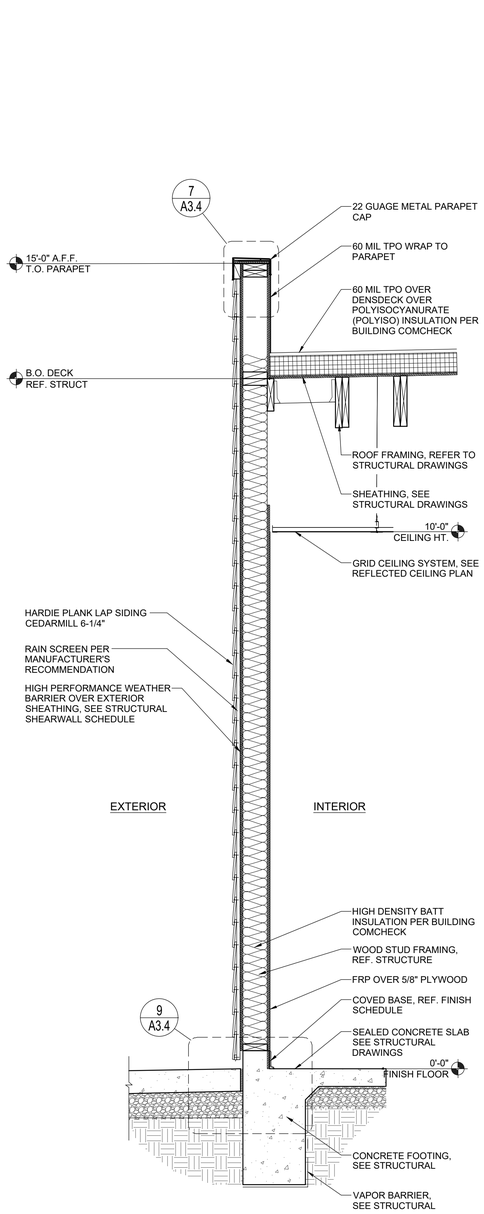
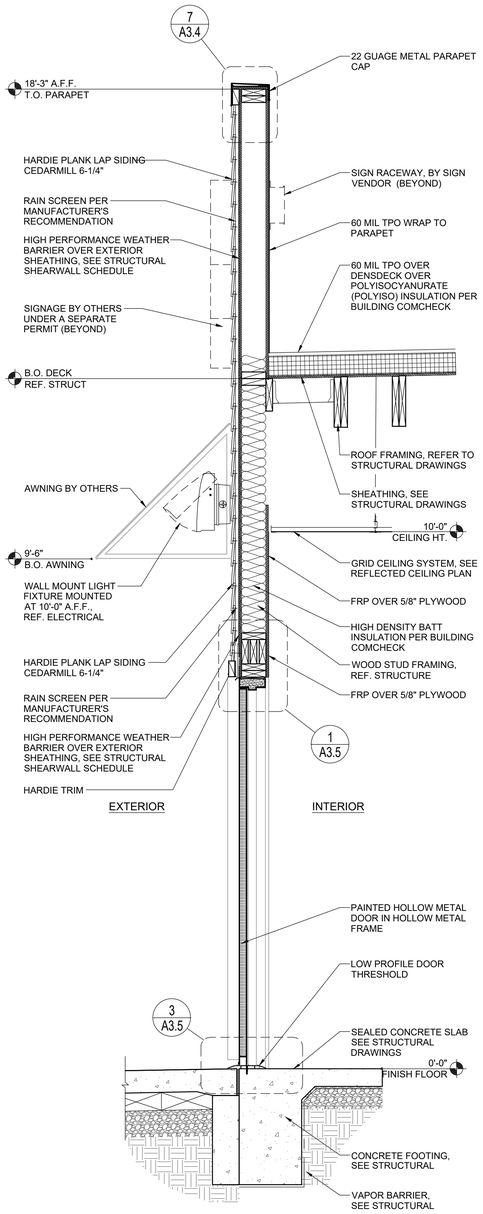


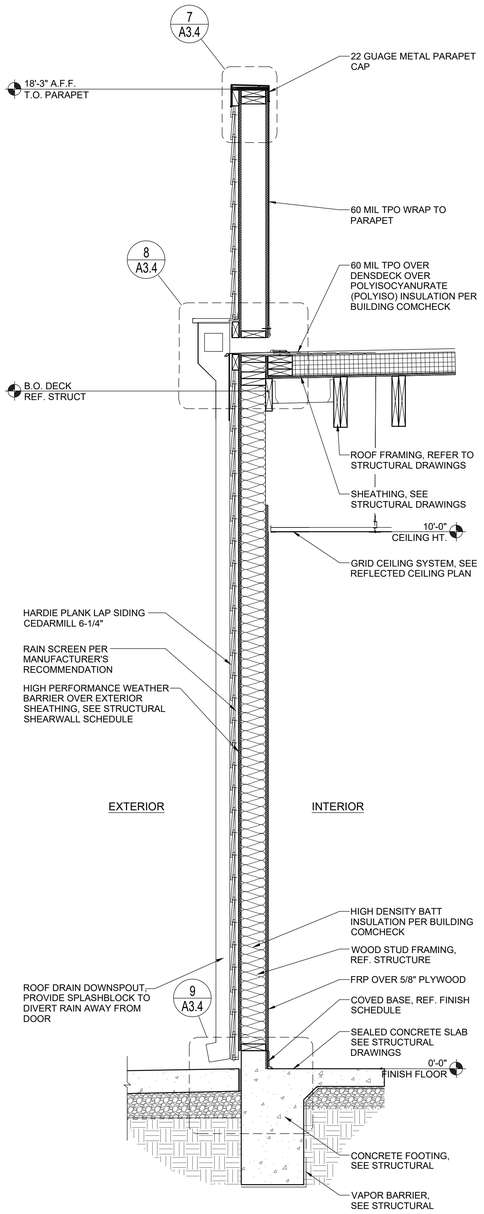
4 WALL SECTION AT ROOF ACCESS

SCALE: 3/4" = 1'-0"



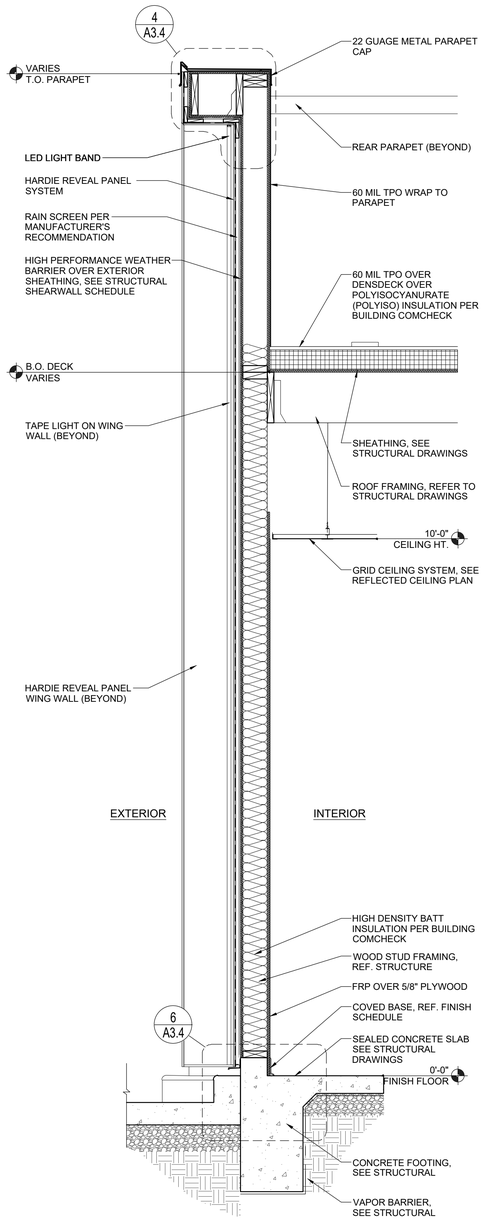
3 WALL SECTION AT REAR DOOR

SCALE: 3/4" = 1'-0"



2 WALL SECTION AT DOWNSPOUT

SCALE: 3/4" = 1'-0"



1 WALL SECTION AT HARDI-PANELS

SCALE: 3/4" = 1'-0"

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REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2022
09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
WALL SECTIONS

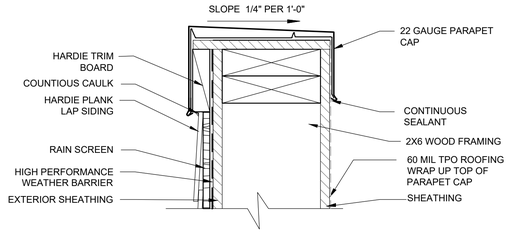
KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

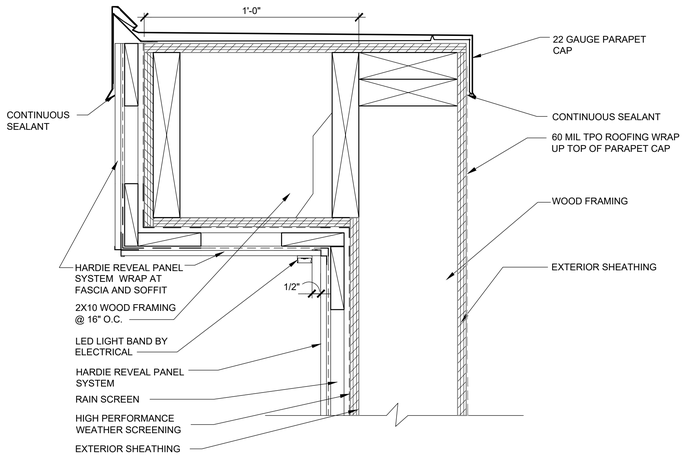
DATE:
09/01/2022

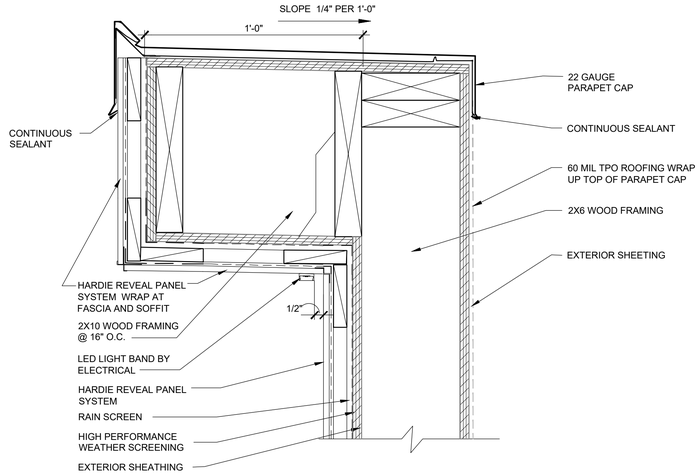
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A3.3

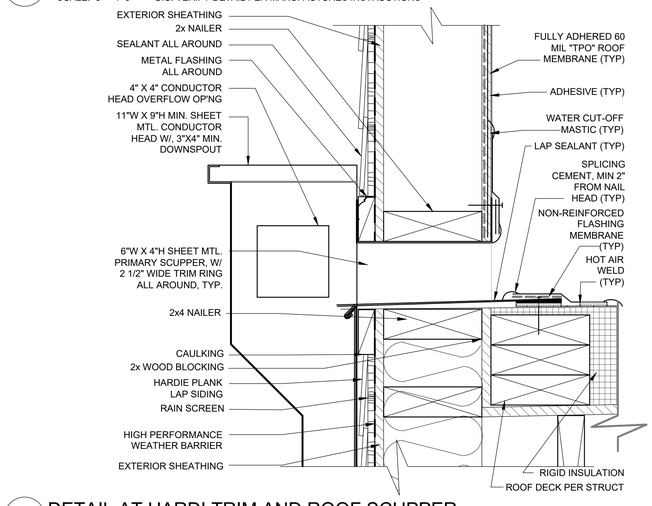






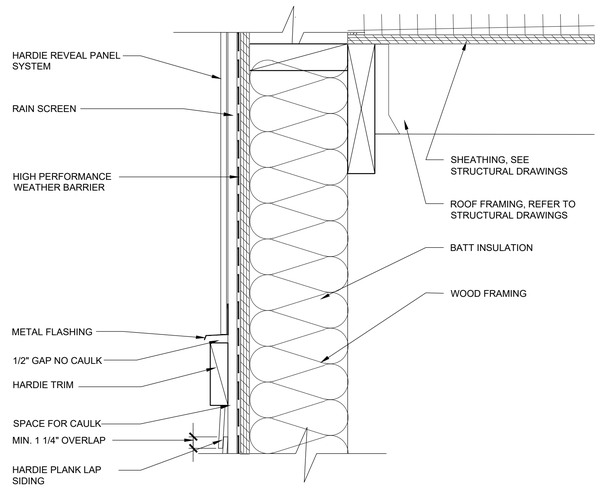
7 DETAIL AT PARAPET AND HARDI-SIDING

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



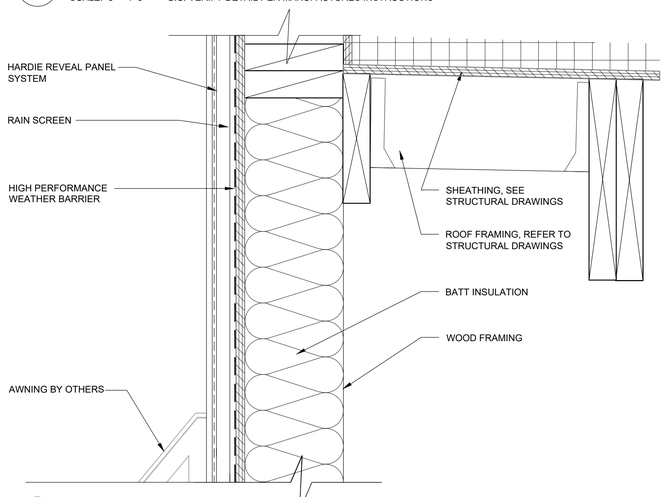
4 DETAIL AT SIDE PARAPET AND HARDI-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



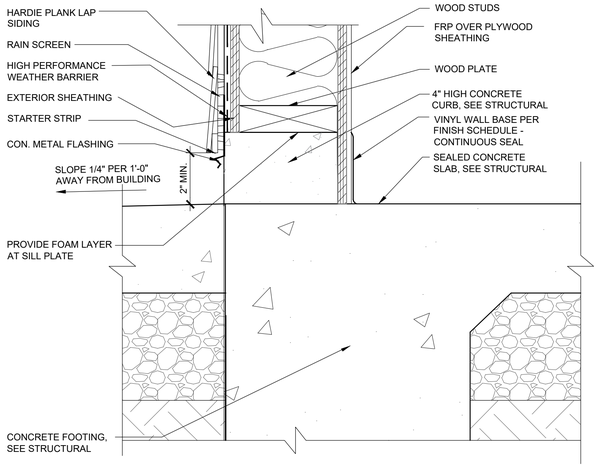
1 DETAIL AT FRONT PARAPET AND HARDI-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



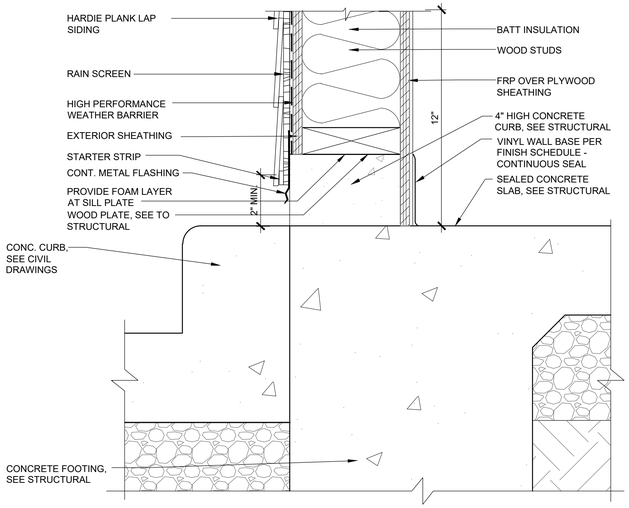
8 DETAIL AT HARDI TRIM AND ROOF SCUPPER

SCALE: 3" = 1'-0"



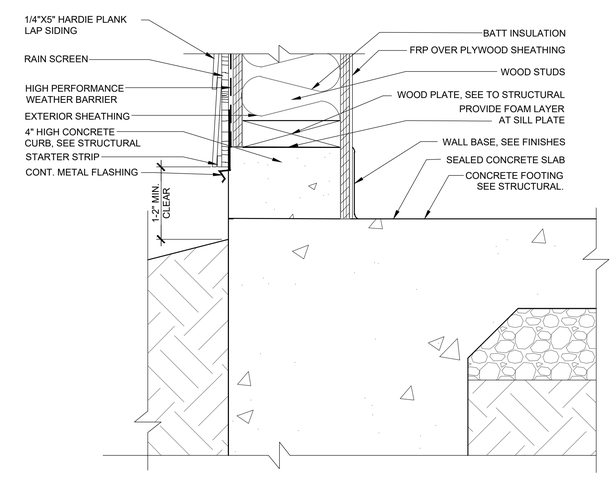
5 DETAIL AT SIDE WALL AND HARDI-PANEL / HARDI TRIM TRANSITION

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



2 DETAIL AT FRONT WALL AND HARDI-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



9 DETAIL AT HARDI-SIDING AND SIDEWALK

SCALE: 3" = 1'-0"

6 DETAIL AT HARDI-SIDING AND DRIVE-THRU CURB

SCALE: 3" = 1'-0"

3 DETAIL AT HARDI-PANEL AND FINISHED GRADE

SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2592
STATE OF ARKANSAS

09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EXTERIOR WALL DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A3.4

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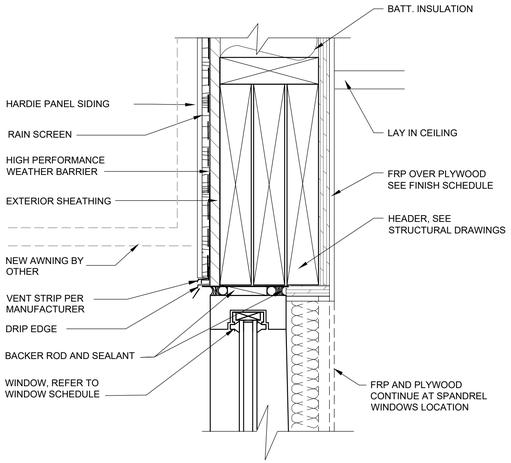
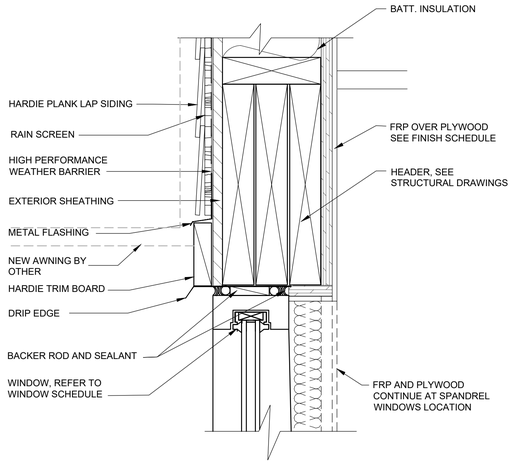


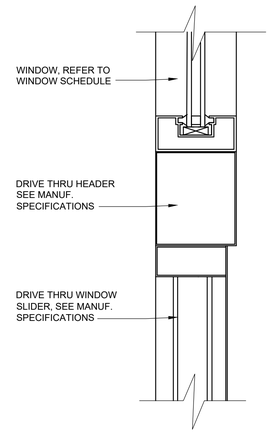
10 WINDOW HEADER DETAIL AT HARDI PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



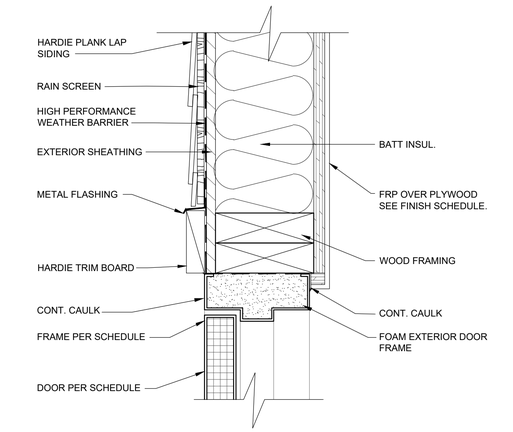
7 WINDOW HEADER DETAIL AT HARDI-SIDING

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



4 TRANSOM WINDOW TRANSITION AT DRIVE-THRU

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



1 DOOR HEADER DETAIL AT HARDI-SIDING

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

11 WINDOW JAMB DETAIL AT HARDI PANEL

SCALE: 3" = 1'-0"

8 WINDOW JAMB DETAIL AT HARDI-SIDING

SCALE: 3" = 1'-0"

5 WINDOW JAMB DETAIL AT DRIVE-THRU

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

2 DOOR JAMB DETAIL AT HARDI-SIDING

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

12 WINDOW SILL DETAIL AT HARDI-PANEL

SCALE: 3" = 1'-0"

9 WINDOW SILL DETAIL AT HARDI-SIDING

SCALE: 3" = 1'-0"

6 WINDOW SILL DETAIL AT DRIVE-THRU

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

3 DOOR THRESHOLD DETAIL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

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09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EXTERIOR DOOR AND WINDOW DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

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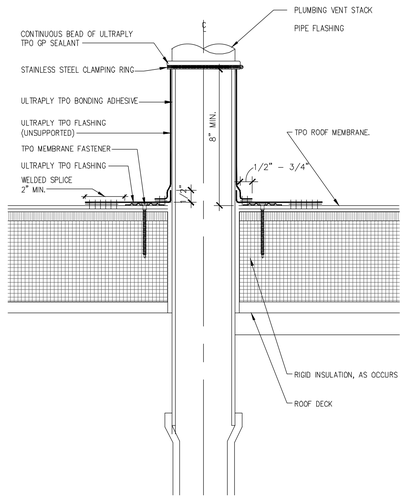
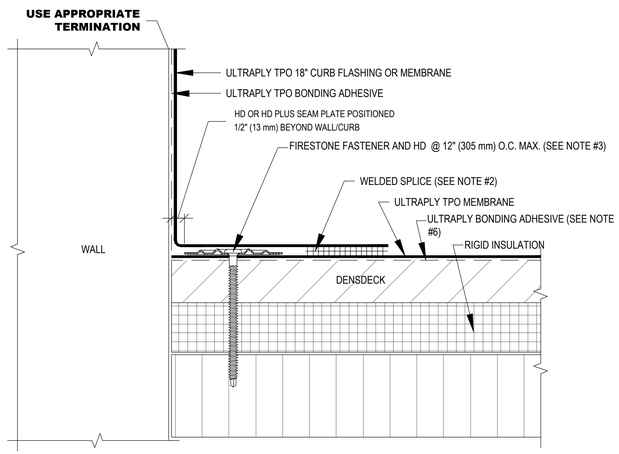


5 PLUMBING VENT STACK

SCALE: 1'-0" = 1'-0"



NOTES:

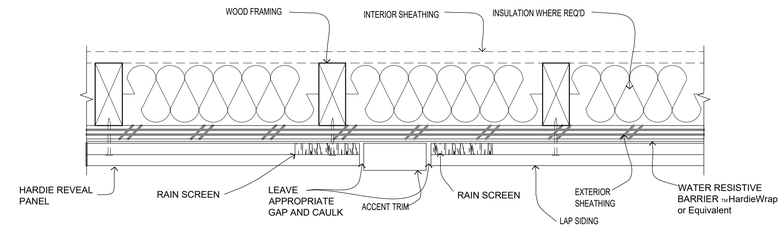
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).
4. IN CASE OF OBSTRUCTION REFER TO DETAIL UT-BT-5.
5. REFER TO UT-BT-16 & UT-BT-17 FOR MEMBRANE SECUREMENT AT CORNERS.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

NOTE:

REFERENCE FIRESTONE THERMOPLASTIC POLYOELFIN (TPO) ROOFING DETAILS

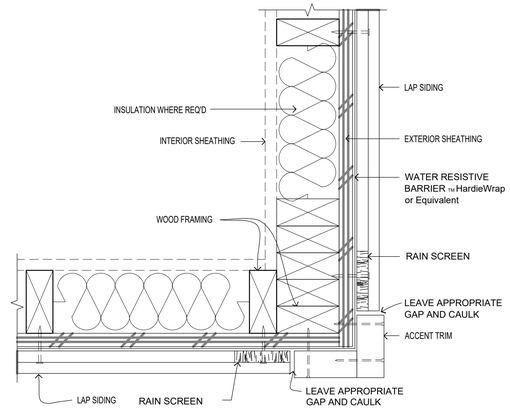
6 BASE TIE-IN WITH HD SEAM PLATES FASTENED TO DECK

SCALE: NTS



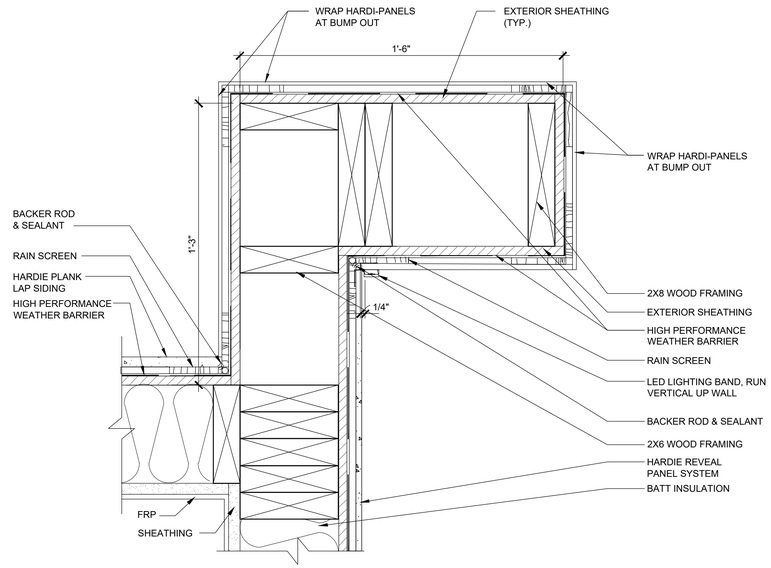
1 PLAN DETAIL AT HARDI-TRIM TRANSITION

SCALE: 3" = 1'-0"



2 PLAN DETAIL AT HARDI-SIDING OUTSIDE CORNER

SCALE: 1'-0" = 1'-0"



3 PLAN DETAIL AT REAR WING WALL

SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
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License Number 2092

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Bryant, AR 72022

REVISIONS:

TITLE:
EXTERIOR DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
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[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
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FINISH SCHEDULE

X

CODE	DESCRIPTION	MANUFACTURER	STYLE / PATTERN / COLOR	NOTES
FRP-1	FIBER REINFORCED PLASTIC	CRANE COMPOSITES	COLOR: SILVER (66) FINISH PEBBLE EMBOSSED	4X10 SHEETS INSTALL VERTICALLY
WB-1	VINYL WALL BASE	JOHNSONITE	40 BLACK B (4" H X .80" THICK)	PROVIDE SILICONE SEALANT AT FLOOR
WB-2	COVED	LATICRETE	SPARTACOTE COVE GEL	ALTERNATE AS REQUIRED BY JURISDICTION
SC-1	SEALED CONCRETE	LATICRETE	LEVEL 2 FINISH, RETRO SHIELD CLEAR SEALER CURCRETE	
F-1	CHIP XPL SYSTEM	LATICRETE	SPARTACOTE® CHIP XPL SYSTEM CHIP (FLAKE) BROADCAST SYSTEM	ALTERNATE AS REQUIRED BY JURISDICTION
PT-1	PAINT	SHERMAN WILLIAMS	SW7035 AESTHETIC WHITE FINISH: SEMI-GLOSS	INTERIOR DOOR AND INSIDE OF EXTERIOR DOOR
PT-2	PAINT	SHERMAN WILLIAMS	SW6992 - INKWELL FINISH: EGGSHELL	OUTSIDE OF EXTERIOR DOOR

NOTE:
NO ALTERATIONS ON FINISHES WITHOUT CORPORATE APPROVAL

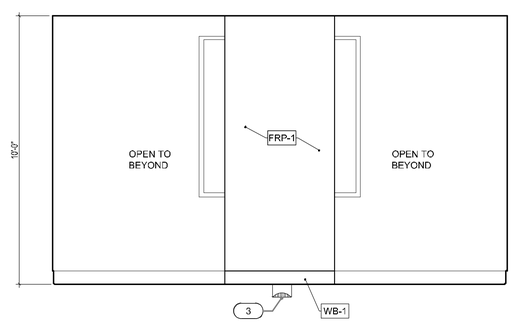
GENERAL NOTES

A. REFER TO SHEET A2.2 FOR FINISH DESIGNATION.
B. REFER TO SHEET K1.0 FOR EQUIPMENT CALLOUT INFORMATION.

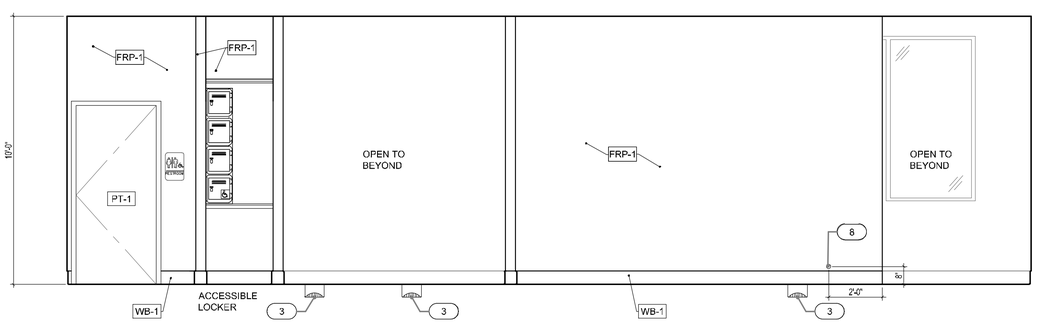
KEY NOTES

#

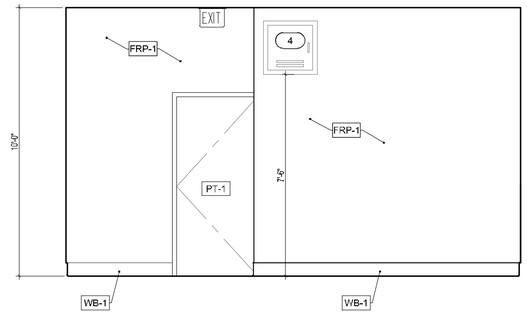
1. NEW STOREFRONT WINDOWS, SEE WINDOW SCHEDULE ON A6.1
2. NEW DRIVE-THRU WINDOW, SEE WINDOW SCHEDULE ON A6.1
3. FLOOR SINKS, SEE PLUMBING DRAWINGS
4. 24" x 24" DATA RACK, SEE ELECTRICAL DRAWINGS
5. MOP SINK, SEE PLUMBING DRAWINGS
6. HOT WATER HEATER ON PLATFORM, SEE PLUMBING AND ELECTRICAL DRAWINGS
7. SPANDREL GLASS BEHIND REACH REACH-IN FRIDGE.
8. NITRO CONDUIT CHASE



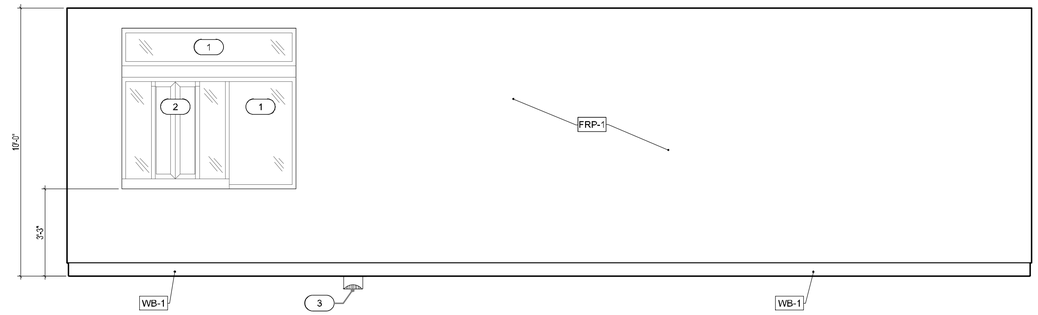
4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



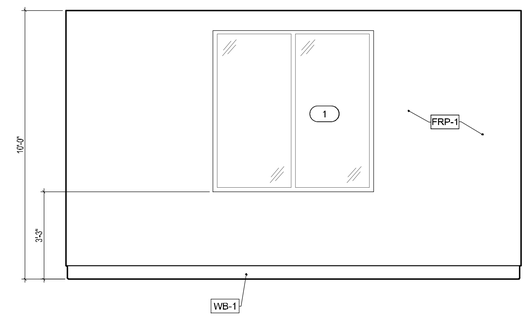
1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



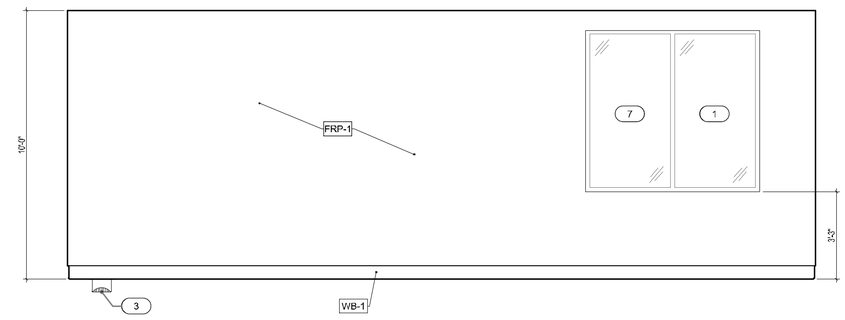
5 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

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GHA ARCHITECT OF ARCHITECTURE License Number 2092 STATE OF ARKANSAS

09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
INTERIOR ELEVATIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A4.1

ACCESSORY FIXTURES

X

EQ. NO.	ITEM NAME	QTY	MANUFACTURER	MODEL #	REMARKS#
F-1	36" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x36	
F-2	42" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x42	
F-3	18" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x18	
F-4	WALL HUNG LAVATORY	1	TOTO	#LT307	SURFACE MOUNTED
F-5	PAPER TOWEL DISPENSER	1	BOBRICK	#B-2621	SURFACE MOUNTED
F-6	TOILET TISSUE DISPENSER	1	BOBRICK	#B-2840	SURFACE MOUNTED
F-7	WATER CLOSET	1			REFER P SHEETS
F-8	SOAP DISPENSER	1			BY OWNER
F-9	WALL MOUNTED ACCESSIBLE SIGN	1	ULINE	S-15599BL	OR SIMILAR
F-10	WALL MOUNTED MIRROR	1	BOBRICK	#B-290, #B-165	24X36 SURFACE MOUNTED
F-11	QUICK STAND	1	HOLDRITE	#50-SWHP-M	SUSPENDED WATER HEATER PLATFORM

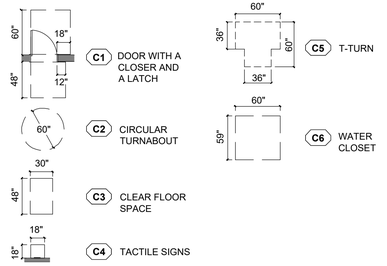
FINISH SCHEDULE

X

CODE	DESCRIPTION	MANUFACTURER	STYLE / PATTERN / COLOR	NOTES
FRP-1	FIBER REINFORCED PLASTIC	CRANE COMPOSITES	COLOR: SILVER (66) FINISH PEBBLE EMBOSSED	4X10 SHEETS INSTALL VERTICALLY
WB-1	VINYL WALL BASE	JOHNSONITE	40 BLACK B (4" H X .80" THICK)	PROVIDE SILICONE SEALANT AT FLOOR
WB-2	COVED	LATICRETE	SPARTACOTE COVE GEL	ALTERNATE AS REQUIRED BY JURISDICTION
SC-1	SEALED CONCRETE	LATICRETE	LEVEL 2 FINISH, RETRO SHIELD CLEAR SEALER CURCRETE	
F-1	CHIP XPL SYSTEM	LATICRETE	SPARTACOTE® CHIP XPL SYSTEM CHIP (FLAKE) BROADCAST SYSTEM	ALTERNATE AS REQUIRED BY JURISDICTION
PT-1	PAINT	SHERMAN WILLIAMS	SW7035 AESTHETIC WHITE FINISH: SEMI-GLOSS	INTERIOR DOOR AND INSIDE OF EXTERIOR DOOR
PT-2	PAINT	SHERMAN WILLIAMS	SW6992 - INKWELL FINISH: EGGSHELL	OUTSIDE OF EXTERIOR DOOR

CLEARANCE KEYNOTES

XX

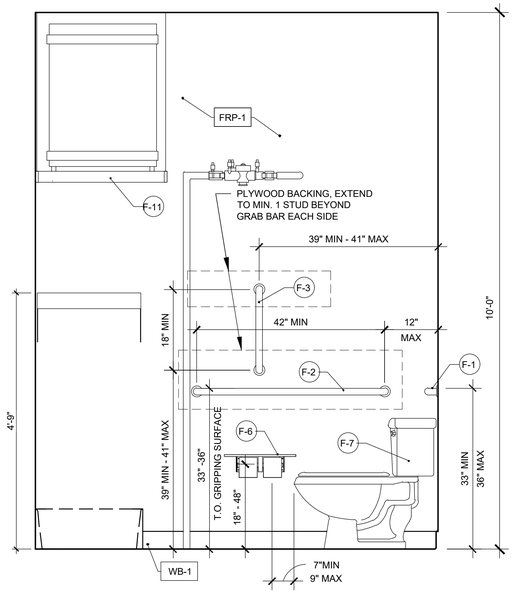


GENERAL NOTES

A. SEE SHEET G0.3 FOR FURTHER ACCESSIBILITY INFORMATION

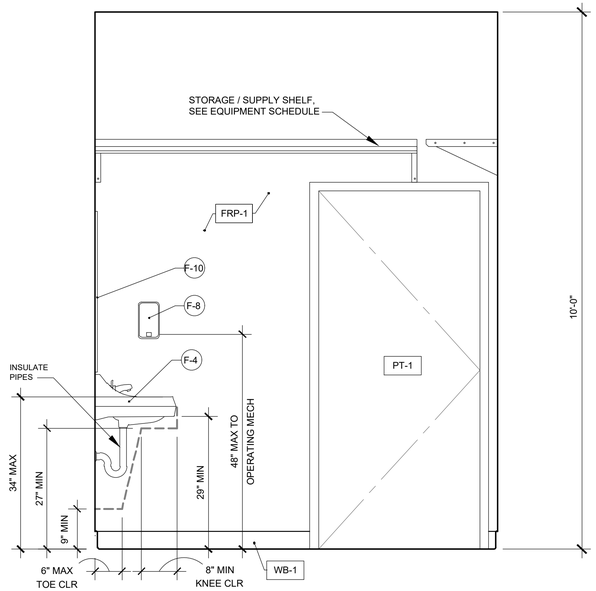
B. PROVIDE WOOD BLOCKING AS REQUIRED

C. DIMENSIONS NOTED ON THIS PLAN ARE TO FINISH SURFACE U.N.O.



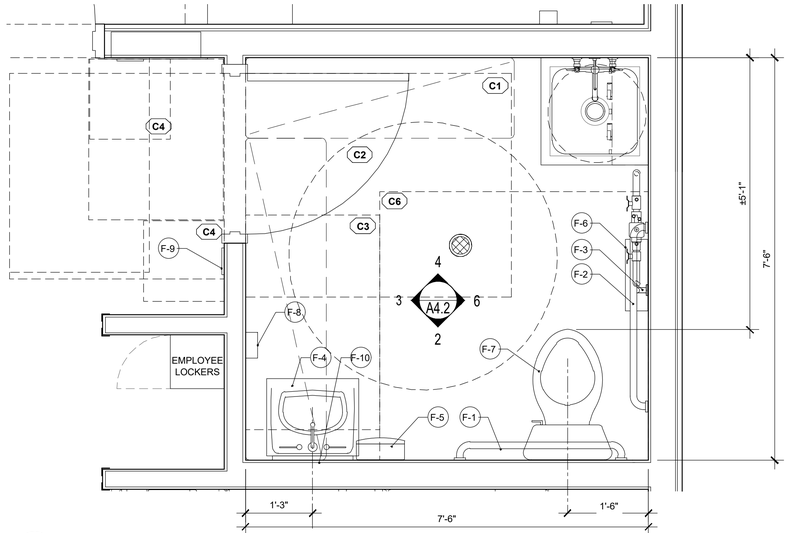
6 RESTROOM ELEVATION

SCALE: 3/4 = 1'-0"



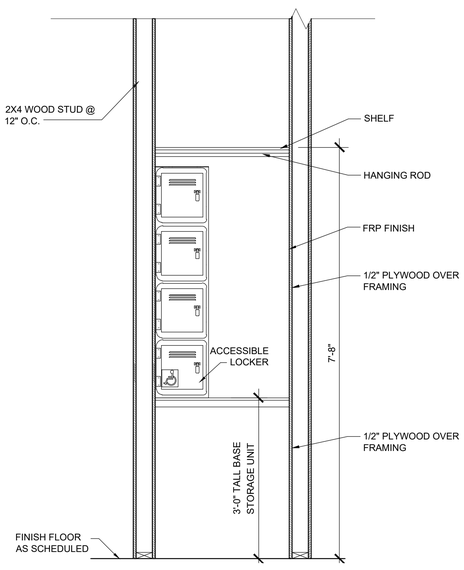
3 RESTROOM ELEVATION

SCALE: 3/4" = 1'-0"



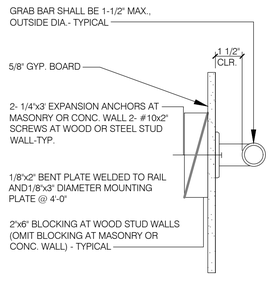
1 ENLARGED RESTROOM PLAN

SCALE: 3/4" = 1'-0"



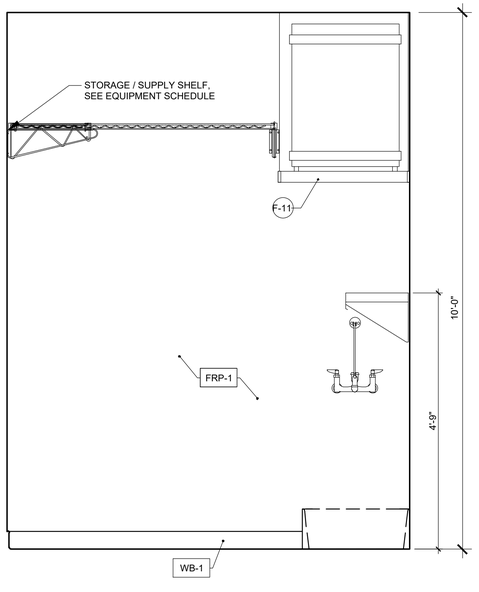
7 ELEVATION AT LOCKERS

SCALE: 3/4" = 1'-0"



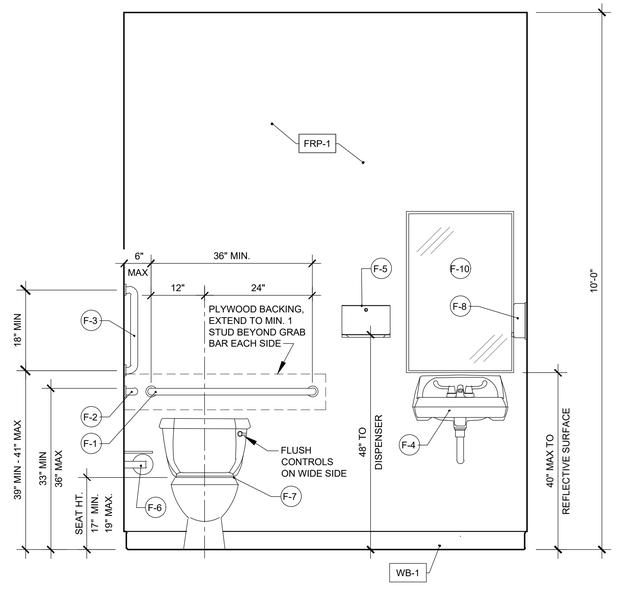
5 GRAB BAR BLOCKING

SCALE: NTS



4 RESTROOM ELEVATION

SCALE: 3/4 = 1'-0"



2 RESTROOM ELEVATION

SCALE: 3/4" = 1'-0"

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REVISIONS:

TITLE:
ENLARGED RESTROOM PLAN AND ELEVATIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A4.2

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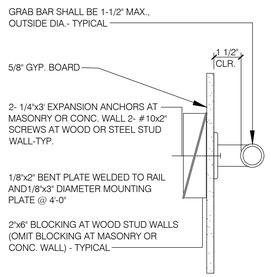
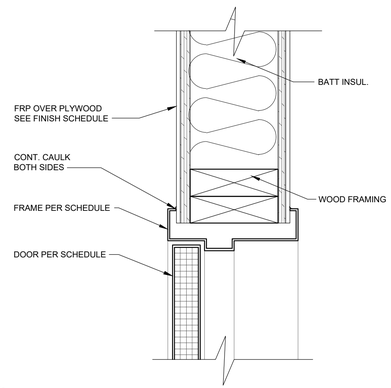
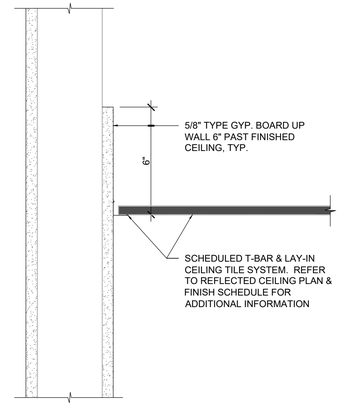


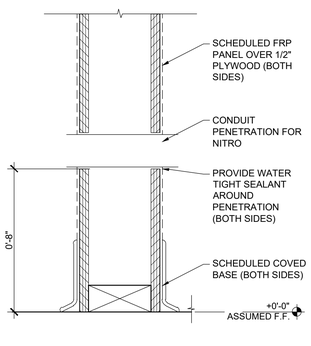
7 GRAB BAR BLOCKING
SCALE: 6"=1'-0"



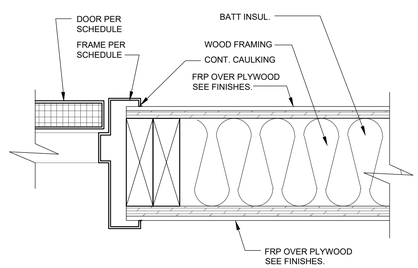
4 DOOR HEADER DETAIL AT RESTROOM
SCALE: 3" = 1'-0"



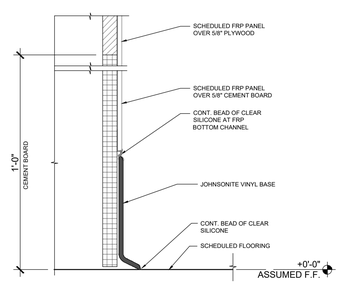
1 DETAIL AT SUSPENDED LAY-IN CEILING
SCALE: 3" = 1'-0"



8 NITRO CONDUIT DETAIL
SCALE: 3" = 1'-0"

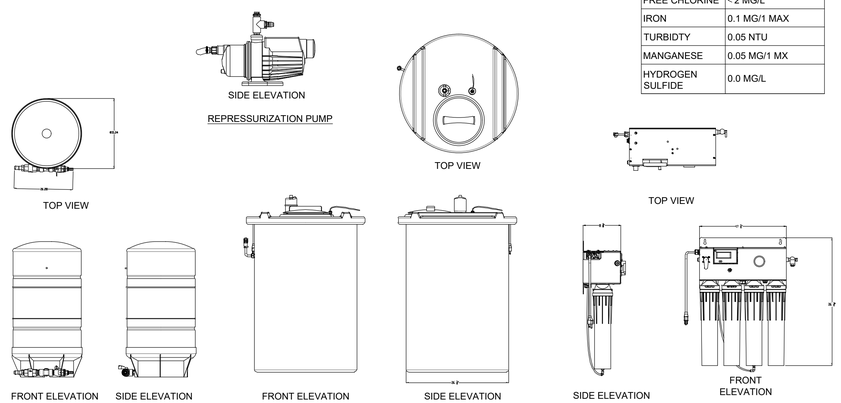


5 DOOR JAMB DETAIL AT RESTROOM
SCALE: 3" = 1'-0"

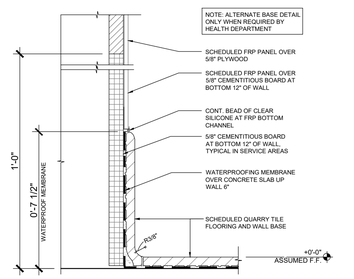


2 DETAIL AT VINYL WALL BASE
SCALE: 3" = 1'-0"

FEED TDS	UP TO 1200 PPM
FEED PH	6-10 UNITS
HARDNESS	12 GRAINS OR LESS
FREE CHLORINE	< 2 MG/L
IRON	0.1 MG/1 MAX
TURBIDTY	0.05 NTU
MANGANESE	0.05 MG/1 MX
HYDROGEN SULFIDE	0.0 MG/L



6 OPTIPURE BWS350/50 WATER TREATMENT SYSTEM
SCALE: N.T.S.



3 DETAIL AT QUARRY TILE COVE BASE (ALT)
SCALE: 3" = 1'-0"

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2592

09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
INTERIOR DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
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DOOR SCHEDULE

MARK	DOOR						FRAME			HARDWARE	REMARKS & DOOR NOTES
	TYPE	WIDTH	HEIGHT	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SET	
100	A	3'-0"	7'-0"	1-3/4"	INSULATED METAL U=0.70	PAINT	-	HM	PAINT	1	KEY PLATE INSIDE FACE
101	B	3'-0"	7'-0"	1-3/4"	HM	PAINT	-	HM	PAINT	2	KEY PLATE INSIDE FACE

HARDWARE SCHEDULE

SET NUMBER 1 - (ENTRY)

QTY.	PART	DESCRIPTION	MFGR.
1 1/2 PR.	BUTT HINGES	FULL MORTISE BB1279-450 4.5" x4.5", US26D/652, 5 KNUCKLE NON-REMOVABLE PIN	HAGER OR EQ.
1	CLOSER	LCN 1450 SURFACE MOUNTED, PULL SIDE, ALUM. FINISH (689)	LCN - EQ.
1	THRESHOLD	LOW PROFILE 2008_PK	PEMKO - EQ.
1	DOOR SWEEP	36" 225_V DOOR BOTTOM SWEEP	PEMKO - EQ.
1	WEATHER STRIP	AT PERIMETER OF DOOR OPENINGS	PEMKO - EQ.
1	VIEWER	698PB619 WIDE-ANGLE (190-200 DEGREES) AT 60" A.F.F. MAX	SCHLAGE OR EQ.
1	KICKPLATE	34" x 30" STAINLESS STEEL, PUSH SIDE ONLY	
1	DOOR HOLD OPEN	DOOR MOUNTED	
1	LOCK SET	LEVER TYPE, MECHANICAL PUSHBUTTON LOCK W/ FREE EGRESS, SATIN CHROME FINISH	SCHLAGE OR EQ.
1	PANIC HARDWARE	QED 300 SERIES 36" RIM LATCH EXIT DEVICE WITH STANDARD HEX KEY	STANLEY OR EQ.

SET NUMBER 2 - (RESTROOM)

	PART	DESCRIPTION	MFGR.
1 1/2 PR.	BUTT HINGES	FULL MORTISE 4"x4" BB1191-ANSI-A2112, BRASS WITH S/S PIN, US26D	HAGER OR EQ.
1	LOCK SET	PRIVACY LEVER TYPE (626)	SCHLAGE OR EQ.
1	CLOSER	LCN 1450 SURFACE MOUNTED, PULL SIDE, ALUM. FINISH (689)	LCN - EQ.
1	KICKPLATE	34"X12" STAINLESS STEEL, PUSH SIDE ONLY	-
1	SILENCER	AT PERIMETER OF DOOR	PEMKO - EQ.
1	DOOR HOLD OPEN	DOOR MOUNTED	
1	INDICATOR LOCK	NON-HANDED MEDIUM DUTY DEAD LOCK WITH THUMB TURN (KEYLESS) NOTE: THUMBTURN MUST OPERATE WITHOUT TIGHT GRASPING, TWISTING OR EXCESSIVE WRIST MOVEMENT (FLAG TYPE)	FALCON - EQ.
1	DOOR STOP	HINGE PIN DOOR STOP	SCHLAGE - EQ.

GENERAL DOOR NOTES

1. GC TO VERIFY THAT EGRESS DOOR & HARDWARE COMPLIES WITH ACCESSIBILITY REQUIREMENTS.
2. ENTRY DOOR TO BE MARKED "THIS DOOR TO REMAIN UNLOCKED WHEN SPACE IS OCCUPIED" - TO BE MOUNTED ABOVE THE DOOR WITH 1" HIGH LETTERS, COLOR IN CONTRAST TO THE BACKGROUND.
3. ALL DOORS SHALL OPERATE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, OR PUSH PULL ACTIVATION BARS. SEE SPECIFICATIONS.
4. DOOR CLOSER, IF PRESENT MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF LATCH.
5. EFFORTS TO OPERATE DOORS WITHIN PRESSURES ALLOWED: INTERIOR DOORS 5LBS. MAXIMUM PRESSURE TO OPERATE, FIRE DOORS 15 LBS. MAXIMUM PRESSURE TO OPERATE
6. THE WIDTH OF THE OF THE LEVEL AREA ON THE SIDE OF WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR WALLS.
7. PROVIDE DOOR BOTTOMS AND EXIT SADDLES ON ALL EXTERIOR DOORS.
8. ALL EXITS ARE TO BE OPENABLE FROM INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
9. ALL EGRESS/EXIT DOORS SHALL BE OF THE PIVOTED OR SIDE-HINGED SWINGING TYPE PER SECTION 1008.12.
10. G.C. TO VERIFY QUANTITY OF MASTER KEYS TO PROVIDE.
11. ALL DOOR HARDWARE (LOCKSETS, PUSH / PULLS, DEADLOCKS, ETC.) SHALL BE MOUNTED NOT LESS THAN 34" A.F.F., NOR MORE THAN 48" A.F.F.

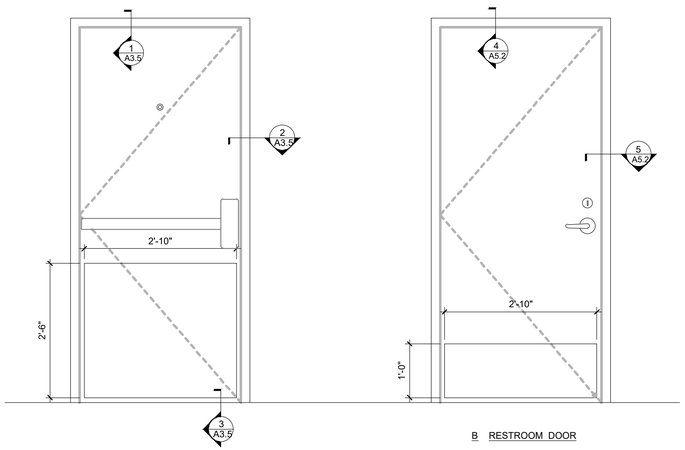
ABBREVATIONS

AL ALUMINUM

SC SOLID CORE WOOD DOOR

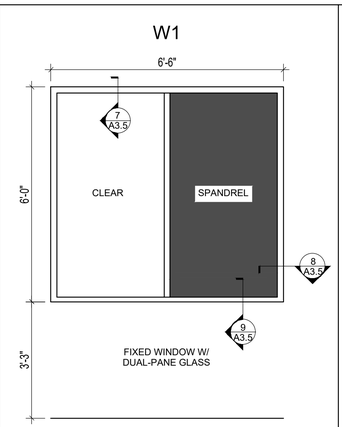
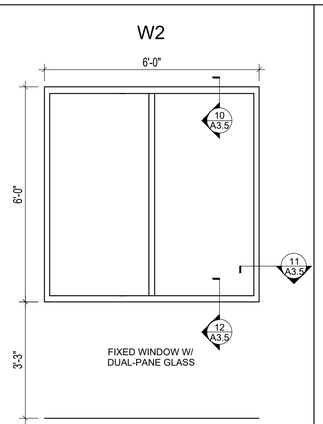
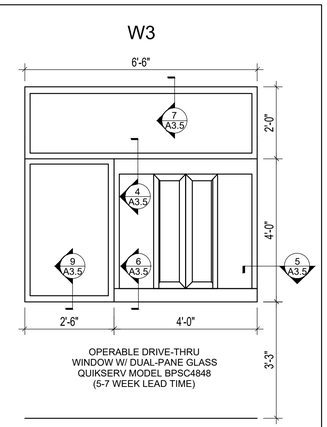
HM HOLLOW METAL

GL GLASS



B RESTROOM DOOR

2 DOOR TYPES
SCALE: NTS

WINDOW TYPES	W1	W2	W3
	 FIXED WINDOW W/ DUAL-PANE GLASS	 FIXED WINDOW W/ DUAL-PANE GLASS	 OPERABLE DRIVE-THRU WINDOW W/ DUAL-PANE GLASS QUIKSERV MODEL BPSC4848 (5-7 WEEK LEAD TIME)
MATERIAL / FINISH	AL / DARK BRONZE	AL / DARK BRONZE	DARK BRONZE
GLASS	LEFT PANEL 1" TEMPERED CLEAR GLASS RIGHT PANEL 1" SPANDREL GLASS BLACK	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS
R.O. DIMENSIONS	6'-6" W X 6'-0" H	6'-0" W X 6'-0" H	6'-6" W X 6'-0" H
NOTES	SPANDREL GLASS BEHIND REACH-IN REFRIGERATOR	CONTRACTOR TO INSTALL 35% WINDOW TINT FILM ON 2ND SURFACE (INSIDE)	CONTRACTOR TO INSTALL 35% WINDOW TINT FILM ON 2ND SURFACE (INSIDE)

SCOOTER'S COFFEE
QUIKSERV NATIONAL ACCOUNT

SALES
OFFICE: 713.849.5882
EMAIL: SALES@QUIKSERV.COM
11441 BRITTMOORE PARK DR
HOUSTON, TX 77041

SERVICE & WARRANTY
WADE ARNOLD - ACCOUNT MANAGER
OFFICE: 832.305.3300
EMAIL: WARNOLD@QUIKSERV.COM

BRIAN COBLE - WARRANTY
MIKE KEMP - PARTS
PAULO RODRIGUEZ - PARTS
EMAIL: SERVICE@QUIKSERV.COM
PHONE: 713.849.5882

1 WINDOW TYPES
SCALE: 1/2" = 1'-0"

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14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

REGISTERED ARCHITECT
STATE OF ARKANSAS
License Number 2022
STATE OF ARKANSAS

09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
WINDOW SCHEDULE

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
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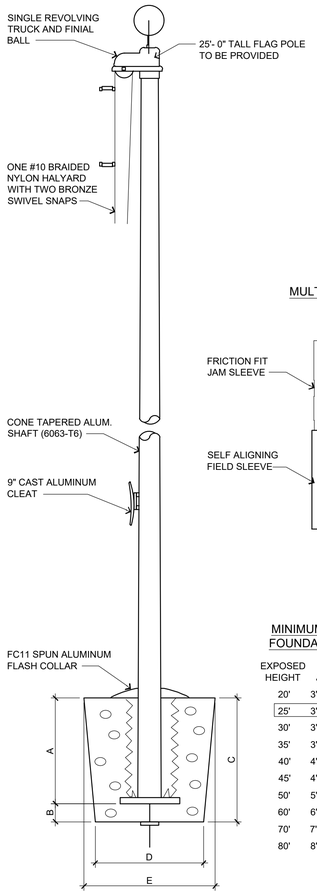
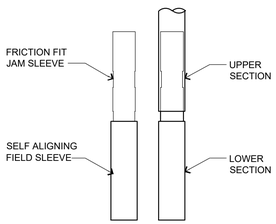


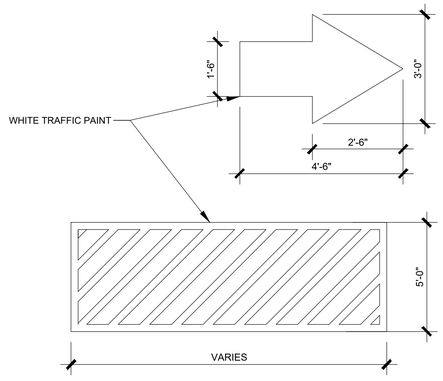
MULTI-PIECE SHAFTS



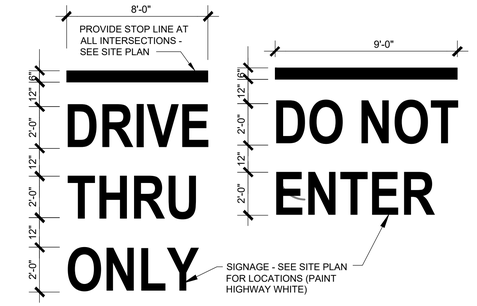
MINIMUM RECOMMENDED FOUNDATION DIMENSIONS

EXPOSED HEIGHT	A	B	C	D	E
20'	3'-0"	6"	3'-6"	24"	30"
25'	3'-0"	6"	3'-6"	24"	30"
30'	3'-0"	6"	3'-6"	24"	30"
35'	3'-6"	6"	4'-0"	30"	36"
40'	4'-0"	6"	4'-6"	36"	42"
45'	4'-6"	6"	5'-0"	42"	48"
50'	5'-0"	8"	5'-8"	42"	48"
60'	6'-0"	10"	6'-10"	42"	48"
70'	7'-0"	12"	8'-0"	48"	60"
80'	8'-0"	12"	9'-0"	48"	60"

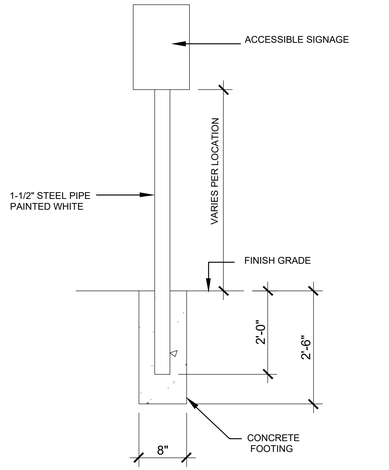
6 FLAGPOLE GROUND SET INSTALLATION
SCALE: NTS



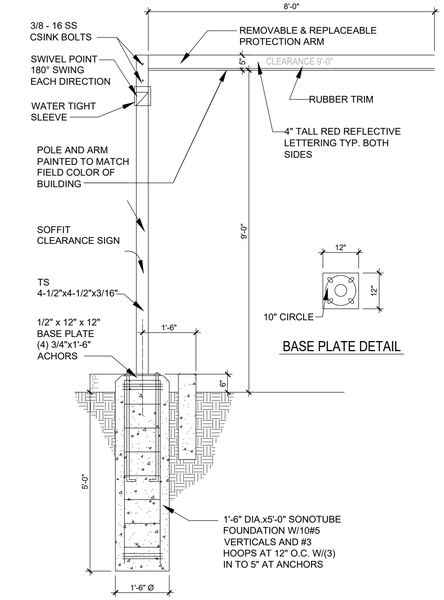
5 PAINTED TRAFFIC SYMBOLS
SCALE: NTS



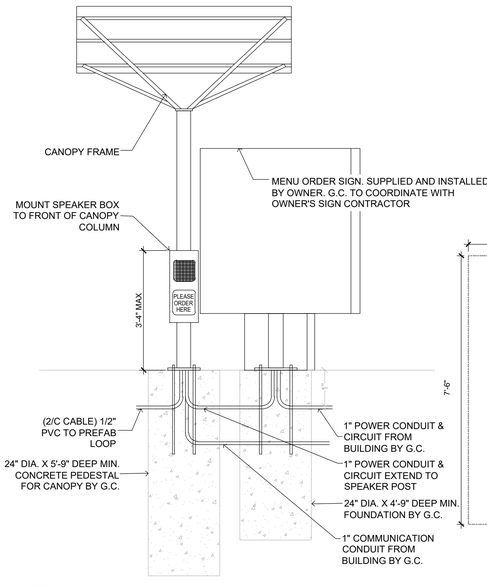
3 PAINTED SIGNAGE AT PAVING
SCALE: NTS

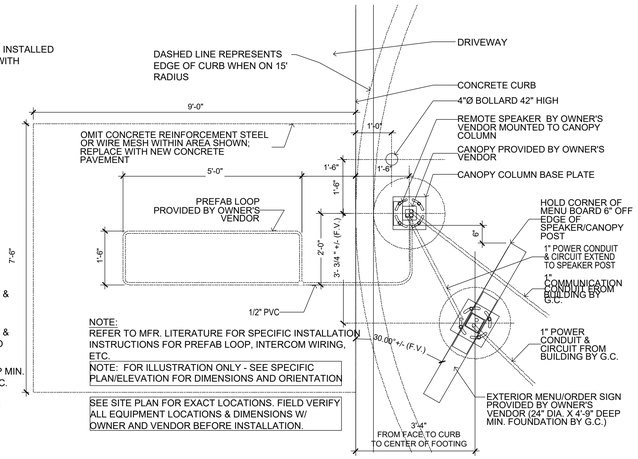


2 SIGN DETAIL
SCALE: NTS



4 HEIGHT CLEARANCE SIGN DETAIL
SCALE: NTS





1 MENU BOARD CALLL BOX DETAIL
SCALE: NTS

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Architecture / Development
14901 Quorum Drive
Suite 300
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Fax: (972) 239-5054

REGISTERED LANDSCAPE ARCHITECT
STATE OF ARKANSAS
License Number

09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
SITE DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
A7.1

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NOTE:
SIGNAGE UNDER A SEPARATE PERMIT

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Suite 300
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Ph: (972) 239-8884
Fax: (972) 239-5054



09/01/2022

Missing or invalid reference
File: ..\..\..\New Proto\Inverted Raceway Detail.pdf
Sheet: 1

Missing or invalid reference
File: ..\..\..\New Proto\Inverted Raceway Detail.pdf
Sheet: 1

4 INVERTED RACEWAY DETAIL
SCALE: NTS

\4.0 - Straight\Scooter's Signage Small.pdf
Missing or invalid reference
File: ..\..\OneDrive - GHA\Home Transfer\Scooter 4.0 Proto_4.0 Proto - February 2022 Update\4.0 - Straight\Scooter's Signage Long Side.pdf
Sheet: 1

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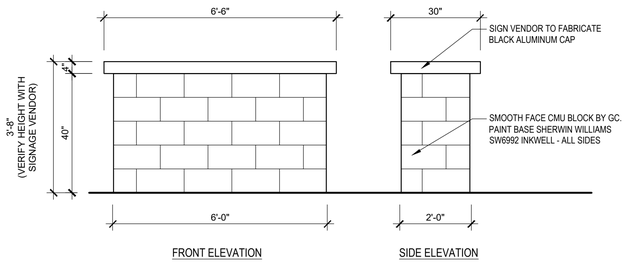
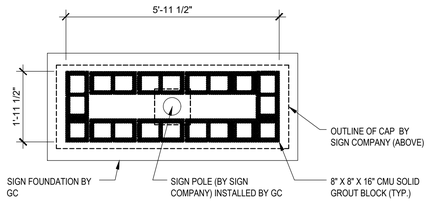
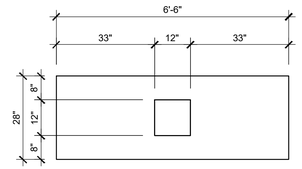
Sheet: 1



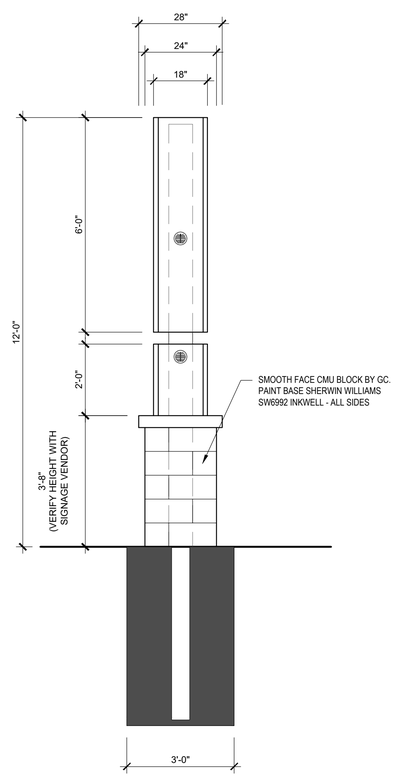
5 MONUMENT BASE ELEVATION
SCALE: 1/2" = 1'-0"



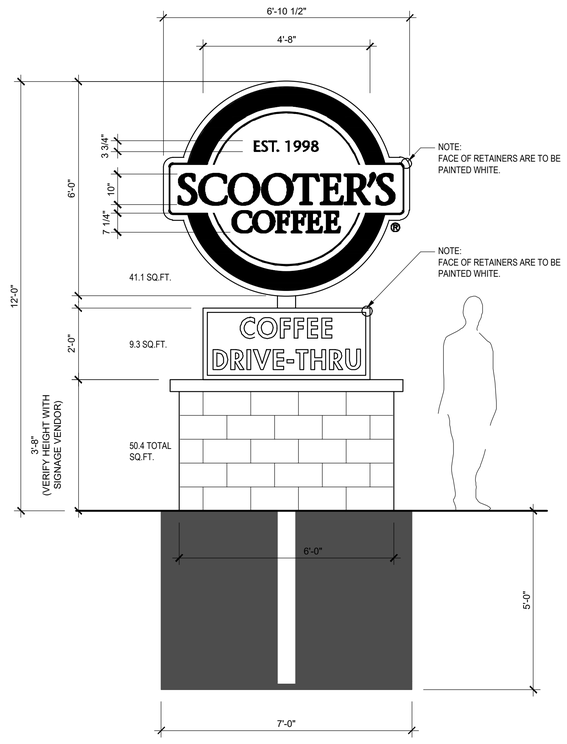
MONUMENT BASE - PLAN VIEW



3 MONUMENT CAP - PLAN VIEW
SCALE: 1/2" = 1'-0"



2 MONUMENT SIGN - SECTION
SCALE: 1/2" = 1'-0"



1 MONUMENT SIGN - FRONT ELEVATION
SCALE: 1/2" = 1'-0"



PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
MONUMENT SIGN DETAILS (FOR PRICING ONLY)

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

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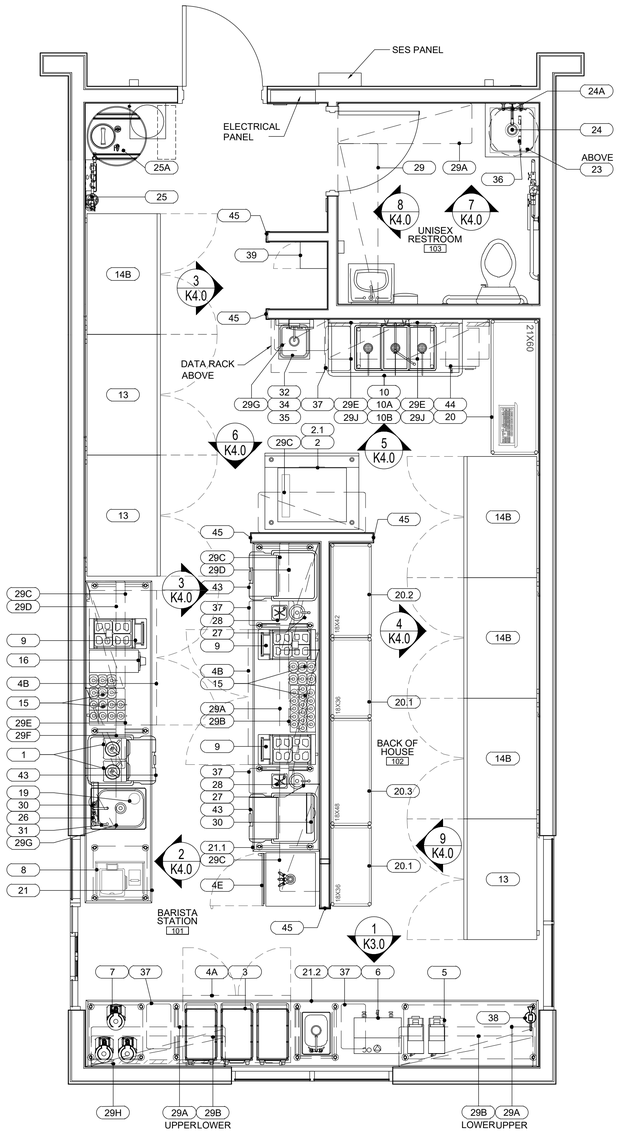
EQUIPMENT SCHEDULE

ITEM / TAG	GENERAL DESCRIPTION	QTY	MANUFACTURER	MODEL #	CONTRACTOR		CLIENT / VENDOR		REMARKS PROTO 4.0 UPDATED 6/28/21
					PROVIDE	INSTALL	PROVIDE	INSTALL	
1	BEVERAGE BLENDER	2	HARVEST ROASTING				X	X	120 V, 15 AMPS
2	ICE MAKER	1	SCOTSMAN	C0530SA-1		X	X		GC SHALL PROVIDE WATER & DRAIN CONNECTIONS. WATER MUST BE FROM FILTERED LINE GC TO PROVIDE POWER CORD
2.1	ICE STORAGE BIN	1	SCOTSMAN	B842S		X	X		
3	HIGH SPEED OVEN	3	MERRY CHEF	EIKON E2S			X	X	CLASSIC
4A	U/C REFRIGERATOR (48")	1	ATOSA	MGF8402GR			X	X	
4B	U/C REFRIGERATOR (60")	2	ATOSA	MGF8403GR			X	X	
4C	U/C REFRIGERATOR (36")	N/A	TURBO-AIR	MUR-36-N6			X	X	
4E	U/C REFRIGERATOR (24")	1	PERLICK	HC24RS			X	X	
5	COFFEE GRINDER	2	BUNN	G2 HD 22102.0000			X	X	120 V 11 AMP CIRCUIT
6	COFFEE BREWER	1	FETCO	CBS-2132XTS (E213252)			X	X	ELECTRICIAN SHALL PROVIDE RECEPTACLE AND END FOR WHIP
7	COFFEE DISPENSER	3	FETCO	L4S-10 / D451			X	X	1 GALLON SATELLITE
8	POS TERMINAL W/ PRINTER	1	CLOVER	CLOVER MINI			X	X	
9	ESPRESSO MACHINE	3	FRANKE	S700TS			X	X	30A, 220V CIRCUITS WITH TWIST LOCK NEMA L6-30R RECEPTACLES
10	3-COMP SINK	1	JOHN BOOS	-			X	X	
13	REACH-IN REFRIGERATOR (2 DOOR)	3	KINTERA	KBM2R			X	X	
14A	REACH-IN FREEZER (1 DOOR)	N/A	KINTERA	KBM1R			X	X	
14B	REACH-IN FREEZER (2 DOOR)	4	KINTERA	KBM2F			X	X	
15	SYRUP STAND	8	HARVEST ROASTING				X	X	
16	MODULAR CUP DISPENSER	1	TRIMARK				X	X	
19	BLENDER JAR RINSER	1	HAMILTON BEACH	BCR100			X	X	
20	WIRE SHELVING (ON CASTERS)	1	OLYMPIC STORAGE	CHROME FINSIH 21"x60"			X	X	VERIFY REQUIREMENTS W/ OPERATIONS
20.1	WIRE SHELVING	2	OLYMPIC STORAGE	CHROME FINSIH 18"x36"			X	X	
20.2	WIRE SHELVING	1	OLYMPIC STORAGE	CHROME FINSIH 18"x42"			X	X	
20.3	WIRE SHELVING	1	OLYMPIC STORAGE	CHROME FINSIH 18"x48"			X	X	
21	S/S COUNTER W/ PITCHER RINSER	1	JOHN BOOS	CUSTOM FAB			X	X	
21.1	S/S COUNTER W/ DIPPER WELLS	1	JOHN BOOS	CUSTOM FAB			X	X	
21.2	S/S COUNTER W/ HAND SINK	1	JOHN BOOS	CUSTOM FAB			X	X	
23	WATER HEATER	1	SEE PLUMB. SHEETS	TBD	X	X			
24	MOP SINK	1	SEE PLUMB. SHEETS	TBD	X	X			
25	WATER TREATMENT SYSTEM	1	OPTIPURE	BWS350		X	X		PROCESSOR 120V 6W
25A	WATER STORAGE TANK & PUMP	1	OPTIPURE	50 GALLON		X	X		REPRESSURIZATION PUMP 120V 2A
26	ZOOM TIMER	1	HM ELECTRONICS	NITRO		X	X		
27	BUILT-IN DIPPER WELL W/ FAUCET	2	FISHER	3041		X	X		
28	BUILT-IN FROTHING CUP RINSIER	2	ESPESSO PARTS	EPPR662		X	X		
29	WALL MOUNT WIRE SHELVING	1	OLYMPIC CHROME	18"x72"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29A	WALL MOUNT WIRE SHELVING	4	OLYMPIC CHROME	18"x60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29B	WALL MOUNT WIRE SHELVING	3	OLYMPIC CHROME	14"x60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29C	WALL MOUNT WIRE SHELVING	4	OLYMPIC CHROME	18"x48"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29D	WALL MOUNT WIRE SHELVING	2	OLYMPIC CHROME	14"x48"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29E	WALL MOUNT WIRE SHELVING	3	OLYMPIC CHROME	18"x36"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29F	WALL MOUNT WIRE SHELVING	1	OLYMPIC CHROME	14"x36"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29G	WALL MOUNT WIRE SHELVING	2	OLYMPIC CHROME	14"x24"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29H	SMART WALL	1	METRO METROSEAL	60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29J	SMART WALL	2	METRO METROSEAL	36"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
30	DRIVE-THRU ORDER MONITOR	2	32" FLAT TV			X	X		
31	DECK MOUNT SINGLE FAUCET	1	T&S BRASS	B-0207		X	X		FOR BLENDER PITCHER RINSER
32	WALL MOUNT HAND SINK	1	ADVANCE TABCO	7-PS-EC-SP-1X		X	X		
34	SOAP DISPENSER	1			X	X			SURFACE MOUNTED
35	PAPER TOWEL DISPENSER	1			X	X			SURFACE MOUNTED
36	MOP & BROOM RACK	1			X	X			SURFACE MOUNTED
37	TRASH RECEPTACLE	5	TRIMARK			X	X		
38	FIRE EXTINGUISHER	1	AMEREX	2A:10B:C	X	X			SUPPLIED WITH WALL MOUNT HOOK BRACKET 888-16591
39	EMPLOYEE LOCKERS	1	TRIMARK	DDB402			X	X	12X12X12 6 TIER G.C. TO ANCHOR TO WALL
43	MOBILE ICE STORAGE BIN	3	CAMBRO	ICS100L110			X	X	
44	SAFE	1				X	X		BOLTED TO FLOOR BY G.C.
45	WALL CORNER GUARD	10				X	X		

GENERAL NOTES:

1. ALL MILLWORK/STAINLESS STEEL COUNTERS/ WIRE SHELVES TO BE PROVIDED AND INSTALLED BY CONCEPT SERVICES, UNLESS OTHERWISE NOTED
2. THE WATER FILTRATION SYSTEM IS TYPICALLY TO BE INSTALLED IN BACK-OF-HOUSE AREA
3. THE REVERSE OSMOSIS SYSTEM IS TO BE INSTALLED NEXT TO THE WATER FILTRATION SYSTEM
4. G.C. TO INSTALL 12"W X 12"L X 12"D CONC. SLAB TO ACCEPT COMMUNICATION POST (PROVIDED BY OTHERS) - CONC. SLAB TO BE PLACED FROM FACE OF CURB IN LOCATION NOTED ON SCHEMATIC DRIVE-THRU MENU-BOARD & SPEAKER/INTERCOM PLAN - CONC. SLAB TO INCLUDE 2 BLANK CONDUITS LOCATED IN THE CENTER OF THE SLAB - ONE OF THESE CONDUITS TO BE RAN FROM THE CENTER OF SLAB TO INSIDE THE BUILDING TO THE LOCATION NEAR THE ELECTRICAL PANEL - THE OTHER CONDUIT WILL BE RAN FROM THE CENTER OF SLAB & CONNECTED TO THE UNDERGROUND LOOP SENSOR (PROVIDED BY OTHERS) IN DRIVE THRU LANE - NOTE: MENU BOARD LOCATION; PROVIDE A CONDUIT WITH POWER RAN TO THE OUTSIDE MENU BOARD LOCATION NOTED ON PLAN.
5. GC WILL NEED TO COORDINATE WITH COUNTERTOP FAB FOR PROPER LOCATION OF COUNTERTOP LEGS WITH FLOOR SINK LOCATION.



1 EQUIPMENT PLAN

SCALE: 3/8" = 1'-0"

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09/01/2022

EST. 1998 SCOOTER'S COFFEE

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Bryant, AR 72022

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TITLE:
EQUIPMENT PLAN & SCHEDULE

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
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PLUMBING ROUGH-IN NOTES:

1. ALL CONNECTIONS SHOWN ARE RELATIVE TO FOOD SERVICE EQUIPMENT ONLY.
2. THIS PLAN IS INTENDED TO SHOW EQUIPMENT PLUMBING REQUIREMENTS AND ROUGH-IN HEIGHTS ONLY.
3. GENERAL WATER PRESSURE IN KITCHEN AREA IS NOT TO EXCEED 50 PSI. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES. FLOW CONTROLS, BACK FLOW PREVENTION, WATER HAMMER ARRESTOR, GATE VALVES, FOR WATER CONNECTIONS AS REQUIRED PER LOCAL CODES. NOTE: BOOSTER DISHMACHINES REQUIRE FLOW PRESSURE OF (20-25 PSI) OR AS SPECIFIED BY MANUFACTURER FOR PROPER INSTALLATION.
4. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS TO ALL FOOD SERVICE FACILITIES EQUIPMENT. ALL WORK TO BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES AS REQUIRED.
5. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE ALL FAUCETS AND DRAINS AS SPECIFIED. PLUMBING CONTRACTOR SHALL INSTALL AND CONNECT ALL FAUCETS WITH THE NECESSARY COMPONENTS TO MAKE FINAL CONNECTIONS PER LOCAL CODES.
6. WHEN ROUGH-IN IS OUT OF WALL, THIS INDICATES CONCEALED LINES, DO NOT RUN ANY EXPOSED LINES WHERE POSSIBLE.
7. ALL DIMENSIONS ARE TAKEN FROM FINISHED FLOORS AND FINISHED WALLS OR AS NOTED ON PLAN AND ARE BASED ON ARCHITECTURAL BACKGROUND AND OVERALL DIMENSIONS.
8. GENERAL GAS PRESSURE IN KITCHEN IS TO BE VERIFIED BY THE PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL GAS PRESSURE REDUCING VALVE(S) FOR ALL FOOD SERVICE EQUIPMENT AS APPLICABLE, FOR GAS PRESSURES INDICATED BY MANUFACTURER'S SPECIFIED WATER COLUMN (WC) SECONDLY, PLUMBING CONTRACTOR IS TO FURNISH AND INSTALL GAS SHUT OFF VALVE(S) AT POINT OF CONNECTION WITH EQUIPMENT AND INSTALL QUICK DISCONNECT GAS HOSE IF APPLICABLE.
9. WATER COOLED REFRIGERATION SYSTEMS ARE TO BE PROVIDED WITH A MINIMUM OF 1.5 GPM OF WATER SUPPLY AT 70 DEGREES F PER HORSEPOWER AND A MAXIMUM OF 200 CFM OF AIR EXCHANGE PER 12,000 BTU 8 TO 10 TIMES PER HOUR.
10. ANY AND ALL EXPOSED PIPING OF FITTINGS TO BE STAINLESS STEEL, CHROME PLATED OR ENCLOSED IN A STAINLESS STEEL CONCEALED, MOUNTED CHASE, OR AS SPECIFIED BY KITCHEN EQUIPMENT CONTRACTOR.
11. PLUMBING CONTRACTOR SHALL PROVIDE ALL STEAM AND CONDENSATE PIPING, AND SHALL INCLUDE PRESSURE REDUCING VALVES, STEAM TRAPS, SAFETY VALVES, SHUT-OFF VALVES, STRAINERS AS REQUIRED PER MANUFACTURER FOR PROPER INSTALLATION AND PER CODES APPLICABLE.
12. THE KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE THE PRE-ASSEMBLED REMOTE REFRIGERATION COMPRESSOR'S) WITHOUT LINES AND REFRIGERANT, H.V.A.C. CONTRACTOR SHALL INSTALL, CONNECT AND CHARGE REFRIGERATION LINE SYSTEM'S), RUN AND CHECK FOR PROPER OPERATION UNLESS NOTED OTHERWISE.
13. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL 6" / 8" PVC CONDUIT FOR REMOTE SODA, BEER, OR LIQUOR DISPENSING SYSTEMS. PROVIDE 6" / 8" PVC CONDUIT AS INDICATED, WITH 24" MINIMUM SWEEPING BENDS.

ALL HAND WASHING SINKS SHALL BE OUTFITTED W/ OWNER FURNISHED WALL MOUNT SOAP & TOWEL DISPENSERS. DISPENSERS SHALL BE PROVIDED TO GENERAL CONTRACTOR PRIOR TO HEALTH DEPARTMENT INSPECTION.

ALL DIMENSIONED ROUGH-INS ARE BASED OFF OF SUPPLIED ARCHITECTURAL BACKGROUND. PLEASE CONFIRM ACTUAL SITE DIMENSIONS AS THIS WILL EFFECT FINAL LOCATIONS.

DIRECT ALL INDIRECT WASTES INTO FLOOR SINKS & FLOOR DRAINS PER LOCAL CODES. PLUMBING CONTRACTOR TO VERIFY THAT ALL FLOOR SINKS, FLOOR DRAINS, AND PLUMBING WASTES CONFORM TO LOCAL CODES.

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CORE DRILLING, ROOF PENETRATIONS, FLOOR CUTTING AND PATCHING FOR ALL BEER LINES, SODA LINES, REMOTE REFRIGERATION AND EXHAUST SYSTEMS.

PLUMBING ABBREVIATIONS

DIAM.	DIAMETER
C.W.	COLD WATER
H.W.	HOT WATER
W	WASTE
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
C.O.	CLEAN OUT
GAS	NATURAL & PROPANE
G.T.	GREASE TRAP
+DIM	HEIGHT TO CENTER LINE ABOVE FINISHED FLOOR

PLUMBING SYMBOLS

- GAS SUPPLY (NG/LP)
- WATER SUPPLY
- CONNECTION POINT
- WASTE THRU FLOOR
- FLOOR DRAIN
- SQUARE FLOOR SINK WITH 1/2 REMOVABLE COVER
- SQUARE FLOOR SINK WITH 3/4 REMOVABLE COVER
- SQUARE FLOOR SINK WITH FULL REMOVABLE COVER
- ROUND FLOOR SINK WITH 3/4 REMOVABLE COVER

PLUMBING ROUGH-IN NOTES

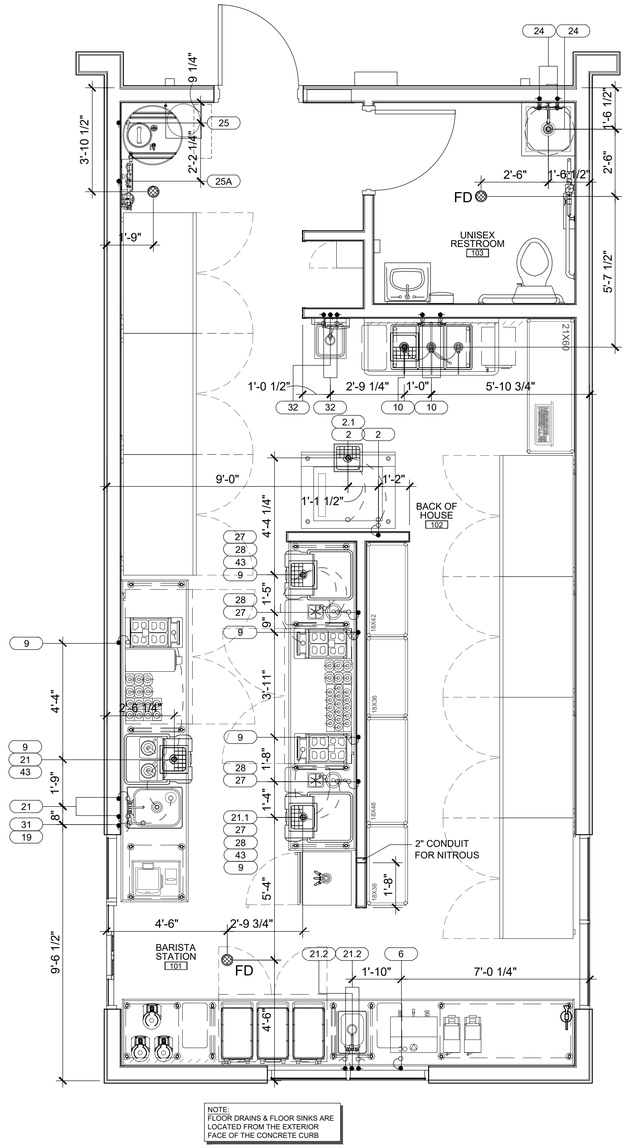
1. REQUIREMENTS SHOWN ARE FOR FOOD SERVICE EQUIPMENT ONLY. REFER TO PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
2. SEE EQUIPMENT PLAN & SCHEDULE FOR ADDITIONAL INFORMATION.
3. THE P.C. SHALL PROVIDE ALL ROUGH-IN'S & FINAL CONNECTIONS REQUIRED.
4. DOT REPRESENTS ROUGH-IN LOCATION
   DOTTED LINE REPRESENTS FINAL CONNECTION *
   CIRCLE REPRESENTS CONNECTION ON EQUIPMENT *

* FINAL CONNECTION AND CONNECTION ON EQUIPMENT ARE SCHEMATIC ONLY. (NO ATTEMPT HAS BEEN MADE TO LOCATE THEM DIMENSIONALLY).

PLUMBING ROUGH-IN SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	DIRECT WASTE SIZE (IN)	DIRECT WASTE AFF (IN)	INDIRECT WASTE SIZE (IN)	FILTERED WATER (REVERSE OSMOSIS)	PLUMBING REMARKS
2	1	ICE MAKER	0.375	60					0.75	0.5	INDIRECT WASTE TO FLOOR SINK
2.1	1	ICE STORAGE BIN							1		INDIRECT WASTE TO FLOOR SINK
6	1	COFFEE BREWER	0.375	48						0.5	
9	3	ESPRESSO MACHINE	0.375	48					0.375	0.5	INDIRECT WASTE TO FLOOR SINK
10	1	3-COMP SINK	0.5	12	0.5	12			2		INDIRECT WASTE TO FLOOR SINK
19	1	PITCHER RINSER	5/8"								HOSE TYPE CONNECTION TO ITEM #31
21	1	S/S COUNTER W/ PITCHER RINSER	0.5	12	0.5	12			1.5		INDIRECT WASTE TO FLOOR SINK
21.1	1	S/S COUNTER W/ DIPPER WELLS							2		INDIRECT WASTE TO FLOOR SINK
21.2	1	S/S COUNTER W/ HAND SINK	0.5	12	0.5	12	1.5	18			
24	1	MOP SINK	0.5	42	0.5	42	2				WASTE THRU FLOOR
25	1	WATER TREATMENT SYSTEM	0.375	72						0.5	
25A	1	WATER STORAGE TANK & PUMP	0.375	72							
27	2	BUILT-IN DIPPER WELL W/ FAUCET	0.375	22					1.5		INDIRECT WASTE TO FLOOR SINK
28	2	BUILT-IN FROTHING CUP RINSIER	0.5	22					0.5		INDIRECT WASTE TO FLOOR SINK
31	1	DECK MOUNT SINGLE FAUCET			0.5	22					
32	1	WALL MOUNT HAND SINK	0.5	22	0.5	22	1.5	18			
43	3	MOBILE ICE STORAGE BIN							.5		INDIRECT WASTE TO FLOOR SINK

NOTE: FLOOR SINKS DIMENSION ARE NOT DEAD SET, THEY WILL NEED TO BE LOCATED +6" OR MORE. GC WILL NEED TO COORDINATE WITH COUNTERTOP FAB FOR PROPER LOCATION OF COUNTERTOP LEGS WITH FLOOR SINK LOCATION.



NOTE:
FLOOR DRAINS & FLOOR SINKS ARE LOCATED FROM THE EXTERIOR FACE OF THE CONCRETE CURB

1 PLUMBING ROUGH-IN PLAN

SCALE: 3/8" = 1'-0"

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EST. 1998 SCOOTER'S COFFEE

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TITLE:
EQUIPMENT PLUMBING ROUGH-IN PLAN & NOTES

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
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ELECTRICAL ROUGH-IN NOTES:

1. ALL FINAL CONNECTIONS SHOWN ON THIS DRAWING ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT ARE SHOWN IN THEIR APPROXIMATE LOCATION.
2. LOCATION OF ROUGH-IN STUB IS INDICATED AT +DIMENSION, WHICH IS THE STUB-OUT ABOVE THE FINISHED FLOOR.
3. All DIMENSIONS ARE FROM AN ESTABLISHED BUILDING COLUMN LINE OR WALL AS INDICATED.
4. NUMBER NOT USED.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL SWITCHES, STARTERS, DISCONNECTS, ETC. FOR ALL EQUIPMENT AND ICE MACHINES UNLESS NOTED OTHERWISE, ALL DISCONNECTS OR LOCK-OUT DEVICES, STARTERS, ETC. TO MEET N.E.C. AND O.S.H.A. STANDARDS.
6. ELECTRICAL CONTRACTOR TO PROVIDE CONTROL WIRING AND ELECTRICAL SERVICE FOR ALL REMOTE REFRIGERATION SYSTEMS. ALSO COORDINATE LOCATION FOR SERVICE WITH ELECTRICAL ENGINEER.
7. ELECTRICAL CONTRACTOR TO PROVIDE WRAP AROUND HEATER CABLE ON ALL EVAPORATOR DRAIN LINES IN WALK-IN FREEZER.
8. ELECTRICAL CONTRACTOR TO INSTALL AND WIRE EXTRA LIGHTS IN WALK-IN COOLERS AND FREEZERS AS REQUIRED, THRU DOOR SWITCH.
9. ELECTRICIAN TO BRANCH TO CONNECTION WHERE REQUIRED AND TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND ICE MACHINES. ALSO DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES INCLUDING INTER-WIRING TO APPLIANCES AS REQUIRED BY THE SPECIFICATIONS AND/ OR DRAWINGS.
10. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL. THOSE REQUIRED IN BUILDING STRUCTURE ARE TO BE FURNISHED BY THE ELECTRICIAN, WITH RECEPTACLE. ALL MAIN BREAKER PANELS AND DISCONNECT SWITCHES REQUIRED BY OTHER ELECTRICAL DRAWINGS ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT TIME OF INSTALLATION.
11. IF ELECTRICAL COOKING EQUIPMENT IS SPECIFIED, ELECTRICAL CONTRACTOR TO PROVIDE TIE-IN WIRING BETWEEN FIRE PROTECTION BOTTLE CONTROL HEAD, MICRO-SWITCH AND COOKING EQUIPMENT TO COMPLY WITH APPLICABLE LOCAL CODE REQUIREMENTS FOR EMERGENCY SHUTDOWN OF ENTIRE COOKLINE. SHUNT TRIP CIRCUITRY MAY BE REQUIRED, SEE OTHER ELECTRICAL PLANS.
12. VERIFY WITH ARCHITECT OR OWNER'S REPRESENTATIVE, FINAL EQUIPMENT REQUIREMENTS BEFORE ORDERING MATERIAL. REVISIONS TO EQUIPMENT OR PERFORMANCE REQUIREMENTS MAY AFFECT THE ELECTRICIANS WORK.
13. ALL WORK, RELATING TO THE INSTALLATION AND HOOKUP OF THE SPECIFIED EQUIPMENT, IS TO BE PERFORMED IN FULL ACCORDANCE WITH APPLICABLE LOCAL, CITY, COUNTY, STATE AND FEDERAL CODES AND ALL OTHER GOVERNMENTAL REGULATORY REQUIREMENTS.
14. ELECTRICAL CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS NECESSARY TO PROVIDE SERVICE TO LOCATIONS AND EQUIPMENT AS SHOWN ON THIS SHEET UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE FOR MAKING FINAL CONNECTIONS TO EQUIPMENT AND FITTINGS SUPPLIED AND INSTALLED BY FSEC.
15. ALL ROUGH-INS SHOWN AT WALL LOCATIONS ARE TO BE LOCATED WITHIN INTERIOR OF WALL. COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL FLOOR PLAN & BASE BUILDING ELECTRICAL REQUIREMENTS.

ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT, J BOXES AND STUB-INS FOR ALL DATA LINES TO AND FROM COMPUTERS, P.O.S. SYSTEM AND PRINTERS. PLEASE VERIFY ELECTRICAL REQUIREMENTS FROM P.O.S. PROVIDER.

ELECTRICAL CONTRACTOR TO INSTALL CONVENIENCE OUTLETS IN OFFICE AND OTHER OWNER AND ARCHITECT SPECIFIED AREAS.

ALL DIMENSIONED ROUGH-INS ARE BASED OFF OF SUPPLIED ARCHITECTURAL BACKGROUND. PLEASE CONFIRM ACTUAL SITE DIMENSIONS AS THIS WILL EFFECT FINAL LOCATIONS.

DIRECT ALL INDIRECT WASTES INTO FLOOR SINKS & FLOOR DRAINS PER LOCAL CODES. PLUMBING CONTRACTOR TO VERIFY THAT ALL FLOOR SINKS, FLOOR DRAINS, AND PLUMBING WASTES CONFORM TO LOCAL CODES.

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CORE DRILLING, ROOF PENETRATIONS, FLOOR CUTTING AND PATCHING FOR ALL BEER LINES, SODA LINES, REMOTE REFRIGERATION AND EXHAUST SYSTEMS.

ELECTRICAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
B.F.F.	BELOW FINISH FLOOR
S.U.	STUB UP FROM FLOOR
D.F.A.	DOWN FROM ABOVE
A	AMPS
V	VOLTS
PH. (ϕ)	PHASE
PWR	POWER
J.B.	JUNCTION BOX
CONN.	CONNECTION
D.R.	DUPLEX RECEPTACLE
D.C.O.	DUPLEX CONVENIENCE OUTLET
Q.R.	QUAD RECEPTACLE
S.R.	SINGLE RECEPTACLE
KW.	KILOWATT
H.P.	HORSEPOWER
+DIM	HEIGHT TO CENTER LINE OF OUTLET BOX ABOVE FINISHED FLOOR

ELECTRICAL SYMBOLS

- JUNCTION BOX SINGLE OR MULTI-GANG
- DUPLEX RECEPTACLE SCHEDULED OR CONVENIENCE
- QUAD RECEPTACLE SCHEDULED OR CONVENIENCE
- SINGLE RECEPTACLE VOLTAGE & PHASE VARIES
- SWITCH LIGHT SWITCH OR PULL STATION
- EXHAUST HOOD LIGHT FIXTURE VAPOR PROOF LED OR CFL
- WALK-IN LIGHT FIXTURE VAPOR PROOF LED OR CFL
- PANEL BOARD OR LOAD CENTER

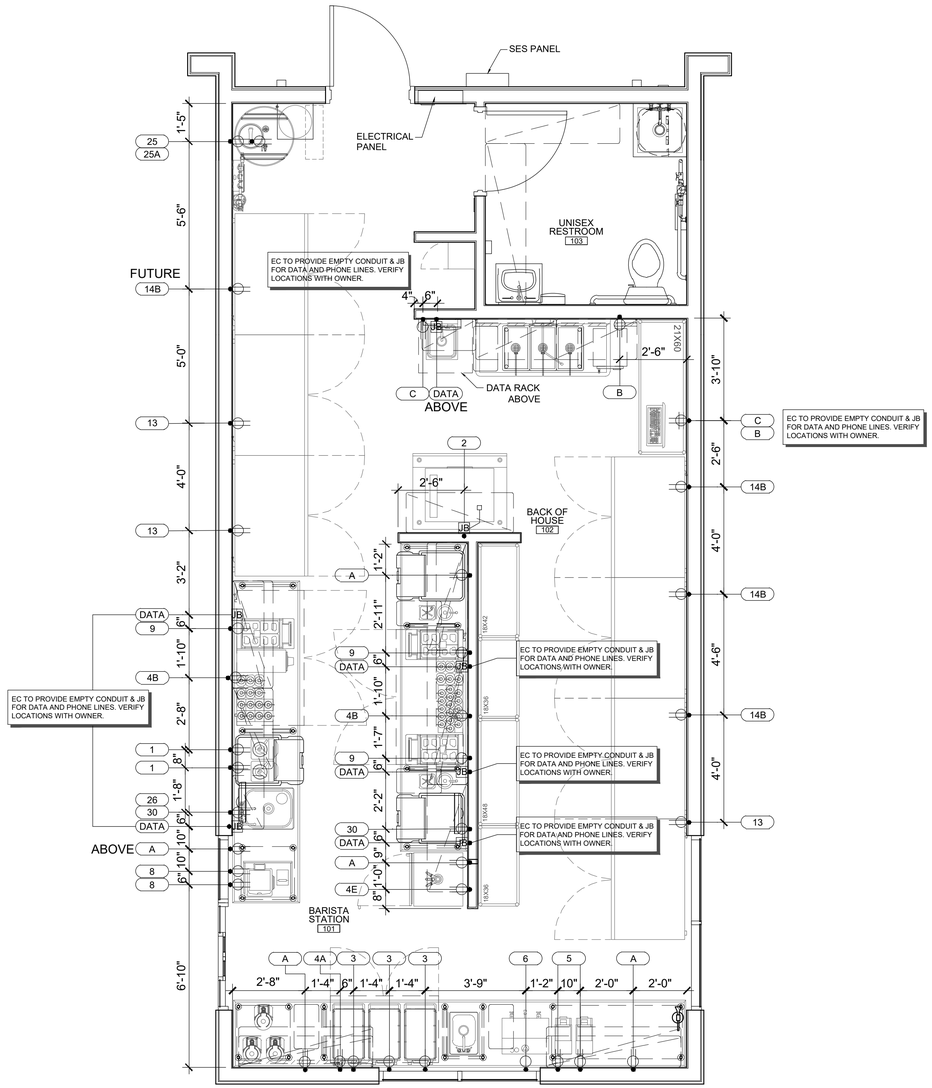
ELECTRICAL ROUGH-IN NOTES

1. REQUIREMENTS SHOWN ARE FOR FOOD SERVICE EQUIPMENT ONLY. REFER TO ELECTRICAL PLANS FOR ADDITIONAL REQUIREMENTS.
2. SEE EQUIPMENT PLAN & SCHEDULE FOR ADDITIONAL INFORMATION.
3. THE E.C. SHALL PROVIDE ALL ROUGH-IN'S & FINAL CONNECTIONS REQUIRED.
4. DOT REPRESENTS ROUGH-IN LOCATION
   DOTTED LINE REPRESENTS FINAL CONNECTION *
   SQUARE REPRESENTS CONNECTION ON EQUIPMENT *

* FINAL CONNECTION AND CONNECTION ON EQUIPMENT ARE SCHEMATIC ONLY. (NO ATTEMPT HAS BEEN MADE TO LOCATE THEM DIMENSIONALLY).

ELECTRICAL ROUGH-IN SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	AMPS	KW	HP	VOLTS	PHASE	CYCLE	DIRECT	PLUG	NEMA	ELECTRICAL AFF (IN)	ELECTRICAL REMARKS
1	2	BEVERAGE BLENDER	13.0			120	1	60		X		48	EC TO PROVIDE CORD & PLUG
2	1	ICE MAKER	11.4			115	1	60	X			60	
3	3	HIGH SPEED OVEN	16.0	3.7		230	1	50		X	6-30P	48	
4A	1	U/C REFRIGERATOR (48")	3.0	0.6	0.2	115	1	60		X	5-15P	18	
4B	2	U/C REFRIGERATOR (60")	6.6		0.2	115	1	60		X	5-15P	18	
4C	N/A	U/C REFRIGERATOR (36")	6.6		0.2	115	1	60		X	5-15P	18	
4E	1	U/C REFRIGERATOR (24")	2.3		0.2	115	1	60		X	5-15P	18	
5	2	COFFEE GRINDER	11.0		0.8	120	1	60		X	5-15P	30	
6	1	COFFEE BREWER	23.7	5.2		120/220	1	60		X		30	EC TO PROVIDE CORD & PLUG
8	1	POS TERMINAL W/ PRINTER	15.0			120	1	60		X	5-15P	30	DEDICATED CIRCUIT
9	3	ESPRESSO MACHINE	30.0	6.2		208	1	60		X		48	EC TO PROVIDE CORD & PLUG
13	3	REACH-IN REFRIGERATOR (2 DOOR)	5.4	1.1	0.5	115	1	60		X	5-15P	48	
14A	N/A	REACH-IN FREEZER (1 DOOR)	9.6	1.1	1.0	115	1	60		X	5-15P	48	
14B	4	REACH-IN FREEZER (2 DOOR)	9.6	1.1	1.0	115	1	60		X	5-15P	48	
25	1	WATER TREATMENT SYSTEM				120	1	60		X	5-15P	84	
25A	1	WATER STORAGE TANK & PUMP	2.0			120	1	60		X	5-15P	18	
26	1	ZOOM TIMER	2.5			120	1	60		X	5-15P	84	
30	2	DRIVE-THRU ORDER MONITOR	15.0			120	1	60		X	5-15P	72	DEDICATED CIRCUIT
A	5	CONVENIENCE OUTLET (+48" AFF)	15.0			120	1	60		X	5-15P	48	MOUNT HORIZONTALLY AS NEEDED
B	2	CONVENIENCE OUTLET (+18" AFF)	15.0			120	1	60		X	5-15P	108	MOUNT HORIZONTALLY AS NEEDED
C	2	CONVENIENCE OUTLET (+42" AFF)	15.0			120	1	60		X	5-15P	42	MOUNT HORIZONTALLY AS NEEDED



1 ELECTRICAL ROUGH-IN PLAN

SCALE: 3/8" = 1'-0"

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REGISTERED ARCHITECT STATE OF ARKANSAS License Number 2002

09/01/2022

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EQUIPMENT ELECTRICAL ROUGH-IN PLAN & NOTES

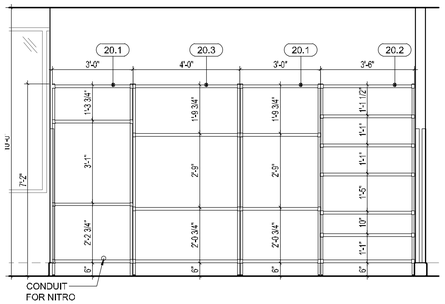
KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

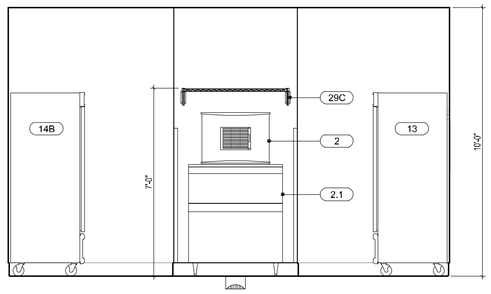
[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
K3.0



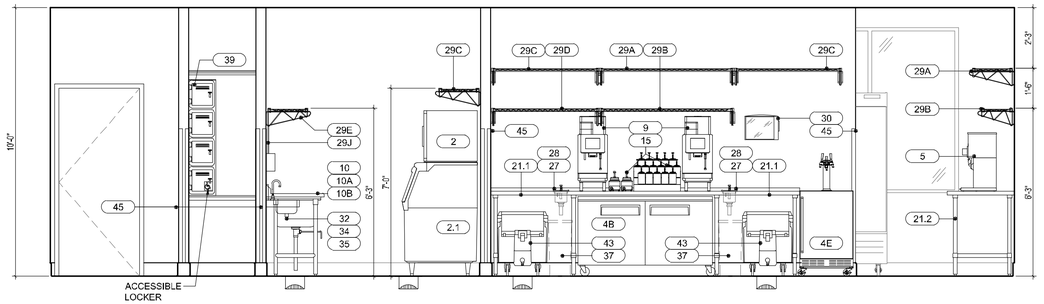
9 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



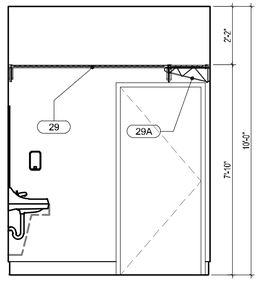
6 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



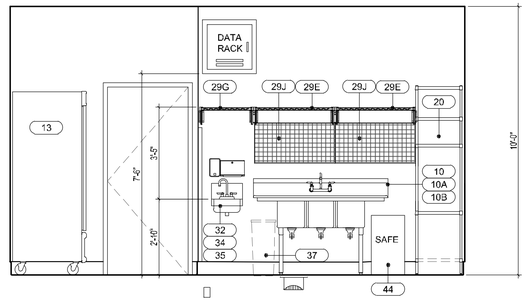
3 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



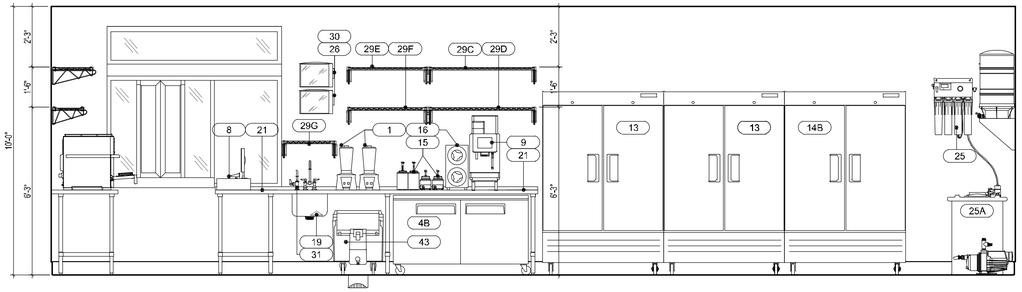
8 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



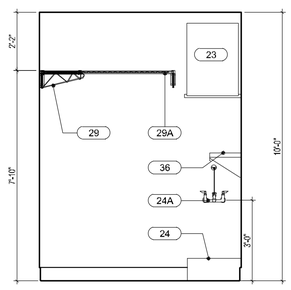
5 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



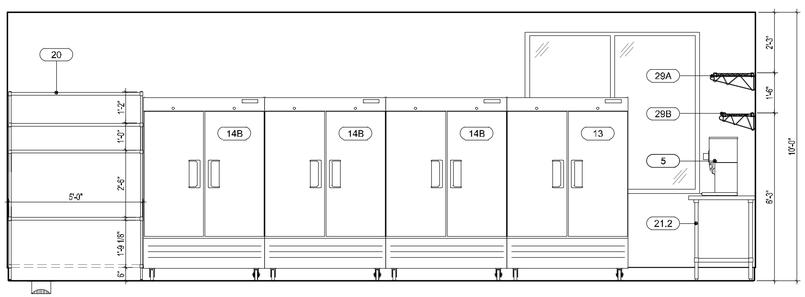
2 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



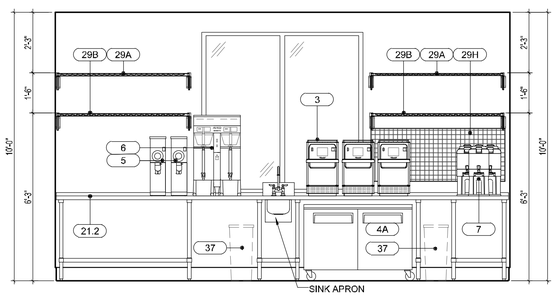
7 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



4 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"



1 EQUIPMENT ELEVATION

SCALE: 3/8" = 1'-0"

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09/01/2022

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
EQUIPMENT
ELEVATIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022

DATE:
09/01/2022

PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
K4.0

STRUCTURAL NOTES

GENERAL

1. THIS PROJECT SHALL MEET ALL REQUIREMENTS OF THE CITY OF BRYANT, ARKANSAS AND THE 2012 INTERNATIONAL BUILDING CODE.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS (COORDINATE WITH APPLICABLE TRADES). THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.
4. COMPLETE SHOP DRAWINGS AS REQUIRED FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. ALLOW TEN (10) BUSINESS DAYS FOR REVIEW FROM THE TIME SUBMITTALS ARE RECEIVED IN OUR OFFICE.
5. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
6. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

SPECIAL INSPECTION

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION:
(REFERENCE ADJACENT TABLES FOR ADDITIONAL INFORMATION.)

1. CAST-IN-PLACE CONCRETE
2. SOILS AND FOUNDATIONS

DESIGN LOADS

1. ROOF LIVE LOAD 20 PSF
2. ROOF DEAD LOAD 20 PSF
3. WIND LOAD BASED ON ASCE 7-10
   V_{ULT} = 115 MPH
   V_{ASD} = 89 MPH
   RISK CATEGORY = II
   EXPOSURE CATEGORY B
   INTERNAL PRESSURE COEFFICIENT GC_{pi}: ±0.18
   COMPONENTS AND CLADDING:
   (ROOF ANGLE 0 TO 7°)
   ULTIMATE
   +16.0 PSF (ZONE 1, EFF. AREA = 100 FT.²)
   −21.8 PSF
   +16.0 PSF (ZONE 2, EFF. AREA = 100 FT.²)
   −25.8 PSF
   +16.0 PSF (ZONE 3, EFF. AREA = 100 FT.²)
   −25.8 PSF
   +22.7 PSF (ZONE 4, EFF. AREA = 20 FT.²)
   −24.7 PSF
   +22.7 PSF (ZONE 5, EFF. AREA = 20 FT.²)
   −29.7 PSF
   43.8 PSF (PARAPETS, LOAD CASE A)
   47.8 PSF (PARAPETS, LOAD CASE B)
4. SEISMIC LOADS
   RISK CATEGORY: II
   I_e = 1.0
   S_s = 0.349g
   S_1 = 0.147g
   SITE CLASS C
   S_{DS} = 0.279g
   S_{D1} = 0.162g
   DESIGN CATEGORY: C
   BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT FRAME WALLS WITH SHEAR PANELS-WOOD STRUCTURAL PANELS.
   DESIGN BASE SHEAR V = 2,466 LBS
   R = 6.5
   ANALYSIS PROCEDURE: SIMPLIFIED ANALYSIS
5. SNOW LOADS
   GROUND SNOW Pg = 10 PSF
   FLAT ROOF SNOW Pf = 10 PSF
   C_e = 1.0
   I_S = 1.0
   C_t = 1.0
   REFER TO S0.1 FOR SNOW DRIFT LOADING REQUIREMENTS.
6. SEE ROOF PLAN FOR ADDITIONAL MECHANICAL LOADS.

FOUNDATION DESIGN AND SITEWORK FOR BUILDING

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS CONTAINED IN A GEOTECHNICAL INVESTIGATION REPORT BY: MTA ENGINEERS, INC.; DATED AUGUST 12, 2022; REPORT NO. GE022-294.
2. FOUNDATION DESIGN IS BASED ON A NET ALLOWABLE BEARING PRESSURE OF 2,500 PSF FOUNDED AT LEAST TWENTY FOUR (24) INCHES BELOW ADJACENT EXTERIOR GRADE INTO SUITABLE NEWLY PLACED SELECT FILL. CONTINUOUS STRIP FOOTINGS AND COLUMN FOOTING WIDTHS SHALL BE TWELVE (12) INCHES MINIMUM.
3. THE CONTRACTOR SHALL READ THE SOILS REPORT REFERENCED ABOVE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SITE AND SUBGRADE PREPARATION RECOMMENDATIONS CONTAINED THEREIN. INFORMATION CONTAINED IN THE "FOUNDATION DESIGN AND SITEWORK FOR BUILDING" SECTION OF THE STRUCTURAL NOTES REPRESENTS A GENERAL OVERVIEW OF SITE WORK TO BE PERFORMED, AND SHALL NOT BE USED AS A SUBSTITUTE FOR THE SOILS REPORT REFERENCED ABOVE.
4. REMOVE ALL VEGETATION AND DEBRIS, INCLUDING PAVEMENTS, SIDEWALKS, BUILDING FOUNDATIONS, AND ABANDONED UTILITIES.
5. REMOVE EXISTING EXPANSIVE CLAY MATERIAL, 2-3 FT BELOW EXISTING GRADE, IDENTIFIED AS STRATUM 1 IN THE GEOTECHNICAL REPORT AND REPLACE WITH STRUCTURAL FILL.
6. SUBGRADES WITHIN THE PROPOSED BUILDING AREA SHOULD BE PROOFROLLED, IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, WITH APPROPRIATE RUBBER-TIRE MOUNTED HEAVY CONSTRUCTION EQUIPMENT OR A LOADED DUMP TRUCK TO DETECT LOOSE YIELDING SOILS WHICH MUST BE REMOVED TO A STABLE SUBGRADE.
7. THE APPROVED SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6 TO 8 INCHES, MOISTURE CONDITIONED AND PROPERLY RECOMPACTED.
8. DURING WET WEATHER, SUBGRADE STABILITY PROBLEMS SHOULD BE EXPECTED. IN THE EVENT THE SUBGRADE IS EXPOSED TO SIGNIFICANT INCREASES IN MOISTURE AND SUBGRADE STABILITY PROBLEMS DEVELOP, OVEREXCAVATION ON THE ORDER OF 6 TO 8 INCHES SHOULD BE EXPECTED TO ACHIEVE A STABLE SUBGRADE.
9. PROVIDE POSITIVE DRAINAGE AWAY FROM EXCAVATIONS SO AS NOT TO ALLOW STANDING WATER FOR LONG PERIODS OF TIME.
10. ON SITE SOILS ARE NOT EXPECTED TO EXPERIENCE SUBSTANTIAL VOLUMETRIC CHANGES AND POTENTIAL VERTICAL MOVEMENTS DUE TO SHRINK/SWELL, ARE ESTIMATED TO BE LESS THAN 1 INCH. ANY MATERIAL REQUIRED TO LIFT SUGRADE ELEVATIONS SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT, MOISTURE CONDITIONED AND COMPACTED ACCORDINGLY.
11. PROVIDE A VAPOR BARRIER CONSISTING OF 10 MIL POLYETHYLENE SHEETING PLACED DIRECTLY BELOW THE FLOOR SLAB.
12. DO NOT PUNCTURE THE VAPOR BARRIER. LAP AND TAPE ENDS.
13. PERFORM ALL SITEWORK UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
14. REFERENCE THE SOILS REPORT FOR ANY QUESTIONS CONCERNING SUBGRADE PREPARATION, SITE CONDITIONS OR FOUNDATION PLACEMENT.

CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS, (U.N.O.).
2. CEMENT SHALL CONFORM TO ASTM C150, AND SHALL BE TYPE I OR TYPE II MATERIAL, U.N.O.
3. MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.55.
4. MINIMUM CEMENT CONTENT SHALL BE 5 SACKS PER CUBIC YARD.
5. TYPE C OR F FLY ASH MAY BE USED UP TO 20% OF TOTAL CEMENT CONTENT BY VOLUME. THIS IS ONLY FOR CONCRETE SPECIFIED IN THESE STRUCTURAL DRAWINGS. REFER TO SPECIFICATIONS BY OTHER DISCIPLINES.
6. MAXIMUM SLUMP SHALL BE 5 IN., U.N.O.
7. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301.
8. CONCRETE MIX SHALL NOT USE ANY ADMIXTURES WHICH CONTAIN CALCIUM CHLORIDE.
9. CONCRETE TEST REPORTS SHALL BE MADE AVAILABLE AT THE JOB SITE. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN PER SPECIFICATIONS PRIOR TO PLACEMENT CONCRETE.

REINFORCING STEEL

1. BARS SHALL BE ASTM A615, GRADE 60.
2. DETAIL, FABRICATE, AND PLACE IN CONFORMANCE WITH ACI 315 AND 318.
3. LAP ALL REINFORCING STEEL 40 BAR DIAMETERS (U.N.O.).
4. LAP CONTINUOUS BARS IN GRADE BEAMS 40 BAR DIAMETERS (U.N.O. ON DRAWINGS). TOP BARS TO BE SPLICED BETWEEN SUPPORTS AND BOTTOM BARS TO BE SPLICED AT SUPPORTS, AS APPLICABLE.
5. PROVIDE ACCESSORIES FOR SUPPORT OF ALL REINFORCING.
6. SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
7. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BAR	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1½
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS:	
#14 AND #18 BARS	1½
#11 BAR AND SMALLER	¾
BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1½

CONCRETE MASONRY UNITS

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE 1, WITH COMPRESSIVE STRENGTH (f'm) OF 1,500 PSI
2. GROUT FOR CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI
3. MORTAR SHALL BE TYPE N, U.N.O.
4. REINFORCING IN MASONRY WALLS SHALL BE GRADE 60, ASTM A615.
5. TYPICAL REINFORCING:
   VERTICAL - REF. PLAN FOR SIZE AND SPACING
   HORIZONTAL - 9 GAGE WIRE LADDER-MESH (BY HOHMANN & BARNARD INC.) OR APPROVED EQUAL AT 16" O.C. IN MASONRY WALLS, EXCEPT AT 8" O.C. FOR WALL BELOW GRADE OR STACK BOND WALLS (U.N.O. ON DRAWINGS).
6. MATERIALS AND WORKMANSHIP SHALL CONFORM TO DESIGN REQUIREMENTS BASED UPON THE AMERICAN CONCRETE INSTITUTES "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530.

STRUCTURAL WOOD

1. WOOD FRAMING SHALL COMPLY WITH THE SOUTHERN PINE INSPECTION BUREAU, OR SHALL CONFORM TO SPECIFICATIONS AS PUBLISHED BY THE WESTERN WOODS PRODUCTS ASSOCIATION.
2. WOOD FRAMING 2 INCHES X 4 INCHES AND LARGER SHALL BE NO. 2 SOUTHERN PINE, NO. 2 DOUGLAS FIR LARCH, OR EQUIVALENT (U.N.O.).
3. ALL EXPOSED WOOD FRAMING, UNLESS NOTED OTHERWISE, SHALL BE "SELECT" GRADE LUMBER.
4. ALL PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED (USE CATEGORY 2 AS SPECIFIED BY AWPA) FOR MOISTURE PROTECTION. ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED (USE CATEGORY 3B AS SPECIFIED BY AWPA) OR WESTERN RED CEDAR.
5. STRUCTURAL COMPOSITE LUMBER (SCL)
   A. STRUCTURAL CAPACITIES FOR STRUCTURAL COMPOSITE LUMBER SHALL BE ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5456.
   B. MINIMUM DESIGN VALUES FOR SCL MEMBER SHALL CONSIST OF THE FOLLOWING:
      a. LAMINATED VENEER LUMBER (LVL); 1½" TO 7" THICK MEMBERS (BEAM/JOIST ORIENTATION)
         E = 2.0x10⁶ PSI $F_{c(PERP)}$ = 750 PSI
         F_b = 2,900 PSI $F_{c(PARAL)}$ = 2,635 PSI
         F_v = 285 PSI SG = 0.50
         F_t = 1,660 PSI
6. ROOF DECK
   A. ALL ROOF DECK SHALL BE APA RATED GRADE PLYWOOD OR OSB (ORIENTED STRAND BOARD). GRADES MAY HAVE EITHER AN EXTERIOR OR EXPOSURE I DESIGNATION (U.N.O.).
   B. ROOF SHEATHING SHALL BE 19/32 INCH THICK MINIMUM (40/20) U.N.O.
   C. STAGGER ENDS OF SHEETS.
   D. PROVIDE BLOCKING AT EDGES OF ALL ROOF SHEETS. PLYWOOD CLIPS MAY BE USED AT ROOF INSTEAD OF BLOCKING, UNLESS BLOCKING REQUIRED FOR NAILING.
   E. NAIL EDGES OF ROOF SHEETS AT 6 IN. O.C. MAXIMUM (U.N.O.).
   F. NAIL FACES OF ROOF SHEETS AT 12 IN. O.C. MAXIMUM.
   G. USE MINIMUM 10d COMMON NAILS (U.N.O.).
7. WALL SHEATHING
   A. ALL WALL SHEATHING SHALL BE APA RATED GRADE PLYWOOD OR OSB (ORIENTED STRAND BOARD). GRADES MAY HAVE EITHER AN EXTERIOR OR EXPOSURE I DESIGNATION (U.N.O.).
   B. WALL SHEATHING SHALL BE 15/32 INCH THICK MINIMUM (32/16) U.N.O.
   C. STAGGER ENDS OF SHEETS.
   D. PROVIDE BLOCKING AT EDGES OF ALL SHEARWALL SHEETS.
   E. NAIL EDGES OF SHEARWALL SHEETS PER SCHEDULE ON PLAN (OTHER WALLS AT 6 IN. O.C. MAXIMUM).
   F. NAIL FACES OF WALL SHEETS AT 12 IN. O.C. MAXIMUM.
   G. USE MINIMUM 10d COMMON NAILS (U.N.O.).
8. CONNECTORS SHALL BE AS MANUFACTURED BY THE SIMPSON CO. OR APPROVED EQUAL. CONNECTORS USED WITH PRESSURE TREATED LUMBER OR IN UNCONDITIONED SPACE, SHALL HAVE THE ZMAX (G185) COATING. ALL NAILS USED FOR CONNECTORS SHALL MATCH THOSE SPECIFIED BY THE SUPPLIER'S PRODUCT CATALOG.
9. NAILING, UNLESS NOTED OTHERWISE, SHALL BE PER THE 2012 INTERNATIONAL BUILDING CODE.
10. ALL REFERENCES TO NAILS ON THE STRUCTURAL DRAWINGS ARE BASED ON COMMON WIRE NAILS (U.N.O.) WITH THE FOLLOWING DIMENSIONS, TYPICAL, U.N.O.
    8d COMMON: 0.131" DIA. X 2½" LONG
    10d COMMON: 0.148" DIA. X 3" LONG
    16d COMMON: 0.162" DIA. X 3½" LONG
    POWER AUTOMATED NAIL GUNS SHALL USE NAILS TO MATCH THE ABOVE NAILS AS SPECIFIED.

POST-INSTALLED ANCHORS

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, THE FOLLOWING HILTI OR SIMPSON PRODUCTS MAY BE USED. CONTACT HILTI AT (800) 879-8000 OR SIMPSON AT WWW.STRONGTIE.COM FOR PRODUCT RELATED QUESTIONS.
   A. ANCHORAGE TO CONCRETE
      a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         (1) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD OR HAS -E THREADED ROD PER ICC-ES ESR-3187.
         (2) SIMPSON SET-3G SYSTEM WITH F1554 THREADED ROD PER ICC-ES ESR-4057
      b. MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         (1) HILTI KWIK HUS EZ AND KWIK HUS EZ-I SCREW ANCHORS PER ICC-ES ESR-3027
         (2) SIMPSON TITEN HD SCREW ANCHORS PER ICC-ES ESR-2713
         (3) SIMPSON TITEN HD STAINLESS STEEL SCREW ANCHOR PER IAMPO UES ER-493
   B. REBAR DOWELING INTO CONCRETE
      a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         (1) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
         (2) SIMPSON SET-3G SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES ESR-4057.
2. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. CONTRACTOR SHALL USE THE NECESSARY MEANS, AS REQUIRED BY OSHA, TO PROTECT FROM DUST DURING DRILLING OPERATIONS.
5. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THREADED ROD AND REBAR DIAMETERS AND EMBEDMENT LENGTHS SHALL BE AS NOTED ON DRAWINGS.
6. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING PRODUCTS WHICH HAVE SPECIFIC APPLICATIONS THAT ARE INTENDED FOR OVERHEAD USE.
7. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
8. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
9. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

Statement of Special Inspections

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- [X] Soils and Foundations
- [X] Cast-in-Place Concrete
- [ ] Masonry
- [ ] Structural Steel
- [ ] Wood Construction
- [ ] Special Cases

General Notes

The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

The qualifications of all personnel performing Special Inspections and testing activities are subject to the approval of the Building Official and E.O.R. The credentials of all inspectors and testing technicians shall be provided if requested.

The special inspectors shall keep records of inspections and shall furnish inspection reports to the owner, Engineer of Record (E.O.R.) and Architect of Record (A.O.R.). Field and testing result reports shall be submitted to all designated parties as they are completed. The reports shall indicate that the work performed was done in accordance to the construction drawings. Discrepancies shall be brought to the attention of the general contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the E.O.R. prior to completion of that phase of work. A final report that documents required special inspections and corrections of discrepancies shall be submitted by the General Contractor to the Owner, E.O.R. and A.O.R.

Cast-in-Place Concrete

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Mix Design	*Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design. Submit proposed mix design of each class of concrete to Structural Engineer of Record and to inspection and testing firm for review prior to commencement of work.*	*P*
2. Material Certification	*Review for conformance to contract documents. Submit to Structural Engineer of Record for review.*	*P*
3. Reinforcement Installation	*Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Submit certified copies of mill test report of reinforcement materials analysis.*	*P*
4. Anchor Rods	*Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.*	*C*
5. Concrete Placement	*Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.*	*C*
6. Sampling and Testing of Concrete	*Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064). Three concrete test cylinders will be taken for every 75 or less cubic yards of each class of concrete placed, or concrete placed on any given day. One additional test cylinder will be taken during cold weather concreting, cured on job site under same conditions as concrete represents.*	*C*
7 Curing and Protection	*Inspect curing, cold weather protection and hot weather protection procedures.*	*P*

Note: Special Inspection is not required for flatwork patios, driveways and sidewalks, on grade not shown on structural drawings.

Soils and Foundations

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Shallow Foundations	*Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.*	*P*
	Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.	*C*
2. Controlled Structural Fill	*Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.*	*C*
	Inspect placement, lift thickness and compaction of controlled fill.	
	Test density of each lift of fill by nuclear methods (ASTM D2922)	
	Verify extent and slope of fill placement.	

Note:
1. Special Inspection is not required during placement of controlled fill having a total depth of 12 inches or less.

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PROJECT ADDRESS:
1816 N Reynolds Rd.
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REVISIONS:

TITLE:
STRUCTURAL NOTES AND SPECIAL INSPECTIONS

KIOSK PROTOTYPE:
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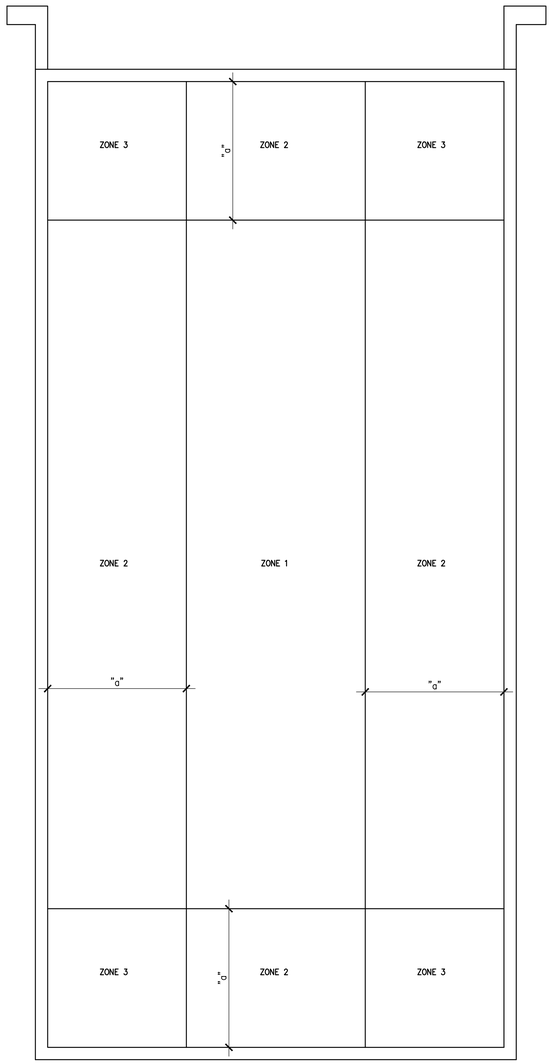
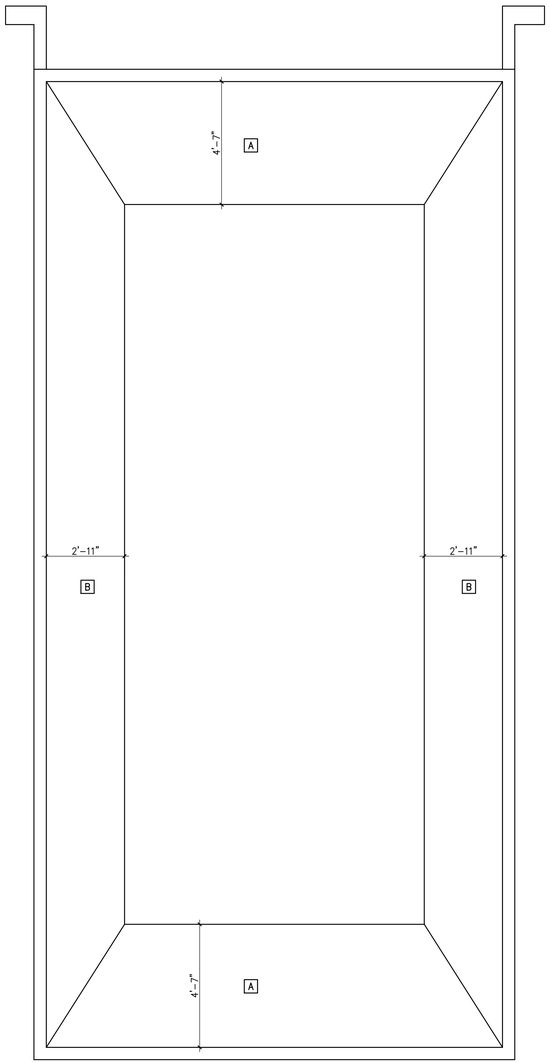


01 COMPONENTS & CLADDING WIND UPLIFT ZONES DIAGRAM

SCALE: 3/8"=1'-0"

NOTES:

1. "a" = 5'-3" DIMENSION FROM INSIDE FACE OF WALL STUD.

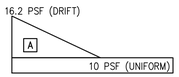


02 SNOW DRIFT DIAGRAM

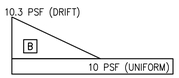
SCALE: 3/8"=1'-0"

NOTES:

1. DRIFT LOADS INDICATED ARE TO BE APPLIED ON TOP OF UNIFORM SNOW LOAD.
2. [X] – INDICATES DRIFT TYPE.



SNOW DRIFT DIAGRAM



SNOW DRIFT DIAGRAM

SHEARWALL SCHEDULE			
TYPE	NAIL SPACING	HOLDOWN	ANCHOR BOLTS
(1)	10d @ 6" O.C.	HDU8-SDS2.5	⅝"ø @ 24" O.C.
(2)	10d @ 6" O.C.	HDU5-SDS2.5	⅝"ø @ 24" O.C.
(3)	10d @ 6" O.C.	HDU2-SDS2.5	⅝"ø @ 32" O.C.
(4)	10d @ 6" O.C.	HDU2-SDS2.5	⅝"ø @ 32" O.C.

(X) – DESIGNATES SHEARWALL TYPE – REFER TO PLANS ON S1.0

NOTES:

1. USE 10d COMMON NAILS.
2. NAIL PANEL FACES @ 12" O.C.
3. USE ½" PLYWOOD ON EXTERIOR
4. STAGGER PLYWOOD JOINT AND SILL PLATE NAILING.
5. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT THE EDGES OF ALL SHEETS IN SHEARWALLS.
6. REFER TO 01/S2.1 FOR HOLD DOWN ANCHOR EMBEDMENT.
7. HOLD DOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.

*8. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3 INCH NOMINAL OR THICKER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED AT 2" O.C. OR ARE ON EACH FACE.

03 SHEARWALL SCHEDULE

SCALE: N.T.S.

HEADER SCHEDULE	
TYPE	SIZE
(A)	(3) 2x10 W/ (2) ½" PLYWOOD SPACERS
(B)	(3) 2x8 W/ (2) ½" PLYWOOD SPACERS
(C)	(3) 2x6 W/ (2) ½" PLYWOOD SPACERS

(X) – DESIGNATES HEADER TYPE. REFER TO PLANS ON S1.0

NOTES:

1. REFER TO 05/S3.0 FOR TYPICAL HEADER FRAMING REQUIREMENTS.

04 HEADER SCHEDULE

SCALE: N.T.S.

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REVISIONS:

TITLE:
DIAGRAMS & SCHEDULES

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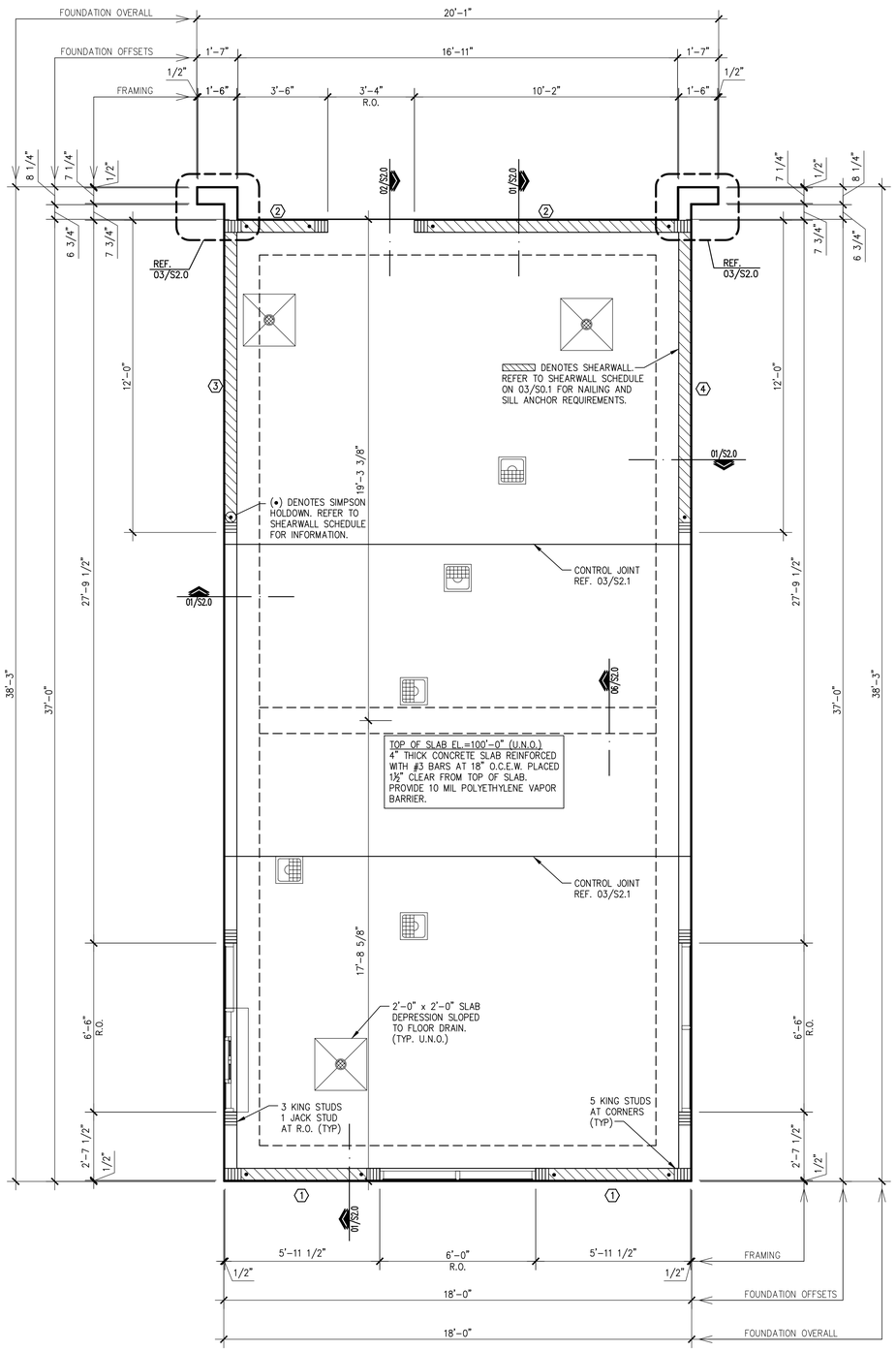


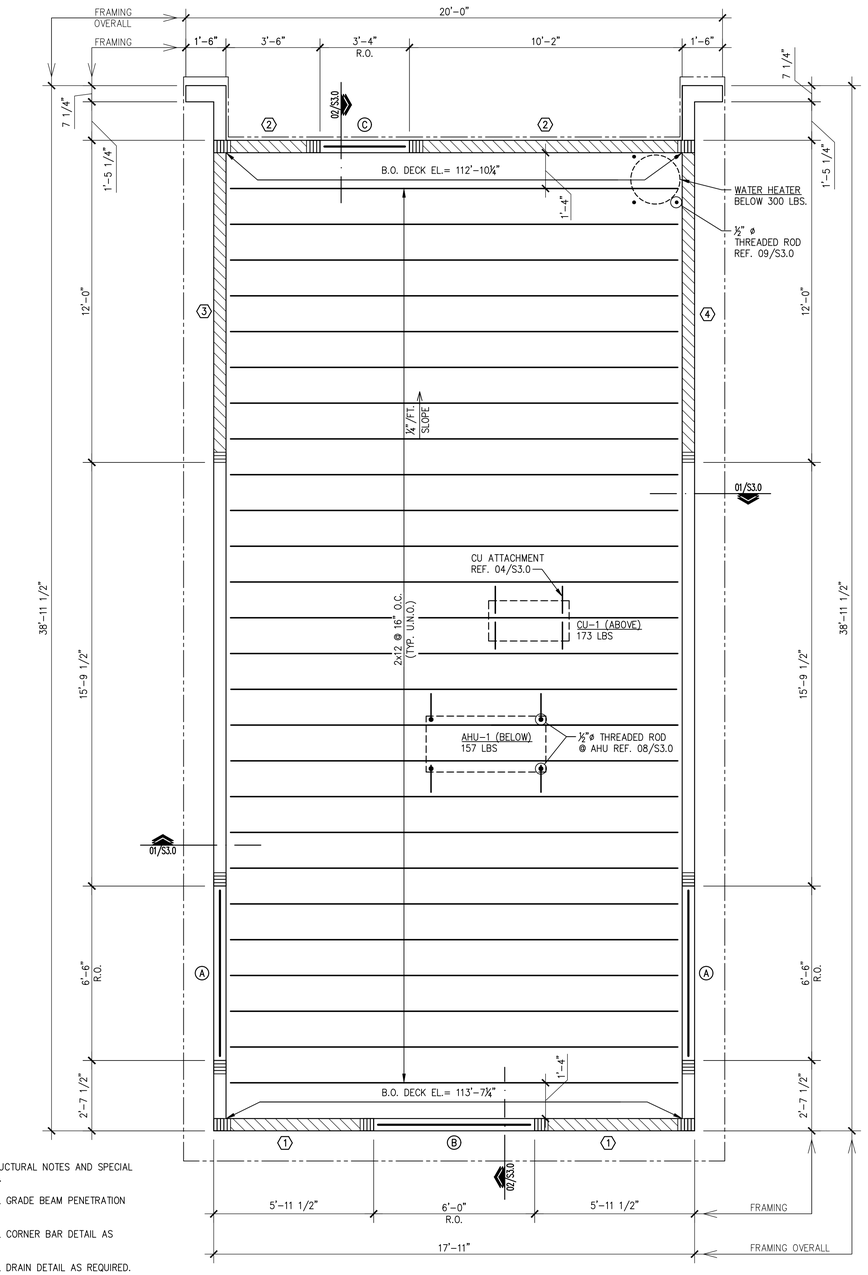
PLAN NOTES:

1. REF. SHEET S0.0 FOR STRUCTURAL NOTES AND SPECIAL INSPECTION REQUIREMENTS.
2. REF. 02/S2.1 FOR TYPICAL GRADE BEAM PENETRATION DETAIL AS REQUIRED.
3. REF. 04/S2.1 FOR TYPICAL CORNER BAR DETAIL AS REQUIRED.
4. REF. 05/S2.1 FOR TYPICAL DRAIN DETAIL AS REQUIRED.
5. REF. 06/S2.1 FOR TYPICAL CURB DETAIL AS REQUIRED.
6. REF. 07/S2.1 FOR LIGHT POST DETAIL AS REQUIRED.
7. REF. 08/S2.1 FOR DUMPSTER ENCLOSURE WALL. REFER TO 10/S2.1 FOR ALTERNATE MONOLITHIC SLAB/ BEAM FOUNDATION AT DUMPSTER ENCLOSURE.
8. REF. 09/S2.1 FOR BOLLARD DETAIL AS REQUIRED.
9. (X) DENOTES HEADER TYPE. REFER TO SCHEDULE 04/S0.1 AND TYPICAL SECTION 05/S3.0.
10. REF. 06/S3.0 FOR DIAPHRAGM NAILING.

N

01 FOUNDATION PLAN

SCALE: 3/8"=1'-0"



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02 ROOF FRAMING PLAN

SCALE: 3/8"=1'-0"

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FOUNDATION & ROOF FRAMING PLANS

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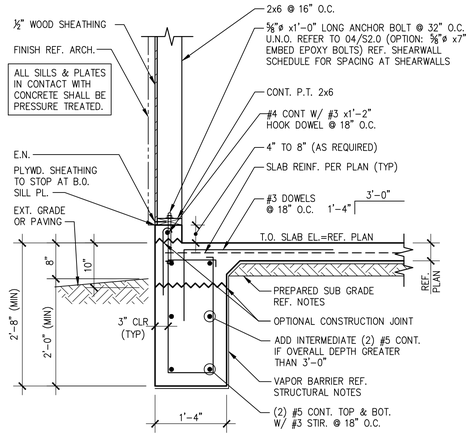

01 SECTION
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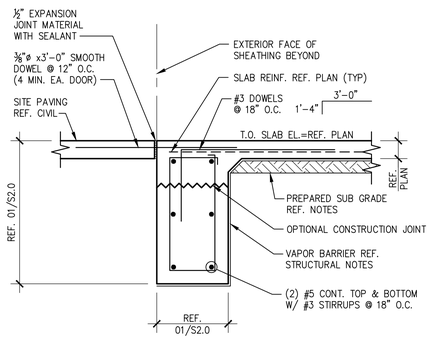

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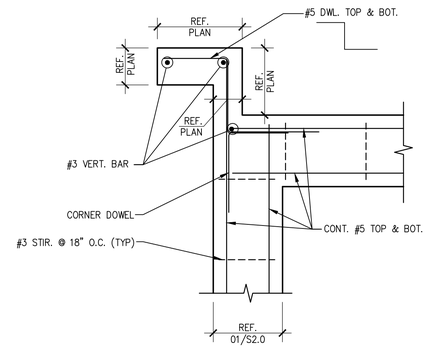

03 POPOUT CONCRETE FOOTING
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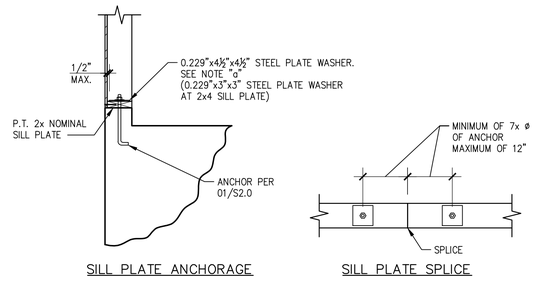


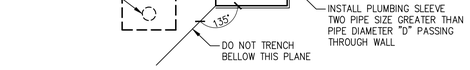
04 TYP. SILL PLATE ANCHORAGE
SCALE: 3/4"=1'-0"

SILL PLATE ANCHORAGE

SILL PLATE SPLICE

NOTES:

a. IF STANDARD CUT WASHER IS PLACED BETWEEN PLATE WASHER AND NUT, THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED UP TO 1¾" WITH WIDTH UP TO 9/16" LARGER THAN BOLT DIAMETER.



05 TYPICAL PIPE PENETRATION & TRECHING
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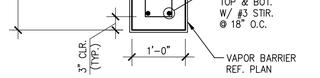

05 INTERIOR STIFFNER DETAIL
SCALE: 3/4"=1'-0"

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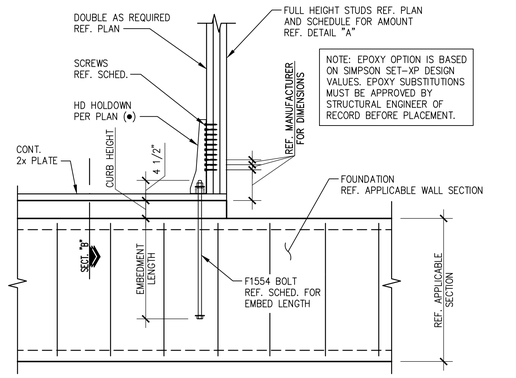
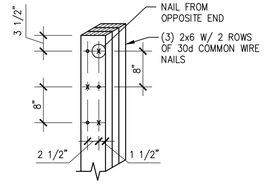
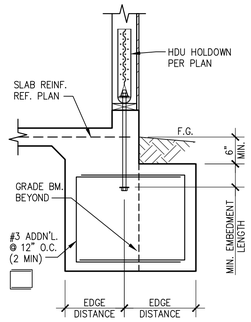




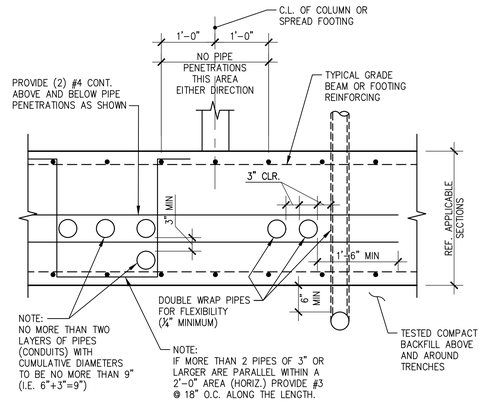
DETAIL "A"



SECT. "B"

HOLDOWN	POST/2x	BOLT/SCREW #	ANCH. BOLT	EDGE DISTANCE	CAST IN PLACE REQUIREMENTS BOLT EMBED	EPOXY OPTION REQUIREMENTS BOLT EMBED
HDU2-SDS2.5	(3) 2x	(6) SDS ¼"x2½"	⅝"ø	14"	1'-0"	1'-0"
HDU4-SDS2.5	(3) 2x	(10) SDS ¼"x2½"	⅝"ø	14"	1'-0"	1'-0"
HDU5-SDS2.5	(3) 2x	(14) SDS ¼"x2½"	⅝"ø	14"	1'-0"	1'-0"
HDU8-SDS2.5	(3) 2x	(20) SDS ¼"x2½"	⅞"ø	14"	1'-0"	1'-0"
HDU11-SDS2.5	(3) 2x OR 4x6	(30) SDS ¼"x2½"	1"ø	16"	1'-2"	1'-4"
HDU14-SDS2.5	(4) 2x OR 6x6	(36) SDS ¼"x2½"	1"ø	16"	1'-2"	1'-4"

01 TYP. HOLDOWN DETAIL
SCALE: 3/4"=1'-0"



02 TYP. PENETRATION THRU FOOTINGS OR GRADE BEAMS
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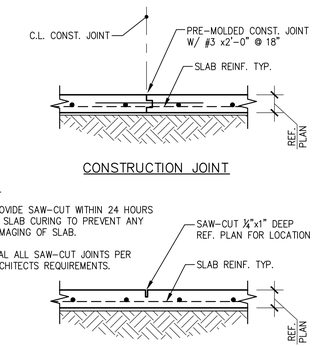

03 TYP. CONTROL JOINT
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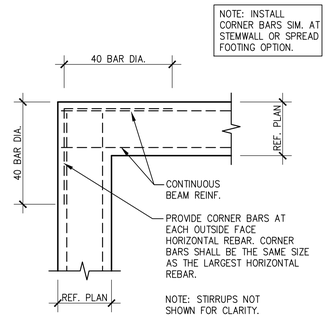
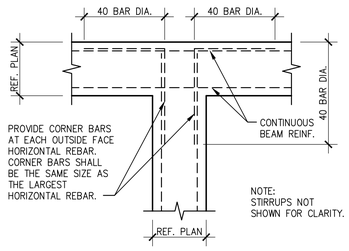
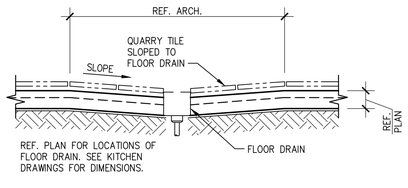


NOTE: INSTALL CORNER BARS SIM. AT STEMWALL OR SPREAD FOOTING OPTION.



04 TYP. CORNER BAR DETAILS
SCALE: 3/4"=1'-0"



05 TYP. FLOOR DRAIN
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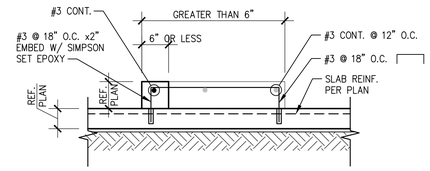
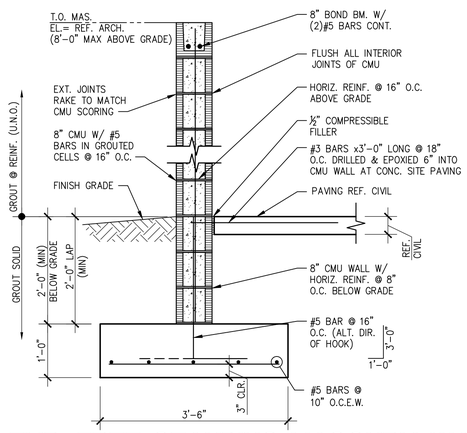
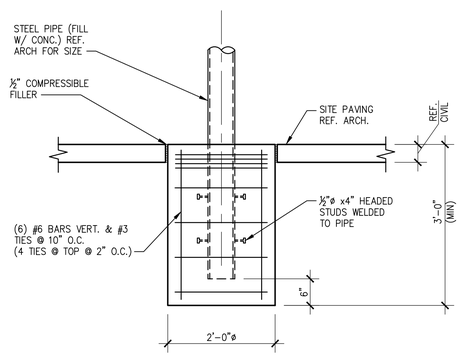


06 TYP. CURB
SCALE: 3/4"=1'-0"

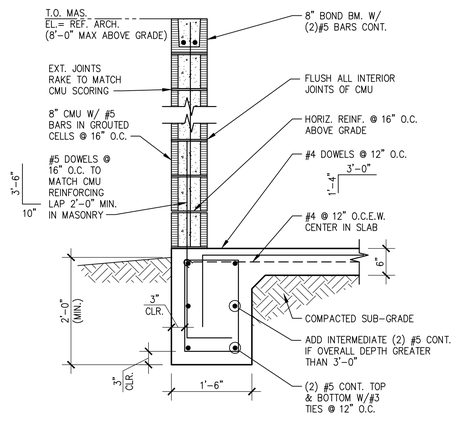
07 TYP. LIGHT POLE BASE
SCALE: 3/4"=1'-0"



08 TYP. FREE STANDING MASONRY WALL
SCALE: 3/4"=1'-0"



09 TYP. STEEL PIPE BOLLARD
SCALE: 3/4"=1'-0"



10 ALTERNATE SECTION @ DUMPSTER ENCLOSURE
SCALE: 3/4"=1'-0"

EMBEDMENT LENGTHS
CONCRETE 28-DAY COMPRESSIVE STRENGTH = 3,500 PSI

BAR SIZE	STRAIGHT BARS "TOP" BAR	STRAIGHT BARS OTHER BAR	HOOKED BARS
3	1'-10"	1'-5"	0'-9"
4	2'-5"	1'-10"	0'-11"
5	3'-0"	2'-4"	1'-2"
6	3'-7"	2'-9"	1'-5"
7	5'-3"	4'-0"	1'-8"
8	6'-0"	4'-7"	1'-10"
9	6'-8"	5'-2"	2'-1"
10	7'-5"	5'-9"	2'-4"
11	8'-2"	6'-4"	2'-6"

GRADE 60 REINFORCEMENT. MINIMUM LENGTHS SHOWN ABOVE SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. "TOP" BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

LAP SPLICE LENGTHS
CONCRETE 28-DAY COMPRESSIVE STRENGTH = 3,500 PSI

BAR SIZE	SPACING 6" OR GREATER "TOP" BAR	SPACING 6" OR GREATER OTHER BAR	SPACING LESS THAN 6" "TOP" BAR	SPACING LESS THAN 6" OTHER BAR
3	2'-5"	1'-10"	2'-11"	2'-3"
4	3'-2"	2'-5"	3'-10"	2'-11"
5	3'-11"	3'-1"	4'-9"	3'-9"
6	4'-8"	3'-7"	5'-8"	4'-4"
7	6'-10"	5'-3"	8'-3"	6'-4"
8	7'-10"	6'-0"	9'-5"	7'-3"
9	8'-8"	6'-9"	10'-5"	8'-2"
10	9'-8"	7'-6"	11'-8"	9'-0"
11	10'-8"	8'-3"	12'-10"	9'-11"

GRADE 60 REINFORCEMENT. MINIMUM LENGTHS SHOWN ABOVE SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. "TOP" BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

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PROJECT ADDRESS:
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REVISIONS:

TITLE:
FOUNDATION SECTIONS & DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
S2.1

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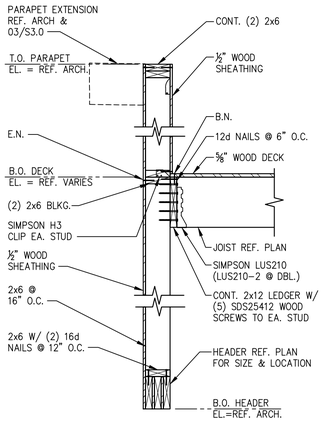
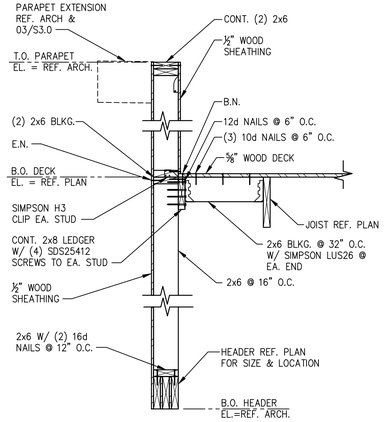


01 SECTION
SCALE: 3/4"=1'-0"



02 SECTION
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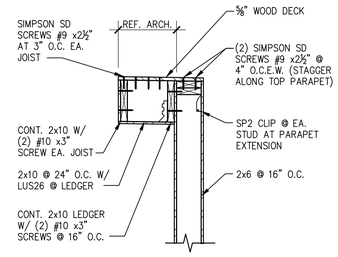
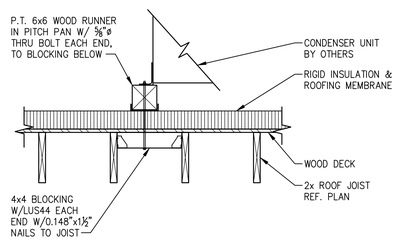
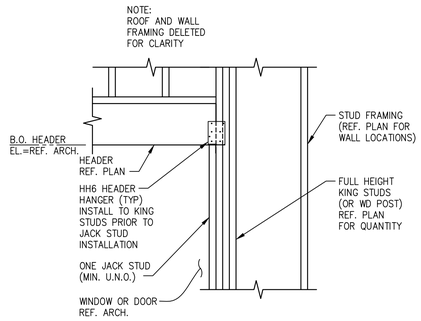


03 TYP. PARAPET EXTENSION
SCALE: 3/4"=1'-0"



04 TYP. CONDENSER TO ROOF STRUCTURE
SCALE: 3/4"=1'-0"



05 TYP. HEADER DETAIL
SCALE: 3/4"=1'-0"

06 ROOF DIAPHRAGM NAILING
SCALE: NONE

07 TYP. SPLICE DETAILS
SCALE: NONE

08 TYP. AHU ATTACHMENT TO ROOF STRUCTURE
SCALE: 3/4"=1'-0"

09 SECTION
SCALE: NONE

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DIVISION 23 - HVAC SPECIFICATIONS

GENERAL

1. FURNISH AND INSTALL A/C UNITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE ALL RELATED AND MISCELLANEOUS COMPONENTS AS REQUIRED MAKING SYSTEMS OPERATIONAL AND COMPLETE INCLUDING, BUT NOT LIMITED TO:

   A. VENTILATING, HEATING AND COOLING EQUIPMENT

A. DUCTWORK

B. INSULATION

   D. TEMPERATURE CONTROLS

   E. PIPING

   F. VALVES

2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, LOCAL AND STATE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF PERMITTING AND PAYMENT OF ALL UTILITY CHARGES FOR INSTALLATION/CONNECTION/ON-SITE CONSTRUCTION FOR WORK REQUIRED.

3. ALL WORK SHALL BE IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, LOCAL AND STATE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF PERMITTING AND PAYMENT OF ALL UTILITY CHARGES FOR INSTALLATION/CONNECTION/ON-SITE CONSTRUCTION FOR WORK REQUIRED.

4. MECHANICAL WORK SHALL CONFORM THE LATEST CODES.

   ALL LOCAL, CITY, COUNTY, AND STATE CODES
   AABC ASSOCIATE AIR BALANCE COUNCIL
   AGA AMERICAN GAS ASSOCIATION
   AMCA AIR MOVING AND CONTROL ASSOCIATION
   ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
   ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
   ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
   ASTM AMERICAN SOCIETY OF TESTING MATERIALS
   AWWA AMERICAN WATER WORKS ASSOCIATION
   NFPA NATIONAL FIRE PROTECTION ASSOCIATION
   OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
   UL UNDERWRITERS' LABORATORIES
   SMACNA SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION

IN CASE OF DIFFERENCES BETWEEN BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, AND THE CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS, THE CONTRACTOR SHALL BEAR ALL COST ARISING IN CORRECTING THESE DEFICIENCIES.

5. LOCATIONS, QUANTITIES, AND OTHER MEASUREMENTS OF THE BUILDING AND EQUIPMENT ARE OFFERED AS A GUIDE ONLY, WITHOUT GUARANTEE AS TO COMPLETE ACCURACY. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS, EQUIPMENT, AND VERIFY ALL CONDITIONS TO PROVIDE A COMPLETE AND CORRECT OPERATING MECHANICAL SYSTEM.

6. ALL CONTRACTORS SHALL VISIT THE SITE, ASCERTAIN THE CONDITIONS TO BE MET THEREIN INSTALLING THE WORK AND MAKE DUE DILIGENCE FOR THEIR BID. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED AS JUSTIFICATION FOR THE OMISSION OF WORK, FACULTY WORK OR PAYMENT OF EXTRA COMPENSATION.

7. CONTRACTOR SHALL PROTECT EQUIPMENT ON SITE.

8. CONTRACTOR SHALL LOCATE ALL EQUIPMENT, FIXTURES, PIPING, DUCTWORK, ETC., APPROXIMATELY AS SHOWN ON DRAWINGS, BUT CONFIRM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDING. REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS AND COORDINATE WITH GENERAL CONTRACTOR PRIOR TO STARTING WORK. CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS, HANGARS, OPENINGS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE ALL CLEARANCES, LOCATIONS, AND REQUIREMENTS WITH OTHER TRADES A REQUIRED. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS IN ACCORDANCE TO ALL APPLICABLE CODES HAVING JURISDICTION.

9. CONTRACTOR SHALL KEEP THE AREA CLEAN AND FREE OF UNNECESSARY MATERIAL AND DEBRIS. REMOVE ALL TOOLS, SCAFFOLDING, MACHINERY, AND DEBRIS ONCE WORK IS COMPLETE.

10. CONTRACTOR SHALL WORK WITH GENERAL CONTRACTOR TO MEET CONSTRUCTION SCHEDULES.

11. CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS ONCE PROJECT IS COMPLETE TO INCLUDE BELOW AND ABOVE GRADE WORK, INCLUDING LABELING OF ALL EQUIPMENT, DUCTWORK AND PIPE SIZES, VALVE LOCATIONS, ETC.

12. CONTRACTOR SHALL TEST ALL CONNECTIONS, OPERATION OF ALL EQUIPMENT, ETC.,

13. AFTER ACCEPTANCE BY OWNER, CONTRACTOR SHALL PROVIDE OWNER WITH (2) SETS OF AS-BUILT DRAWINGS.

14. ALL EQUIPMENT SHALL BE LABELED WITH TAG NOS. AS PER EQUIPMENT SCHEDULE. LABELS SHALL BE BY SETON OR APPROVED EQUAL AND SHALL MATCH ANSI Z535. LETTER SIZE SHALL BE A MINIMUM OF 1/2" SIZE.

15. ANY OMISSIONS OR ERRORS FOUND BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT SO THAT AN ADDENDUM MAY BE ISSUED BEFORE BIDDING. ANY OMISSIONS OR ERRORS FOUND AFTER BIDDING WILL BE AT THE EXPENSE OF THE CONTRACTOR.

16. CONTRACTOR WARRANTS TO THE OWNER ALL LABOR AND MATERIALS FURNISHED UNDER THIS CONTRACT FOR ONE (1) YEAR FOLLOWING DATE OF RECEIPT OF SATISFACTORY ACCEPTANCE. CONTRACTOR SHALL WARRANT TO REPAIR ALL DEFECTS IN MATERIAL.

HEATING, AIR CONDITIONING AND VENTILATION

SCOPE OR WORK

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, FEES AND PERMITS, AND PAY ALL COSTS CONNECTED WITH THE INSTALLATION OF COMPLETE HEATING AND AIR CONDITIONS SYSTEMS.

2. IT IS THE INTENT OF THIS SPECIFICATION AND OF THE PLANS TO PROVIDE COMPLETE INSTALLATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL ITEMS OF MATERIAL AND LABOR AND ALL OTHER COST TO COMPLETE THE CONTRACT WITHIN THE INTENT OF THIS SPECIFICATION AND THE PLANS EVEN THOUGH EACH AND EVERY ITEM IS NECESSARY IS NOT SPECIFICALLY MENTIONED OR SHOWN.

3. SUBMIT SHOP DRAWINGS AND/OR MANUFACTURER SUBMITTALS ON ALL MECHANICAL EQUIPMENT, TO INCLUDE, BUT LIMITED TO, AIR CONDITIONING EQUIPMENT, EXHAUST FANS, AIR DEVICES, LOUVERS, VENTILATORS, ETC.

4. WORK INCLUDED BUT NOT INCLUSIVE: THE MECHANICAL HVAC SYSTEM REQUIRED FOR THIS WORK AS INDICATED ON THE DRAWINGS AND INCLUDES, BUT NOT LIMITED TO:

A. PACKAGE ROOFTOP HVAC UNITS, INCLUDING PRE-FAB FACTORY CURBS, STARTERS, SMOKE DETECTORS, ETC., COMPLETE WITH ALL SPECIALTIES.

B. SPLIT-SYSTEM HVAC UNITS, INCLUDING CONDENSING UNITS, DX COILS, AIR HANDLING UNITS, REFRIGERANT PIPING, ETC., COMPLETE WITH ALL SPECIALTIES.

C. EXHAUST FANS, MAKE-UP FANS, INCLUDING PRE-FAB FACTORY CURBS, STARTERS, ETC., COMPLETE WITH ALL SPECIALTIES.

D. INSTALLATION OF ALL OWNER FURNISHED EQUIPMENT.

E. ALL SUPPLY, RETURN, MAKE-UP, VENTILATION, AND EXHAUST DUCTWORK, INCLUDING DISTRIBUTION, DAMPERS, PLENUMS, TURNING VANES, GRILLES, REGISTERS, AND DIFFUSERS.

F. TEMPERATURE CONTROL SYSTEM AND 24V WIRING.

G. THERMAL AND ACOUSTIC INSULATION OFF DUCTS.

H. VIBRATION ISOLATORS AND ADDITIONAL DEVICES.

I. INSPECTION, TESTING, AND BALANCING OF HVAC.

MATERIALS AND WORKMANSHIP

1. AIR CONDITIONING EQUIPMENT:

   AIR CONDITIONING EQUIPMENT SHALL BE OF CAPACITIES, CHARACTERISTICS, SIZE, ETC., AS INDICATED AND SCHEDULED ON THE DRAWINGS OR APPROVED EQUAL.

A. SPLIT SYSTEMS SHALL BE BY CARRIER, TRANE, JCI OR LENNOX. ALL UNITS SHALL OPERATE ON R410A REFRIGERANT.

H. PACKAGED ROOFTOP UNITS SHALL BE BY CARRIER, TRANE, JCI, LENNOX, OR APPROVED EQUAL. GAS FIRED UNITS SHALL HAVE A STAINLESS STEEL HEAT EXCHANGER. ALL UNITS SHALL HAVE CORROSION-PROOF DRAIN PAN, ROOF CURB, MOTORIZED OUTSIDE AIR DAMPER, ECONOMIZER AND SHALL OPERATE ON R410A REFRIGERANT.

2. ROOF MOUNTED FANS SHALL HAVE ROOF CURB, BACKDRAFT DAMPER, INSECT SCREEN. GREASE EXHAUST TYPE FANS SHALL EXTENDED (RAISED) CURB AS PER NFPA. FANS SHALL BE BY GREENHECK, AEROVENT, COOK, ACME, OR APPROVED EQAUL.

3. CEILING MOUNTED FANS SHALL HAVE BACKDRAFT DAMPER, ROOF OR WALL RAIN CAP WITH INSECT SCREEN. FANS SHALL BE BY GREENHECK, AEROVENT, COOK, ACME, OR APPROVED EQUAL.

4. COOLING SECTION SHALL INCLUDE REFRIGERATION COMPRESSOR, COOLING COILS, CONDENSATE COILS, CONDENSER, FAN, REFRIGERANT PIPING SYSTEM, CONTROLS, CHILLED WATER COIL, HOT WATER COIL, ETC.

5. HEATING SECTIONS AND ACCESSORIES SHALL BE AS SCHEDULED OR APPROVED EQUAL.

6. HVAC EQUIPMENT SHALL BE COMPLETE WITH THERMOSTAT OR AS INDICATED ON THE DRAWINGS. (HEAT/COOL/OFF/FAN/ON/AUTO).

EXHAUST AND PLENUMS

2. EXHAUST AND MAKE-UP FANS SHALL BE OF CAPACITIES, CHARACTERISTICS, SIZES., ETC., AS INDICATED AND SCHEDULED ON THE DRAWINGS.

3. EACH FAN SHALL BE AMCA RATED AND COMPLETE WITH MOTOR, DRIVE, AND ACCESSORIES AS SCHEDULED ON THE DRAWINGS.

DUCTWORK

1. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA MANUAL FOR FABRICATION, INSTALLATION, AND SUPPORT OF DUCTWORK.

2. NON-GREASE EXHAUST DUCTWORK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL, MINIMUM GAUGE AS PER SMACNA. GREASE EXHAUST DUCTWORK SHALL BE STAINLESS STEEL WITH LIQUID-TIGHT WELDED JOINTS.

3. GREASE DUCT SHALL HAVE A 2-HR FIRE RATED WRAP UP TO THE EXHAUST FAN AS PER NFPA. ALL SEAMS AND JOINTS SHALL HAVE LIQUID TIGHT WELDS. PROVIDE ACCESS DOORS AT ALL ELBOWS FOR CLEANING PURPOSES, AVOID TRAPS AND SLOPE DUCTWORK TOWARD KITCHEN HOOD. ALL DISHWASHER EXHAUST DUCTWORK SHALL BE 18 GAUGE STAINLESS STEEL.

4. ALL DUCTWORK SHALL BE SUPPORTED ONLY FROM STRUCTURAL BEAMS, JOISTS OR COLUMNS. FLEX CONNECTORS SHALL BE BY DUCTMATE, DURO DYNE OR VENT FABRICS. FLEXIBLE DUCTWORK SHALL BE BY FLEXMASTER, HART & COOLEY, OR MCGILL AIRFLOW. FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 5' IN LENGTH.

5. PROVIDE TEMPORARY CAPS ON PORTIONS OF DUCTWORK INSTALLED WHICH ARE NOT CONNECTED TO THE SYSTEM TO PREVENT ENTRANCE OF DUST AND DEBRIS UNTIL TIME OF INSTALLATION.

6. AIR DEVICES SHALL BE AS PER SCHEDULE. ADJUST VOLUME DAMPERS AS REQUIRED TO OBTAIN AIR QUANTITIES AS SHOWN ON DRAWINGS. AIR DEVICES SHALL BE BY TITUS, PRICE, POTTORFF, TUTTLE AND BAILEY, OR APPROVED EQUAL. AIR VOLUME DAMPERS INSTALLED ABOVE HARD CEILINGS SHALL BE EQUIPPED WITH REMOTE CONTROLLED DAMPER OPERATOR BY YOUNG, GREENHECK, POTTORFF, OR APPROVED EQUAL.

7. PROTECT NEW DUCT OPENINGS FROM DUST AND DIRT. CLEAN INSIDE AND OUTSIDE OF NEW DUCTWORK IN AREA OR NEW WORK. PROVIDE TEMPORARY FILTER MEDIA FOR ALL RETURN OUTLETS AND OPENING WITHIN NEW CONSTRUCTION LIMIT LINE PER ARCHITECTURAL PLANS.

8. PROVIDE ADJUSTABLE SPLITTER, OPPOSED BLADE, OR BUTTERFLY DAMPERS FOR ALL NEW SUPPLY, RETURN, AND EXHAUST BRANCHES. BALANCING SHALL BE ACHIEVED AT DAMPER NOT DIFFUSER.

9. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL ABRUPT ELBOWS. RADIUS ELBOWS SHALL HAVE CENTERLINE RADIUS AT LEAST AS GREAT AS THE DUCT WIDTH.

CEILING DIFFUSERS, RETURN GRILLES

1. MARGIN TYPES, COLORS, FINISH AND METHODS OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING AND WALL DETAILS AND SPECIFICATIONS.

   1.A. FRAME TYPE SUITABLE FOR MOUNTING IN CEILING OR WALL CONSTRUCTION AS INDICATED ON ARCHITECTURAL PLANS.

   1.B. EXACT LOCATION OF ALL AIR OUTLETS AS PER ARCHITECTURAL PLANS.

   1.C. SUITABLE FOR OPERATION AT +/- 20% OF NOTED CAPACITY FOR CONSTANT VOLUME SYSTEMS.

2. SIZE AS INDICATED ON DRAWINGS EQUAL TO TITUS OR APPROVED EQUAL.

3. REGISTERS AND GRILLES: UNLESS OTHERWISE NOTED, SHALL BE STEEL CONSTRUCTION AS PER MECHANICAL SCHEDULE.

4. DIFFUSERS: UNLESS OTHERWISE NOTED, SHALL BE STEEL CONSTRUCTION, PAINTED WHITE.

INSULATION AND LINING

1. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS'S RECOMMENDATIONS. UNSIGHTLY WORK SHALL BE JUST CAUSE FOR REJECTION.

2. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR THE FIRST 25 FEET DOWNSTREAM AND UPSTREAM OF FAN SYSTEMS. DUCT LINING SHALL BE GLUED AND PINNED TO DUCT AND TREATED TO PREVENT EROSION. AS A MINIMUM, PROVIDE 1" THICK 1-1/2# DENSITY DUCT LINING.

3. AIR CONDITIONING SUPPLY DUCTWORK, OUTSIDE AIR DUCTWORK, AND RETURN AIR DUCTWORK ABOVE THE CEILING AND IN UNCONDITIONED SPACES, WHERE NOT LINED, SHALL BE INSULATED WITH A MIN. 2" THICK, 3/4# DENSITY FIBERGLASS WRAP WITH FIRE RETARDANT VAPOR-BARRIER COVERING TO PROVIDE A MAXIMUM INSTALL CONDUCTANCE OF 0.3. OVERLAP ALL SEAMS, JOINTS, AND SECURE WITH MANUFACTURER APPROVED ADHESIVE TO PROVIDE CONTINUITY OF VAPOR BARRIER. LINED DUCTWORK NEED NOT BE INSULATED.

4. INSULATE REFRIGERANT SUCTION LINE, COOLING COIL, CONDENSATE DRAIN AND CONDENSATE PUMP DISCHARGE PIPING WITH 1/2" FLEXIBLE ELASTOMERIC INSULATION WITH VAPOR BARRIER JACKET.

5. WHERE PENETRATING A FIRE RATED CONSTRUCTION. PROVIDE SUITABLE FIRE STOPPING INSULATION.

6. CONDENSATE PIPING SHALL BE GALVANIZED STEEL, COPPER OR PVC, 1" MINIMUM IN SIZE. PIPING INDOORS SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX. PIPING SHALL BE SUPPORTED BY STRUCTURE OR FLOOR ONLY. SLOPE DRAIN AT A MINIMUM OF 1/8"/FT, TO AN INDIRECT WASTE WITH MINIMAL AIR GAP OF 2".

TEST AND BALANCE

4. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING ENTIRE HVAC SYSTEM (DUCTS, DIFFUSERS, RETURN AIR, F.A. DAMPERS, FAN RPMS, EXHAUST AND SUPPLY FANS) PER AIR BALANCE SCHEDULE FOUND WITHIN THESE DOCUMENTS. WHEN PROPERLY BALANCED, FIX AND MARK DAMPER SETTINGS ON EACH PIECE OF EQUIPMENT. NOTIFY OWNER THAT IT WILL BE THEIR RESPONSIBILITY TO SET MANUAL HVAC FAN SWITCH ON THERMOSTAT TO "ON" POSITION WHEN HOOD EXHAUST FANS ARE TURNED ON.

5. AABC OR NEBB CERTIFIED AIR BALANCE SPECIALTY CONTRACTOR IS RECOMMENDED TO PERFORM THE BALANCE THE AIR AND WATER SYSTEMS AS REQUIRED AND CREATE A REPORT FOR ENGINEER'S REVIEW.

6. AFTER COMPLETION OF ALL REQUIRED WORK, THE CONTRACTOR SHALL OPERATE AND MAKE ANY REQUIRED ADJUSTMENTS TO EQUIPMENT. DUCTWORK, ETC., AS MAY BE NECESSARY TO PUT THE SYSTEMS IN PROPER OPERATING CONDITION. AFTER ALL ADJUSTMENTS HAVE BEEN COMPLETED, THE CONTRACTOR SHALL BALANCE EACH DEVICE TO WITHIN +/- 10% OF VALUE ON DRAWINGS.

PIPING

1. PIPING MATERIALS:

   SCHEDULE 40, STANDARD WEIGHT, SEAMLESS BLACK STEEL - ASTM A53 OR ASTM A106
   SYSTEM TYPE: CHILLED WATER 2-1/2" UP TO 10"; HEATING WATER 2-1/2" UP TO 10"; CONDENSER WATER UP TO 10"; 125 PSI AND LESS STEAM SUPPLY UP TO 6"; NATURAL GAS PIPING; PUMPED CONDENSATE, AND REFRIGERANT RELIEF VENT.

   SCHEDULE 80 SEAMLESS STEEL - ASTM A53 OR ASTM A106

   SYSTEM TYPE: STEAM CONDENSATE RETURN; PUMPED STEAM CONDENSATE RETURN UP TO 6".

   SCHEDULE 40, GALVANIZED - ASTM A104 OR A120

   SYSTEM TYPE: COLD CONDENSATE DRAIN INDOORS.

   TYPE L ACR COPPER

   SYSTEM TYPE: REFRIGERANT PIPING UP TO 2".

   TYPE L, HARD DRAWN, SEAMLESS, WROUGHT COPPER - ASTM B88

   SYSTEM TYPE: CHILLED AND HEATING WATER TO 2" AND COLD OR PUMPED CONDENSATE DRAIN

   TYPE M, HARD DRAWN, SEAMLESS, WROUGHT COPPER - ASTM B88

   SYSTEM TYPE: NON-PRESSURIZED COLD CONDENSATE DRAIN

   PVC, DRAIN WASTE VENT

   SYSTEM TYPE: UNDERGROUND SANITARY SEWER.

   CAST IRON, NO HUB

   SYSTEM TYPE: ABOVE GROUND, WASTE VENT PIPING.

2. FITTINGS AND JOINTS:

   STEEL:
   ALL SIZES AND SERVICE: MARK IN ACCORDANCE WITH MSS-SP-25 UNION UP TO 2-1/2". USE SAME MATERIAL TYPE AS FITTING, WHERE METAL; SCREWED BRASS SEAT. WHERE PLASTIC PIPE, USE SAME MATERIAL AS PIPE.

   -BRANCH CONNECTIONS FROM MAINS AND HEADERS, 2 -1/2" AND LARGER: WELDED TEES OR WELDED OUTLETS (BONNEY FORGE WELDOLETS OR THREADOLETS). USE FORGED OUTLETS ONLY IF BRANCH LINE IS AT LEAST ONE PIPE SIZE SMALLER THAN MAIN OR HEADER.

   -UP TO 2-1/2". HOT CONDENSATE WATER - CLASS 150, MALLEABLE IRON, SCREWED, ASME B16.3; STEAM 125 PSI AND LESS - CLASS 150 A53 MALLEABLE IRON, SCREWED, ASME B16.3; STEAM CONDENSATE (PUMPED OR GRAVITY) - CLASS 150 MALLEABLE IRON, SCREWED ASME B16.3 2-1/2" AND LARGER: ALL SERVICES - CLASS 150, WROUGHT STEEL, BUTT-WELDED, ASME B16.9

   GALVANIZED STEEL:
   SAME AS FOR STEEL EXCEPT GALVANIZED COATING

   COPPER:
   SIZES AND SERVICE NOTED IN PIPING MATERIALS ABOVE:

   SWEAT TYPE, WROUGHT COPPER, ASTM B62 WITH DIMENSIONS CONFORMING TO ANSI B16.22 AND SWEEP PATTERNS FOR COPPER TUBING.

   PROVIDE DIELECTRIC CONNECTIONS AT JUNCTIONS OF COPPER PIPE/EQUIPMENT CONNECTIONS AND STEEL PIPING SYSTEMS.

   PROVIDER COPPER SOLDER JOINT TO PLATED FEMALE IRON PIPE.

   UNIONS - BRASS GROUND JOINT, 250-LB WORKING PRESSURE

   NIPPLES - BRASS.

COMMISSIONING

A. PER THE REQUIREMENTS OF THE 2018 IECC SECTION C408.2, THE OWNER OR CONTRACTOR SHALL HAVE A COMMISSIONING PLAN DEVELOPED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY RESPONSIBLE FOR THE TESTING AND/OR CALIBRATION OF THE BUILDING SYSTEMS DEFINED IN THIS SECTION.

B. PRIOR TO FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE MECHANICAL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT ALL EQUIPMENT INSTALLATION, SEQUENCE OF OPERATIONS AND ARE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.2.3 THROUGH C408.2.5 FOR THE APPLICABLE CONTROL TYPE.

C. A FULL REPORT OF TEST RESULTS SHALL BE PROVIDED TO THE OWNER ALONG WITH MANUALS AND AS-BUILT CONSTRUCTION DOCUMENTS OF THESE SYSTEMS.

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JAY REID CLAUSS
08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:

MECHANICAL SPECIFICATIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
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HVAC GENERAL NOTES

INTENT OF DRAWINGS

1. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF DUCTWORK, PIPING AND EQUIPMENT. THE DRAWINGS DO NOT SHOW ALL NECESSARY OFFSETS, TRANSITIONS, AND ADJUSTMENTS NECESSITATED BY COORDINATION WITH OTHER TRADES. THE CONTRACTOR SHALL COORDINATE ALL WORK, TRANSITIONS, AND ADJUSTMENTS WITH THE CONDITIONS OF THE JOB SITE AND ALL OTHER TRADES.
2. THESE DRAWINGS DO NOT INDICATE OR SHOW ALL EXISTING PIPING, EQUIPMENT, DUCTWORK, ETC. THESE DRAWINGS ARE NOT A SUBSTITUTE FOR FIELD VERIFICATION.
3. HVAC WORK SHALL INCLUDE FURNISHING (EXCEPT WHERE NOTED), INSTALLING AND TESTING ALL HVAC SYSTEMS FOR A COMPLETE,, FULLY OPERATIONAL, AND CODE COMPLIANT INSTALLATION INCLUDING, BUT NOT LIMITED TO:

3.1. MANUFACTURERS' STANDARD ROOF CURBS OR AS SPECIFIED.

3.2. ROOF OPENINGS,

3.3. COPPER CONDENSATE DRAINS WITH 3" TRAP DEPTH, UNLESS NOTED OTHERWISE AND PROPER SLOPE, GAS PIPING SUPPORTED EVERY 10 FEET AND OTHER PIPING AND FITTINGS.

3.4. DUCTWORK, TURNING VANES, SPLITTERS, DAMPERS, SPIN-INS, ETC. IN ACCORDANCE WITH SMACNA STANDARDS FOR LOCATION, THICKNESS, AND CONSTRUCTION.

3.5. DIFFUSERS, SUPPLY AND RETURN GRILLES,

3.6. LINE SETS, AUXILIARY DRAIN PANS AND PIPING, AND FRESH AIR INTAKE AIR HANDLER(S),

3.7. CONTROLS, SENSORS, AND LOW VOLTAGE WIRING (I.E. 8-STRAND, 18 AWG. NON-SHIELDED CABLE),

3.8. SHIMS AND MISCELLANEOUS STEEL FOR LEVEL INSTALLATION AND PROPER CONDENSATE DRAINAGE.

3.9. SMOKE DETECTORS IN RETURN AIR DUCT OR SUPPLY DUCTS AS REQUIRED BY LOCAL CODE OFFICIALS.

3.10. WEATHER-PROOF ROOF AND WALL PENETRATIONS FOR COPPER PIPING, MAKE-UP AIR, GAS PIPNG, PADS.

COORDINATION WITH OTHER TRADES

4. EXAMINE AND REVIEW THE CONTRACT DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK.
5. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ASSURE PROPER INSTALLATION.
6. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, VERIFYING THE LOCATION AND SIZE OF OPENINGS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES INSTALLING WORK IN CHASES, SHAFTS, CEILING
INTERSTITIAL SPACES, AND EQUIPMENT SPACES, AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.
6. COORDINATE LOCATION OF AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
7. ALL NEW ROOF PENETRATIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
8. ALL NEW EQUIPMENT SUPPORTS SHALL BE INSTALLED PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
9. ALL ROOF MOUNTED EQUIPMENT LOCATIONS SHALL BE VERIFIED AND APPROVED BY A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE WORK IS BEING.
10. THE CONTRACTOR SHALL COORDINATE ALL THE FLOOR AND PARTITION PENETRATIONS WITH THE FIELD CONDITIONS AND STRUCTURAL DESIGN BEFORE DRILLING OR CORE-BORING.
11. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS WITH A CODE APPROVED FIRE RATED MATERIAL AS REQUIRED TO MAINTAIN THE FIRE SEPARATION BETWEEN FLOORS/ROOF REQUIRED BY THE ARCHITECTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIRE BARRIER LOCATIONS.
12. ALL ROOF MOUNTED EQUIPMENT LOCATIONS SHALL BE VERIFIED AND APPROVED BY A REGISTERED STRUCTURAL ENGINEER.
13. ALL EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. NO WEIGHT CAN BE PLACED ON THE ROOFING MATERIALS OR INSULATION.

WORKMANSHIP

14. ALL WORK AND INSTALLATION SHALL BE DONE BY A LICENSED CONTRACTOR WITH EXPERIENCE IN THE WORK REQUIRED FOR THIS PROJECT.
15. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CODE ISSUES NOT ALREADY ADDRESSED.
16. INSTALL ALL WORK IN A WORKMANLIKE MANNER THAT PROVIDES A FIRST CLASS COMPLETED INSTALLATION. REMOVE, CORRECT AND REPLACE ANY WORK DEEMED UNACCEPTABLE AT THE DISCRETION OF THE ARCHITECT/ENGINEER.
17. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN ON THE PLANS IS INTENDED TO INDICATE THAT THE INSTALLATIONS OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
18. UPON COMPLETION OF INSTALLATION. THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT A SET OF DRAWINGS, MARKED TO SCALE, INDICATING THE SIZE AND LOCATION OF PIPING, AND NOTING ALL MAJOR CHANGES MADE DURING CONSTRUCTION.
19. THE CONTRACTOR SHALL TEST ALL NEW PIPING AND NEW EQUIPMENT FOR PROPER OPERATION AND SHALL MAKE ALL NECESSARY REPAIRS AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL THE AREAS AFFECTED BY THE WORK REQUIRED IN THESE DRAWINGS TO THEIR ORIGINAL CONDITION AS REQUIRED BY THE OWNER/ARCHITECT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE JOB-SITE AS REQUIRED BY THIS CONTRACT IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, PERMITTING, AND CONDUCTING ALL THE INSPECTIONS AND TESTS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE OF COMMISSIONING INSPECTION TO THE ENGINEER.

EQUIPMENT

24. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE SPECIFICATIONS, AND APPROVED SHOP DRAWINGS.
25. PROVIDE SERVICE AND OPERATING CLEARANCES AROUND ALL SIDES OF EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED REQUIREMENTS AND RECOMMENDATIONS.
26. EQUIPMENT WITH ROTATING APPARATUS SHALL HAVE FLEXIBLE DUCTWORK AT ALL CONNECTIONS. DOES NOT INCLUDE TERMINAL BOXES.
27. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE NECESSARY PIPING, FITTINGS, VALVES, HARDWARE, SUPPORTS AND ACCESSORIES REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE NEW MECHANICAL SYSTEM(S).

DUCTWORK

28. DUCTWORK SHOP DRAWINGS SHALL BE PROVIDED TO, REVIEWED BY, AND APPROVED BY THE ENGINEER PRIOR TO ANY DUCTWORK FABRICATION AND OR INSTALLATION. DUCTWORK SHOP DRAWINGS SHALL INDICATE THE ACTUAL SIZE OF EACH SECTION OF DUCT AND ALL REQUIRED FITTINGS AND TRANSITIONS.
29. DUCTWORK SHALL BE GALVANIZED SHEETMETAL CONSTRUCTION AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF LOCAL BUILDING CODES AND SMACNA.
30. DUCTWORK SIZES INDICATED ON CONTRACT DOCUMENTS ARE AIRSIZE ONLY AND DO NOT INCLUDE AN ALLOWANCE FOR LINER.
31. FABRICATE AND INSTALL ALL DUCTWORK IN ACCORDANCE WITH THE SPECIFICATIONS, THE PLANS AND DETAILS, AND THE DUCT CONSTRUCTION AND INSULATION SCHEDULE.
32. SEAL ALL DUCTWORK JOINTS AND SEAMS WITH THE APPROVED MASTICS OR TAPES LABELED IN ACCORDANCE WITH UL181A. FOR FLEXIBLE DUCT ALL CONNECTIONS SHALL USE APPROVED MASTICS OR TAPES LABELED IN ACCORDANCE WITH 181B.
33. CENTER ALL DIFFUSERS WITHIN SQUARE CEILING TILES, AND CENTER IN EITHER THE RIGHT OR LEFT HALF OF 24"x48" RECTANGULAR CEILING TILES.
34. PROVIDE DUCT RUNOUTS TO REGISTERS, GRILLES & DIFFUSERS SAME SIZE AS THE DEVICE NECK UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE A MANUAL BALANCE DAMPER AT EACH BRANCH DUCT TAP FROM MAIN DUCT.
35. PROVIDE ALL SQUARE, 90° DUCT ELBOWS WITH SINGLE THICKNESS TURNING VANES SPACED 1.5" APART WHETHER SHOWN ON PLANS OR NOT UNLESSSPECIFICALLY NOTED OTHERWISE.
36. PAINT ALL DUCT VOLUME DAMPER HANDLES FLORESCENT ORANGE UNLESS EXPOSED IN FINISHED AREAS.
37. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL DUCTWORK CONNECTIONS TO HVAC EQUIPMENT. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH. BENDS SHALL BE MINIMIZED AND WHERE NEEDED BE A FULL RADIUS BEND. SUPPORT BANDS SHALL BE INSTALLED SO AS TO NOT CRIMP THE FLEX DUCT. FLEXIBLE DUCTWORK SHALL BE UL 181 LISTED AS A CLASS 1 AIR DUCT.
38. FIRE/SMOKE DAMPERS SHALL BE UL LISTED, CLASS I LEAKAGE AT ALL FIRE WALL PENETRATIONS. REFER TO ARCHITECTURAL FOR FIRE WALL RATING. REFER TO MECHANICAL FLOOR PLANS FOR DAMPER SIZING.
39. PROVIDE SMOKE DETECTORS IN THE RETURN DUCTS AT EACH AIR UNIT. PROVIDE SMOKE DETECTORS IN THE SUPPLY DUCTS AT AIR UNITS WITH SUPPLY OVER 2000 CFM. INTERLOCK FANS WITH SMOKE DETECTORS TO SHUT OFF UNIT IF SMOKE DETECTORS ARE ACTIVATED. PROVIDE ADDITIONAL DUCT SMOKE DETECTORS REQUIRED BY LOCAL CODE AUTHORITIES.

DUCT SEALANT

40. SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, WITH VOC CONTENT NO GREATER THAN 250 G/L AND OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS, AND FASTENING SCREWS WITH MASTIC.

GRILLES, REGISTERS, AND DIFFUSERS

41. GRILLES, REGISTERS, DIFFUSERS SHALL BE AS SPECIFIED AND SHALL BE MECHANICAL CONTRACTOR SUPPLIED, UNLESS OTHERWISE NOTED. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED.

PIPING

42. UNLESS OTHERWISE NOTED, THE PIPE DIAMETERS INDICATED ON THE DRAWING REFER TO NOMINAL CARBON STEEL PIPE SIZES. FOR HYDRONIC SERVICE,WHERE THE USE OF COPPER TUBING IS PERMITTED BY THE SPECIFICATIONS,THE DIAMETER INDICATED ON THE DRAWING REFERS TO THE NOMINAL TUBING SIZE FOR COPPER TUBING USED IN REFRIGERANT SERVICE, THE DIAMETER INDICATED ON THE DRAWINGS REFERS TO THE ACTUAL O.D. OF THE TUBING.
43. MINIMUM CONDENSATE DRAIN PIPE SIZE SHALL BE 3/4". INSULATE ALL INTERIOR CONDENSATE DRAIN PIPING.
44. CONDENSATE DRAIN PIPING SHALL BE TYPE 'L' OR 'K' HARD-DRAWN COPPER WITH WROUGHT COPPER FITTINGS. PROVIDE OWENS CORNING FIBERGLASS ASJ INSULATION, OR APPROVED EQUAL. MINIMUM CONDENSATE DRAIN INSULATION THICKNESS SHALL BE 1".

WALL MOUNTED THERMOSTATS

45. WALL MOUNTED THERMOSTAT SHALL BE LOCATED APPROX. 48" AFF. THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE INSTALLED WITH THERMAL INSULATION BACKING.

TEST AND BALANCING

46. PROVIDE TEST, ADJUST, AND BALANCING SERVICES PREFORMED BY AN INDEPENDENT AIR BALANCE AGENCY CERTIFIED BY THE AABC.
51. TESTING, ADJUSTING, AND BALANCING OF THE HVAC SYSTEMS:
    1. ADJUST FAN DRIVES TO ACHIEVE AIR QUANTITIES INDICATED ON PLANS.
    2. ADJUST AIR DEVICES AT MANUAL BALANCING DAMPERS TO ACHIEVE AIR QUANTITIES ON PLANS.
    3. ADJUST CONTROL ELEMENT SETTINGS AND VERIFY CONTROL SYSTEM OPERATION.
    4. PROVIDE TWO COPIES OF TAB WITH THE FOLLOWING:
        A. FLOWS BY AIR DEVICE.
        B. FLOWS BY EQUIPMENT.
52. PROVIDE COPIES OF THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS AT THE COMPLETION OF THE PROJECT.

EQUIPMENT SUBMITTALS

53. THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S SPECIFICATIONS AND CUT-SHEETS FOR ALL THE EQUIPMENT, FITTINGS AND COMPONENTS AS REQUIRED FOR FINAL APPROVAL BY THE ENGINEER BEFORE PURCHASING OR INSTALLING THEM. REFER TO SPECIFICATIONS FOR MORE COMPLETE INFORMATION ABOUT THE EQUIPMENT SCHEDULED.

REMOVAL OF EXISTING AND ITEMS TO REMAIN

53. DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE, UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.
54. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DELIVER THEM TO OWNER OR OWNER'S REPRESENTATIVE READY FOR REUSE.
55. REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE THEM FOR REUSE, AND REINSTALL THEM WHERE INDICATED.
56. EXISTING TO REMAIN: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND REINSTALLED.

ACCESS DOORS

57. PROVIDE MILCOR OR APPROVED EQUAL AS REQUIRED FOR ACCESS TO ALL VALVES, FILTERS, CONTROLS, DAMPERS OR OTHER DEVICES REQUIRING ATTENTION. DOORS SHALL MATCH WALL OR CEILING RATING. ARCHITECT MUST APPROVE LOCATION AND APPEARANCE OF ALL ACCESS DOORS. ACCESS PANELS FOR FIRE OR SMOKE DAMPERS SHALL BE OPENABLE WITHOUT THE USE OF TOOLS.

ACCESS AND SERVICE SPACE

58. CLEARANCE AROUND ALL HVAC EQUIPMENT SHALL CONFORM TO MANUFACTURER'S MINIMUM RECOMMENDED SPACE FOR MAINTENANCE AND/OR AR FLOW AND SHALL BE SUFFICIENT TO ALLOW DISABLING THE FUNCTION OF THE FIRE RESISTANCE RATED ASSEMBLIES.

OVERFLOW DRAIN PANS

59. PROVIDE UNDER ALL FURRED IN UNITS. PANS TO BE MINIMUM 24 GAUGE GALVANIZED SHEET STEEL; MINIMUM 1-1/2" DEEP AND NOT LESS THAN 3" LARGER THAN UNIT OR COIL DIMENSIONS. PROVIDE SEPARATE 3/4" DRAIN FROM PAN TO CONSPICUOUS LOCATION. PROVIDE ESCUTCHEON PLATES AT CEILING PENETRATIONS. WHEN ALLOWED BY LOCAL AUTHORITY: CONTRACTOR MAY PROVIDE FLOAT SWITCH IN OVERFLOW PAN INSTEAD OF DISCHARGE PIPING. FLOAT SWITCH SHALL SHUT UNIT OFF IF WATER IS DETECTED. PANS EQUIPPED WITH FLOAT SWITCH SHALL HAVE A SCREW CAP NIPPLE ON BOTTOM OF SIDE OF PAN TO ALLOW WATER TO BE DRAINED FROM PAN.

ALL HVAC UNITS SHALL BE AUTOMATICALLY SHUT DOWN BY SMOKE DETECTORS (PROVIDED AS PART OF THE FIRE ALARM SYSTEM, UNLESS SPECIFICALLY NOTED IN THE MECHANICAL DOCUMENTS) IN RETURN AIR SYSTEMS OF 2000 CFM OR GREATER (AND IN MULTIPLE SYSTEMS SERVING COMMON AREAS AND HAVING TOTAL CAPACITIES MORE THAN 2000 CFM). SMOKE DETECTORS SHALL BE UPSTREAM ON ANY FILTERS, EXHAUST CONNECTIONS OR OUTSIDE AIR CONNECTIONS.

ABBREVIATIONS

A/C	AIR CONDITIONING UNIT	LL	LANDLORD
A/E	ARCHITECT/ENGINEER	LB	POUNDS
AFF	ABOVE FINISHED FLOOR	LRA	LOCKED ROTOR AMPS
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
APPROX.	APPROXIMATE	MBH	1000 BRITISH THERMAL UNIT PER HOUR
BAS	BUILDING AUTOMATION SYSTEM	MCA	MINIMUM CIRCUIT AMPACITY
BHP	BRAKE HORSE POWER	MD	MOTORIZED DAMPER
BTU	BRITISH THERMAL UNIT PER HOUR	MFR	MANUFACTURER
CC	COOLING COIL	MIN	MINIMUM
CD	CONDENSATE DRAIN	MOCP	MAXIMUM OVER CURRENT PROTECTION
CFH	CUBIC FEET PER HOUR	N/A	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CLG	CEILING	NIC	NOT IN CONTRACT
CU	CONDENSING UNIT	NO	NORMALLY OPEN
D	EQUIPMENT DRAIN	NTS	NOT TO SCALE
DEG	DEGREES	O/A	OUTSIDE AIR
DB	DRY-BULB	OBD	OPPOSED BLADE DAMPER
DN	DOWN	OC	ON CENTER
(E)	EXISTING	PH	PHASE
EAT	ENTERING AIR TEMPERATURE	PROVIDE	FURNISH AND INSTALL
E/A	EXHAUST AIR	PRV	PRESSURE REDUCING VALVE
EDH	ELECTRIC DUCT HEATER	PSI	POUNDS PER SQUARE INCH
EF	EXHAUST FAN	R/A	RETURN AIR
ESP	EXTERNAL STATIC PRESSURE	RE:	REFER TO, REFERENCE
EWT	ENTERING WATER TEMPERATURE	RL	REFRIGERANT LIQUID
° F	DEGREES FAHRENHEIT	RLA	RUNNING LOAD AMPS
FCU	FAN COIL UNIT	RM	ROOM
FD	FIRE DAMPER	RPM	REVOLUTIONS PER MINUTE
FLA	FULL LOAD AMPS	RS	REFRIGERANT SUCTION
FLR	FLOOR	S/A	SUPPLY AIR
FPVAV	FAN-POWERED VARIABLE AIR VOLUME	SD	SMOKE DETECTOR
FSD	COMBINATION FIRE-SMOKE DAMPER	SF	SUPPLY FAN
FT.	FEET	SPECS	SPECIFICATIONS
FT. W.G.	FEET WATER GAUGE	T, T-STAT	THERMOSTAT
GA	U.S. GAUGE	T/A	TRANSFER AIR
GPM	GALLONS PER MINUTE	TEN	TENANT
H	HEIGHT	THRU	THROUGH
HP	HORSEPOWER	TSP	TOTAL STATIC PRESSURE
HPS	HIGH PRESSURE STEAM	TYP	TYPICAL
HWR	HEATING WATER RETURN	UL	UNDERWRITERS LABORATORIES, INC.
HWS	HEATING WATER SUPPLY	UH	UNIT HEATER
HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
IN.	INCH(ES)	V	VOLTS
IN. W.G.	INCHES WATER GAUGE	VAV	VARIABLE AIR VOLUME
IOM	INSTALLATION AND OPERATION MANUAL	VFD	VARIABLE FREQUENCY DRIVE
J-BOX	JUNCTION BOX	VIF	VERIFY IN FIELD
kW	KILOWATT	W/	WITH
L	LENGTH	WB	WET-BULB
LAT	LEAVING AIR TEMPERATURE	W/O	WITHOUT

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON PLANS.

HVAC LEGEND

- 12"ø — ROUND DUCTWORK #"Ø" INDICATES DIAMETER
- 12"ø — ROUND DUCTWORK - INTERNALLY LINED #"Ø" INDICATES DIAMETER
- 12/10 — RECTANGULAR DUCTWORK *1ST NUMBER INDICATES SIZE ON PLAN VIEW *2ND NUMBER INDICATES SIZE NOT SHOWN
- 12/10 — ACOUSTICAL DUCT LINE (FIGURES SHOWN ARE INSIDE DUCT DIMENSIONS)
- RECTANGULAR DUCT UP
- ROUND DUCT UP
- RECTANGULAR DUCT DN
- ROUND DUCT DN
- UP — CHANGE OF ELEVATION, RISE (UP) OR DROP (DN) IN DIRECTION OF ARROW
- DUCTWORK BRANCH TAKE-OFF
- DUCTWORK BRANCH TAKE-OFF - SQUARE TO ROUND
- M — MOTORIZED DAMPER
- FIRE DAMPER AND ACCESS DOOR
- VOLUME DAMPER
- DUCTWORK ELBOW
- DUCTWORK TRANSITION
- MITERED ELBOW W/TURNING VANES
- S3 / 70 — TAG / CFM — DIFFUSER TAG
- T — THERMOSTAT
- 202 — CARBON DIOXIDE SENSOR
- SP — STATIC PRESSURE SENSOR
- S — TEMPERATURE SENSOR
- F — FIRE DAMPER
- SD — SMOKE DETECTOR
- DOOR UNDERCUT
- SUPPLY DIFFUSER
- RETURN DIFFUSER

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08/31/22

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TITLE:

MECHANICAL LEGENDS, NOTES, ABBRV.

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
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PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
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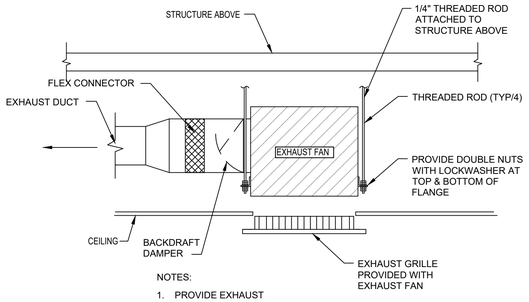
SHEET NO.

M1.02

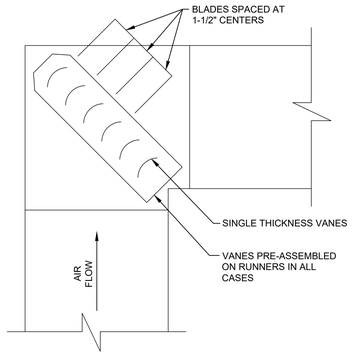


NOTES:

1. PROVIDE EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER.

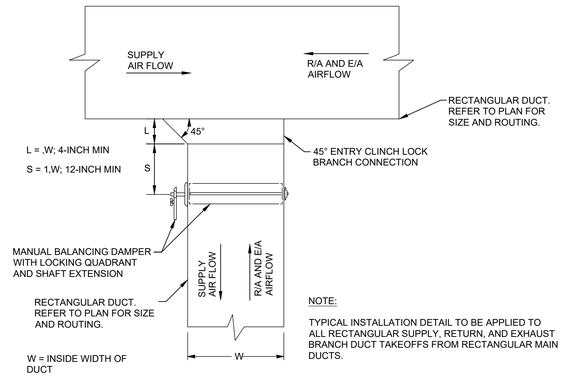
8 CEILING EXHAUST FAN DETAIL

SCALE: N.T.S.



7 TYP SQUARE ELBOW DETAIL

SCALE: N.T.S.

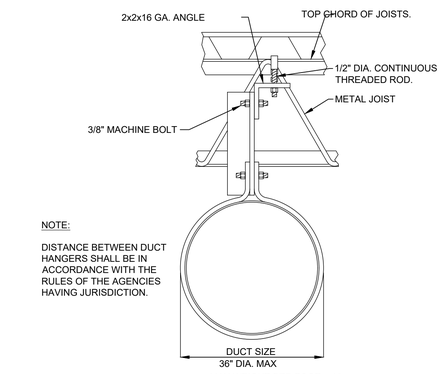


NOTE:

TYPICAL INSTALLATION DETAIL TO BE APPLIED TO ALL RECTANGULAR SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TAKEOFFS FROM RECTANGULAR MAIN DUCTS.

6 TYP RECTANGULAR BRANCH TAKEOFF DETAIL

SCALE: N.T.S.

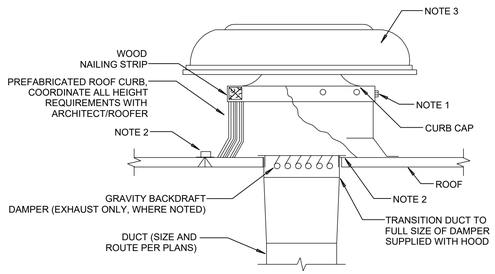


NOTE:

DISTANCE BETWEEN DUCT HANGERS SHALL BE IN ACCORDANCE WITH THE RULES OF THE AGENCIES HAVING JURISDICTION.

MAX WEIGHT PER FOOT = 16 LBS.

DIAMETER INCHES	SPIRAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE	ROUND DUCTS LONGITUDINAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE	FITTINGS STEEL MIN. GALV. SHT. GAUGE
THROUGH 12"Ø	28 (0.019 IN.)	26 (0.022 IN.)	26 (0.022 IN.)
13"Ø THROUGH 18"Ø	26 (0.022 IN.)	24 (0.028 IN.)	24 (0.028 IN.)
19"Ø THROUGH 28"Ø	24 (0.028 IN.)	22 (0.034 IN.)	22 (0.034 IN.)
29"Ø THROUGH 36"Ø	22 (0.034 IN.)	20 (0.040 IN.)	20 (0.040 IN.)
37"Ø THROUGH 52"Ø	20 (0.040 IN.)	18 (0.052 IN.)	18 (0.052 IN.)

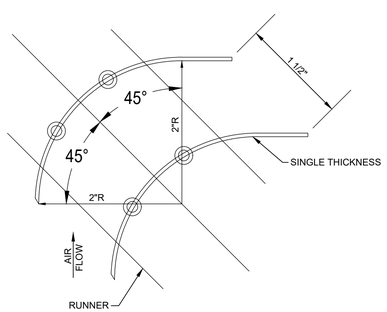


NOTE:

1. SECURE HOOD TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK & BAR JOIST ROOF).
3. FACTORY ASSEMBLED HINGED HOOD WITH LATCH AND BIRD SCREEN LOREN COOK PR OR EQUAL. THE SPUN ALUMINUM STRUCTURAL COMPONENTS SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE MARINE ALLOY ALUMINUM BOLTED TO A RIGID ALUMINUM SUPPORT STRUCTURE.

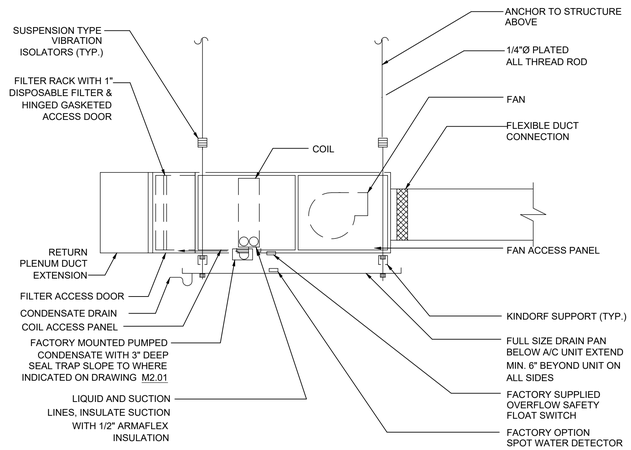
5 LOW SILHOUETTE EXHAUST OR INTAKE HOOD DETAIL

SCALE: N.T.S.



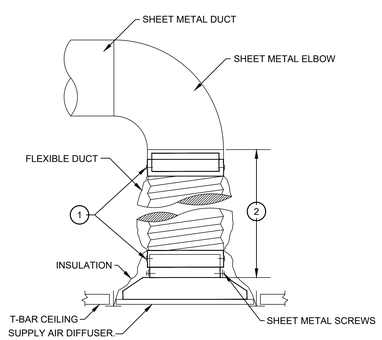
2 TYP TURNING VANE DETAIL

SCALE: N.T.S.



4 AIR HANDLING DETAIL

SCALE: N.T.S.

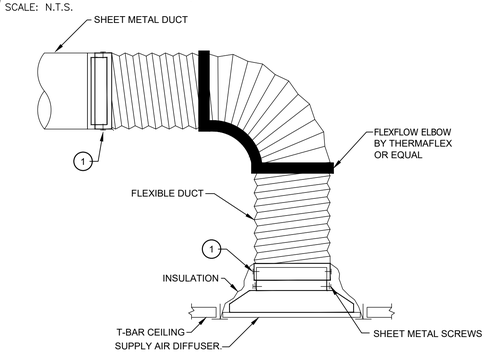


NOTES:

1. USE PLENUM COLLARS TO ATTACH FLEXIBLE DUCT . USE SHEET METAL SCREWS AND (2) WRAPS OF TAPE TO SECURE PLENUM COLLARS. ALTERNATE METHOD: BANDING DEVICE OR PANDUIT STRAP, IN LIEU OF SHEET METAL SCREWS. ALL TAPES AND SEALING MATERIALS SHALL COMPLY WITH UL181A FOR RIGID DUCT AND UL181B FOR FLEXIBLE DUCT.
2. SECURE SHEET METAL DROP TO DIFFUSER NECK WITH A MIN. OF (3) SHEET METAL SCREWS AND (2) FULL WRAPS OF TAPE PER UL REQUIREMENTS LISTED IN NOTE 1.
3. ALL FLEX DUCT SHALL BE INSTALLED WITHOUT KINKS, SAGGING, OR SHORT-RADIUS BENDS.

1 TYP FLEXDUCT CONNECTION DETAIL

SCALE: N.T.S.



NOTES:

1. USE PLENUM COLLARS TO ATTACH FLEXIBLE DUCT . USE SHEET METAL SCREWS AND (2) WRAPS OF TAPE TO SECURE PLENUM COLLARS. ALTERNATE METHOD: BANDING DEVICE OR PANDUIT STRAP, IN LIEU OF SHEET METAL SCREWS. ALL TAPES AND SEALING MATERIALS SHALL COMPLY WITH UL181A FOR RIGID DUCT AND UL181B FOR FLEXIBLE DUCT.
2. IF A MINIMUM OF 2 DIAMETERS OF STRAIGHT RUN IS NOT AVAILABLE ABOVE THE REGISTER USE HARD DUCT SHORT RADIUS CONNECTION.
3. ALL FLEX DUCT SHALL BE INSTALLED WITHOUT KINKS, SAGGING, OR SHORT-RADIUS BENDS.

3 TYP SPIRAL SEAM/ROUND DUCTWORK SUPPORT DETAIL

SCALE: N.T.S.

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMES CLAUDE REID CLAUSE
08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:

MECHANICAL DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

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SHEET NO.

M1.03

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COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Scooter's Bryant, AR
Location: Bryant (Saline), Arkansas
Climate Zone: 3a
Project Type: New Construction

Construction Site:
1816 N Reynolds Rd.
Bryant, Arkansas 72022

Owner/Agent:
Scooters Coffee

Designer/Contractor:
GRANT CLAUSSEN
GHC ENGINEERS
14901 QUORUM DR.
DALLAS, Texas 75254
972239884
gclaussen@ghcengineers.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity **System Type & Description**

1 HVAC System (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 40 kBtu/h,
Proposed Efficiency = 10.50 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 43 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 Water Heater:
Electric Storage Water Heater, Capacity: 40 gallons
Proposed Efficiency: 0.80 SL, %/h (if > 12 kW), Required Efficiency: 0.98 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Grant Claussen — Name - Title
Signature
08/31/22 — Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 , C403.12.3 [FO9][1]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][1]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.11.3 [ME61][2]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Factory-installed piping within room fan-coils and unit ventilators tested under AHRI 440.
C403.8.1 [ME65][3]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.3 [ME117][2]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Fans integral to equipment listed under Section C403.2.3.
C403.12.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.1 , C403.11.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.3.3.2 [ME121][3]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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GRANT REID CLAUSSEN
08/31/22

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SHEET NO.
M1.04

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.2 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.1 [FI42][3]	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2.1, C403.2.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.4 [FI25][3]	All piping insulated in accordance with section details and Table C403.11.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.1 [FI31][1]	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI7][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.3 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.4 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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SHEET NO.
M1.05

SPLIT SYSTEM HEAT PUMP AIR HANDLING UNIT

MARK	NOMINAL TONNAGE	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP	REFRIGERANT	COOLING CAPACITY		HEAT CAPACITY		ELECTRICAL HEAT & DATA					MOTOR (HP)	WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	REMARKS
						SENSIBLE (MBH)	TOTAL (MBH)	(MBH)	COP	VOLTAGE	PHASE	HZ	MCA	MOCP					
AHU-1	3.5	1380	265	.50	R-410A	32.3	44.3	40.3	3.10	208	1	60	6.5	15	3/4	157	DAIKIN	DV48FECD14	1-3

CONDENSING UNIT SCHEDULE

MARK	NOMINAL TONNAGE	REFRIGERANT	COOLING CAPACITY	HEATING CAPACITY	ELECTRICAL DATA					EER	SEER	WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	REMARKS
			(MBH)	(MBH)	VOLTAGE	PHASE	HERTZ	MCA	MOCP						
CU-1	3.5	R-410A	--	--	208	1	60	34.5	35	8.3	16	173	DAIKIN	DZ17VSA481A	1-4

1. PROVIDE WITH UNIT MANUFACTURE'S ELECTRONIC PROGRAMMABLE THERMOSTAT.
2. PROVIDE WITH SINGLE SOURCE ELECTRICAL POWER.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT INFORMATION.
4. PROVIDE FACTORY INSTALLED HAIL GUARDS.

FAN SCHEDULE

MARK	LOCATION	CFM	EXT. SP IN W.G.	VOLTAGE	PHASE	WATTS	DRIVE	MAX SONES	MANUFACTURER	MODEL NUMBER	WEIGHT (LBS)	REMARKS
EF-1	CEILING	75	0.25	120	1	59	DIRECT	5.0	COOK	GEMINI GC-128	15	1,3,5,6,8

NOTES:
1. OR APPROVED EQUAL
2. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. PROVIDE WITH 7-DAY PROGRAMMABLE TIMECLOCK: PARAGON MODEL EL 78 OR APPROVED EQUAL
3. INTERLOCK FAN WITH LIGHT SWITCH. REFER TO POWER AND LIGHTING DRAWINGS.
4. PROVIDE PRE-WIRED FAN SPEED CONTROLLER
5. PROVIDE A GRAVITY BACKDRAFT DAMPER
6. SUSPEND FROM STRUCTURE ABOVE. USE MANUFACTURER'S HANGING VIBRATION ISOLATOR KIT. DO NOT SUPPORT FAN FROM CEILING.
7. PROVIDE FAN WITH INTEGRAL DISCONNECT
8. PROVIDE WHITE, ALUMINUM GRILLE

AIR DEVICE SCHEDULE

TAG	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	DESCRIPTION	REMARKS
S1	TITUS	TMS	24x24	SEE PLAN	WHITE, STEEL	1,2,3
S2	TITUS	TDC-44	12x12		WHITE, ALUMINMUM	1,2,3
R1	TITUS	350RL	24x24		WHITE, STEEL	1,2,3

1. 4-WAY UNLESS NOTED OTHERWISE.
2. PROVIDE OPP BLADE DAMPER AT EACH SUPPLY UNLESS BALANCING DAMPER IS PROVIDED AT RUNOUT TAKEOFF.
3. LAY-IN OR SURFACE MOUNTING FRAME TO MATCH ARCHITECTURAL CEILING TYPE.

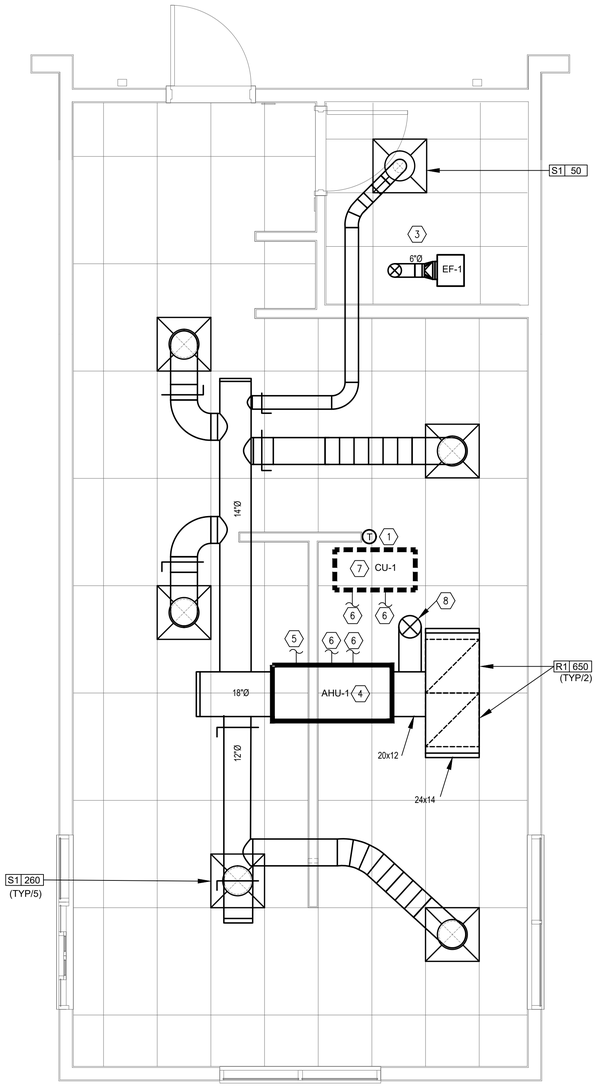
AIR DEVICE RUN-OUT SIZING

SUPPLY DUCTWORK		RETURN/EXHAUST DUCTWORK	
RUNOUT CFM	RUNOUT Ø	RUNOUT CFM	RUNOUT Ø
0-100	6"	0-75	6"
101-210	8"	76-170	8"
211-380	10"	171-310	10"
381-630	12"	311-500	12"
631-950	14"	501-770	14"
951-1400	16"	771-1100	16"
1401-1800	18"	1101-1500	18"

1. NECK SIZE SHALL BE THE SAME AS THE RUN-OUT SIZE.

NOTES BY SYMBOL (X)

1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT, MOUNT T-STAT AT 48" AFF. FURNISH THERMOSTAT IN APPROXIMATELY THIS LOCATION. COORDINATE EXACT LOCATION OF T-STAT AND TEMPERATURE/HUMIDITY SENSOR WITH ARCHITECT PRIOR TO INSTALLATION. THERMOSTAT TO BE INSTALLED AT 48" A.F.F. AND TEMPERATURE/HUMIDITY SENSOR AT 60" A.F.F.
2. PROVIDE 3/4" CONDENSATE FROM ROOFTOP UNIT TO APPROVED RECEPTOR. PROVIDE CONDENSATE PUMP PER SCHEDULE.
3. PROVIDE 6"Ø EXHAUST DUCT UP THROUGH ROOF AND TERMINATE WITH ROOF CAP. COORDINATE LOCATION OF ROOF PENETRATION AND RAIN CAP TO MAINTAIN 10'-0" CLEARANCE FROM FRESH AIR INTAKES.
4. PROVIDE AND INSTALL NEW AIR HANDLING.
5. DISCHARGE 1" PRIMARY CONDENSATE VIA INDIRECT WASTE (MINIMUM 3" AIR GAP) TO MOP SINK, OR TAIL PIECE OF NEAREST HAND SINK.
6. PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER'S IOM.
7. PROVIDE AND INSTALL NEW CONDENSING UNIT ON ROOF.
8. PROVIDE 10" DIA. FRESH AIR INTAKE DUCT UP TO ROOF. CONNECT TO NEW ROOF MOUNTED VENITLATOR. REF. TO MECHANICAL DETAILS FOR MORE INFORMATION.



1 MECHANICAL FLOOR PLAN
SCALE: 3/8" = 1'-0"

NORTH

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REVISIONS:

TITLE:
MECHANICAL FLOOR PLAN

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221329

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GENERAL

1. ALL ABOVE GROUND PIPING SHALL BE SUPPORTED FROM THE BUILDING'S STRUCTURE ONLY. PIPING SHALL BE ROUTED PARALLEL WITH THE BUILDING'S LINES.
2. ALL NEW WATER SERVICE TO THE BUILDING SHALL BE EQUIPPED WITH BACKFLOW PREVENTER. BACKFLOW PREVENTER TYPE AND ORIENTATION AS NOTED ON DRAWINGS.
3. VALVES SHALL BE BY AMERICAN, CRANE, GRINNELL, HAMMOND, NIBCO, OR APPROVED EQUAL. HORIZONTAL VALVES SHALL BE INSTALLED WITH VALVE STEM UPRIGHT OR AT A MAXIMUM OF 45 DEGREES FROM VERTICAL LINE.
4. CONTRACTOR SHALL PROVIDE (4) COPIES OF SUBMITTALS FOR ALL FIXTURES AND EQUIPMENT INSTALLED ON THE PROJECT, INCLUDING BUT NOT LIMITED TO: PLUMBING FIXTURES, VALVES, PIPING, VALVES, HANGERS, INSULATION AND FITTINGS.
5. ALL WORK SHALL BE IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, LOCAL AND STATE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF PERMITTING AND PAYMENT OF ALL UTILITY CHARGES FOR INSTALLATION/CONNECTION/ON-SITE CONSTRUCTION FOR WORK REQUIRED.
6. NEW PLUMBING FIXTURES SHALL BE AS SCHEDULED OR AN EQUIVALENT BY ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN STANDARD, KOHLER, ELKAY, CRANE, ZURN, JOSAM, WADE OR FIAT. ALL FIXTURES SHALL BE FURNISHED WITH ALL HARDWARE REQUIRED FOR WALL OR FLOOR MOUNTING.
7. ALL INDIRECT WASTE SHALL TERMINATE WITH AN AIR GAP OF TWICE THE PIPE DIAMETER ABOVE THE FLOOD LEVEL OF THE FIXTURE.
8. PIPING FROM WATER HEATER TEMPERATURE AND PRESSURE RELIEF SHALL TERMINATE AS INDIRECT WASTE OR OUTSIDE AS SHOWN WITH ELBOW DOWN. PIPING SHALL BE SAME SIZE AS P & T VALVE AND SHALL BE GALVANIZED STEEL OR COPPER. LOCATE TERMINATION AWAY FROM PERSONNEL.
9. ALL PLUMBING EQUIPMENT SUCH AS WATER HEATERS, PUMPS, STORAGE TANKS, OR MIXING VALVES SHALL BE PROVIDED WITH A NAMEPLATE, MATCHING THE TAG ON THE DRAWINGS. NAME PLATE SHALL BE CORROSION-PROOF AND WITH LETTERS MINIMUM OF 1/2" TALL. LABELS SHALL BE BY SETON, OR APPROVED EQUAL AND SHALL MATCH ANSI Z535.
10. ALL PIPING AND EQUIPMENT SHALL BE SUPPORTED BY STRUCTURAL BEAMS, JOISTS AND/OR COLUMNS ONLY.
11. CONDENSATE DRAINS WITHIN BUILDING SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX, CONTINUOUSLY FROM AIR CONDITIONING UNIT TO TERMINATION POINT.
12. ALL EQUIPMENT AND DEVICES INSTALLED ABOVE A HARD CEILING OR WITHIN WALL SHALL HAVE AN ACCESS PANEL LARGE ENOUGH TO REMOVE AND REPLACE EQUIPMENT OR DEVICE. PANEL SHALL BE SUBJECT TO APPROVAL BY ARCHITECT.
13. ALL NON-METALLIC PIPE BELOW GRADE SHALL BE INSTALLED WITH DETECTABLE TYPE TAPE 6" ABOVE IT.
14. CONTRACTOR SHALL PROVIDE (2) COPIES OF AS-BUILT DRAWINGS TO OWNER AFTER ACCEPTANCE OF PROJECT.

DOMESTIC WATER PIPING AND FITTINGS

1. DOMESTIC (POTABLE) COLD WATER PIPING BELOW GROUND/SLAB SHALL BE SOFT COPPER TUBE, ASTM B 88, TYPE "K" COPPER WATER TUBE, LEAD FREE SOLDER JOINTS, ANNEALED TEMPER. FITTINGS SHALL BE ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT-COPPER, SOLDER JOINT FITTINGS. FITTINGS SHALL NOT BE USED UNDER THE BUILDING SLAB. 314 STAINLESS STEEL IS ALLOWED AS A TYPE OF PIPE MATERIAL WITH WELDED OR MECHANICAL JOINTS. PIPING SHALL BE PRESSURE TESTED 50 PSIG ABOVE OPERATING PRESSURE WITHOUT EXCEEDING THE PRESSURE RATING OF THE PIPING SYSTEM MATERIALS. TEST SOURCE SHALL BE ISOLATED AND ALLOWED TO STAND FOR FOUR HOURS. ANY LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.

   CONTRACTOR SHALL PURGE NEW PIPING AND PARTS OF EXISTING DOMESTIC WATER PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING. USE PURGE AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION (AHJ) OR, IF METHODS ARE NOT PRESCRIBED, PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652.

   VALVES FOR POTABLE WATER SHALL BE BRONZE OR STAINLESS STEEL BY WATTS, WOODFORD, STOCKHAM, KITZ OR APPROVED EQUAL. PROVIDE WATER HAMMER ARRESTORS BY WADE, PPS, ZURN, OR APPROVED EQUAL. LOCATE WATER HAMMER ARRESTORS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. HARD DRAWN COPPER TUBE, ASTM B88, TYPE "L" WATER TUBE, DRAWN TEMPER. FITTINGS SHALL BE CAST COPPER ALLOY, ASTM B16.18 OR WROUGHT COPPER, ASTM B16.22 SOLDER FITTINGS. PROVIDE SHUTOFF VALVE ON EACH WATER SUPPLY TO EQUIPMENT AND ON EACH WATER SUPPLY TO PLUMBING FIXTURES WITHOUT SUPPLY STOPS. USE BAL VALVES FOR PIPING NPS 2" AND SMALLER.
3. POTABLE HOT WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" OF FIBERGLASS. POTABLE COLD WATER SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX OR FIBERGLASS INSULATION. IF THE INSULATED PIPING PASSES THROUGH A WALL, CEILING OR FLOOR, THE INSULATION SHALL BE CONTINUOUS THROUGHOUT THE PENETRATION. PIPING INSULATED INDOORS SHALL HAVE A WHITE, ALL-SERVICE JACKET. PIPING INSULATED OUTDOORS SHALL HAVE AN EMBOSSED ALUMINUM JACKET. HORIZONTAL PORTIONS OF RAIN LEADERS SHALL BE INSULATED WITH 1" THICK ARMAFLEX OR 1-1/2" THICK FOAM GLASS. EXPOSED WASTE LINES BELOW HANDICAPPED FIXTURES SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX.
4. ALL HANDSINKS IN KITCHENS AND LAVATORIES IN RESTROOMS SHALL BE PROVIDED WITH A THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1016, ASSE 1062, OR ASSE 1070 (AS REQUIRED BY APPLICATION) SET TO SUPPLY TEMPERED WATER AT 110f, U.N.O.
5. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) CONFORMING TO ASSE 1013 ON MAIN WATER SERVICE. (TESTING SHALL BE PERFORMED BY BACKFLOW PREVENTION ASSEMBLY TESTER REGISTERED/LICENSED BY CITY.)
6. PROVIDE RPZ AT SUPPLY OF WATER FILTERS, COFFEE & TEA BREWERS, CARBONATED DRINK DISPENSERS CONFORMING TO ASSE 1022. STAINLESS STEEL RPZ SHALL BE USED ON CARBONATED AND OTHER CORROSIVE LIQUIDS. DO NOT USE COPPER PIPE DOWNSTREAM OF SS RPZ FOR CARBONATED LIQUIDS. PROVIDE RZ (OR ATMOSPHERIC VACUUM BREAKER ON HOSE BIBB IF ACCEPTABLE BY A.H.J.) ON WATER INJECTED SOAP DISPENSERS. ROUTE DRAIN FROM RPZ'S TO NEAREST FLOOR SINK OR APPROVED LOCATION.
7. PROVIDE PRESSURE REDUCING VALVES CONFORMING TO ASSE 1003 FOR ALL HOT AND COLD WATER PIPES SERVING EQUIPMENT IF PRESSURE EXCEEDS 80 PSI DOWNSTREAM OF RPZ ON MAIN.

WASTE AND VENT PIPING SYSTEMS

1. ALL WASTE AND VENT PIPING ABOVE GRADE/SLAB SHALL BE CAST IRON HUB AND SPIGOT (ASTM A 888, ASTM C 1277, ASTM C 564), CAST IRON NO-HUB WITH STAINLESS STEEL COUPLINGS, OR SOLID WALL SCHEDULE 40 PVC. WHERE NOT OTHERWISE SPECIFIED THROUGHOUT THE DRAWING SET, WASTE DRAIN AND VENT PIPING SHALL BE PER LOCAL CODE AND AUTHORITY HAVING JURISDICTION. PLASTIC PIPING IS NOT ALLOWED IN A RETURN AIR PLENUM. PIPING BELOW GRADE SHALL BE CAST IRON HUB AND SPIGOT, NO-HUB (LISTED FOR UNDERGROUND USE), OR DWV PVC. ROUGHING-IN PLUMBING TEST PROCEDURE: TEST DRAINAGE AND VENT PIPING, EXCEPT OUTSIDE LEADERS, ON COMPLETION OF ROUGHING-IN. CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER. FROM 15 MINUTES BEFORE INSPECTION STARTS TO COMPLETION OF INSPECTION, WATER LEVEL SHALL NOT DROP. INSPECT JOINTS FOR LEAKS. REPAIR ALL LEAKS AND TEST AGAIN. MINIMUM SLOPE OF SANITARY WASTE PIPING = 1/8" PER FOOT.
2. WASTE PIPE BELOW GROUND/SLAB WITHIN 5'-0" OF THE BUILDING SHALL BE PVC PIPE, ASTM D 2665, SOLID WALL DRAIN, WASTE, AND VENT PATTERNS.
3. TEST SANITARY DRAINAGE AND VENT PIPING ACCORDING TO PROCEDURES OF AUTHORITIES HAVING JURISDICTION.
4. EACH PLUMBING VENT AND/OR SOIL STACK PROJECTING ABOVE THE ROOF SHALL BE FLASHED WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS. FLASHING SHALL EXTEND INTO ROOFING A MINIMUM OF 12" OR DISTANCE SPECIFIED BY LOCAL CODE. PAINT VENT PIPING EXPOSED ON ROOF BLACK OR AS DIRECTED BY THE ARCHITECT.

CONDENSATE DRAINAGE PIPING

1. ABOVE GROUND, CONDENSATE DRAINAGE PIPING AND COPPER DWV TUBE: ASTM B 306, DRAINAGE TUBE, DRAWN TEMPER, COPPER DRAINAGE FITTINGS: ASME B16.23, CAST COPPER OR ASME B16.29, WROUGHT COPPER, SOLDER JOINT FITTING.

GAS PIPING

1. GAS PIPING OUTSIDE ABOVE GRADE, SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A53, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.
2. BELOW GRADE OUTSIDE BUILDING, GAS PIPING MAY BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE WITH HEAT FUSION FITTINGS CONFORMING TO ASTM D2513 IF PERMITTED BY A.H.J.. INSTALLATION SHALL CONFORM TO LOCAL CODE AND UTILITY COMPANY REQUIREMENTS. PROVIDE PLASTIC PIPE W/ TRACER WIRE.
3. CONNECTION, FITTINGS, ETC. SHALL BE SAME WEIGHT AS PIPE AND EQUAL TO PRODUCTS OF CRANE COMPANY. VALVES SHALL CONFORM TO ASME B16.33. ONE INCH AND SMALLER VALVES SHALL BE LEVER HANDLE. LARGER VALVES SHALL BE RON BODY WITH BRONZE SQUARE HEAD PLUG. PROVIDE OPERATING WRENCH WITH EACH VALVE. PROVIDE UNIONS AT EACH CONNECTION TO EQUIPMENT. DO NOT INSTALL UNIONS ELSEWHERE.
4. PROVIDE UL LISTED CORRUGATED, FLEXIBLE GAS CONNECTIONS TO WATER HEATERS AND COOKING EQUIPMENT CONFORMING TO ANSI Z21.24. PROVIDE RIGID CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL CODE PROHIBITS THE USE OF FLEXIBLE CONNECTIONS. OUTDOOR CONNECTORS SHALL BE LISTED FOR OUTDOOR USE.
5. INSTALL HANGERS FOR HORIZONTAL STEEL PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:
   A. 1/2 INCH NPS: MAXIMUM SPAN, 72 INCHES; MINIMUM ROD SIZE, 3/8 INCH.
   B. 3/4 INCH TO 1 INCH NPS: MAXIMUM SPAN OF 96 INCHES; MINIMUM ROD SIZE OF 3/8 INCH.
   C. 1-1/4 INCH TO 2 INCH NPS: MAXIMUM SPAN OF 108 INCHES; MINIMUM ROD SIZE OF 3/8 INCH.
   D. 2-1/2 INCH TO 3-1/2 INCH NPS: MAXIMUM SPAN OF 10 FEET; MINIMUM ROD SIZE OF 1/2 INCH.

6. GAS VALVE STOPS 2 INCH NPS AND SMALLER SHALL BE AGA-CERTIFIED, BALL TYPE WITH CHROME-PLATED BRASS BALL, FOR 2 PSIG OR LESS NATURAL GAS. INCLUDE AGA STAMP, FLAT OR SQUARE HEAD OR LEVEL HANDLE, AND THREADED ENDS CONFORMING TO ASME B1.201

7. SOLENOID VALVES: BRONZE, ALUMINUM, OR CAST-IRON BODY; 120 VAC, 60 HZ, CLASS B CONTINUOUS DUTY MOLDED COIL; UL LABELED AND FM APPROVED. INCLUDE NEMA ISC 6, TYPE 4, COIL ENCLOSURE AND ELECTRICALLY OPENED AND CLOSED DUAL COILS. VALVE POSITION IS NORMALLY CLOSED. INCLUDE THREADED ENDS CONFORMING TO ASME B1.20.1 FOR 2 INCH NPS AND SMALLER AND FLANGED ENDS FOR 2-1/2 INCH NPS AND LARGER.

8. EXTEND NATURAL GAS PIPING AND CONNECT TO GAS DISTRIBUTION SYSTEM (GAS SERVICE) PIPING IN LOCATION AND SIZE INDICATED FOR GAS SERVICE ENTRANCE TO BUILDING. GAS DISTRIBUTION SYSTEM PIPING, SERVICE PRESSURE REGULATOR, AND GAS METER WILL BE PROVIDED BY GAS UTILITY.

9. INSTALL SHUTOFF VALVE DOWNSTREAM FROM GAS METER, OUTSIDE BUILDING AT GAS SERVICE ENTRANCE.

10. INSTALL DRIPS AT POINTS WHERE CONDENSATE MAY COLLECT. INCLUDE OUTLETS OF GAS METERS. LOCATE WHERE READILY ACCESSIBLE TO PERMIT CLEANING AND EMPTYING. DO NOT INSTALL WHERE CONDENSATE WOULD BE SUBJECT TO FREEZING.

11. ALL EQUIPMENT CONNECTIONS SHALL BE PRECEDED BY A MANUAL STOP COCK.

12. PROVIDE SWING CONNECTIONS THROUGHOUT THE SYSTEM TO ALLOW FOR ADEQUATE HORIZONTAL AND VERTICAL EXPANSION AND CONTRACTION. UNIONS OF COMPANION FLANGES SHALL BE PROVIDED FOR REMOVAL OF EQUIPMENT.

13. INSTALL UNIONS IN PIPES 2" NPS AND SMALLER, ADJACENT TO EACH VALVE AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT AND ELSEWHERE AS INDICATED. UNIONS ARE NOT REQUIRED ON FLANGED DEVICES.

14. INSTALL STRAINERS ON SUPPLY SIDE OF EACH CONTROL VALVE, GAS PRESSURE REGULATOR, SOLENOID VALVE, AND WHERE INDICATED ON THE DRAWINGS.

15. INSTALL DIELECTRIC FITTINGS (UNIONS AND FLANGES) WITH FERROUS AND BRASS OR BRONZE END CONNECTIONS, SEPARATED BY INSULATING MATERIAL, WHERE PIPING OF DISSIMILAR METALS ARE JOINED.

16. INSTALL VENT PIPING FOR GAS PRESSURE REGULATORS AND GAS TRAINS. EXTEND OUTSIDE BUILDING AND VENT TO ATMOSPHERE TERMINATE VENTS WITH TURNED-DOWN REDUCING ELBOW FITTINGS WITH CORROSION RESISTANT INSECT SCREENS IN LARGE END.

17. INSTALL GAS VALVE UPSTREAM FROM AND WITHIN 72 INCHES OF EACH APPLIANCE USING GAS. INSTALL UNION OR FLANGED CONNECTION DOWNSTREAM FROM VALVE. INCLUDE FLEXIBLE CONNECTORS WHEN INDICATED.

18. GAS PIPING EXPOSED ON THE ROOF MUST BE PAINTED WITH RUST-INHIBITING PAINT.

19. GAS PIPING PENETRATING ANY EXTERIOR WALL OR ROOF SHALL BE ROUTED WITHIN A VENTED STEEL SLEEVE. WHERE GAS PIPING CONNECTS TO APPLIANCE, PROVIDE A MINIMUM 6" LONG DIRT LEG. OTHER PIPING PENETRATING EXTERIOR WALLS SHALL BE PROVIDED WITH STEEL SLEEVES BUT NOT VENTED.

20. ALL GAS PIPING WITHIN THE BUILDING SHALL HAVE WELDED OR BRAZED JOINTS. PIPING SHALL BE IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, LOCAL AND STATE.

21. ALL EXPOSED GAS PIPING SHALL BE PAINTED WITH TWO (2) COATS (MINIMUM) OF YELLOW EPOXY PAINT. AFTER PAINTING, PROVIDE LABELS AS PER ANSI.

WATER HEATERS

1. ELECTRIC WATER HEATERS, THERMOSTAT CONTROL: COMPLY WITH UL 1453 FOR TANK TYPE ELECTRIC WATER HEATER HEATING APPLIANCE. CONSTRUCTION SHALL INCLUDE COPPER PIPING OR TUBING COMPLYING WITH NSF 61 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY. PRESSURE RATING OF 150 PSIG. ELECTRICAL RESISTANCE HEATING SYSTEM. TEMPERATURE CONTROL SHALL BE THERMOSTATIC. PROVIDE WITH HIGH TEMPERATURE LIMIT CUTOFF DEVICE OR SYSTEM.

   A. RELIEF VALVE: ASME RATED AND STAMPED AND COMPLYING WITH ASME PTC 25.3 FOR COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVES. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN WATER HEATER WORKING PRESSURE RATING. SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.

1. WATER HEATER SHALL BE BY UNIT SPECIFIED OR BY A.O. SMITH, BRADFORD WHITE, CHRONOMITE, EEMAX, LOCHINVAR, RINNAI, RHEEM, OR RUDD.

INSULATION

1. PIPE INSULATION SHALL BE EQUAL TO OWENS CORNING FIBERGLASS "ASJ/SSL" OR JOHNS MANVILLE "MICRO-LOK" HAVING ALL SERVICE JACKET. PROVIDE PLASTIC JACKET OUTDOORS AND WHERE EXPOSED TO PHYSICAL DAMAGE.

2. MINERAL FIBER, PIPE INSULATION: PREFORMED PIPE INSULATION COMPLYING WITH ASTM C 547, TYPE I, GRADE A, WITH ABSORBENT CLOTH FACTORY APPLIED TO THE ENTIRE INSIDE SURFACE OF PREFORMED PIPE INSULATION AND EXTENDED THROUGH LONGITUDINAL JOINT TO OUTSIDE SURFACE OF INSULATION UNDER INSULATION JACKET. FACTORY APPLY A WHITE, POLYMER, VAPOR RETARDER JACKET WITH SELF SEALING ADHESIVE TAPE SEAM AND EVAPORATION HOLES RUNNING CONTINUOUSLY ALONG THE LONGITUDINAL SEAM, EXPOSING THE ABSORBENT CLOTH.

3. INSULATE ALL HOT AND COLD WATER PIPING WITH 1" THICK PIPE INSULATION. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS OR IN ATTIC SPACES SHALL BE INSTALLED TO THE HEATED SIDE OF THE WALL OR ATTIC INSULATION. ALL WATER PIPING SUBJECT TO FREEZING TEMPERATURES SHALL BE INSULATED SUFFICIENTLY TO PREVENT FREEZING OF PIPING AS INDICATED PER DETAILS.

4. ALL DOMESTIC COLD WATER PIPING AND CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" FIBERGLASS. ALL HOT WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS (CONDUCTIVITY LESS THAN 0.27 BTU/(IN*HR*FT2*F)). COMPLY WITH APPLICABLE ENERGY CODE.

5. INTERIOR HORIZONTAL ROOF DRAINS AND LEADERS SHALL BE INSULATED WITH 1/2" FIBERGLASS.

MISCELLANEOUS

1. HEAT TRACE SHALL BE EQUAL TO RAYCHEM/TYCO #5XL-1-CR, 5 W/FT AT 120V AND 40F START-UP. PROVIDE INSULATION AS SPECIFIED ELSEWHERE, OR A MINIMUM OF $\frac{1}{2}$" (FIBERGLASS WITH ASJ) OVER HEAT TRACE AND DRAIN LINE.

2. CONTRACTOR SHALL SNAKE ALL DRAIN LINES AND SANITARY SEWER LINES PRIOR TO APPLYING FOR FINAL PAYMENT.

3. PROVIDE DIELECTRIC UNIONS TO SEPARATE DISSIMILAR MATERIAL PIPES AND WHERE SHOWN FOR EQUIPMENT REMOVAL.

4. ALL WATER PIPING AND SEWERS SHALL BE PROPERLY TESTED TO THE SATISFACTION OF THE A.H.J.

5. TRENCHES SHALL BE BACK-FILLED WITH CLEAN SOIL BY TAMPING OR PUDDING IN 6" INCREMENTS. NO PIPE SHALL BE LESS THAN 12" BELOW GRADE.

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TITLE:

PLUMBING SPECS

KIOSK PROTOTYPE:
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PIPING SYMBOLS

SANITARY

- GRADE CLEANOUT (GCO)
- FLOOR CLEANOUT (FCO)
- DOUBLE YARD CLEANOUT (DYCO)
- FLOOR DRAIN (FD)
- FLOOR SINK (FS)
- WALL CLEANOUT (WCO)
- PIPE CLEANOUT (CO)
- SANITARY WYE
- SANITARY CROSS

DRAWINGS SYMBOLS

- FLOW ARROW
- SLOPE DIRECTION AND DEGREE (1%)
- CONNECT TO EXISTING
- KITCHEN EQUIPMENT TAG (X)

PIPING

- 90° ELBOW DOWN
- 90° ELBOW UP
- TEE DOWN
- TEE UP
- UNION
- CAP
- CONTINUATION

ACCESSORIES

- GAS METER (M)
- GAS PRESSURE REGULATOR (R)
- NON-FREEZE WALL HYDRANT
- NON-FREEZE ROOF HYDRANT
- ROOF DRAIN (RD)
- OVERFLOW ROOF DRAIN (ORD)
- ROOF DRAIN NOZZLE
- PUMP

VALVES

- BALL VALVE
- PLUG VALVE
- THERMOSTATIC MIXING VALVE
- GATE VALVE
- GLOBE VALVE
- GAS STOP
- ANGLE VALVE
- BUTTERFLY VALVE (HORIZONTAL)
- BUTTERFLY VALVE (VERTICAL)
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- VALVE BOX
- CHECK VALVE

ABBREVIATIONS

CD	CONDENSATE	MS	MOP SINK
CO	CLEANOUT	MV	MIXING VALVE
CP	CIRCULATION PUMP	NFRH	NON FREEZE ROOF HYDRANT
CW	COLD WATER	NFWH	NON FREEZE WALL HYDRANT
CWF	COLD WATER FILTERED	ORD	OVERFLOW ROOF DRAIN
DB	DRYER BOX	PT	PLASTER TRAP
ES	EMERGENCY SHOWER	RD	ROOF DRAIN
EW	EYE WASH	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
EWC	ELECTRIC WATER COOLER	SHWR	SHOWER
FCO	FLOOR CLEANOUT	SP	SUMP PUMP
FD	FLOOR DRAIN	SS	SANITARY SEWER
FS	FLOOR SINK	TW	TEMPERED WATER
GCO	GRADE CLEANOUT	TWCO	TWO WAY CLEANOUT
GW	GREASE WASTE	TWR	TEMPERED WATER RETURN
HW	HOT WATER	UR	URINAL
HWR	HOT WATER RETURN	WC	WATER CLOSET
IMB	ICE MACHINE BOX	WCO	WALL CLEANOUT
LAV	LAVATORY	WH	WATER HEATER
HB	HOSE BIBB	WMB	WASHING MACHINE BOX

PIPING LEGEND

- COLD WATER (CW)
- HOT WATER (HW)
- WASTE PIPING (W)
- VENT (V)
- GW — GREASE WASTE (GW)
- CD — CONDENSATE DRAIN (CD)
- G — GAS PIPING (G)
- RD — ROOF DRAIN PIPING (RD)
- (E) — EXISTING PIPING (E)

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	ABBREVIATION	PIPING MATERIAL
SANITARY WASTE AND VENT PIPING BELOW GRADE	SW OR V	HUBLESS CAST IRON (PVC DWV OPTIONAL)
SANITARY WASTE AND VENT ABOVE GRADE	SW OR V	SERVICE WEIGHT CAST IRON (PVC DWV OPTIONAL)
WATER PIPING BELOW GRADE	CW, HW, OR HWR	TYPE L HARD DRAWN COPPER WITH SOLDERED JOINTS
WATER PIPING ABOVE GRADE	CW, HW, OR HWR	TYPE K SOFT ANNEALED COPPER
CONDENSATE DRAIN PIPING - 1" AND SMALLER	CD	TYPE M HARD DRAWN COPPER (PVC DWV OPTIONAL)
CONDENSATE DRAIN PIPING - 1-1/4" AND LARGER	CD	TYPE DWV HARD DRAWN COPPER (PVC DWV OPTIONAL)
INDIRECT DRAIN - 1" AND SMALLER	ID	TYPE M HARD DRAWN COPPER
INDIRECT DRAIN - 1-1/4" AND LARGER	ID	TYPE DWV HARD DRAWN COPPER

KITCHEN FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE/ EQUIPMENT	FILTERED WATER (RO SYSTEM) (IN)	COLD WATER (IN)	HOT WATER (IN)	WASTE	
					INDIRECT	DIRECT
2	ICE MAKER	1/2"			1-1/2"	
6	COFFEE MAKER	1/2"				
9	ESPRESSO MACHINE	1/2"				
10	3-COMPARTMENT SINK		3/4"	3/4"	3"	
24	MOP SINK		3/4"	3/4"		3"
27	DIPPER WELL		3/8"			
28	RINSE SINK		3/8"		2"	
21	DUMP SINK		1/2"	1/2"		2"
21.1	S/S COUNTER W/ DIPPER WELLS		1/2"	1/2"		2"
21.2	HAND SINK		1/2"	1/2"		2"
25	WATER TREATMENT SYSTEM	1/2"			2"	
32	WALL MOUNTED HAND SINK		1/2"	1/2"		2"

NOTES:
1. COORDINATE WITH KITCHEN DRAWINGS PRIOR TO INSTALLATION

PLUMBING SCHEDULE

MARK	FIXTURE	MAX GPM/GPF	CW	HW/TW	WASTE	VENT	DESCRIPTION
LAV	WALL-HUNG LAVATORY	0.5	1/2"	1/2"	3"	2"	FIXTURE: TOTO: #LT307 21"x18-1/4" WALL HUNG LAVATORY, WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. SINGLE HOLE FAUCET: CHICAGO FAUCET: #802-VE2805XKCP, 4" CENTERSET, VANDAL RESISTANT FAUCET WITH #390 LEVER HANDLES, CERAMIC QUARTER TURN CARTRIDGES AND #E2805 0.5 GPM AERATOR
WC	WATER CLOSET	1.5	1"		4"	2"	TBD
FS-1	FLOOR SINK				3"	2"	SIOUX CHIEF 861, PVC BODY WITH SCH 40 HUB CONNECTION, PVC STRAINER
FD-1	FLOOR DRAIN				3"	2"	ZURN # FD2210, PVC OR ABS BODY, ADJUSTABLE NICKEL BRONZE HEAD AND SECURED GRATE
TP	TRAP PRIMER						FIXTURE: McGUIRE *8902 / SUPPLIES: McGUIRE *2165CC.
WHA	WATER HAMMER ARRESTOR				1/2"	2"	PROVIDE AND INSTALL AT ALL FAST CLOSING VALVES, INCLUDING FLUSH VALVES, AND AT ENDS OF FIXTURE RUNS.
GI	GREASE INTERCEPTOR					3"	SCHIER: GB2 50 GPM 127.6 LBS
TS	TRAP SEAL						ProSet SYSTEMS 'GRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED, FLEXIBLE ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT BOTTOM. ALLOWS WASTEWATER TO OPEN AND ADEQUATELY DISCHARGE FLOOR DRAIN THROUGH ITS INTERIOR. CLOSES AND RETURNS TO ORIGINAL MOLDED SHAPE AFTER WASTEWATER DISCHARGE IS COMPLETE.
WCO	WALL CLEANOUT						SIOUX CHIEF (873 SERIES, BRASS COUNTERSUNK PLUG, 20 GAUGE STAINLESS STEEL COVER AND SCREW. CLEANOUT TEE TO BE PROVIDED SEPARATELY. REFER TO SPECIFICATIONS FOR INSTALLATION
FC	FLOOR CLEANOUT						ZURN CO2450--AB3 ADJUSTABLE FLOOR CLEANOUT, 3 INCH ABS HUB CONNECTION, 4" SIZE AVAILABLE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
RP	HOT WATER RE-CIRCULATION PUMP						REFER TO RE-CIRCULATION PUMP SCHEDULE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER						WATTS: #LF009QT-S, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, QUARTER TURN BALL VALVES, BRONZE STRAINER, AND #909AG AIR GAP FITTING

NOTES:
1. ALL FIXTURES MAY BE SUBSTITUTED FOR APPROVED EQUALS.
2. NOT ALL FIXTURES USED ON ALL JOBS.
3. ALL FIXTURES - PROVIDE TRAP GUARDS OR TRAP PRIMERS WHERE REQUIRED BY LOCAL CODES AND/OR AHJ
4. G.C. SHALL VERIFY FIXTURE SPECIFICATIONS WITH ARCHITECT PRIOR TO ORDERING

TYP HOT WATER MAXIMUM PIPING LENGTHS

FIXTURE TYPE	HW/TW	MAXIMUM HOT WATER PIPING LENGTH FROM HEATING SOURCE
LAVATORY	1/2"	2'
MOP SINK	3/4"	21'
SINK	1/2"	43'
SHOWER	1/2"	43'
WASHING MACHINE BOX	1/2"	43'
EXTRACTOR	3/4"	43'

NOTES:
1. REFER TO 2012 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C404.5.1 FOR MORE INFORMATION. SYSTEM SHALL COMPLY.
2. HEATING SOURCE REFERS TO CIRCULATING HOT WATER LOOP, TANK WATER HEATER OR INSTANTANEOUS WATER HEATER.

TANK-TYPE ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	STORAGE CAPACITY (GALLON)	ELECTRICAL DATA			MANUFACTURER	MODEL NUMBER
			VOLTAGE	PHASE	MAX KW		
WH	ABOVE MOP SINK	40	208	1	8	AO SMITH	DEL-40

1. PROVIDE SHUT OFF VALVES ON HOT AND COLD WATER CONNECTIONS.
2. SET HEATER TO DELIVER WATER AT 140°F.
3. WATER HEATER SHALL BE WALL MOUNTED.

THERMOSTATIC MIXING VALVE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	PRESSURE DROP	INLET HOT WATER		INLET COLD WATER		OUTLET TEMPERED WATER	
				TEMP	FLOW	TEMP	FLOW	TEMP	FLOW
TMV	WATTS	LFMMV-UT-M1	10 PSI	140 °F	.5 GPM	60 °F	.5 GPM	110 °F	1.0 GPM

1. BRONZE BODY THERMOSTATIC MIXING VALVE WITH INTEGRAL FILTER WASHERS AND CHECK VALVES AND ADJUSTMENT CAP WITH LOCKING FEATURE.
2. VALVE SHALL BE ASSEE 1016, 1017 AND1070 LISTED
3. IF VALVE SERVES WALL HUNG LAVATORY OR HAND SINK, LOCATE VALVE IN WALL DIRECTLY BEHIND A 12"X12" ACCESS PANEL WITH LOCKING COVER. COORDINATE LOCATION WITH ARCHITECT.
4. IF VALVE SERVES A COUNTERTOP LAVATORY, LOCATE VALVE BELOW LAVATORY WITHIN CABINET.
5. IF VALVE SERVES MULTIPLE LAVATORIES OR HAND SINKS, VALVE SIZE SHALL BE AS FOLLOWS: 1-2 LAVATORIES (1/2"), 3-4 LAVATORIES (3/4"), AND 5-6 LAVATORIES (1").

EXPANSION TANK

MARK	TANK VOLUME	MANUFACTURER	MODEL NUMBER	HEIGHT	DIA.	ASTME CONST
ET	2GAL	AMTROL	ST-5	13"	8"	NO

WATER HAMMER ARRESTOR

FIXTURE	#100	#200	#300	#400	#500
PDI UNITS	A	B	C	D	E
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154

1. WATER HAMMER ARRESTORS SHALL BE FURNISHED AND INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010
2. FLUSH-VALVE WATER CLOSETS = 10 FIXTURE UNITS.
3. FLUSH-VALVE URINAL = 5 FIXTURE UNITS.
4. LOCATE WATER HAMMER ARRESTOR BETWEEN LAST TWO FLUSH-VALVE FIXTURES.
5. WATER HAMMER ARRESTORS SHALL COMPLY WITH PDI-WH-201.
6. WATER HAMMER ARRESTORS SHALL BE PROVIDED WITH AN ACCESS DOOR UNLESS PROVIDED WITH A LIFETIME WARRANTY.

RECIRCULATION PUMP SCHEDULE

MARK	SERVICES	GPM	TOTAL HEAD FT	MOTOR HP	ELECTRICAL DATA		
					VOLTAGE	PHASE	HERTZ
RP	120° HOT WATER	5	5	1/12	115	1	60

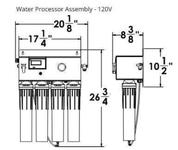
REMARKS:
BELL AND GOSSETT SERIES 100, BRONZE BODY W/ JOHNSON CONTROLS AQUASTAT MODEL A19DAC-1C, PLACE ABOVE WATER HEATER OR IN UTILITY ROOM WHER SPACE ALLOWS.

KITCHEN GREASE TRAP FLOW CALCULATION

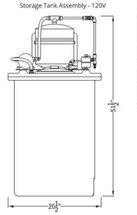
NAME/TAG	TYPE	QTY	FLOW RATE (2 MIN/1 MIN)	DFU	DIMENSIONS	CAPACITY
#10	3 COMP SINK	1	7.36 GPM/14.73 GPM	6	6" X 18" X 14"	19.64 GPM
#24	MOP BASIN	1	3.12 GPM/6.23 GPM	3	20" X 16" X 6"	8.31 GPM
#21.2	HAND SINK	1	2.05 GPM/4.09 GPM	3	10" X 14" X 9"	5.46 GPM
#21	DUMP SINK	1	1.82 GPM/3.64 GPM	3	10" X 14" X 6"	3.64 GPM
					TOTAL:	37.05 GPM

OptiPure

Water Processor Assembly - 120V



Storage Tank Assembly - 120V



Feed-Water Chemistry

Feed TDS	Up to 1200 ppm
Feed pH	6.98 units
Hardness*	12 grains or less
Free Chlorine	<2 mg/l
Iron	0.1 mg/l max
Turbidity	0.05 NTU
Manganese	0.05 mg/l max
Hydrogen Sulfide	0.0 mg/l

*For water outside of these parameters call OptiPure technical service.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Model: BWS350/50
Part #: 164-14375

Specifications

System	
Dimensions - Processor	26.8"h x 20.1"w x 8.4"d
Dimensions - Tank	51.5"h x 26.5"w
Connection - Feedwater	3/8" Push Fit Tubing
Operating Pressure Range	60 - 85 psi at 1.0 gpm (4.1 - 5.9 bar)
Inlet Water Temperature Range	40° - 100°F (4° - 38°C)
Shipping Weight	100 lbs.
Drain Connection	2.0 gpm Minimum Flow
Power - Water Processor	120V 60Hz 6W
Power - Repressurization Pump	120V 60Hz 2 Amps
Performance	
Typical TDS Rejection	>97%
Product Water Production (at 77°F, 60 psi Net Operating Pressure) Production rate is strictly dependent on feed water temperature and pressure.	350.0 gals./day 14.6 gals./hr 0.25 gpm
Blended Water Production	Up to 400 gpd

Replacement Media

Model	Description	Part Number	Qty
CTO-Q	Pre-Filter	300-05830	2
AMS-QT	Membrane	204-53040	1
MA-Q15	Post-Filter	300-05855	1

Options

Model	Description	Part Number
Air-Gap Kit	Approved Air-Gap Kit for Drain Line	164-89905
QTPT-1	CTO Post-Treatment	160-52120
BPS-QT	Feed Water Booster Pump	164-85020
FXPT-11CR	Chloramine Reduction System	160-50011
PRV	Pressure Reducing Valve	164-89938
Remote Kit	Repressurization/Storage Tank Assembly remote kit	164-89116

It is recommended that pre/post-filters and mineral addition cartridges be changed annually, when TDS capacity is reached or when feedwater pressure or flow becomes inadequate.

Membrane life varies depending on feedwater conditions and pre-filter maintenance. It is 12-18 months under typical conditions, but it can be as long as 3-5 years.

This product is for commercial use only and must be installed and maintained according to manufacturer's guidelines.

Do not use on water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Warranty

All system components and assembly except for filter cartridges, separation membranes, permeate pumps, electric motors, diaphragm pumps, and rotary vane pumps shall be warranted against defects in workmanship for a period of 60 months from the date of original shipment. For complete warranty information, contact OptiPure customer service or go to www.optipurewater.com.

Dealer/Distributor Info:

OptiPure, A Division of Aquion, Inc.
101 S. Gary Ave., Suite A
Roselle, IL 60172
p: 972.881.9797 e: info@optipure.net
www.optipurewater.com

BWS350/50_Spec_R7 011319

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMES REID CLAUSS
08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:

PLUMBING NOTES & SCHEDULES

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

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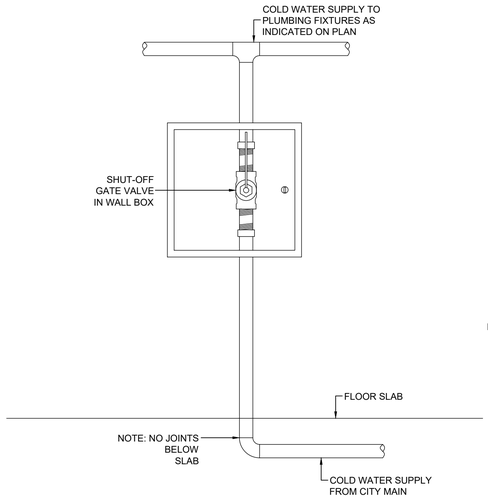
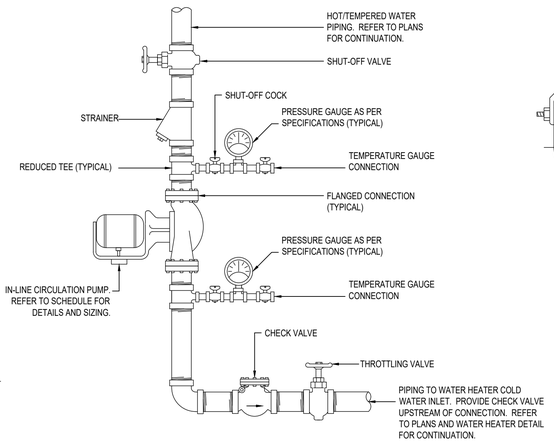
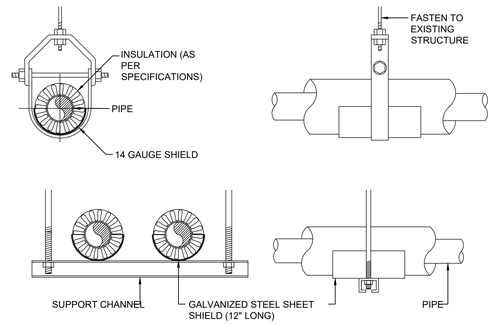


12 TYP WALL MOUNT ACCESS PANEL DETAIL
SCALE: N.T.S.

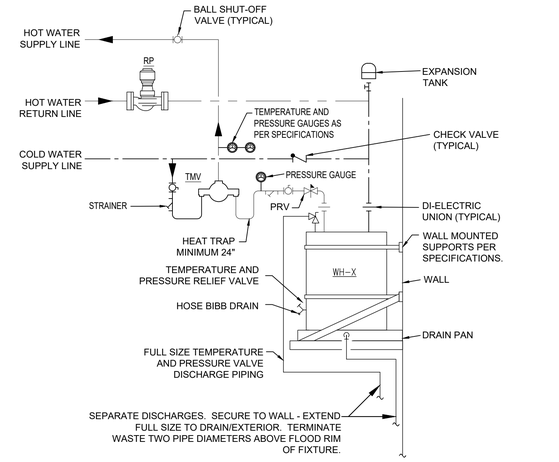


11 TYP IN-LINE CIRCULATING DETAIL
SCALE: N.T.S.



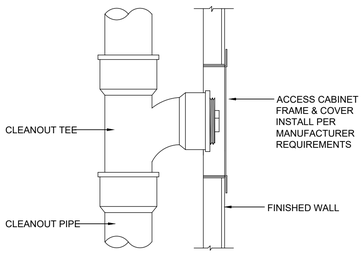
NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE.
2. VAPOR BARRIER SHALL BE CONTINUOUS AT ALL JOINTS.

10 TYP PIPE HANGER SUPPORT DETAIL
SCALE: N.T.S.

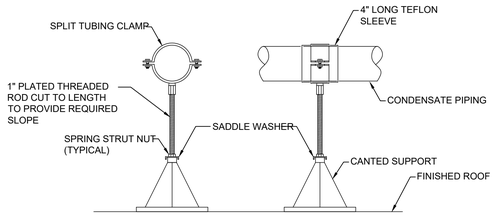


NOTES:
1. REFER TO PLUMBING SCHEDULE SHEET AND PLUMBING FLOOR PLANS FOR SIZING.
2. REFER TO MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
3. REFER TO IN-LINE CIRCULATION PUMP DETAIL FOR ALL VALVE, STRAINER, AND GAUGE REQUIREMENTS.
4. PRESSURE REDUCING VALVE (PRV) ON THE OUTLET OF WATER HEATER SHALL BE SET AT 25 PSI.

9 ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.

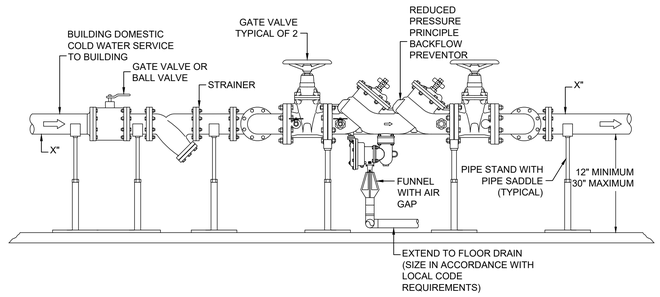


8 TYP WALL CLEANOUT DETAIL
SCALE: N.T.S.

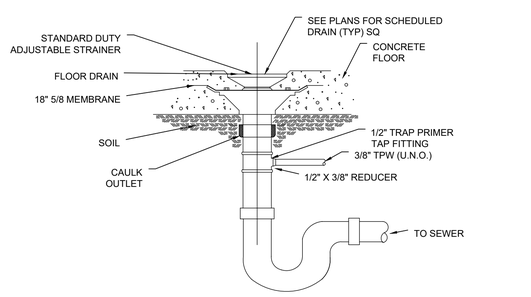


NOTES:
1. SPACE PIPE SUPPORTS AT 8'-0" MAXIMUM SPACING OR AS SPECIFIED.
2. PROVIDE RUBBER ISOLATION PAD AT CLAMP.

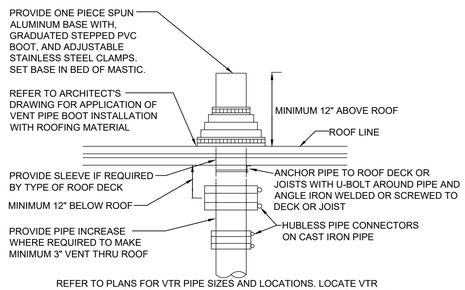
7 TYP ROOF PIPE SUPPORT DETAIL
SCALE: N.T.S.



6 TYP REDUCED PRESSURE ZONE BACKFLOW PREVENTOR DETAIL (IF REQURED)
SCALE: N.T.S.

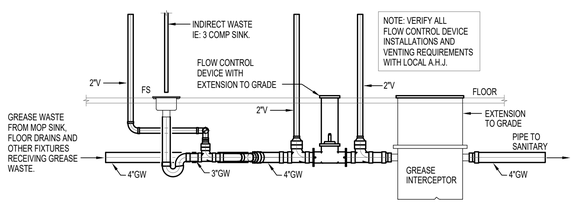


5 TYP FLOOR DRAIN DETAIL
SCALE: N.T.S.

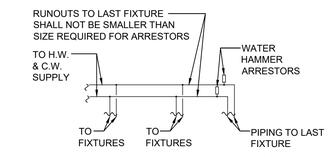


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

4 TYP VENT THRU ROOF DETAIL
SCALE: N.T.S.

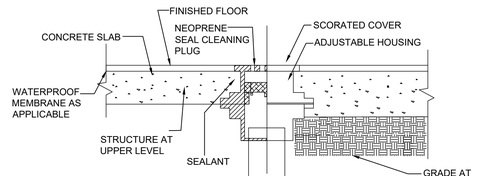


3 GREASE TRAP DETAIL
SCALE: N.T.S.



NOTE: USE TABLE 10-1 UNIFORM PLUMBING CODE FOR FIXTURE UNITS, FOR SIZING WATER HAMMER ARRESTORS. TABLE APPLIES TO BOTH UPC & IPC.

2 TYP WATER HAMMER ARRESTOR DETAIL
SCALE: N.T.S.



1 TYP FLOOR CLEAN-OUT DETAIL
SCALE: N.T.S.

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LICENSED PROFESSIONAL ENGINEER
MATTHEW REID CLAUSEN
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GENERAL NOTES

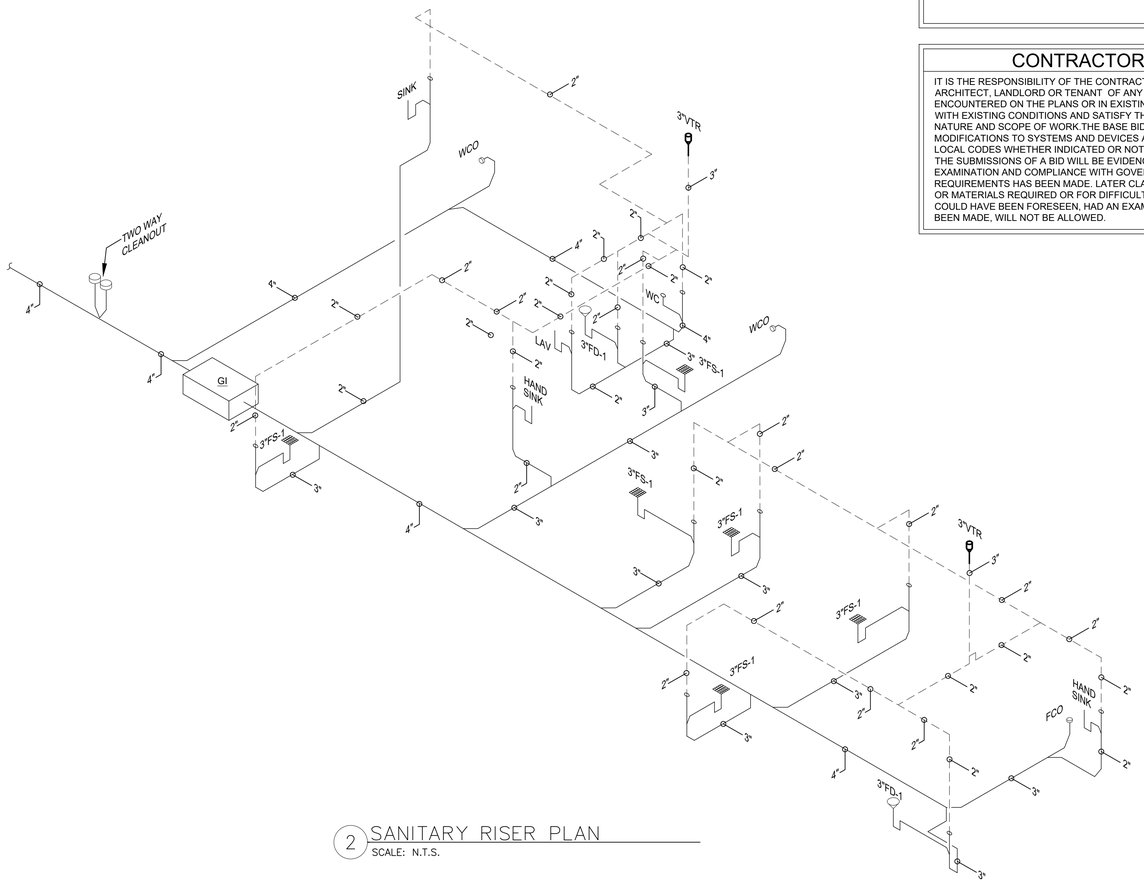
1. WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.
2. PROVIDE CLEANOUT LOW UNDER COUNTER AT EACH SINK/LAVATORY LOCATION IN ACCESSIBLE MANNER. PROVIDE CLEANOUT 12" - 18" A.F.F. AT THE MOP SINK AND FLOOR SINK.
3. SCOOTERS COFFEE PROTOTYPE OPERATES UNDER THE ASSUMPTION THAT NO GREASE INTERCEPTOR IS REQUIRED FOR THESE SPACES UNLESS REQUESTED BY LOCAL AUTHORITIES. REFER TO PLAN DRAWINGS AND KEY NOTES FOR PROPOSED SCHEMATIC ADDRESSING INTERCEPTOR REQUIREMENTS ON SITE.
4. PROVIDE AND INSTALL PIPE CLAMPS AND HANGERS AS REQUIRED BELOW SLAB TO ROUTE PIPE SUPRORTED FROM ELEVATED SLABS. FURNISH EXPANSION JOINTS WHERE PIPES ENTER THE SOIL.

NOTES BY SYMBOL (X)

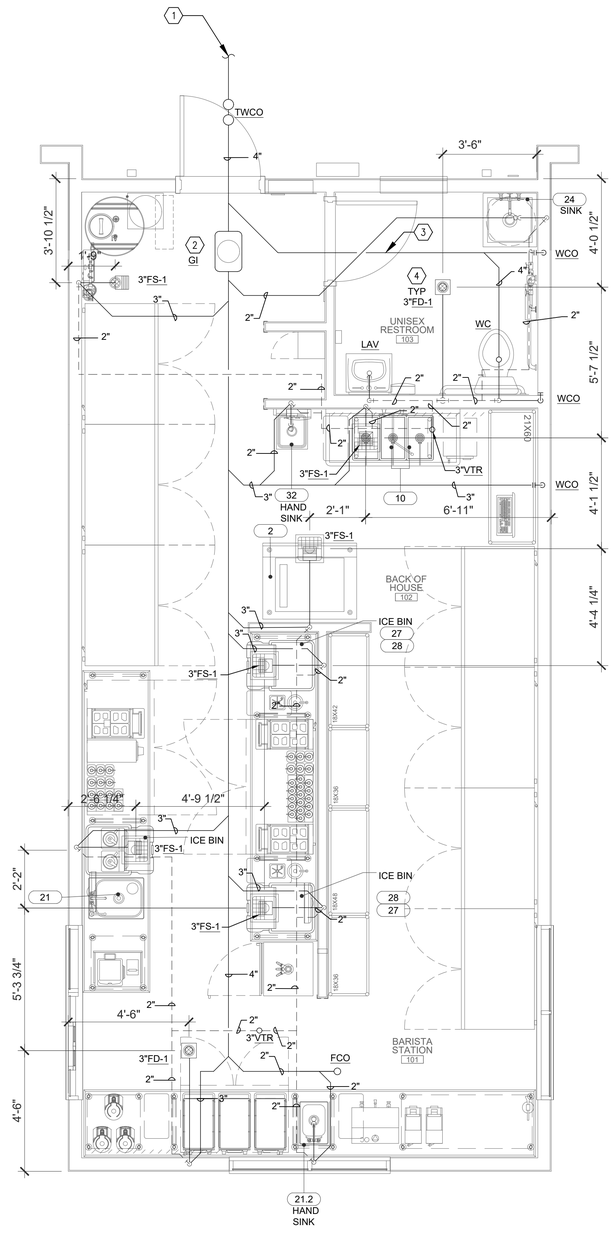
1. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION.
2. PROVIDE AND INSTALL GREASE INTERCEPTORS SERVING KITCHEN WASTE. EXTEND GREASE WASTE PIPING FROM KITCHEN GREASE INTERCEPTOR.
3. EXTEND SANITARY WASTE FROM RESTROOMS TO EXTERIOR AND TIE IN ON THE EFFLUENT SIDE OF THE INTERCEPTOR ONLY FOR SPACES REQUIRING GREASE TRAP. DO NOT TIE SANITARY WASTE FROM RESTROOMS INTO THE GREASE WASTE LINE FROM THE KITCHEN WHEN LOCAL AUTHORITIES REQUIRE AN INTERCEPTOR.
4. PROVIDE TRAP SEALS (TS) AT FLOOR DRAINS

CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK.THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.



2 SANITARY RISER PLAN
SCALE: N.T.S.



1 SANITARY SEWER FLOOR PLAN
SCALE: 3/8" = 1''-0"

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAY REID CLAUSEN
08/31/22

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
SANITARY SEWER FLOOR PLAN & RISER DIAGRAM

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
P2.01

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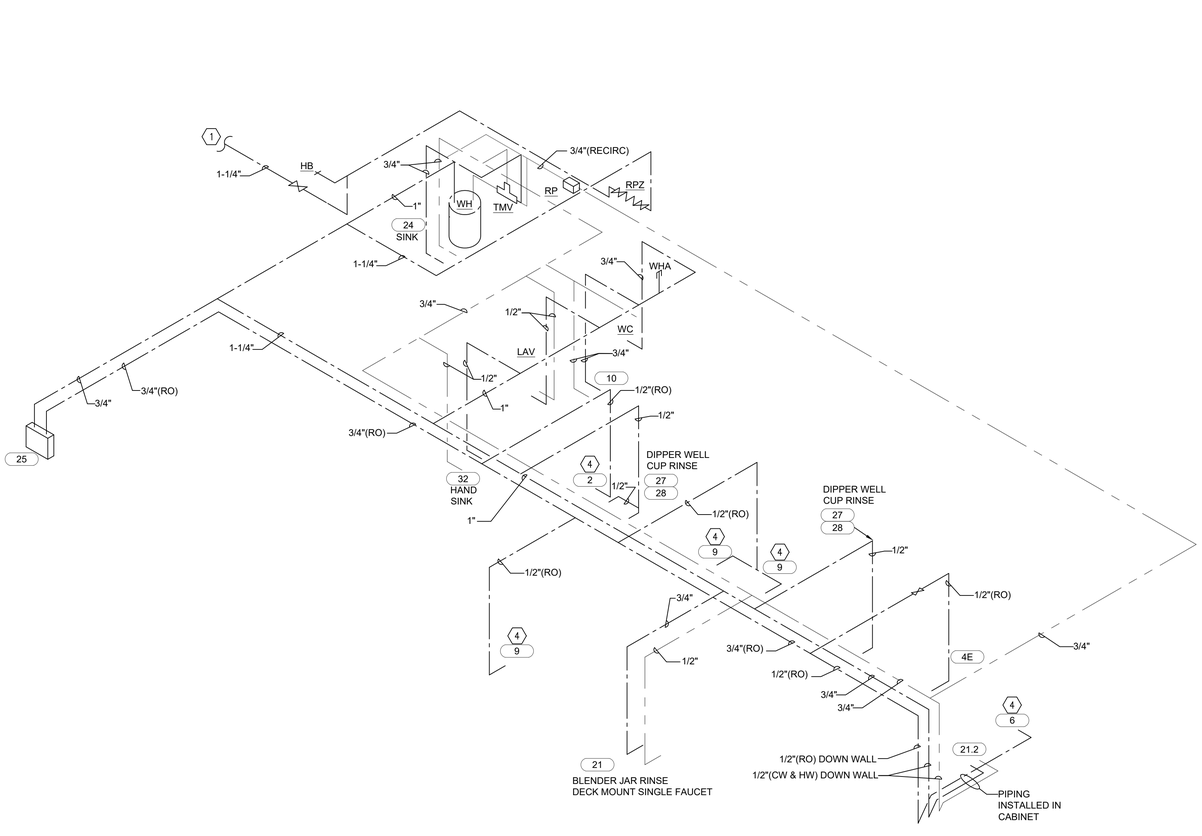
GENERAL NOTES

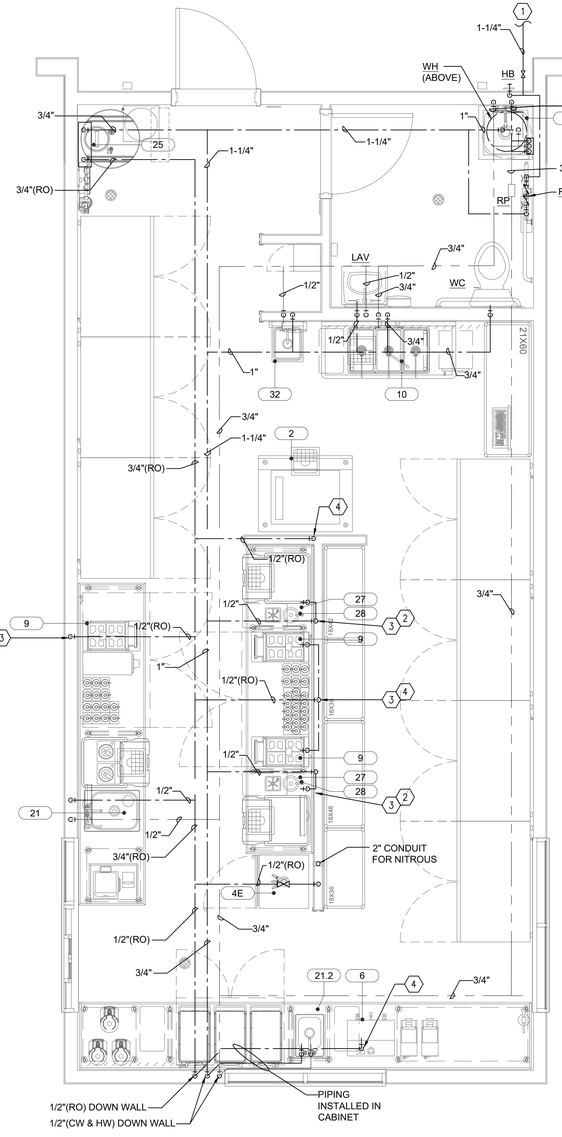
1. CONTRACTOR TO COORDINATE METER REQUIREMENTS WITH LANDLORD/ CITY AT START OF PROJECT
2. CONTRACTOR TO PROVIDE/INSTALL BACKFLOW PREVENTION AS NEEDED IF NONE IS FOUND ON SITE PER CITY REQUIREMENTS.
3. ALL PLUMBING AND ELECTRICAL SHALL BE CONCEALED WITHIN WALLS OR ABOVE CEILING. SOME LINES MAY BE OFFSET TO SHOW DIAGRAMMATIC CONNECTIONS.
4. PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS, FOR PLACEMENT OF HOT AND COLD WATER SUPPLY TAPS PRIOR TO INSTALLATION. WATER SUPPLY LOCATIONS ON THIS SHEET ARE DIAGRAMMATIC.
5. ROUTING OF WATER LINES SHOWN ON PLANS IN VICINITY OF PANELS IS DIAGRAMMATIC. DO NOT ROUTE WATER LINES DIRECTLY ABOVE PANELS.
6. PROVIDE PRESSURE REDUCING VALVE ON MAIN TAP IF SERVICE PRESSURE EXCEEDS 80PSI, REDUCE TO 65 PSI. NOTIFY ENGINEER IF WATER PRESSURE IS BELOW 45 PSI ON SITE (STATIC OR DYNAMIC). MEASURE BEFORE BEGINNING CONSTRUCTION.

NOTES BY SYMBOL (X)

1. SEE CIVIL DRAWINGS FOR CONTINUATION OF WATER SUPPLY. CONTRACTOR TO VERIFY LOCATION PRIOR TO INSTALLATION.
2. 3/4" COLD WATER DOWN IN WALL FOR 1/2" COLD WATER CONNECTION TO DIPPER WELL AND RINSE SINK
3. PROVIDE 3/8" SHUT-OFF VALVE. FINAL CONNECTION TO MACHINE BY OTHERS.
4. PROVIDE DOUBLE CHECK VALVE RPZ ON WATER LINE AT POINT-OF-USE AT KITCHEN FIXTURE



2 WATER SUPPLY RISER
SCALE: N.T.S.



1 WATER SUPPLY FLOOR PLAN
SCALE: 3/8" = 1'-0"

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1816 N Reynolds Rd.
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REVISIONS:

TITLE:
WATER SUPPLY FLOOR PLAN & RISER DIAGRAM

KIOSK PROTOTYPE:
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MAY 2022
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09/01/2022
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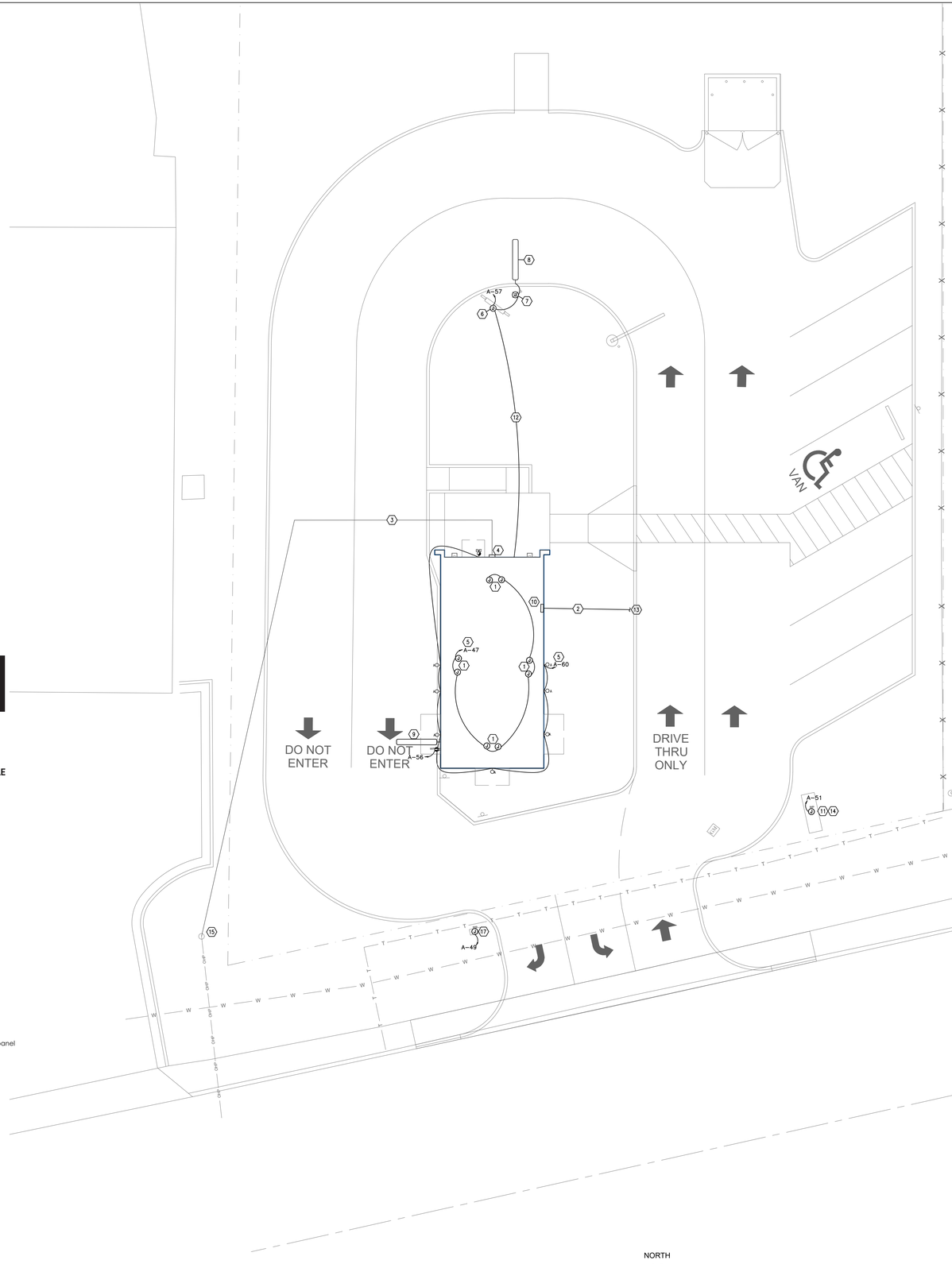


GENERAL NOTES

A. ALL EXTERIOR LIGHT FIXTURES TO COMPLY WITH LOCAL NIGHT SKY ORDINANCE.

B. ALL EXTERIOR LIGHTING AND SIGNACE TO BE FED WITH #10 CU. U.N.O.

C. ALL EXTERIOR ELECTRICAL EQUIPMENT TO BE NEMA-3R RATED.

D. CONTRACTOR TO COORDINATE EXACT SITE LIGHTING FIXTURE LOCATIONS WITH LANDSCAPE DRAWINGS.

E. ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410-0. ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES.

F. FIRE ALARM EQUIPMENT SHALL BE COORDINATED FOR EXACT LOCATION AND REQUIREMENTS WITH FIRE MARSHALL .

G. ALL PVC CONDUIT MUST HAVE A MINIMUM OF #12 CU. GROUND CONDUCTOR.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE AND SCHEDULING WITH POWER AND TELEPHONE UTILITY COMPANIES INCLUDING (2) COMPLETE SETS OF DRAWINGS TO EACH COMPANY. ALL WORK SHALL BE INSTALLED PER EACH UTILITY COMPANIES FINAL DESIGN DRAWINGS.

I. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.

NOTES BY SYMBOL (X)

1. PROVIDE W.P. J-BOX FOR EXTERIOR SIGNAGE PER NEC. COORDINATE EXACT PRIOR TO INSTALLATION. EXTEND CIRCUIT THROUGH WALL SWITCH. REFER TO SHEET E1.0 FOR MORE INFORMATION. VERIFY EXACT REQUIREMENTS W/ OWNER.
2. 4" UNDERGROUND PVC CONDUIT WITH PULL WIRE AND RIGID STEEL BENDS PER TELEPHONE COMPANY REQUIREMENTS. TRENCH AND BACKFILL AS REQUIRED. REFER TO TABLE 300.5 FOR ADDITIONAL REQUIREMENTS .
3. NEW SECONDARY FEEDERS FROM TRANSFORMER PER POWER COMPANY REQUIREMENTS. ROUTING SHOWN FOR REFERENCE ONLY. REFER TO ONE-LINE DIAGRAM.
4. PROPOSED LOCATION OF NEW SERVICE ENTRANCE SECTION IN NEMA-3R ENCLOSURE. REFER TO ONE-LINE DIAGRAM AND LOAD CALCULATIONS.
5. CIRCUIT ROUTED TO WALL SWITCH. REFER TO SHEET E1.0 FOR LOCATION.
6. PROVIDE STUB-UP FOR DRIVE THRU DIGITAL MENU BOARD. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DIGITAL MENU BOARD SCHEMATIC.
7. PROVIDE W.P. J-BOX FOR DRIVE THRU SPEAKER. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DRIVE-THRU CONDUIT SCHEMATIC.
8. CONNECT SPEAKER PEDESTAL TO DETECTION LOOP, COORDINATE EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN. SEE DRIVE-THRU CONDUIT SCHEMATIC.
9. PROVIDE STUB UP FOR DETECTION LOOP. COORDINATE EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN. SEE DRIVE-THRU CONDUIT SCHEMATIC.
10. PROPOSED LOCATION OF MAIN POINT OF PRESENCE FOR TELEPHONE COMPANY DEMARCATION AND TERMINATION.
11. PROVIDE W.P. J-BOX FOR MONUMENT SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT OR OWNER AND ELECTRICAL REQUIREMENT S WITH VENDER.
12. PROVIDE (4) ELECTRICAL NON METALLIC CONDUITS FOR DRIVE THRU DIGITAL MENU BOARD. REFER TO DRIVE THRU SCHEMATIC ON THIS SHEET FOR FURTHER INFORMATION. (1) 2" CONDUIT TO IT RACK FOR DIGITAL CABLE, (1) 1-1/2" CONDUIT TO IT RACK FOR COMMUNICATIONS, (1) 1" CONDUIT FOR BRANCH POWER (TWO 20A/1P BRANCH CIRCUITS REQUIRED) TO ELECTRICAL PANELBOARD AND (1) 1" CONDUIT FOR LOOP DETECTION ROUTED TO DRIVE-THROUGH AREA LOOP DETECTION SYSTEM.
13. TERMINATE AND STUB CONDUIT TO PROPERTY LINE OR EXISTING CABINET PER TELEPHONE COMPANY REQUIREMENT.
14. PROVIDE (3) #10" IN 3/4" NON METALLIC CONDUIT AT 24" BELOW FINISHED GRADE, PER NEC 300.5 VERIFY EXACT ROUTING PRIOR TO INSTALLATION. TRENCH, BACKFILL, AND REPAIR LANDSCAPE/ HARDSCAPE AS REQUIRED.
15. PROPOSED POWER COMPANY TRANSFORMER LOCATION. COORDINATE WITH UTILITY OWNER FOR EXACT LOCATION.
16. PROVIDE AND INSTALL FLAG POLE LIGHT REFER TO SHEET E2.01 FOR LIGHTING SCHEDULE.
17. PROVIDE W.P. J-BOX FOR INTERNALLY ILLUMINATED DIRECTIONAL SIGN.

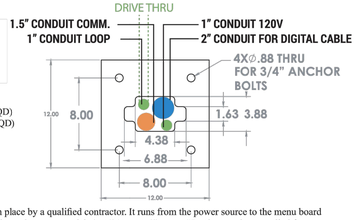
DIGITAL

DT FLEX

FOUNDATION INSTRUCTIONS

DIAGRAM CC Template & Foundation

Mounting Template

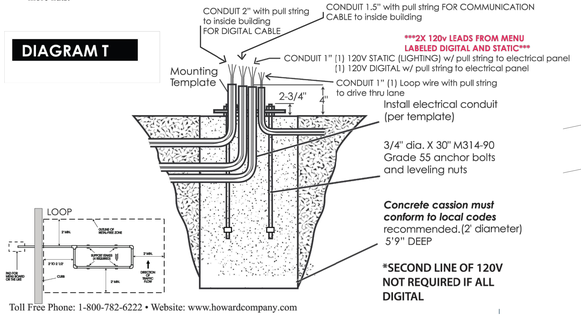


HOLE SIZES:
A: 0.813" DIA. HOLE.....(4 REQD)
B: SEE TEMPLATE DRAWING.....(1 REQD)

Foundation

The high voltage conduit must be installed in place by a qualified contractor. It runs from the power source to the menu board location. A conduit stub should protrude 4" above the concrete slab **(see Diagram T)** Use the template supplied for the correct relation between the mounting bolts and the conduit location. Power and ground leads should be pulled through the conduit approximately 12" beyond the conduit stub, and be accessible at the time of final wiring. **Note: The 120VAC power lines run up the inside back of the pedestal base (see Diagram CC, Mounting Template)**
After the location is established, pour the concrete footing per local codes. While the concrete is still soft, insert the four (4) anchor bolts. Use the supplied template as a bolt and conduit locator. Anchor bolts should be 2-3/4" above grade (see Diagram F Foundation. **Note: Prior to placing the template down, one (1) nut must be threaded onto each anchor bolt and sunk into the concrete, flush with the top of the nut.** Place the template over the eight (4) anchor bolts and secure in place with four (4) more nuts.

DIAGRAM T



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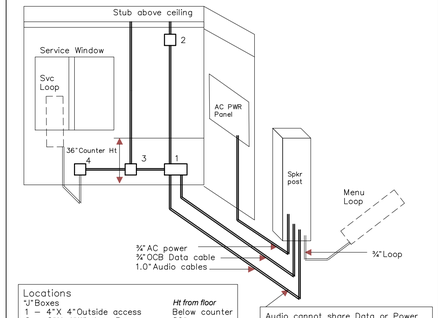
DIGITAL MENU BOARD SCHEMATIC

1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

NORTH



DRIVE THRU CONDUIT SCHEMATIC

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LICENSED PROFESSIONAL ENGINEER
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08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
ELECTRICAL SITE PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
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26000 COMMON WORKS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.0 DESCRIPTION

A. THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS, APPLY TO THE WORK SPECIFIED IN THIS DIVISION.

B. CONTRACTOR SHALL VISIT THE SITE TO CONFIRM ITEMS LISTED AS EXISTING BY LANDLORD. ITEMIZED BIDS SHALL BE PROVIDED TO COMPLETE ANY SCOPE GAP ITEMS TO ENSURE ALL WORK REQUIRED BY THE CONTRACTOR IS INCLUDED IN THE SCOPE.

C. PRIOR TO FINAL BID, REFER DISCREPANCIES, ERRORS, OMISSIONS AND AMBIGUITIES IN THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE IN WRITING. PROVIDE RESOLVED MATERIALS AND LABOR APPROVED BY THE OWNER'S REPRESENTATIVE AS PART OF THE FINAL BID.

D. THE INTENT OF THE CONTRACT DOCUMENTS IS TO PROVIDE COMPLETE SYSTEMS. PROVIDE MISCELLANEOUS ITEMS AND ACCESSORIES FOR COMPLETE SYSTEMS.

1.1 WORK INCLUDED

A. FURNISH LABOR, SUPPLIES, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY FOR INSTALLATION OF A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, AS SPECIFIED HEREIN. THIS SECTION, AS WELL AS THE REST OF THE CONTRACT DOCUMENTS APPLY TO THE PROJECT.

B. COORDINATE WITH ALL OTHER TRADES FOR ELECTRICAL EQUIPMENT CONNECTIONS AND INSTALLATIONS.

C. THE CONTRACT DOCUMENTS ARE A COMPLETE SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPECIFICATIONS. CONTRACTOR TO REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS.

1.2 QUALITY ASSURANCE

A. ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK. IF THE STANDARDS AND CODES CONFLICT WITH EACH OTHER, THE MOST STRINGENT SHALL APPLY.

B. PRODUCTS SPECIFIED IN DIVISION 16 FOR WHICH MANUFACTURERS ARE NOTED MUST STILL COMPLY WITH ALL CONTRACT DOCUMENTS. MENTION OF MANUFACTURER BY NAME, OR A SPECIFIC PRODUCT IS NOT INTENDED TO LIMIT OTHER MANUFACTURERS FROM THE PROJECT.

C. PERFORM ALL WORK IN ACCORDANCE WITH THE REGULATIONS AND ORDINANCES OF LOCAL MUNICIPAL AND STATE AGENCIES WHO HAVE LAWFUL JURISDICTION OVER THE PROJECT.

D. PROTECT ALL PRODUCTS DURING DELIVERY AND HANDLING AT THE SITE.

1.3 GOVERNING CODES

A. LOCAL MUNICIPALITY ELECTRICAL CODES AND ORDINANCES.

B. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), 70-NATIONAL ELECTRICAL CODE.

C. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), 29 CFR 1910.

D. AMERICANS WITH DISABILITIES ACT OF 1990 (ADA).

E. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI).

F. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA) STANDARDS.

G. UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL).

H. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

I. NATIONAL ELECTRICAL SAFETY CODE (NESC).

J. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).

K. MANUFACTURER'S RECOMMENDATIONS.

1.5 JOB REQUIREMENTS AND CONDITIONS:

A. PERMITS, LICENSES AND INSPECTIONS SHALL BE SECURED AND PAID FOR AS REQUIRED BY LAW FOR THE COMPLETION OF THE WORK. CERTIFICATES OF APPROVAL SHALL BE SECURED, PAID FOR, AND DELIVERED TO THE OWNER BEFORE THE FINAL ACCEPTANCE OF THE WORK.

B. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS IN THE INSTALLATION OF WORK. COORDINATE EQUIPMENT, PIPING, CONDUITS AND RACEWAYS TO ALLOW FOR SPACE FOR OTHER TRADES.

C. NOTIFY PROPER AUTHORITIES HAVING JURISDICTION FOR FOR INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.

1.6 SUBMITTALS

A. PRODUCT DATA: PROVIDE MANUFACTURERS' PUBLISHED ENGINEERING DATA AND MATERIALS. ANY SUBMITTED PRODUCTS DIFFERENT THAN THE SPECIFIED PRODUCTS SHALL BE CLEARLY IDENTIFIED IN THE SUBMITTAL.
B. PROVIDE TEST REPORTS, MATERIAL LISTINGS AND ANY REQUIRED CERTIFICATES.
C. OPERATION AND MAINTENANCE DATA TO BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT WITH OWNER TRAINING.

1.7 WARRANTY

A. FURNISH THE MANUFACTURER'S PRINTED WARRANTY FOR EACH SEPARATE ITEM, ALONG WITH CONTRACTOR'S WRITTEN ONE (1) YEAR GUARANTEE. WARRANTY SHALL INCLUDE LABOR NECESSARY TO REPLACE DEFECTIVE PARTS DURING THE WARRANTY PERIOD.

PART 2 - PRODUCTS

2.0 MATERIALS

A. NEW, FREE FROM DEFECTS AND OF COMMERCIAL GRADE STANDARD MANUFACTURING BY REPUTABLE MANUFACTURERS.

B. ALL ELECTRICAL EQUIPMENT SHALL HAVE IDENTIFICATION TAGS. INSTALL NAMEPLATES ON ELECTRICAL DEVICES. TEXT SHALL INDICATE THE COMPONENT AS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.

C. PROVIDE TYPE WRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS AFTER FINAL INSTALLATION IS COMPLETE, IDENTIFYING THE BRANCH CIRCUITS AND AREAS SERVED.

D. ALL SIMILAR MATERIALS SHALL BE BY THE SAME MANUFACTURER.

2.1 SUBSTITUTIONS

A. PROJECT TO BE BID PER CONTACT DOCUMENTS EXCLUDING ANY SUBSTITUTIONS AND SUBSTITUTION REQUESTS TO BE PROVIDED PER DIVISION 1 REQUIREMENTS.

B. REQUESTS IMPLY NO OBLIGATION ON THE OWNER.

C. APPROVED SUBSTITUTIONS THAT REQUIRE CHANGES, INCLUDING WORK IN OTHER DIVISIONS, SHALL HAVE NO ADDITIONAL COSTS TO THE OWNER.

D. SUBSTITUTIONS DURING ANY VALUE ENGINEERING WILL PROVIDE CREDIT TO THE OWNER FROM THE ORIGINAL CONSTRUCTION BID.

PART 3 - EXECUTION

3.0 INSPECTION

A. ANY MATERIALS DAMAGED UPON RECEIPT SHALL BE REPLACED. ANY MATERIALS DAMAGED WHILE ON SITE SHALL BE REPLACED AT NO COST TO OWNER.

B. BEFORE STARTING WORK, REPORT ANY STRUCTURAL DEFECTS THAT WILL ADVERSELY AFFECT THE QUALITY AND EXECUTION OF WORK TO OWNER'S REPRESENTATIVE.

C. ANY OBSERVED ITEMS IN THE BUILDING AND SITE THAT MIGHT POSE A SAFETY HAZARD TO THE OWNER, CONTRACTOR, BUILDING USERS OR MAINTENANCE PERSONNEL THAT WILL BE INVOLVED WITH THE UPKEEP OF THE BUILDING'S ELECTRICAL AND MECHANICAL SYSTEMS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.

3.1 INSTALLATION

A. CLEAN AND MODIFY ALL SURFACES AND STRUCTURES FOR WHICH MATERIALS ARE TO BE INSTALLED FOR A PROPER AND SECURE INSTALLATION.

B. CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC AND CONTRACTOR IS TO FIELD VERIFY ALL ROUTING, LOCATIONS AND CONFLICTS WITH OTHER TRADES AT NO COST TO OWNER. ENGINEER DOES NOT VERIFY QUANTITY OF MATERIALS NEEDED FOR A COMPLETE INSTALLATION.

C. INSTALL ALL MATERIALS PER THE GOVERNING CODES.

D. EXTERIOR TRENCHING TO FOLLOW DIVISION 2 SITE WORK FOR EXCAVATION AND BACKFILL.

E. WHERE CUTTING AND PATCHING IS REQUIRED, RESTORE DISTURBED WORK TO MATCH ADJACENT FINISHES. WHERE WORK INVOLVES STRUCTURAL MEMBERS OR WALLS, CONSULT OWNER'S REPRESENTATIVE IN WRITING FOR STRUCTURAL ENGINEER TO VERIFY ACCEPTANCE.

F. PAINTING TO BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS. MARRED EQUIPMENT SHALL BE FINISHED WITH TOUGH-UP PAINT FOR EQUIPMENT TO LOOK NEW AND FREE OF DAMAGE.

G. PROVIDE FIRE RATED SLEEVES WHERE PENETRATING FIRE RATED WALLS WITH RATED ASSEMBLIES OR RACEWAY WITH FIRE SEALING.

H. EXTERIOR WALL PENETRATIONS TO BE WATER TIGHT. PROVIDE FLASHINGS, SEALANTS AND CAULKS TO PREVENT WATER INTRUSION.

I. MAINTAIN RECORD 'AS-BUILT' DRAWINGS THROUGHOUT THE CONSTRUCTION PROCESS.

26100 ELECTRICAL

PART 1 - GENERAL

1.0 INSPECTION

A. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS. MINIMUM MATERIAL AND EQUIPMENT SPECIFICATIONS PROVIDED IN THIS SECTION.

PART 2 - PRODUCTS

2.0 MATERIALS

A. PRODUCTS FROM MANUFACTURERS SHALL BE UL LABELED AND LISTED FOR THE APPLICATION USED.

2.1 CONDUCTORS AND CABLES

A. COPPER BUILDING WIRE: FLEXIBLE, INSULATED AND UNINSULATED, DRAWN COPPER CURRENT-CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH, RATED 600V OR LESS. COMPLY WITH UL 83.

1. FEEDERS: TYPE XHHW, THHN/THWN, 600V, COPPER, 75°C RATING.
2. BRANCH CIRCUITS: TYPE THHN/THWN, 600V, COPPER, 75°C RATING. ALL BRANCH CIRCUITS TO HAVE A DEDICATED NEUTRAL. NO COMMON NEUTRAL WITH TANDEM BREAKERS ALLOWED.
3. MINIMUM WIRE SIZE SHALL BE #12 AWG.
4. CONDUCTORS TO BE SOFT DRAWN, ANNEALED COPPER WITH A CONDUCTIVITY OF NOT LESS THAN 98% PURE COPPER AND UL LISTED.
5. CONDUCTORS #10 AWG AND SMALLER TO BE SOLID.
6. CONDUCTORS #8 AWG AND LARGER TO BE STRANDED.
7. 480Y/277V SYSTEMS:
   a. PHASE A - BROWN
   b. PHASE B - ORANGE
   c. PHASE C - YELLOW
   d. NEUTRAL - GRAY
   e. GROUND - GREEN WITH YELLOW STRIPE
8. 208Y/120V SYSTEMS:
   a. PHASE A - BLACK
   b. PHASE B - RED
   c. PHASE C - BLUE
   d. NEUTRAL - WHITE
   e. GROUND - GREEN

B. WIRING CONNECTORS:

1. TWIST-ON CONNECTORS TO BE SPRING INSULATED TYPE.
2. COMPRESSION CONNECTORS TO BE LONG BARREL TYPE FOR CABLE FOR 600V WIRING FOR 250 KCMIL AND LARGER.
3. INSULATED SPLIT BOLTS FOR FOR 600V WIRING SMALLER THAN 250 KCMIL.

2.2 GROUNDING AND BONDING

A. SYSTEM

1. GROUND UP BUILDINGS - COMPLETE GROUNDING ELECTRODE SYSTEM CONFORMING WITH ALL REQUIREMENTS OF NEC 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT AT THE BUILDING SHALL BE BONDED TOGETHER. PROVIDE ISOLATED BUS BAR IN MAIN ELECTRICAL ROOM AND TELECOM ROOMS. RESISTANCE TO EARTH TO BE 5 OHMS OR LESS. ADD GROUNDING ELECTRODE SYSTEMS AS NECESSARY TO REACH RESISTANCE LEVELS
   a. METAL UNDERGROUND WATER PIPE.
   b. METAL FRAME OF BUILDING OR STRUCTURE.
   c. CONCRETE-ENCASED ELECTRODE (UFER).
   d. GROUND RING (WHERE APPLICABLE).
   e. GROUND RODS.
   f. PLATE ELECTRODE.
   g. OTHER LISTED SYSTEMS.
2. FOR EXISTING BUILDING - TEST EXISTING RESISTANCE TO EARTH OF THE EXISTING GROUNDING ELECTRODE SYSTEM. PROVIDE ADDITIONAL GROUNDING ELECTRODES AS NECESSARY TO REACH A MINIMUM RESISTANCE TO EARTH OF 5 OHMS. PROVIDE GROUNDING BUS BARS IN ELECTRICAL ROOMS AND TELECOM ROOMS CONNECTED TO THE EXISTING GROUNDING ELECTRODE SYSTEM.

B. MATERIALS

1. SEE SINGLE LINE POWER DIAGRAM FORM GROUNDING CONDUCTOR SIZE. MINIMUM TO BE #2/0 AWG BARE COPPER 30" BELOW GRADE. ABOVE GROUND TO BE GREEN-COLORED INSULATION WITH CONTINUOUS YELLOW STRIP.
2. GROUND BUS - HORIZONTALLY ON INSULATED SPACERS 2" FROM WALL AND 6" AFF. PREDRILLED RECTANGULAR BARS ON ANNEALED COPPER, 1/4" X 4" IN CROSS SECTION AND LENGTH AS NEEDED. CONNECTORS TO BE MECHANICAL, CAST SILICON BRONZE, SOLDERLESS COMPRESSION-TYPE, LONG-BARREL WITH TWO-BOLT CONNECTION TO BUS BAR.
3. TERMINATIONS:
   a. PIPE AND EQUIPMENT - BOLTED CONNECTORS.
   b. UNDERGROUND CONNECTIONS - EXOTHERMIC WELD.
   c. STRUCTURAL STEEL - WELDED CONNECTORS.

2.3 RACEWAYS AND BOXES

A. CONDUIT

1. ELECTRICAL METALLIC TUBING (EMT): ZINC COATED GALVANIZED THIN-WALL STEEL TUBING. ANSI C80.3 AND UL 797.
2. RIGID METAL CONDUIT (RMC): HEAVY WALL, ZINC COATED GALVANIZED STEEL. ANSI C80.1 AND UL 65.
3. INTERMEDIATE METAL CONDUIT (IMC): HIT-DIPPED GALVANIZED STEEL WITH A COUPLING AND END THREAD PROTECTOR FOR EACH SECTION. ANSI C80.6 AND UL 1242 WITH AN INTERIOR COATING OF SILICON EPOXY ESTER LUBRICANT.
4. FLEXIBLE METAL CONDUIT (FMC): HOT-DIPPED GALVANIZED STEEL STRIP CORE WITH INTEGRAL COPPER GROUND WIRE AND UL 1.
5. LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC): HOT-DIPPED GALVANIZED STEEL STRIP CORE WITH EXTRUDED POLYVINYL JACKET, SUN-LIGHT-RESISTANT AND NON-WRINKLING WITH INTEGRAL COPPER GROUND WIRE AND UL 360 AND SUITABLE FOR 90°C CONDUCTORS.
6. RIGID NONMETALLIC CONDUIT (RNC): SCHEDULE 40 POLYVINYLCHLORIDE (PVC), NEMA TC 2 AND UL 651. PROVIDE SCHEDULE 80 WHERE NOTED. SWITCH TO IMC OR RMC WHERE CONDUIT TURNS UP INTO BUILDING.
7. MINIMUM RACEWAY SIZE TO BE 3/4"C.

B. CONDUIT FITTINGS

1. RIGID CONDUIT TO HAVE THREADED FITTINGS.
2. EMT TO HAVE COMPRESSION TYPE FITTINGS.
3. METAL FITTINGS TO COMPLY WITH NEMA FB 1 AND UL 514B.
4. NONMETALLIC FITTINGS TO COMPLY WITH NEMA TC 3. MATCH TO CONDUIT OR TUBING TYPE AND MATERIAL.

C. WIREWAYS

1. SHEET METAL COMPLYING WITH UL 870 AND NEMA 250. PROVIDE NEMA 1, 3R, OR 4 AS NOTED. SIZED AS NOTED, BUT MUST MEET MINIMUM FILL AND BENDING RADIUSES PER NEC WITH HINGED TYPE COVERS.

D. BOXES, ENCLOSURES AND CABINETS

1. RATED FOR ENVIRONMENT.
2. SHEET METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA 0S 1 AND UL 514A
3. CAST-METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA FB1, ALUMINUM, TYPE FD, WITH GASKETED COVER.
4. FLOOR BOXES EQUAL TO WIREMOLD EVOLUTION SERIES FOR POKE-THRU AND IN GRADE TYPES. MINIMUM OF TWO DUPLEX OUTLETS AND DATA OUTLETS WHERE SHOWN.
5. ALL CEILING LUMINAIRE AND FAN OUTLET BOXES TO BE NONADJUSTABLE. LUMINAIRE BOXES RATED TO 50 LB AND LUMINAIRES WEIGHING MORE THAN 50 LB SHALL BE LISTED AND MARKED FOR THE MAXIMUM ALLOWABLE WEIGHT. PADDLE FAN OUTLET BOXES MIMINUM 70 LB RATING.
6. CABINETS TO BE NEMA 250. PROVIDE NEMA 1, 3R, OR 4 AS NOTED. GALVANIZED-STEEL BOX WITH REMOVABLE INTERIOR PANEL AND REMOVABLE FRONT. HINGED DOOR IN FRONT COVERT WITH FLUSH LATCH AND CONCEALED HINGE. KEYED TO MATCH PANELBOARDS.
7. JUNCTION AND PULL BOXES: CODE GAUGE GALVANIZED STEEL WITH GALVANIZED STEEL COVERS. PULL BOXES INSTALLED ON THE EXTERIOR OR IN WET LOCATIONS SHALL BE WEATHERPROOF IN ACCORDANCE WITH NEMA 250.
8. LOCKNUTS TO BE ZINC-PLATED OR CADMIUM PLATED MALLEABLE IRON.

2.4 WIRING DEVICES AND OUTLETS

A. SPECIFICATION GRADE.

B. SWITCHES: 20A, 120-277V RATING.

C. RECEPTACLES: 20A, 125V, 3-WIRE, DUPLEX GROUNDING. PROVIDE GFCI, AFCI, AND TAMPER PROOF RECEPTACLES WHERE REQUIRED BY NEC. GFCI RATED RECEPTACLES REQUIRED IN KITCHENS, BARS, RESTROOMS, EXTERIOR, AS WELL AS OTHER AREAS. TAMPER-PROOF RECEPTACLES ARE NOW REQUIRED IN COMMON AREAS.

D. COVER PLATES: STAINLESS STEEL IN KITCHENS, CAST ALUMINUM IN EXTERIOR LOCATIONS AND SMOOTH, HIGH-IMPACT THERMOPLASTIC IN INTERIOR SPACES UNLESS OTHERWISE NOTED.
1. ALL STAINLESS STEEL COVER PLATES TO BE ETCHED WITH CIRCUIT IDENTIFICATIONS. THERMOPLASTIC PLATES TO BE PROVIDED WITH IDENTIFICATION STICKERS.

E. OUTLET BOX CONNECTIONS:
1. BUSHINGS: HIGH IMPACT, THERMOSETTING PHENOLIC INSTULATED, RATED AT 150°C.
2. THREADED NIPPLES: CONDUIT NIPPLES WITH TWO SETS OF THREADS.
3. PLASTIC ELECTRICAL TAPE RATED AT 600V; 3M #35+ OR EQUAL.

2.5 PANELBOARDS

1. DISTRIBUTION PANELBOARDS:
   a. BASIS OF DESIGN TO BE SQUARE D 'I-LINE' SERIES. ALL PANELBOARDS TO BE OF THE SAME MANUFACTURER.
   b. NEMA RATING AS SHOWN ON PANEL SCHEDULES.
   c. THREE PHASE, 4 WIRE, SOLID NEUTRAL DESIGN WITH SEQUENCE BUSSING, FULL CAPACITY NEUTRAL AND SEPARATE GROUND BUS.
   d. MAIN CIRCUIT BREAKER (MCB) OR MAIN LUGS ONLY (MLO) AS NOTED ON PANEL SCHEDULES.
   e. PROVIDE TYPEWRITTEN PANEL SCHEDULE IN INSIDE OF DOOR.
   f. CABINET TO HAVE DOOR IN DOOR STYLE FRONT COVER.
   g. COPPER BUSSING, FULLY RATED TO A.I.C. RATING SHOWN ON PANEL SCHEDULE. MINIMUM OF 22 KAIC.
   h. CIRCUIT BREAKER TO BE BOLT-ON TYPE. QUICK-MAKE, QUICK BREAK WITH SEPARATE TRIP POSITION.
   i. NO 20A/1P TANDEM CIRCUIT BREAKERS ALLOWED. EACH CIRCUIT TO HAVE A DEDICATED NEUTRAL.
   j. PROVIDE PREPARED SPACES AND SPARES AS SHOWN ON PANEL SCHEDULES.
   k. PROVIDE 60A/3P CIRCUIT BREAKER FOR EXTERNAL SURGE PROTECTIVE DEVICE (SPD)
2. BRANCH PANELBOARDS:
   a. BASIS OF DESIGN TO BE SQUARE D 'NQ' AND 'NF' SERIES DEPENDING ON VOLTAGE. ALL PANELBOARDS TO BE OF THE SAME MANUFACTURER.
   b. NEMA RATING AS SHOWN ON PANEL SCHEDULES.
   c. THREE PHASE, 4 WIRE, SOLID NEUTRAL DESIGN WITH SEQUENCE BUSSING, FULL CAPACITY NEUTRAL AND SEPARATE GROUND BUS.
   d. MAIN CIRCUIT BREAKER (MCB) OR MAIN LUGS ONLY (MLO) AS NOTED ON PANEL SCHEDULES.
   e. PROVIDE TYPEWRITTEN PANEL SCHEDULE IN INSIDE OF DOOR.
   f. CABINET TO HAVE DOOR IN DOOR STYLE FRONT COVER.
   g. COPPER BUSSING, FULLY RATED TO A.I.C. RATING SHOWN ON PANEL SCHEDULE. MINIMUM OF 22 KAIC.
   h. CIRCUIT BREAKER TO BE BOLT-ON TYPE. QUICK-MAKE, QUICK BREAK WITH SEPARATE TRIP POSITION.
   i. NO 20A/1P TANDEM CIRCUIT BREAKERS ALLOWED. EACH CIRCUIT TO HAVE A DEDICATED NEUTRAL.
   j. ALL SPACES NOT DESIGNATED WITH A CIRCUIT AND LOAD TO BE PROVIDED WITH SPARE 20A/1P CIRCUIT BREAKERS.

2.6 SAFETY SWITCH / DISCONNECTS

A. DISCONNECTS TO BE OF THE SAME MANUFACTURER AS THE PANELBOARDS.

B. HEAVY DUTY RATED WITH QUICK-MAKE, QUICK-BREAK AND HORSEPOWER RATED.

C. FUSED AND NON-FUSED DISCONNECTS AS SHOWN ON DRAWINGS. FUSES TO BE RK-5.

2.7 LOW-VOLTAGE DRY-TYPE TRANSFORMERS

A. PRIMARY AND SECONDARY RATING OF 600V AND LESS, WITH CAPACITIES UP TO 300 kVA.

B. MANUFACTURER TO BE THE SAME AS THE PANELBOARDS.

C. QUALIFICATIONS:

1. LISTED AND LABELED AS DEFINED IN NFPA 70 BY QUALIFIED TESTING AGENCY AND MARKED FOR INTENDED LOCATION AND USE.
2. COMPLY WITH 10 CFR 431 (DOE 2016) EFFICIENCY LEVELS AND MARKED AS COMPLIANT BY AN NRTL.

D. MATERIALS

1. CORES: ELECTRICAL GRADE, NON-AGING SILICON STEEL WITH HIGH PERMEABILITY AND LOW HYSTERESIS LOSES.
   a. ONE LEG PER PHASE,
   b. CORE VOLUME SHALL ALLOW EFFICIENT TRANSFORMER OPERATION AT 10 PERCENT ABOVE THE NOMINAL TAP VOLTAGE.
   c. GROUNDED TO ENCLOSURE, SEE GROUNDING DETAIL FOR SEPARATELY DERIVED GROUNDING SYSTEM.
2. COILS: CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS.
   a. COIL MATERIAL: COPPER.
   b. INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE TYPE.
3. ENCLOSURE: VENTILATED. COMPLY WITH NEMA 250.
4. TAPS: TWO 2.5% TAPS ABOVE AND TWO 2.5% TAPS BELOW NORMAL FULL CAPACITY.
5. INSULATION CLASS: 220°C, UL-COMPONENT-RECOGNIZED INSTULATION SYSTEM WITH A MAXIMUM OF 150°C RISE ABOVE 40°C AMBIENT TEMPERATURE.
6. PROVIDE GROUND-BAR KIT OR A GROUND BAR INSTALLED ON THE INSIDE OF THE TRANSFORMER ENCLOSURE.
7. ELECTROSTATIC SHIELDING: EACH WINDING SHALL HAVE AN INDEPENDENT, SINGLE, FULL-WIDTH COPPER ELECTROSTATIC SHIELD ARRANGED TO MINIMIZE INTERWINDING CAPACITY.
8. LOW-SOUND-LEVEL REQUIREMENTS: MAXIMUM SOUND LEVELS WHEN FACTORY TESTED ACCORDING TO IEEE C57.12.91.
9. PROVIDE ENGRAVED, LAMINATED-ACRYLIC OR MELAMINE PLASTIC SIGNS FOR EACH PIECE OF EQUIPMENT, MOUNTED WITH CORROSION-RESISTANT SCREWS.

2.8 LOW-VOLTAGE EXTERNAL SURGE PROTECTIVE DEVICES

A. TYPE 1 SURGE PROTECTIVE DEVICES (SPD):

1. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS COMPLYING WITH UL 1449, TYPE 1.
2. OPTIONS TO INCLUDE:
   a. INTEGRAL DISCONNECT SWITCH.
   b. INTERNAL THERMAL PROTECTION THAT DISCONNECTS THE SPD BEFORE DAMAGING INTERNAL SUPPRESSOR COMPONENTS.
   c. LED INDICATOR LIGHTING DISPLAY FOR PROTECTION STATUS.
   d. AUDIBLE ALARM.
   e. NEMA ICS 5, DRY FORM C CONTACTS RATED AT 2A AND 24V AC FOR REMOTE MONITORING OF PROTECTION STATUS.
   f. SURGE COUNTER.
3. PERFORMANCE CRITERIA:
   a. MCOV: NOT LESS THAN 125% OF NOMINAL SYSTEM VOLTAGE FOR 208Y/120V, AND NOT LESS THAN 115% OF NOMINAL SYSTEM VOLTAGE FOR 480Y/277V.
   b. PEAK SURGE CURRENT RATING: MINIMUM SINGLE-PULSE SURGE CURRENT WITHSTAND RATING PER PHASE MUST NOT BE LESS THAN 200 kA. PEAK SURGE CURRENT RATING MUST BE ARITHMETIC SUM OF THE RATINGS OF INDIVIDUAL MOVs IN A GIVEN MODE.
   c. PROTECTION MODES AND UL 1449 VPR FOR GROUNDED WYE CIRCUITS WITH480Y/277V OR 208Y/120V, THREE-PHASE, FOUR-WIRE CIRCUITS MUST NOT EXCEED THE FOLLOWING: LINE TO NEUTRAL: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V. LINE TO LINE: 2000V FOR 480Y/277V AND 1200V FOR 208Y/120V.
4. SCCR: NOT LESS THAN 200 kA.
5. INOMINAL RATING: 20 kA.

B. TYPE 2 SURGE PROTECTIVE DEVICES (SPDs)

1. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS COMPLYING WITH UL 1449, TYPE 2. COMPLY WITH UL 1283.
2. OPTIONS TO INCLUDE:
   a. LED INDICATOR LIGHTING DISPLAY FOR PROTECTION STATUS.
   b. INTERNAL THERMAL PROTECTION THAT DISCONNECTS THE SPD BEFORE DAMAGING INTERNAL SUPPRESSOR COMPONENTS.
   c. NEMA ICS 5, DRY FORM C CONTACTS RATED AT 2A AND 24V AC FOR REMOTE MONITORING OF PROTECTION STATUS.
   d. SURGE COUNTER.
3. PERFORMANCE CRITERIA:
   a. MCOV: NOT LESS THAN 125% OF NOMINAL SYSTEM VOLTAGE FOR 208Y/120V, AND NOT LESS THAN 115% OF NOMINAL SYSTEM VOLTAGE FOR 480Y/277V.
   b. PEAK SURGE CURRENT RATING: MINIMUM SINGLE-PULSE SURGE CURRENT WITHSTAND RATING PER PHASE MUST NOT BE LESS THAN 100 kA. PEAK SURGE CURRENT RATING MUST BE ARITHMETIC SUM OF THE RATINGS OF INDIVIDUAL MOVs IN A GIVEN MODE.
   c. PROTECTION MODES AND UL 1449 VPR FOR GROUNDED WYE CIRCUITS WITH480Y/277V OR 208Y/120V, THREE-PHASE, FOUR-WIRE CIRCUITS MUST NOT EXCEED THE FOLLOWING: LINE TO NEUTRAL: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V. LINE TO GROUND: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V. NEUTRAL TO GROUND: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V. LINE TO LINE: 2000V FOR 480Y/277V AND 1200V FOR 208Y/120V.
4. SCCR: EQUAL OR EXCEED 100 kA.
5. INOMINAL RATING: 20 kA.

PART 3 - EXECUTION

3.1 WIRING

A. DO NOT PULL CONDUCTORS UNTIL THE RACEWAY SYSTEM HAS BEEN COMPLETELY INSTALLED. INSTALL CONDUCTORS AT ONE TIME. USING ONLY LUBRICANTS APPROVED FOR THIS PURPOSE. FOR WIRE SIZES #12 THROUGH #10, PRE-INSULATED, TWIST-ON CONNECTORS MAY BE USED TO SPLICE WIRE. USE COMPRESSION CONNECTORS FOR SPLICES OF STRANDED CONDUCTORS. USE RING-TONGUE TYPE CONNECTORS FOR CONTROL WIRING.

B. ALL WIRING SHALL BE COLOR CODED IN ACCORDANCE WITH THE NEC. SPLICES SHALL OCCUR ONLY WITHIN OUTLET BOXES. ENDS OF POWER WIRING SHALL BE MARKED WITH A 1 INCH BAND OF COLOR CODED TAPE. INSTALL A GREEN GROUNDING CONDUCTOR FOR ALL SYSTEMS.

C. PHASING SHALL BE MAINTAINED CONSISTENT THROUGHOUT THE DISTRIBUTION SYSTEM.

D. WIRING CONNECTIONS MADE WITHOUT TWIST-ON CONNECTORS SHALL BE WRAPPED WITH THREE LAYERS OF PLASTIC TAPE. EACH LAP SHALL EXTEND OVER THE PREVIOUS LAYER BY 1/2 THE TAPE DIMENSION.

E. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL MATCH THE EXISTING SYSTEM. PHASING OF THE SYSTEM THROUGHOUT THE DISTRIBUTION SYSTEM SHALL BE A/B/C IN A CLOCKWISE ROTATION. SAFETY SWITCHES AND POWER RECEPTACLES SHALL HAVE THE SAME PHASE ARRANGEMENT THROUGHOUT THE SYSTEM.

3.2 WIRING DEVICE BOXES

A. PROVIDE AN OUTLET BOX FOR EACH WIRING DEVICE AND LIGHT FIXTURE AND AS REQUIRED BY THE NEC. DEVICE BOXES SHALL BE LOCATED AS INDICATED ON THE DRAWINGS. LOCATIONS ARE APPROXIMATE ONLY AND SHALL BE LOCATED IN THE FIELD TO CONFORM TO FIELD CONDITIONS. IN CASE OF CONFLICTS OR UNUSUAL CONDITIONS, NOTIFY OWNER FOR INSTRUCTIONS. BOXES SHALL BE SECURED FIRMLY IN POSITION USING PROPER ANCHORING DEVICES.

B. WHERE MULTIPLE SWITCHES OR RECEPTACLES ARE NOTED IN A COMMON LOCATION, PROVIDE MULTIPLE GANG BOXES. BOXES SHALL BE MOUNTED TRUE AND LEVEL.

3.3 WIRING DEVICES

A. SWITCHES SHALL BE QUIET TYPE, RATED 20 AMPERES, 120 VOLTS AC ONLY. SWITCHES SHALL BE FLUSH TYPE AND BE CAPABLE OF BACK AND SIDE WIRING. THE BRIDGE MOUNTING STRAP SHALL BE OF ONE-PIECE CONSTRUCTION WITH ASSURED GROUNDING MEANS IN ACCORDANCE WITH NEC ARTICLE 250-74, EXCEPTION NO. 2 LIGHT SWITCHES SHALL BE AS MANUFACTURED BY HUBBELL, ARROW HART, IDEAL, OR PASS & SEYMOUR.

B. DUPLEX RECEPTACLES SHALL BE SPECIFICATIONS GRADE, GROUNDING TYPE, 20 AMP, 125 VOLT WITH BRASS TERMINAL SCREWS, COLOR CODED AND EQUAL TO HUBBELL 5362.

3.4 JUNCTION AND PULL BOXES

A. UNLESS NOTED, PROVIDE JUNCTION AND PULL BOXES IN ACCORDANCE WITH THE NEC REQUIREMENTS, OR WHERE NEEDED BY JOB CONDITIONS. PROVIDE SEPARATE BOXES FOR ELECTRICAL POWER AND CONTROL OR COMMUNICATIONS CIRCUITS.

3.5 CONDUIT

A. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE NEC FOR NUMBER AND SIZE OF WIRES INSTALLED. MINIMUM CONDUIT SIZE SHALL BE 3/4".

B. CONDUITS SHALL BE RUN PARALLEL TO THE LINES OF THE BUILDING AT ELEVATIONS IN TRUSS. CONDUIT LOCATIONS SHALL BE COORDINATED AND INSTALLED IN A MANNER TO AVOID CONFLICTS WITH OTHER TRADES. CONDUIT SHALL BE SECURELY ANCHORED OR SUPPORTED FROM THE STRUCTURE IN A MANNER TO PREVENT DISPLACEMENT. WHERE EVER POSSIBLE INSTALL RUNS OF CONDUIT IN PARALLEL LINES, SUPPORTED FROM COMMON TRAPEZE HANGERS.

C. INSTALLATION OF CONDUIT SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS AND ACCEPT

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PANEL 'A'

DESIGNATION	REMARKS	POLES & AMPS	LOAD (VA) LIGHTING	LOAD (VA) RECEPT.	LOAD (VA) OTHER	OTHER TYPE	C K	P H	C K	LOAD (VA) LIGHTING	LOAD (VA) RECEPT.	LOAD (VA) OTHER	OTHER TYPE	POLES & AMPS	REMARKS	DESIGNATION
AHU-1	1	15A/2P			1352	H	1	A	2			1920	K	30A/2P	2	3 - HIGH SPEED OVEN
					1352	H	3	B	4			1920	K			
CU-1	4	35A/1P			7176	H	5	A	6			1920	K	30A/2P	2	3 - HIGH SPEED OVEN
					7176	H	7	B	8			1920	K			
WATER HEATER	4	50A/2P			4000	W	9	A	10				K	30A/2P	2	FUTURE E3 - HIGH SPEED OVEN
					4000	W	11	B	12				K			
2 - ICE CUBE MACHINE W/ BIN	1,6	20A/2P			1600	K	13	A	14			3600	K	30A/2P	2	9 - ESPRESSO MACHINE
					1600	K	15	B	16			3600	K			
DUCT DETECTOR	1	20A/1P		360			17	A	18			3600	K	30A/2P	2	9 - ESPRESSO MACHINE
25 - WATER FILTRATION	1	20A/1P			240	K	19	B	20			3600	K			
13 - REFRIGERATOR	1	20A/1P			650	K	21	A	22			3600	K	30A/2P	2	9 - ESPRESSO MACHINE
13 - REFRIGERATOR	1	20A/1P			650	K	23	B	24			3600	K			
13 - REFRIGERATOR	1	20A/1P			650	K	25	A	26			2850	K	40A/2P	4	6 - COFFEE BREWER
14B - FREEZER	1	20A/1P			1160	K	27	B	28			2850	K			
14B - FREEZER	1	20A/1P			1160	K	29	A	30			1320	K	20A/1P	1	5 - COFFEE GRINDER
14B - FREEZER	1	20A/1P			1160	K	31	B	32			1320	K	20A/1P	1	5 - COFFEE GRINDER
14B - FREEZER	1	20A/1P			1160	K	33	A	34			1560	K	20A/1P	1	1 - SMOOTHIE BLENDER
DATA RACK	1	20A/1P		360			35	B	36			1560	K	20A/1P	1	1 - SMOOTHIE BLENDER
SECURITY	1	20A/1P		1080			37	A	38			280	K	20A/1P	1	4E WORKTOP REFRIGERATOR
8,8A - POS SYSTEM	1	20A/1P	600				39	B	40			600	K	20A/1P	1	4A - U/C REFRIGERATOR (48")
26 - ZOOMTIMER	1	20A/1P			300	M	41	A	42			792	K	20A/1P	1	4B- U/C REFRIGERATOR (60")
30 - DRIVE THRU TIME	1	20A/1P		960			43	B	44			792	K	20A/1P	1	4B- U/C REFRIGERATOR (60")
30 - DRIVE THRU TIME	1	20A/1P		960			45	A	46		540			20A/1P	1	FRONT COUNTER RECEPTACLE
SIGNAGE	1	20A/1P		1200			47	B	48		360			20A/1P	1	PANEL CONV. RECEPTACLE
SIGNAGE	1	20A/1P		1200			49	A	50		360			20A/1P	1	ISLAND CONV. RECEPTACLE
SIGNAGE	1	20A/1P		1200			51	B	52		180			20A/1P	1	COMPUTER RECEPTACLE
SIGNAGE	1	20A/1P		1200			53	A	54		360			20A/1P	1	RR RECEPT & RECIRC PP
SIGNAGE	1	20A/1P		1200			55	B	56		360			20A/1P	1	EXTERIOR RECEPTACLE
DRIVE THRU MENU BOARD	1	20A/1P	400				57	A	58		180			20A/1P	1	ROOFTOP RECEPTACLE
AHU-1 HEAT KIT (NORTHERN LOC.)	2	30A/2P			2250	M	59	B	60	429				20A/1P	1	EF-1, LIGHTING
					2250	M	61	A	62	240				20A/1P	1	LED STRIP & WINDOW LIGHTING
SPD (TVSS)	5	30A/2P			0		63	B	64	835				20A/1P	1	LIGHT POLE FLAG & SITE LIGHTING
					0		65	A	66					20A/1P		SPARE
			1000	9720	39886					1504	2340	43204				

CATEGORY		CONN. LOAD VA	CONN. LOAD AMPS	DESIGN LOAD DIV.	DESIGN LOAD VA	DESIGN LOAD AMPS
LIGHTING:		2504	10	1	2504	10
RECEPTACLE:		12060	50	NOTE 2	11030	46
OTHER-MOTORS	(M):	4800	20	1	4800	20
OTHER-KITCHEN EQUIP	(K):	50754	211	1	32990	137
OTHER-ELECTRIC HEATING	(H):	17056	71	1	17056	71
OTHER-WATER HEATING	(W):	8000	33	1	8000	33
OTHER - MISCELLANEOUS	(X)	0	0	1	0	0
OTHER - SUB PANELS	(S)	0	0	1	0	0
TOTAL:		95174	397		76380	318

MOUNTING:	RECESSED	
VOLTS:	120/240	WYE
PHASE / WIRE:	1/3	
MAINS SIZE:	400 AMPS	
MAINS TYPE:	MLO	
BUSS TYPE:	COPPER	
BRKR TYPE:	BOLT-ON	
A.I.C. (RMS):	22K	
A Phase	48620	Connected kVA
B Phase	49034	Connected KVA

REMARKS:
FEEDER:
1= 2#12, 1#12G, 3/4"C
2= 2#10, 1#10G, 3/4"C
3= 3#4, 1#6G, 1"C
4= 2#8, 1#10G,3/4"C
5= 2#10, 1#10 Neutral, #10G
6= COORDINATE WITH EQ PURCHASED OPTIONAL UNITS 15A/2P, AND 20A/1P
FEEDERS: REFER TO FEEDER SCHEDULE ON THIS PAGE

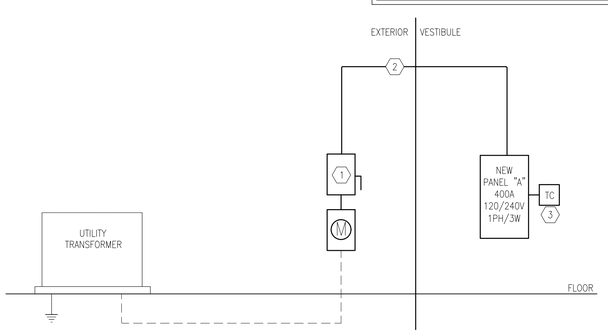
3 PANEL SCHEDULE
SCALE: NOT TO SCALE

LINETYPE LEGEND:

- EXISTING EQUIPMENT/FEEDER TO REMAIN
- NEW FEEDER

NOTES BY SYMBOL: (#)

1. PROVIDE AND INSTALL NEW 400A SERVICE ENTRANCE MAIN DISCONNECT. MOUNT DISCONNECT ABOVE FLOOD PLAN LEVEL
2. PROVIDE AND INSTALL 2 SETS OF (3) #3/0 (THWN), 1 #1/0 GND, IN 2"C
3. PROVIDE AND INSTALL NEW TIME CLOCK.



2 SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

HOMERUNS AND BRANCH WIRING FOR 20 AMPS CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOMERUN WIRE SIZE
1FT TO 50FT	N0.12 AWG	N0.12 AWG
51FT TO 75FT	N0.12 AWG	N0.10 AWG
76FT TO 120FT	N0.10 AWG	N0.8 AWG
121FT TO 190FT	N0.10 AWG	N0.6 AWG
191FT TO 300FT	N0.10 AWG	N0.4 AWG

Branch Circuit Fault from From Panel to Outlet — Copper in Metal Raceway — Single Phase

Single Phase Branch — 2 x L x I / N x C x E L-N

Length (distance) (ASC)	L	=	15	
	Isca	=	6,882	Phase
# conductors per phase	N	=	1	
Phase conductor constant	C	=	617	Phase Conductor 12
Volt Line to Line	E L - L	=	208	Volt
	f	=	1.609	
Neutral conductor constant	C	=	617	Neutral Conductor 12
Volt Line to Neutral	E L - N	=	120	Volt
	f	=	1.750	
Line to Line	M	=	0.383	
Line to Neutral	M	=	0.364	

4,319 Neutral

Multiplier: M = 1 / (1 + f)

Isca x M = fault current at terminal of the panel L- L = 2,638 amperes
Isca x M = fault current at terminal of the panel L- N = 1,571 amperes

Calculation does not include motor contribution

SCOOTER'S COFFEE
GHC Engineers, LLC
Available Fault Current Calculation

Utility Fault Current ____ amperes — kVA = 225; E = 208; trans. FLA = 1082

I = kVA x 1000 / E = trans. FLA

Isca = trans. FLA x 100 / transformer Z = 1082 / 3 %

Isca = ampere short-circuit current RMS symmetrical. Isca = 36,058 amperes

Point to Point Method — Single Phase 208/120

'f ' factor = 2 x L x I / N x C x E L-N

Length (distance) (ASC)	L	=	80	Copper in Nonmetallic Raceway
	Isca	=	36,058	
# conductors per phase	N	=	1	
Phase conductor constant	C	=	13,923	Phase Conductor 3/0
Volt Line to Line	E L - L	=	208	Volt
	f	=	0.498	
Neutral conductor constant	C	=	13,923	Neutral Conductor 3/0
Volt Line to Neutral	E L - N	=	120	Volt
	f	=	0.863	
Line to Line	M	=	0.668	
Line to Neutral	M	=	0.537	

Multiplier: M = 1 / (1 + f)

Fault Current at Service Equipment

Isca x M = fault current at terminals of main disconnect L- L = 24,070 amperes
Isca x M = fault current at terminals of main disconnect L- N = 19,352 amperes

Fault Current from From Service Entrance Disconnect to Panelboard — Copper in Metal Raceway — Single Phase

Single Phase Feeder — 2 x L x I / N x C x E L-N

Length (distance) (ASC)	L	=	50	
	Isca	=	24,070	Phase 19,352 Neutral
# conductors per phase	N	=	1	
Phase conductor constant	C	=	4,633	Phase Conductor 3
Volt Line to Line	E L - L	=	208	Volt
	f	=	2.498	
Neutral conductor constant	C	=	4,633	Neutral Conductor 3
Volt Line to Neutral	E L - N	=	120	Volt
	f	=	3.481	
Line to Line	M	=	0.286	
Line to Neutral	M	=	0.223	

Multiplier: M = 1 / (1 + f)

Isca x M = fault current at terminal of the panel L- L = 6,882 amperes
Isca x M = fault current at terminal of the panel L- N = 4,319 amperes

Calculation does not include motor contribution

ELECTRICAL GENERAL NOTES

1. THESE PLANS ARE SCHEMATIC. DRAWINGS HAVE BEEN CREATED FROM AS-BUILT DOCUMENTS BELONGING TO THE OWNER. THE CONTRACT DOCUMENTS CREATED BY THIS OFFICE ARE DIAGRAMMATIC AND SHOW THE INTENTION OF THIS FACILITY TO RENOVATE AND INSTALL NEW EQUIPMENT AND ASSOCIATED MATERIALS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO BID
2. ALL ELECTRICAL WORK IS REQUIRED TO BE PERFORMED BY A CERTIFIED ELECTRICAL CONTRACTOR. ALL WIRING, EQUIPMENT, DEVICES AND INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES.
3. PROVIDE ALL WIRING, CONDUIT, LABOR AND MATERIALS NOT SHOWN ON PLAN, BUT NECESSARY FOR COMPLETE AND PROPER OPERATION OF THE ELECTRICAL SYSTEM.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THIS JOB. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO ENSURE A COMPLETE WORKING SYSTEM.
5. ALL ELECTRICAL WORK MUST COMPLY WITH THE REQUIREMENTS OF NFPA 70 (NATIONAL ELECTRICAL CODE), NFPA 70B, NFPA 70E, IECC, OSHA IN ADDITION TO OTHER REFERENCES REQUIRED BY CONTRACT.
6. INSTALLATION OF SWITCHES, OUTLETS AND CONTROL DEVICES SHALL COMPLY WITH LOCAL CODES AND STATE ADA REQUIREMENTS.
7. REFER TO MECHANICAL AND PLUMBING SHEETS FOR EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO CONNECT ELECTRICAL POWER TO ALL MECHANICAL AND PLUMBING EQUIPMENT.
8. ALL ELECTRICAL EQUIPMENT, DEVICES AND CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUIT SYSTEM SHALL NOT BE USED AS GROUNDING NETWORK. ALL GROUNDING SHALL BE IN STRICT COMPLIANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
9. COORDINATE LOCATION AND VERIFY REQUIREMENTS OF ALL EXTERIOR UTILITY EQUIPMENT AND METER BASE WITH OWNER AND UTILITY COMPANY.
10. TRANSFORMER PAD, TRENCH REQUIREMENTS AND INTERMEDIATE BOX SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY. PROVIDE AND INSTALL ALL MATERIAL AND EQUIPMENT AS REQUIRED FOR COMPLETE JOB INSTALLATION.
11. ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES AND OTHER ELECTRICAL DEVICES AND EQUIPMENT SHALL HAVE ENGRAVED NAMEPLATES INDICATING EQUIPMENT IDENTIFICATION TAG AND VOLTAGE, AS WELL AS WHERE DEVICE IS FED FROM. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE TYPED DIRECTORIES INDICATING DISTRIBUTION AND BRANCH CIRCUIT FEEDERS.
12. CONTRACTOR IS RESPONSIBLE FOR NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES AROUND AND ABOVE ALL ELECTRICAL EQUIPMENT AND DEVICES.
13. SHORT CIRCUIT AMPERE INTERRUPTING CAPACITY (A.I.C.) RATING OF ALL ELECTRICAL PRODUCTS SHALL BE GREATER THAN THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT.
14. PROVIDE AT LEAST ONE SPARE CONDUIT (MINIMUM 2") FOR ALL RECESSED PANELS INTO THE SPACE ABOVE AND BELOW THE CEILING AND FLOOR FOR THE REMAINING CIRCUITS AVAILABLE IN THE PANEL.
15. DO NOT RUN RACEWAYS ON BUILDING EXTERIOR WALLS.
16. WIRE AND CONDUIT SIZES SHALL BE INSTALLED AND SIZED TO COMPENSATE FOR VOLTAGE DROP PER THE NATIONAL ELECTRICAL CODE.
17. FLEXIBLE CONDUIT MAY BE USED ONLY FOR FINAL CONNECTION TO EQUIPMENT (MAXIMUM LENGTH 6'-0").
18. ANY LOOSE FLEXIBLE CONDUIT TO BE STRAPPED DOWN IN A PROFESSIONAL MANNER.
19. ALL ELECTRICAL WIRING, VOICE/COMMUNICATION WIRING AND COAXIAL CABLES SHALL BE INSTALLED IN CONDUIT, WIRE WAY OR OTHER PROTECTIVE COVER AS REQUIRED TO COMPLY WITH GOVERNING CODE.
20. WALL RECEPTACLE CONDUIT SHALL RUN VERTICALLY TO JUNCTION BOX ABOVE CEILING AND NOT HORIZONTALLY THROUGH STUD WALLS, IN ORDER TO FACILITATE FUTURE ACCESS.
21. CONDUCTORS IN UNINSULATED CEILING SPACE AND OUTDOORS SHALL BE DERATED USING A 122 DEGREE (FAHRENHEIT) TEMPERATURE. CONTRACTOR IS RESPONSIBLE FOR REVISING CONDUCTOR SIZES BASED ON CONDUIT RATING.
22. ALL OUTDOOR EQUIPMENT SHALL BE WEATHER PROTECTED, NEMA 3R UNLESS OTHERWISE NOTED.
23. CONTRACTOR SHALL PROVIDE FIRE PROOFING FOR ANY PIPES OR CONDUITS THAT PENETRATE THROUGH ANY FIRE/SMOKE RATED FLOORS, WALLS, CEILINGS, ROOFS OR RUNS INSIDE OF CHASES. FIRE PROOFING METHODS AND MATERIALS SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATING OF PARTITION.
24. IF A PROTECTIVE DEVICE RATING IS MARKED ON AN APPLIANCE OR EQUIPMENT, THE BRANCH-CIRCUIT OVERCURRENT DEVICE RATING SHALL NOT EXCEED THE PROTECTIVE DEVICE RATING MARKED ON THE APPLIANCE OR EQUIPMENT.
25. ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS ARE UNSWITCHED UNLESS OTHERWISE NOTED OR SHOWN.
26. ALL SWITCHES SHALL BE 3" AWAY FROM DOOR TRIM. ALL OCCUPANCY SENSORS SHALL BE PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY TO SENSE OCCUPANCY.
27. PROVIDE 3/4" CONDUIT WITH 200LB TEST NYLON PULL WIRE FROM DATA/TELEPHONE OUTLET BOXES TO 6" ABOVE ACCESSIBLE CEILING.
28. ANY FIRE ALARM COMPONENTS SHOWN ON PLANS ARE FOR REFERENCE ONLY AND MAY BE MINIMAL. PROVIDE AND INSTALL ALL DEVICES AND MATERIALS NECESSARY FOR A COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY THE LOCAL CODES, NFPA AND REGULATIONS.
29. ALL MECHANICAL EQUIPMENT CONTROLS SHALL BE POWERED FROM UNIT.
30. CONTRACTOR SHALL PROVIDE AND INSTALL TWO EMPTY 4" CONDUITS WITH PULL STRING FROM UTILITY TRANSFORMER TO SERVICE ENTRANCE PANEL, IN ADDITION TO SERVICE ENTRANCE CONDUITS SPECIFIED ON PLANS.

ONE LINE GENERAL NOTES

A. SES COMPONENTS, INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN.

B. A 42K/10K SERIES RATED SYSTEM IS INTENDED, BASED ON WORST CASE AVAILABLE FAULT FROM THE SES SIZE.

C. PER NEC ARTICLE 240.86(A), PROVIDE IDENTIFICATION AT EACH DISCONNECT MEANS FEEDING DOWNSTREAM DEVICES APPLIED IN SERIES COMBINATION. PROVIDE NOTE INDICATING: "CAUTION - SERIES RATED DEVICES ARE FED FROM THE REMOTE MAIN----AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED." CONTRACTOR TO FILL IN BLANK WITH AVAILABLE FAULT CURRENT OBTAINED FROM UTILITY COMPANY, OR AS SHOWN ON THE FAULT CURRENT SCHEDULE.

D. PER NEC ARTICLE 110.22, PROVIDE IDENTIFICATION AT ENCLOSURE OF PANELBOARD WHERE BREAKERS ARE APPLIED IN SERIES COMBINATION, STATING: "CAUTION - SERIES COMBINATION SYSTEM RATED ----AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED. "CONTRACTOR TO FILL IN BLANK WITH AVAILABLE FAULT CURRENT FROM FAULT CURRENT SCHEDULE OR AS CALCULATED BY A QUALIFIED PERSON APPROVED BY THE AUTHORITY HAVING JURISDICTION USING ACTUAL AVAILABLE FAULT FROM UTILITY COMPANY.

E. PROVIDE ARC FLASH AND SHOCK HAZARD WARMING IDENTIFICATION PER NEC ARTICLE 110.16

F. "NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ENGINEER AND THE ELECTRICAL INSPECTOR."

G. THE FEEDER LENGTHS SHOWN IN THE INPUT DATA IS FOR CALCULATIONS ONLY. IT IS NOT THE INTENT TO USE THESE ENTERED LENGTHS FOR USAGE OF ACTUAL FIELD FEEDER LENGTH MEASUREMENTS

PANEL SCHEDULE GENERAL NOTES

A. A.I.C. RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW AND REPLACEMENT OVERCURRENT PROTECTIVE DEVICES.

B. ALL PANEL BOARD HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.

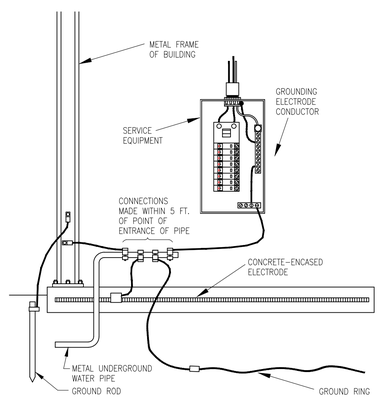
C. THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLES, EQUIPMENT, AND LIGHTING JUNCTION BOXES. (STICK ON LABELS NOT ACCEPTABLE)

D. PER NEC 210.4(B) ALL MULTIWIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.

SERIES RATING NOTES

A. THE SWITCHGEAR MANUFACTURER SHALL PROVIDE A UL LISTED SERIES-RATED DISTRIBUTION SYSTEM BASED ON THE SHORT-CIRCUIT INFORMATION CONTAINED WITHIN THIS SINGLE-LINE DIAGRAM. IN LIEU OF A LISTED SERIES-RATED DISTRIBUTION SYSTEM THE SWITCHGEAR MANUFACTURER MAY PROVIDE A FULLY RATED SYSTEM BASED ON THE AVAILABLE UTILITY FAULT CURRENT INDICATED ON THE SINGLE-LINE DIAGRAM.

B. THE SERIES-RATED SYSTEM SHALL BE AS NOTED ON SINGLE-LINE DIAGRAM. MOTOR CONTRIBUTION IS LESS THAN 1% ON ALL SERIES-RATED PANELS (U.N.O). NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE ELECTRICAL DESIGN CHANGES ENGINEER AND THE ELECTRICAL INSPECTOR. THE MANUFACTURER SHALL PROVIDE THE APPROPRIATE TAGS AND LABELS ON ALL SWITCHBOARDS AND PANELBOARDS AS REQUIRED PER N.E.C. ARCTICLES 110 AND 240, TO IDENTIFY THIS AS A SERIES-RATED system.



1 GROUNDING ELECTRODE SYSTEM DETAIL
SCALE: NOT TO SCALE

GH A
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
BRENT REID CLAUSE
08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
ELECTRICAL SPECIFICATIONS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
E1.02

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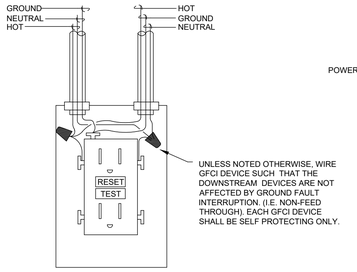
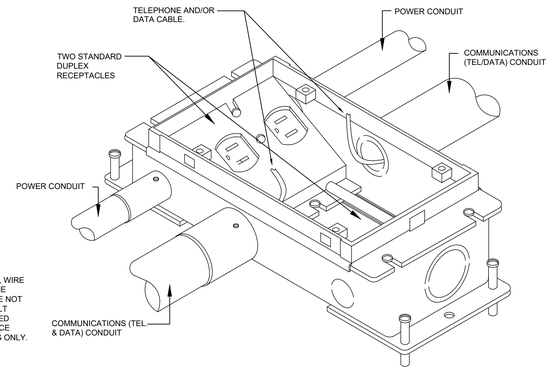
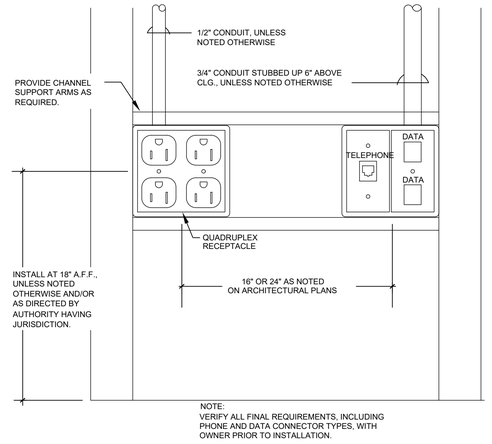


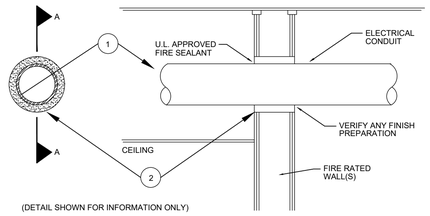
10 GFCI RECEPTACLE DETAIL
SCALE: N.T.S.



9 RECEPTACLE/TELE/DATA FLOOR BOX DETAIL
SCALE: N.T.S.



8 RECEPTACLE/TELE/DATA OUTLETS DETAIL
SCALE: N.T.S.



1. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

   A. STEEL PIPE - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.

   B. CONDUIT - NOM 4 IN. DIAM. (OR SMALLER) ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

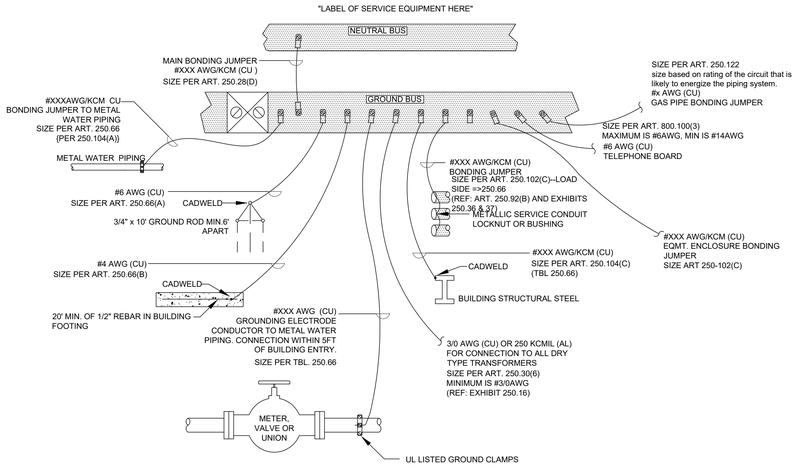
   C. COPPER TUBING - NOM 4 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

   D. COPPER PIPE - NOM 4 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

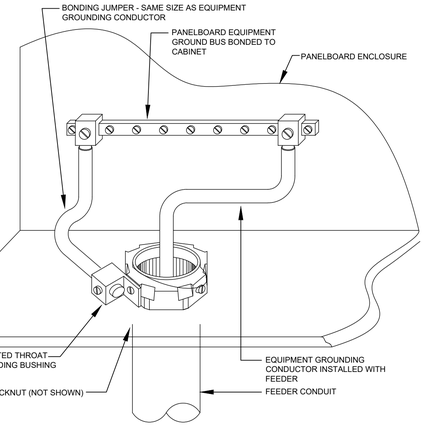
2. FILL, VOID OR CAVITY MATERIAL SHALL BE OF NO LESS QUALITY THAN HILTI CONSTRUCTION CHEMICALS, INC. #FS601 SEALANT BEARING THE U.L. CLASSIFICATION MARKING. SEALANT SHALL BE APPLIED A MINIMUM OF 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

7 PIPE PENETRATION OF FIRE RATED WALLS
SCALE: N.T.S.

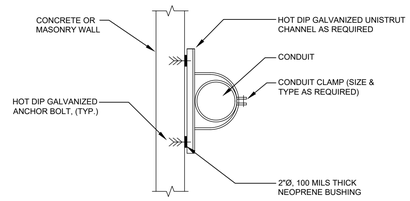
NOTE:
WHERE "#XXX AWG/KCM CU" IS DESIGNATED, USE TABLE 250.66 UNLESS NOTED OTHERWISE.



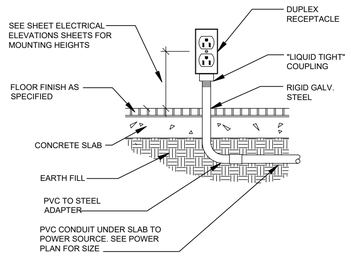
6 SERVICE GROUNDING/ BONDING DETAIL
SCALE: N.T.S.



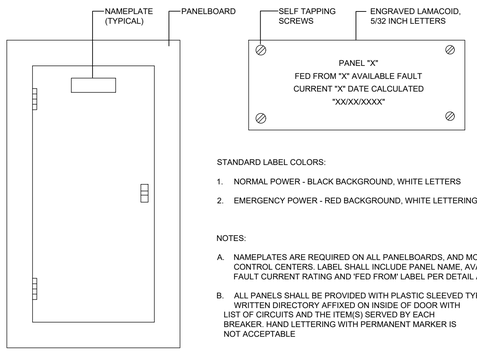
5 PANEL BOARD BONDING DETAIL
SCALE: N.T.S.



4 TYP CONDUIT SUPPORT DETAIL
SCALE: N.T.S.



3 TYP CONDUIT STUB–UP DETAIL
SCALE: N.T.S.



STANDARD LABEL COLORS:

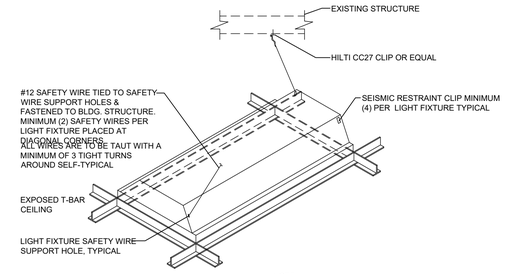
1. NORMAL POWER - BLACK BACKGROUND, WHITE LETTERS
2. EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING

NOTES:

A. NAMEPLATES ARE REQUIRED ON ALL PANELBOARDS, AND MOTOR CONTROL CENTERS. LABEL SHALL INCLUDE PANEL NAME, AVAILABLE FAULT CURRENT RATING AND 'FED FROM' LABEL PER DETAIL ABOVE.

B. ALL PANELS SHALL BE PROVIDED WITH PLASTIC SLEEVED TYPE WRITTEN DIRECTORY AFFIXED ON INSIDE OF DOOR WITH LIST OF CIRCUITS AND THE ITEM(S) SERVED BY EACH BREAKER. HAND LETTERING WITH PERMANENT MARKER IS NOT ACCEPTABLE

2 PANEL BOARD NAMEPLATE DETAIL
SCALE: N.T.S.



NOTE:
ALL WIRES ARE TO BE TAUT WITH A MINIMUM OF 3 TIGHT TURNS AROUND SELF-TYPICAL

1 TYP RECESSED FIXTURE SUPPORT DETAIL
SCALE: N.T.S.

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
MATTHEW REID CLAUSEN
08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
ELECTRICAL DETAILS

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
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PROJECT NO.
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[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

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COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Scooter's Bryant, AR
Project Type: New Construction

Construction Site:
1816 N Reynolds Rd.
Bryant, Arkansas 72022

Owner/Agent:
Scooters Coffee

Designer/Contractor:
GRANT CLAUSSEN
GHC ENGINEERS
14901 QUORUM DR.
DALLAS, Texas 75254
972239884
gclaussen@ghcengineers.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:Food Preparation	762	0.95	724
		Total Allowed Watts =	724

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Common Space Types:Food Preparation				
LED: LED 1: T1: 2x4 LED Panel Lighting: LED Panel 40W:	1	8	40	320
LED: LED 2: B: LED Strip Light: Other:	1	120	3	360
			Total Proposed Watts =	680

Interior Lighting PASSES: Design 6% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Grant Claussen — Name - Title
Signature
08/31/22 — Date

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Scooter's Bryant, AR
Project Type: New Construction
Exterior Lighting Zone: 4 (High activity metropolitan commercial district (LZ4))

Construction Site:
1816 N Reynolds Rd.
Bryant, Arkansas 72022

Owner/Agent:
Scooters Coffee

Designer/Contractor:
GRANT CLAUSSEN
GHC ENGINEERS
14901 QUORUM DR.
DALLAS, Texas 75254
972239884
gclaussen@ghcengineers.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated area of facade wall or surface	2501 ft2	0.15	No	375
			Total Tradable Watts (a) =	0
			Total Allowed Watts =	375
			Total Allowed Supplemental Watts (b) =	900

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Illuminated area of facade wall or surface (2501 ft2): Non-tradable Wattage				
LED: LED 3: Exterior Wall Sconce: Other:	1	7	28	196
LED: LED 4: Linear Light: Other:	1	1	371	371
			Total Tradable Proposed Watts =	0

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Grant Claussen — Name - Title
Signature
08/31/22 — Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL28][null]	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.6 [EL30][null]	Automatic ligting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
GRANT REID CLAUSSEN
08/31/22

EST. 1998
SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
ELECTRICAL COMCHECK

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
E1.04

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LIGHTING SCHEDULE

CALLOUT	SYMBOL	LAMP	MANUFACTURE MODEL NUMBER	DESCRIPTION	BALLAST	MOUNTING	WATTAGE VOLTAGE
A		(1) 11.8W LED	BEST LIGHTING LED WPCA 12W-3K	EXTERIOR WALL SCONCE	ELECTRONIC	WALL	120 1P 2W
A2		(1) 27.8W LED	BEST LIGHTING LED WPCA 30W-3K	EXTERIOR WALL SCONCE	ELECTRONIC	WALL	120 1P 2W
B		2.9W/ FT LED	NOVA FLEX NF/SP-PROW-120-24V-3000K	PRO 120 SERIES - IP68 LED STRIP LIGHT, VERIFY LENGTH AND HARDWIRE CONNECTIONS PRIOR TO ORDERING, TO BE PLACED ON DIMMER SWITCH	LED	SURFACE	120 1P 2W
EM1		(2) 3.3W INCLUDED	BEST LIGHTING RMR-16-LED	MR-16 SEMI-RECESSED THERMOPLASTIC EMERGENCY UNIT.	N/A	WALL	120 1P 2W
EM2		(2) 6W LED	BEST LIGHTING DBEL-ACEM-HL-B-SDI-CW-PC	LED DECORATIVE OUTDOOR DIE-CAST AC/EMERGENCY UNIT.	N/A	WALL	120 1P 2W
T1		(1) 40W LED	AEL C2435MM	LED 2X4 PANEL LIGHTING, DIMMABLE.	ELECTRONIC	RECESSED	120 1P 2W
X1		(2) 1W INCLUDED	BEST LIGHTING LEDCXTEU-2-R-W	LED EXIT SIGN/ EMERGENCY UNIT COMBO.	N/A	CEILING	120 1P 2W
FL		(1) 35W LED	KITCHLER NSP 10 TO 15 - 16209	GROUND MOUNT LED FLAG POLE LIGHT FIXTURE	LED	STANCHION GROUNG	120 1P 2W

NOTES:

1. ALL FIXTURE FINISHES AND OPTIONS MUST BE APPROVED BY OWNER OR ARCHITECT.
2. ADDITIONAL LIGHT SWITCHES MAY BE INSTALLED IF APPROVED BY OWNER OR ARCHITECT.
3. ALL EMERGENCY LIGHTING SHALL BE POWERED WITH CIRCUIT "XXX".
4. LIGHTING SUPPLIER AND CONTRACTOR ENSURE ALL LIGHTING CONTROLS INCLUDING EXPOSED TO PLENUM EXPOSED TO PLENUM IS PLENUM RATED.
5. CONTRACTOR TO COORDINATE ALL LIGHTING/DIMING CONTROLS AND LIGHTING SPECIFICATIONS WITH CONTROLS VENDOR PRIOR TO TO ORDERING TO ENSURE CORRECT COMPONENTS.
6. GENERAL CONTRACTOR TO CONTACT NATIONAL LIGHTING SUPPLIER @ SCOOTERS@FSGI.COM

LIGHTING CONTROL DEVICE SCHEDULE

CALLOUT	SYMBOL	MANUFACTURE MODEL NUMBER	UNOBSTRUCTED RATED COVERAGE	MOUNTING	WATTAGE VOLTAGE	TIME DELAY	DESCRIPTION
OCCUPANCY SENSOR SWITCH	$OS	nLIGHT WSX-PDT	--	CEILING	--	--	LINE VOLTAGE SWITCH DUAL TECHNOLOGY SENSOR
DIMMER SWITCH	$D	ACUITY CONTROLS sPODMRD	--	WALL	LINE	--	LINE VOLTAGE PUSH BUTTON SWITCH POD ON/OFF
TOGGLE SWITCH	$	HUBBEL #1221	--	WALL	LOW	--	

NOTES:

1. SENSOR REQUIRES POWER PACK (INSTALL IN ACCESSIBLE LOCATION)
2. SWIVEL MOUNTING BRACKET INCLUDED
3. ELECTRICAL CONTRACTOR SHALL COORDINATE COMPATIBILITY OF LIGHT FIXTURES AND LIGHTING CONTROL DEVICES/ SYSTEM WITH CONTROL SYSTEM SUPPLIER PRIOR TO ORDERING/ ROUGH-IN
4. VERIFY POWER REQUIREMENT FOR CEILING SENSOR. IF IT REQUIRES CONTINUOUS HOT, PULL UNDIMMED WIRE FROM AHEAD OF DIMMER SWITCH TO CEILING SENSOR FOR SENSOR OPERATING, AND RUN DIMMED LINE THROUGH SENSOR FOR ON/OFF CONTROL. CONFIRM WITH VENDOR PRIOR TO ORDERING SENSOR TO ENSURE COMPATIBILITY.

LIGHTING GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BASE BID. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCE FOR POSSIBLE REVISIONS TO THIS DOCUMENT.

B. INSTALL RECESSED LUMINAIRES USING ACCESSORIES AND FIRE STOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.

C. ALL FLUORESCENT LIGHT FIXTURES THAT UTILIZE DOUBLE ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL BE CODE COMPLIANT WITH N.E.C 410.130(G)

D. COORDINATE ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL BUILDING ELEVATIONS FOR HEIGHTS AND LOCATIONS.

E. PROVIDE EXIT SIGNS FOR ALL EXISTS DESIGNATED BY THE CODE STUDY PLAN. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS AND REQUIREMENTS.

F. CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTOR REQUIRED FOR HOT-LEGS, NEUTRAL AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

G. ALL EMERGENCY/EXIT FIXTURES AND ARE TO BE PROVIDED WITH MINIMUM 90 MIN EMERGENCY BATTERY BACK-UP. BYPASS ENERGY MANAGEMENT SYSTEM WHERE REQUIRED.

H. WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

I. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND ENGINEERS PRIOR TO FINAL BID CLOSING.

GENERAL NOTE

PROVIDE STRUCTURE ENGINEERING LETTER OF APPROVAL FOR SEISMIC INSTALLATION SUPPORT PRIOR TO INSTALLATION AND AT COMMISSIONING STAGE. ALL EQUIPMENT SEISMIC SUPPORT AND INSTALLATION METHOD MUST BE SUBMITTED TO STRUCTURE ENGINEERING APPROVAL PRIOR TO INSTALLATION.

IECC 2012

IECC 2012 APPLIANCE NOTES:

1. THE UNDER-COUNTER REFRIGERATION SHALL MEET THE STANDARDS FOR EFFICIENCY, PER IECC 2012, TABLE C4033.2.14. NOTE THAT THE ENERGY STAR REFRIGERATORS AND FREEZERS ARE 10% MORE EFFICIENT THAN MINIMUM FEDERAL EFFICIENCY STANDARDS FOR SUCH PRODUCTS. THEREBY THEY SHOULD MEET THIS REQUIREMENT.

IECC 2012 ELECTRICAL NOTES:

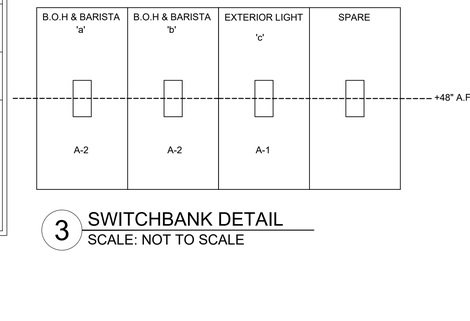
1. DAYLIGHTING REQUIRED FOR ROOMS WITH EXTERNAL WINDOWS AND 150 WATTS OR MORE OF INSTALLED LIGHTING. DAYLIGHT ZONE SHALL REACH INTO SPACE AS FAR AS THE HEIGHT OF THE TOP OF THE WINDOW SILL.
2. ALL BUILDING LIGHTING NOT CONTROLLED BY AN OCCUPANCY SENSOR (AND NOT IN AN EQUIPMENT ROOM) SHALL BE CONTROLLED BY THE BUILDING LIGHTING TIMER, AND IT SHALL BE SET AND LABELED TO BE OFF DURING NON-OCCUPIED HOURS.

IECC 2012 ELECTRICAL COMMISSIONING NOTES:

1. ELECTRICAL COMMISSIONING IS REQUIRED. COMMISSIONING SHALL BE PER IECC 2012 C408.3 (LIGHTING SYSTEMS).

NOTES BY SYMBOL (X)

1. PROVIDE DIMMING SWITCH ON WALL FOR EXTERIOR LED STRIP LIGHTING. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION.
2. EMERGENCY EGRESS LIGHT SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT.
3. PROVIDE LIGHT SWITCH ON WALL FOR EXTERIOR WALL/ SITE FIXTURE. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION
4. PROVIDE SWITCH ON WALL FOR ILLUMINATED MONUMENT SIGN AND BUILDING SIGNS COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE SWITCH ON WALL FOR ILLUMINATED MENU BOARD/ SPEAKER. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION. VERIFY EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN.
6. EXIT LIGHT SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT. PROVIDE CHEVRONS AS NEEDED.

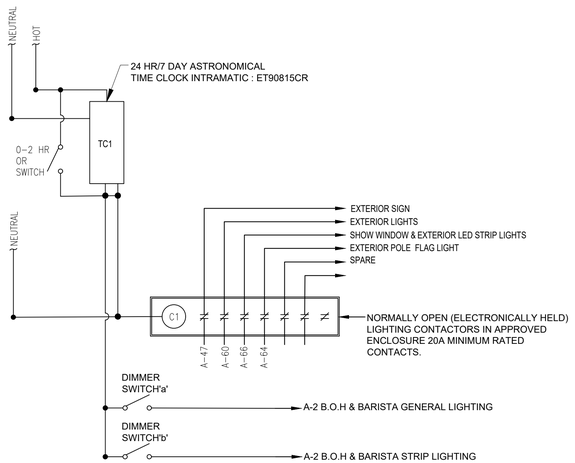


3 SWITCHBANK DETAIL
SCALE: NOT TO SCALE

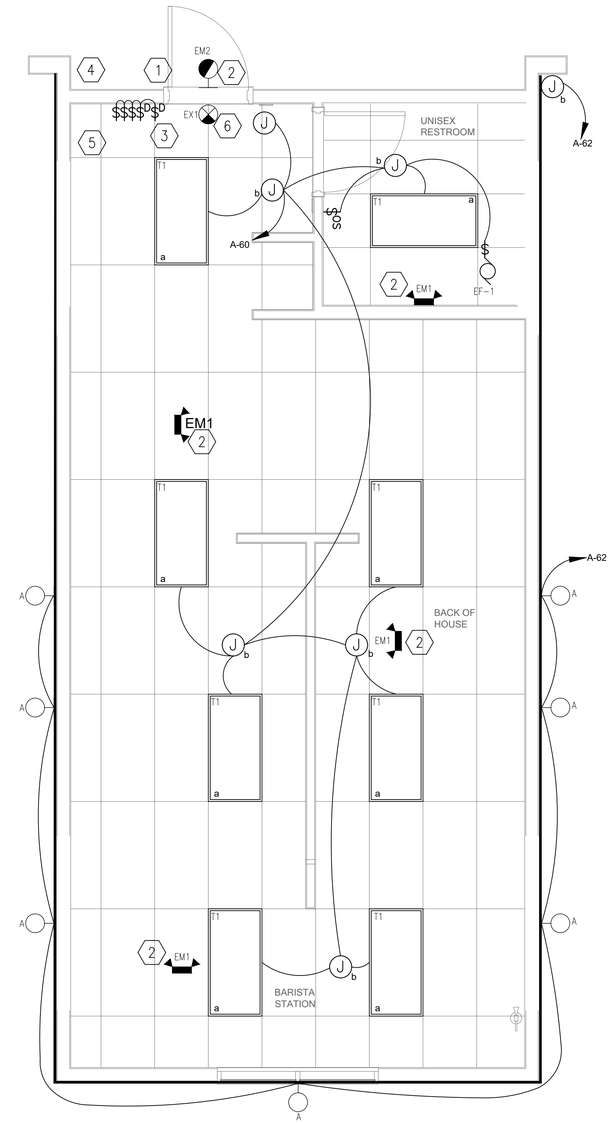
TIMECLOCK SEQUENCE OF OPERATION

1. EXTERIOR SIGN SHALL TURN ON AT 4:30AM.
2. TOILET EXHAUST SHALL ENERGIXE AT 5AM.
3. EXTERIOR SIGN SHALL TURN OFF 30- MINUTES AFTER SUNRISE.
4. EXTERIOR SIGNAGE SHALL TURN ON 30-MINUTES BEFORE SUNSET.
5. TOILET EXHAUST SHALL SHUT OFF AT 10PM.
6. EXTERIOR SIGNAGE SHALL TURN OFF AT 10:30PM.

ALL TIMES ARE ADJUSTABLE.



2 TIME CLOCK DIAGRAM
SCALE: NOT TO SCALE



1 LIGHTING FLOOR PLAN
SCALE: 3/8" = 1'-0"

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08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
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REVISIONS:

TITLE:
LIGHTING FLOOR PLAN & SCHEDULE

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
E2.01

KITCHEN EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	SYMBOL	VOLTS	AMPS	MOCP	WIRE CALLOUT	NOTES
1	BEVERAGE BLENDER		120 1P 2W	15.0	20	2#12, #12G, 3/4"C	+48" A.F.F.
2	ICE MAKER		120 1P 2W	15.2	20	2#12, #12G, 3/4"C	+60" A.F.F.
3	HIGH SPEED OVEN		240 2P 2W	16.0	30	2#10, #10G, 3/4"C	+48" A.F.F. NEMA 6-30P
4A	U/C REFRIGERATOR (48")		120 1P 2W	5.0	20	2#12, #12G, 3/4"C	+18" A.F.F. NEMA 5-15P
4B	U/C REFRIGERATOR (60")		120 1P 2W	6.6	20	2#12, #12G, 3/4"C	+18" A.F.F. NEMA 5-15P
4C	U/C REFRIGERATOR (36")		120 1P 2W	6.6	20	2#12, #12G, 3/4"C	+18" A.F.F. NEMA 5-15P
4E	U/C REFRIGERATOR (24")		120 1P 2W	2.3	20	2#12, #12G, 3/4"C	+18" A.F.F. NEMA 5-15P
5	COFFEE GRINDER		120 1P 2W	11.0	20	2#12, #12G, 3/4"C	+30" A.F.F. NEMA 5-15P
6	COFFEE BREWER		240 2P 2W	24.0	30	2#10, #10G, 3/4"C	+24" A.F.F. NEMA 5-15P, 6-30P/R. ELECTRICAN SHALL PROVIDE RECEPTACLE AND END WHIP.
8	POS TERMINAL W/ PRINTER		120 1P 2W	15.0	20	2#12, #12G, 3/4"C	+30" A.F.F. NEMA 5-15P, PROVIDE (2) CAT5 DATA LINES PER POS AND ONE CAT DATA LINE AT ORDER SCREEN.
9	ESPRESSO MACHINE		240 2P 2W	30.0	30	2#10, #10G, 3/4"C	+48" A.F.F. GC TO PROVIDE BUCK BOOST TRANSFORMER WHERE APPLICABLE TO ACHIEVE 208 VOLTAGE FOR EQUIPMENT USE.
13	REACH-IN REFRIGERATOR (2 DOOR)		120 1P 2W	7.0	20	2#12, #12G, 3/4"C	+48" A.F.F. NEMA 5-15P
14A	REACH-IN FREEZER (1 DOOR)		120 1P 2W	9.6	20	2#12, #12G, 3/4"C	+18" A.F.F. NEMA 5-15P
14B	REACH-IN FREEZER (2 DOOR)		120 1P 2W	12	20	2#12, #12G, 3/4"C	+48" A.F.F. NEMA 5-15P
25	WATER TREATMENT SYSTEM		120 1P 2W	5.0	20	2#12, #12G, 3/4"C	VERIFY PROCESSOR 120V, 6W, RP 120V, 2W
25A	WATER STORAGE TANK & PUMP		120 1P 2W	2.0	20	2#12, #12G, 3/4"C	+84" A.F.F.
26	ZOOM TIMER		120 1P 2W	2.5	20	2#12, #12G, 3/4"C	+84" A.F.F.
30	DRIVE-THRU ORDER MONITOR		120 1P 2W	8.0	20	2#12, #12G, 3/4"C	72" A.F.F. DEDICATED CIRCUIT
A	CONVENIENCE OUTLET (+48" AFF)		120 1P 2W	15.0	20	2#12, #12G, 3/4"C	MOUNT HORIZONTALLY AS NEEDED
B	CONVENIENCE OUTLET (+18" AFF)		120 1P 2W	15.0	20	2#12, #12G, 3/4"C	MOUNT HORIZONTALLY AS NEEDED
C	CONVENIENCE OUTLET (+42" AFF)		120 1P 2W	15.0	20	2#12, #12G, 3/4"C	MOUNT HORIZONTALLY AS NEEDED

NOTES:

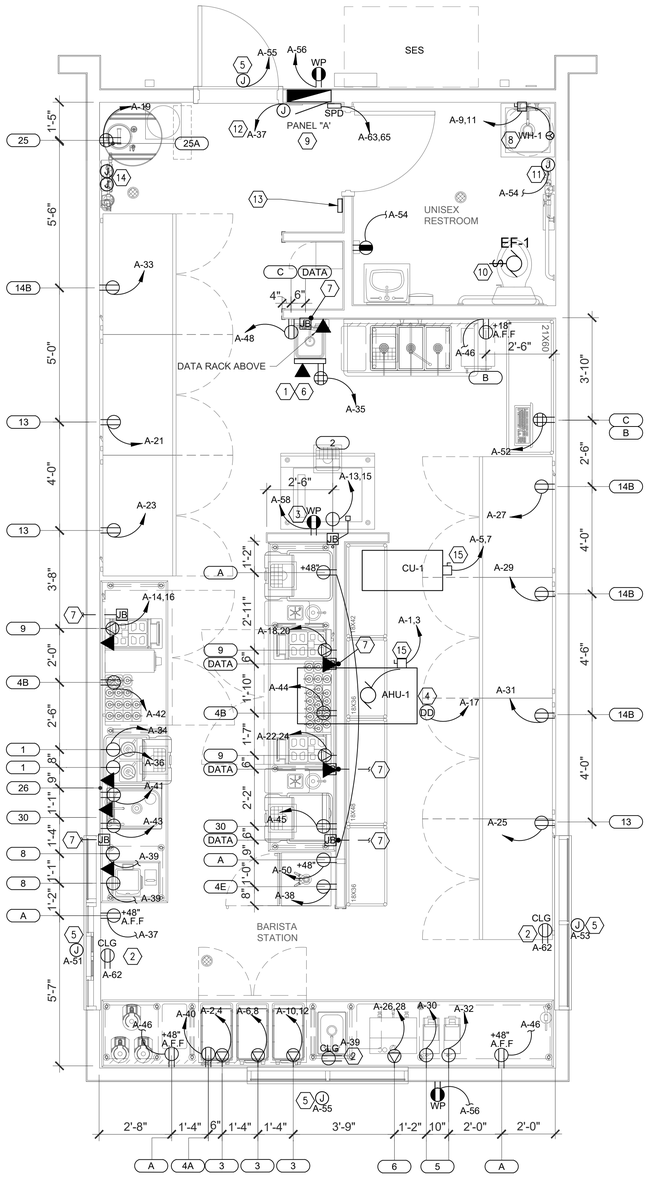
THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT.

MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	SYMBOL	VOLTS	FLA	MCA	MOCP	WIRE CALLOUT	NOTES
EF-1	EXHAUST FAN		120 1P 2W	0.67		20	2#12, #12G, 3/4"C	PROVIDE MANUAL, MOTOR RATED, NEMA-3R, TOGGLE SWITCH FOR DISCONNECTING MEANS. INTERLOCK FAN WITH RESTROOM LIGHT SWITCH
RTU-1	ROOF TOP UNIT		240 1P 2W		66	70	3#4, #8G, 1"C	PROVIDE 100A/3P NEMA 3R DISCONNECT SWITCH FUSED PER UNIT NAMEPLATE.
WH-1	WATER HEATER		240 1P 2W	39		50	2#8, #10G, 3/4"C	PROVIDE 60A/2P NEMA 3R NON-FUSED DISCONNECT SWITCH

NOTES BY SYMBOL (X)

1. PROVIDE DATA RACK RECEPTACLE MOUNTED ABOVE PANEL AT 108" A.F.F. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION. PANEL MAINTAIN 3'-0" FRONT WORKING CLEARANCE.
2. SHOW WINDOWS RECEPTACLE TO BE INSTALLED PER N.E.C. 210.62 & 220.14(G).
3. HVAC CONVENIENCE OUTLET(S) AND DISCONNECT(S) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SIZE TO MATCH BREAKERS ON PANEL AND/OR NAMEPLATE PROVIDE.
4. PROVIDE 120V CONNECTION TO DUCT SMOKE DETECTORS INTERLOCK FOR SIMULTANEOUS UNIT SHOUT-DOWN WITHIN 30 SECONDS OR LESS. VERIFY FINAL CONNECTION LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR..
5. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS AND QUANTITY FOR ELECTRICAL AND BLOCKING/ MOUNTING WITH SIGN PROVIDER AND PROVIDE AS NECESSARY PRIOR TO ROUGH-IN. CONTRACTOR SHALL FIELD VERIFY SIGN CIRCUIT COMPLIES WITH ALL LOCAL AND NATIONAL CODES AND IS PROVIDED WITH ALL REQUIRED DISCONNECTING MEANS PER N.E.C. PROVIDE INTERIOR ACCESS PANELS FOR SIGN CIRCUIT AS NECESSARY. .
6. DATA WIRING BY OWNER. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE GANG JUNCTION BOX W/ PULL STRING AT EACH DATA LOCATION WITH 3/4" CONDUIT CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING..
7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S REP TO VERIFY LOCATION OF TELEPHONE CONNECTION POINT AND RUN CONDUIT AND PHONE/DATA LINES FROM TENANT SPACE TO BASE BUILDING CONNECTION POINT. VERIFY LOCATION IN FIELD.
8. PROVIDE AND INSTALL NEW 60A/2P DISCONNECT FOR THANK WATER HEATER.
9. PANEL "A" SHALL BE RECESSED-MOUNT, AND FACE OPEN INTO ROOM FURROUT WALLS AS NECESSARY.
10. CIRCUIT EXHAUST FAN TO LOCAL LIGHTING CIRCUIT. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, ETC.., TO CONNECT ROOM'S OCCUPANCY SENSOR.
11. PLACE RECIRCULATION PUMP OUTLET/J-BOX ABOVE WATER HEATER IN UTILITY ROOM WHERE SPACE ALLOWS.
12. PROVIDE AND INSTALL (1) EMPTY JUNCTION BOX FOR SECURITY PANEL +48 A.F.F.
13. PROVIDE AND INSTALL NEW TIME CLOCK.
14. PROVIDE (2) EMPTY JUNCTION BOXES FOR VOLUME CONTROL W/ CONDUIT ABOVE CEILING. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
15. PROVIDE AND INSTALL NEW 100A/3P DISCONNECT FOR ROOFTOP UNIT.



1 POWER FLOOR PLAN

SCALE: 3/8" = 1'-0"

NORTH

GENERAL NOTES

1. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
2. ALL EXTERIOR DISCONNECTS SHALL BE W.P. TYPE.
3. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION REQUIREMENTS (HP, AMPS, VOLTAGE, PHASE, MOUNTING HEIGHT, AND DISCONNECTING MEANS) FOR ALL EQUIPMENT SUPPLIED BY OTHERS BEFORE ROUGH-IN. DISCONNECT SWITCHES SHALL BE LOCATED WITH N.E.C. CODE CLEARANCE OR PROVIDE LOCKOUT TYPE C/B.
4. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. ALL EXTERIOR RECEPTACLE SHALL BE W.P/ GFCI. TYPE.

A. ALL ELECTRICAL PANEL BOARDS SHALL MAINTAIN 3'-0" IN FRONT WORKING CLEARANCE REFER TO ONE-LINE DIAGRAM FOR DETAIL.

B. WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

C. VERIFY GFI REQUIREMENTS PRIOR TO BID. ALL RECEPTACLES WITHIN 6'-0" OF A SINK OR WASH BASIN SHALL BE GFI RATED.

D. ELECTRICAL CONTRACTOR RESPONSIBLE FOR COORDINATING EXACT LOCATION, QUANTITIES AND INSTALLATION REQUIREMENTS OF ELECTRICAL EQUIPMENT IN MILL WORK.

E. CONDUITS & WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT-LEGS, NEUTRAL, AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

F. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND ENGINEERS PRIOR TO FINAL BID CLOSING.

G. ALL RECEPTACLES INSTALLED AT 16" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.

H. GENERAL CONTRACTOR TO VERIFY WITH COUNTER FAB VENDER PRIOR TO OUTLET LOCATION.

I. PROVIDE GFCI PROTECTION FOR ALL BACK OF HOUSE/ DRIVE THRU WINDOW AREA RECEPTACLES PER NEC 210.8 (B)(2). MUST BE READILY ACCESSIBLE OR USE GFI BREAKER.

KITCHEN EQUIPMENT NOTES

A. FINAL CONNECTION TO ALL HARD-WIRED EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.

B. THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL RELATED EQUIPMENT.

C. "CALL OUT" - INDICATES EQUIPMENT IDENTIFICATION NUMBER, REFER TO EQUIPMENT SCHEDULE. COORDINATE WITH EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.

E. PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.

F. ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER N.E.C. #250.122, #12 MINIMUM GROUND, WIRE NOT SHOWN ON DRAWINGS.

G. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF THE EQUIPMENT SUPPLIER.

H. THE ELECTRICAL CONTRACTOR SHALL VERIFY PLUG CONFIGURATIONS FOR APPLIVABLE EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.

I. PROVIDE GFCI PROTECTION FOR ALL EQUIPMENT/ KITCHEN RECEPTACLES PER N.E.C. 210.8 (B)(2).

MECHANICAL GENERAL NOTES

A. VERIFY ALL MECHANICAL UNIT LOCATIONS WITH MECHANICAL PLANS.

B. THE ELECTRICAL CONTRACTOR SHALL NOT MOUNT DISCONNECT EQUIPMENT DIRECTLY TO MECHANICAL UNITS FOR DISCONNECT 200A AND LARGER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SELF-SUPPORTING SYSTEM FOR DISCONNECT EQUIPMENT.

C. PROVIDE WEATHERPROOF, HEAVY DUTY, NEMA 3R FUSIBLE DISCONNECT SWITCHES FOR ALL MECHANICAL UNITS LOCATED OUTSIDE.

D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT GFCI (PASS & SEYMOUR 2095DSWRBK OR EQUAL). INSTALLED IN A WEATHERPROOF ENCLOSURE WITH A WHILE IN USE COVERPLATE (PASS & SEYMOUR #WIUC10DCL OR EQUAL).

E. EXHAUST FANS MOUNTED OUTSIDE SHALL HAVE A WEATHERPROOF DISCONNECT MOUNTED EXTERIOR TO THE UNIT. INTERNAL DISCONNECT SWITCHES SHALL NOT BE ALLOWED.

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMES REID CLAUSEN
08/31/22

EST. 1998 SCOOTER'S COFFEE

PROJECT ADDRESS:
1816 N Reynolds Rd.
Bryant, AR 72022

REVISIONS:

TITLE:
POWER
FLOOR PLAN

KIOSK PROTOTYPE:
4.1 PROTOTYPE
MAY 2022
DATE:
09/01/2022
PROJECT NO.
221329

[X] PERMIT/BID SUBMITTAL
[ ] CONSTRUCTION ISSUE

SHEET NO.
E2.02

THIS DRAWING AND ITS CONTENTS ARE THE COPYRIGHTED PROPERTY OF GHA ARCHITECTS USE THEREOF IS LIMITED TO THE SPECIFIC PROJECT AND SITE SET FORTH ABOVE, AND MAY NOT BE OTHERWISE USED OR REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF GHA ARCHITECTS, THE ARCHITECT. THIS DRAWING IS TO BE RETURNED UPON REQUEST.

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 9/30/22

Sign Co. or Sign Owner

Name SEIZ Sign Co.
Address 1231 Central Ave
City, State, Zip Hot Springs, AR 71901
Phone 501·623·3181
Email Address Ronny@seizsigns.com

Property Owner

Name Alex Hamilton
Address 2422 Springhill Rd
City, State, Zip Bryant, AR 72022
Phone _____
Email Address Alexilton@gmail.com

GENERAL INFORMATION

Name of Business Hamilton Family Dentistry
Address/Location of sign 2422 Springhill Rd.
Zoning Classification _____

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I Ronny Skipper, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

SIGN	**Type** (Façade, Pole, Monument, other)	**Dimensions** (Height, Length, Width)	**Sqft** (Measured in whole as rectangle)	**Height of Sign** (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
A	MONUMENT	4x8	32	7'	2.5'	
B						
C						
E						
F						
G						

Job Ticket Number: 8589
Salesperson: Robert B. - robertb@seizsigns.com
Start Date: 8/31/22

Customer/Folder: Hamilton Family Dentistry
File: HFD_MonumentSign_PROOF4
Last Revision:

Seiz Sign Company 1231 Central Ave. Hot Springs, AR 71901 Phone: 501-623-3181 Fax: 501-623-4594 www.seizsigns.com



1 DF - 7′ x 118.33″ Monument Sign
2 SF - 15″ Tall Dimensional Ellipse Logos
2 Sets - White Dimensional Letters
2 Sets - 6″ Tall Dimensional Address Numbers

Paint:
Sherwin Williams - Iron Ore

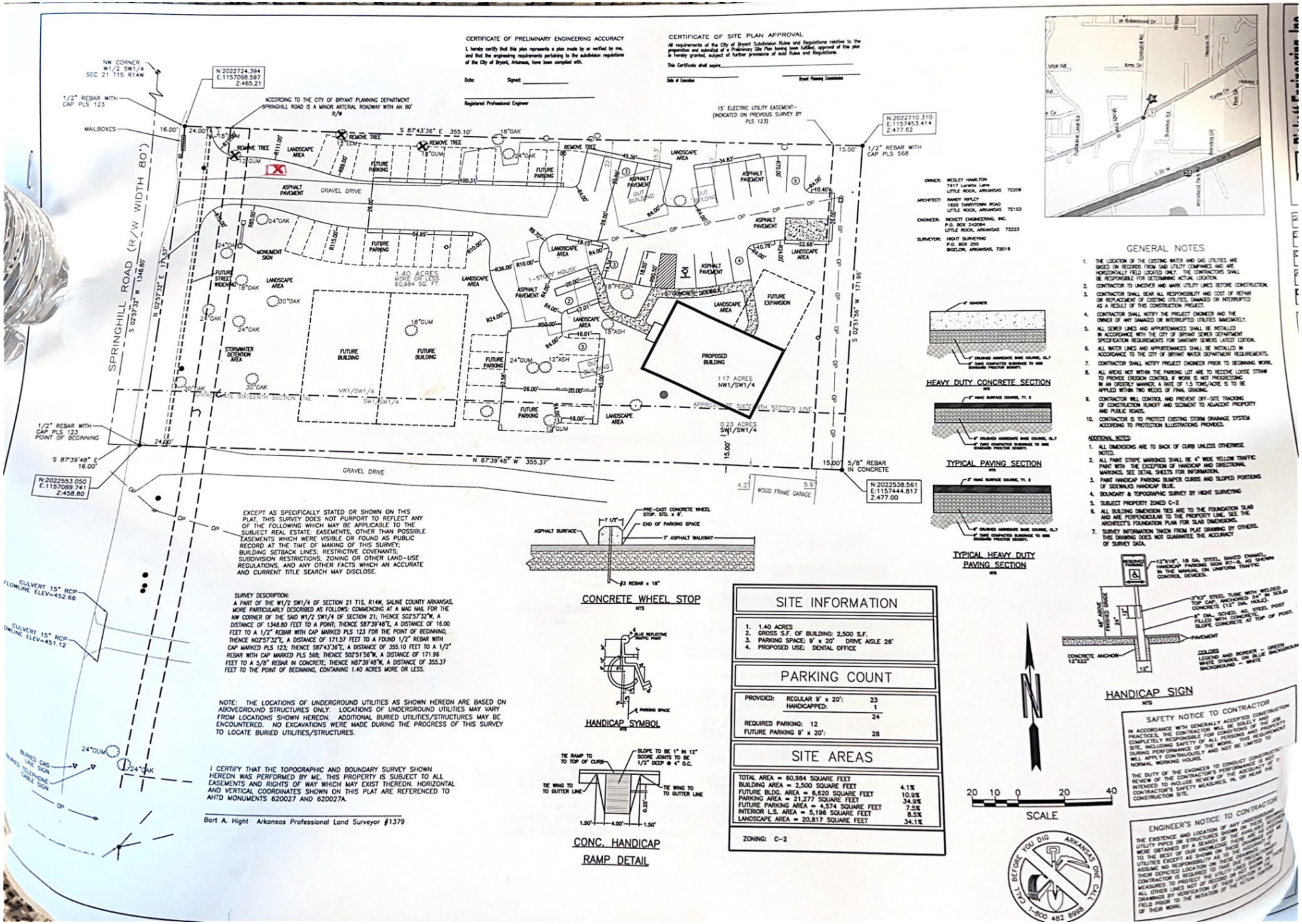
Production

Designer: Merry - merry@seizsigns.com
Quantity: 1 DF
Substrate: Monument Sign
Production Notes:

Conditions & Approval

1. The client is responsible for content accuracy. Please proof the text, dimensions, and layout carefully. 2. Colors are representative only. There are variations in color between sign printing and paper printers. 3. All designs presented are the sole property of Seiz Sign Company, and may not be reproduced in part or whole without written permission from Seiz Sign Company. 4. By signing below you agree that all artwork is correct and give Seiz Sign Company permission to begin production.

Client Approval Date


CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY
I, hereby certify that this plan represents a plan made by or verified by me, and that the engineering requirements pertaining to the subdivision regulations of the City of Bryant, Arkansas, have been complied with.
Date:
Signed:
Registered Professional Engineer
CERTIFICATE OF SITE PLAN APPROVAL
All requirements of the City of Bryant Subdivision Rules and Regulations relative to the preparation and submittal of a Preliminary Site Plan having been fulfilled, approval of this plan is hereby granted, subject of further provisions of said Rules and Regulations.
This Certificate shall expire
Date of Execution
Bryant Planning Commission
NW CORNER W1/2 SW1/4 SEC 21 T1S R14W
N:2022724.394
E:1157098.597
Z:465.21
1/2" REBAR WITH CAP PLS 123
ACCORDING TO THE CITY OF BRYANT PLANNING DEPARTMENT SPRINGHILL ROAD IS A MINOR ARTERIAL ROADWAY WITH AN 80' R/W
MAILBOXES
SPRINGHILL ROAD (R/W WIDTH 80')
S 02°57'32" W 1348.80'
N 02°57'32" E 171.57'
S 87°43'36" E 355.10'
15' ELECTRIC UTILITY EASEMENT-- (INDICATED ON PREVIOUS SURVEY BY PLS 123)
N:2022710.310
E:1157145.414
Z:477.62
1/2" REBAR WITH CAP PLS 568
S 02°51'56" W 171.96'
REMOVE TREE
LANDSCAPE AREA
ASPHALT PAVEMENT
GRAVEL DRIVE
FUTURE PARKING
OUT BUILDING
FUTURE STREET WIDENING
MONUMENT SIGN
1.40 ACRES MORE OR LESS 60,984 SQ. FT.
1-STORY HOUSE
8" PECAN
4" CONCRETE SIDEWALK
FUTURE EXPANSION
PROPOSED BUILDING
1.17 ACRES NW1/SW1/4
0.23 ACRES SW1/SW1/4
STORMWATER DETENTION AREA
FUTURE BUILDING
NW1/SW1/4
SW1/SW1/4
APPROX. SIXTEENTH SECTION LINE
1/2" REBAR WITH CAP PLS 123 POINT OF BEGINNING
S 87°39'48" E 16.00'
N 87°39'48" W 355.37'
5/8" REBAR IN CONCRETE
N:2022553.050
E:1157089.741
Z:458.80
N:2022538.561
E:1157444.817
Z:477.00
4.3'
5.9'
WOOD FRAME GARAGE
CULVERT 15" RCP FLOWLINE ELEV=452.66
CULVERT 15" RCP FLOWLINE ELEV=451.12
BURIED GAS LINE SIGN
BURIED TELEPHONE CABLE SIGN
EXCEPT AS SPECIFICALLY STATED OR SHOWN ON THIS PLAT, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY OF THE FOLLOWING WHICH MAY BE APPLICABLE TO THE SUBJECT REAL ESTATE: EASEMENTS, OTHER THAN POSSIBLE EASEMENTS WHICH WERE VISIBLE OR FOUND AS PUBLIC RECORD AT THE TIME OF MAKING OF THIS SURVEY; BUILDING SETBACK LINES; RESTRICTIVE COVENANTS; SUBDIVISION RESTRICTIONS; ZONING OR OTHER LAND-USE REGULATIONS, AND ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
SURVEY DESCRIPTION:
A PART OF THE W1/2 SW1/4 OF SECTION 21 T1S, R14W, SALINE COUNTY ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT A MAG NAIL FOR THE NW CORNER OF THE SAID W1/2 SW1/4 OF SECTION 21; THENCE S02°57'32"W, A DISTANCE OF 1348.80 FEET TO A POINT; THENCE S87°39'48"E, A DISTANCE OF 16.00 FEET TO A 1/2" REBAR WITH CAP MARKED PLS 123 FOR THE POINT OF BEGINNING; THENCE N02°57'32"E, A DISTANCE OF 171.57 FEET TO A FOUND 1/2" REBAR WITH CAP MARKED PLS 123; THENCE S87°43'36"E, A DISTANCE OF 355.10 FEET TO A 1/2" REBAR WITH CAP MARKED PLS 568; THENCE S02°51'56"W, A DISTANCE OF 171.96 FEET TO A 5/8" REBAR IN CONCRETE; THENCE N87°39'48"W, A DISTANCE OF 355.37 FEET TO THE POINT OF BEGINNING, CONTAINING 1.40 ACRES MORE OR LESS.
NOTE: THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES ONLY. LOCATIONS OF UNDERGROUND UTILITIES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.
I CERTIFY THAT THE TOPOGRAPHIC AND BOUNDARY SURVEY SHOWN HEREON WAS PERFORMED BY ME. THIS PROPERTY IS SUBJECT TO ALL EASEMENTS AND RIGHTS OF WAY WHICH MAY EXIST THEREON. HORIZONTAL AND VERTICAL COORDINATES SHOWN ON THIS PLAT ARE REFERENCED TO AHTD MONUMENTS 620027 AND 620027A.
Bart A. Hight Arkansas Professional Land Surveyor #1379
PRE-CAST CONCRETE WHEEL STOP, STD. x 6'
END OF PARKING SPACE
7' ASPHALT WALKWAY
ASPHALT SURFACE
#3 REBAR x 18"
CONCRETE WHEEL STOP
NTS
4" BLUE REFLECTIVE TRAFFIC PAINT
PARKING SPACE
HANDICAP SYMBOL
NTS
TIE RAMP TO TO TOP OF CURB
SLOPE TO BE 1" IN 12" SCORE JOINTS TO BE 1/2" DEEP @ 4' O.C.
TIE WING TO TO GUTTER LINE
TIE WING TO TO GUTTER LINE
CONC. HANDICAP RAMP DETAIL
OWNER: WESLEY HAMILTON 7417 Lorette Lane LITTLE ROCK, ARKANSAS 72209
ARCHITECT: RANDY RIPLEY 1620 TAYETTEVILLE ROAD LITTLE ROCK, ARKANSAS 72103
ENGINEER: RICKETT ENGINEERING, INC. P.O. BOX 242094 LITTLE ROCK, ARKANSAS 72223
SURVEYOR: HIGHT SURVEYING P.O. BOX 250 BIGELOW, ARKANSAS, 72016
6" CONCRETE
4" CRUSHED AGGREGATE BASE COURSE, CL.7
6" SUBG. COMPACTED SUBGRADE TO 95% STANDARD PROCTOR DENSITY.
HEAVY DUTY CONCRETE SECTION
NTS
2" HMAC SURFACE COURSE, TY. II
4" CRUSHED AGGREGATE BASE COURSE, CL.7
6" SUBG. COMPACTED SUBGRADE TO 95% STANDARD PROCTOR DENSITY.
TYPICAL PAVING SECTION
NTS
3" HMAC SURFACE COURSE, TY. II
6" CRUSHED AGGREGATE BASE COURSE, CL.7
6" SUBG. COMPACTED SUBGRADE TO 95% STANDARD PROCTOR DENSITY.
TYPICAL HEAVY DUTY PAVING SECTION
NTS
SITE INFORMATION
1. 1.40 ACRES
2. GROSS S.F. OF BUILDING: 2,500 S.F.
3. PARKING SPACE: 9' x 20' DRIVE AISLE 26'
4. PROPOSED USE: DENTAL OFFICE
PARKING COUNT
PROVIDED: REGULAR 9' x 20': 23
HANDICAPPED: 1
24
REQUIRED PARKING: 12
FUTURE PARKING 9' x 20': 28
SITE AREAS
TOTAL AREA = 60,984 SQUARE FEET
BUILDING AREA = 2,500 SQUARE FEET 4.1%
FUTURE BLDG. AREA = 6,620 SQUARE FEET 10.9%
PARKING AREA = 21,277 SQUARE FEET 34.9%
FUTURE PARKING AREA = 4,574 SQUARE FEET 7.5%
INTERIOR L.S. AREA = 5,196 SQUARE FEET 8.5%
LANDSCAPE AREA = 20,817 SQUARE FEET 34.1%
ZONING: C-2
20 10 0 20 40
SCALE
CALL BEFORE YOU DIG ARKANSAS ONE CALL 1-800 482 8998
GENERAL NOTES
1. THE LOCATION OF THE EXISTING WATER AND GAS UTILITIES ARE BASED ON RECORDS FROM SAID UTILITY COMPANIES AND ARE HORIZONTALLY FIELD LOCATED ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL LOCATION.
2. CONTRACTOR TO UNCOVER AND MARK UTILITY LINES BEFORE CONSTRUCTION.
3. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
4. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
5. ALL SEWER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF BRYANT SEWER DEPARTMENT SPECIFICATION REQUIREMENTS FOR SANITARY SEWERS LATEST EDITION.
6. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE TO THE CITY OF BRYANT WATER DEPARTMENT REQUIREMENTS.
7. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
8. ALL AREAS NOT WITHIN THE PARKING LOT ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
9. CONTRACTOR WILL CONTROL AND PREVENT OFF-SITE TRACKING OF CONSTRUCTION RUNOFF AND SEDIMENT TO ADJACENT PROPERTY AND PUBLIC ROADS.
10. CONTRACTOR IS TO PROTECT EXISTING STORM DRAINAGE SYSTEM ACCORDING TO PROTECTION ILLUSTRATIONS PROVIDED.
ADDITIONAL NOTES:
1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PAINT STRIPE MARKINGS SHALL BE 4" WIDE YELLOW TRAFFIC PAINT WITH THE EXCEPTION OF HANDICAP AND DIRECTIONAL MARKINGS. SEE DETAIL SHEETS FOR INFORMATION.
3. PAINT HANDICAP PARKING BUMPER CURBS AND SLOPED PORTIONS OF SIDEWALKS HANDICAP BLUE.
4. BOUNDARY & TOPOGRAPHIC SURVEY BY HIGHT SURVEYING
5. SUBJECT PROPERTY ZONED C-2
6. ALL BUILDING DIMENSION TIES ARE TO THE FOUNDATION SLAB AND ARE PERPENDICULAR TO THE PROPERTY LINE. SEE THE ARCHITECT'S FOUNDATION PLAN FOR SLAB DIMENSIONS.
7. SURVEY INFORMATION TAKEN FROM PLAT DRAWING BY OTHERS. THIS DRAWING DOES NOT GUARANTEE THE ACCURACY OF SURVEY DATA.
HANDICAP PARKING
12"x18", 18 GA. STEEL, BAKED ENAMEL, HANDICAP PARKING SIGN R7-8, AS SHOWN IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3"X3" STEEL TUBE WITH WELDED TOP CAP, ANCHORED 24" IN SOLID CONCRETE (12" DIA. HOLE).
4" DIA., SCHED. 40, STEEL POST FILLED WITH CONCRETE, SLOPED CONCRETE AT TOP OF POST.
48" ABOVE FINISHED GRADE
24"
PAVEMENT
CONCRETE ANCHOR 12"X22"
12"
COLORS
LEGEND AND BORDER = GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND = WHITE
HANDICAP SIGN
NTS
SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
ENGINEER'S NOTICE TO CONTRACTOR
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS SHOW ALL UTILITIES EXISTING IN THE AREA AFFECTED, BUT WE DO NOT ASSUME NO RESPONSIBILITY AS TO THE COMPLETENESS OR THEIR DEPICTED LOCATION ON THESE DRAWINGS. IT IS REQUIRED THAT THE CONTRACTOR TO PROTECT THE UTILITY LINES SHOWN, AND MEASURES TO PROTECT ANY OF THESE LINES NOT SHOWN ON THE ALL OTHER LINES NOT OF RECORD OR LOCATION SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR EXISTENCE AND LOCATION IN FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.

2 Signs

Staff Approved
10/25/2022 CL

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 10/17/2022

Sign Co. or Sign Owner

Name ARKANSAS SIGN & NEON
Address 8525 DISTRIBUTION DR
City, State, Zip LITTLE ROCK AR 72209
Phone 501.562.3942
Email Address lora@arkansassign.com

Property Owner

Name MCASLITER'S DELI
Address 7401 ALCOA RD, STE 1
City, State, Zip BRYANT AR 72022
Phone
Email Address

GENERAL INFORMATION

JOB COSTS $15000.00

Name of Business MCALISTER'S DELE
Address/Location of sign 7401 ALCOA RD, STE 1
Zoning Classification

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I Lora A. Rand, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

SIGN	**Type** (Façade, Pole, Monument, other)	**Dimensions** (Height, Length, Width)	**Sqft** (Measured in whole as rectangle)	**Height of Sign** (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
A	WALL (FRONT)	39.6" X 186.1"	51.2	16'	12'6"	CL 10/25/22
B	WALL (SIDE)	39.6" X 186.1	51.2	16;	12'6"	CL 10/25/22
C						
E						
F						
G						

Sales: Rhonda Lambert
Project Manager: Andrea Cooksey

7401 Alcoa Rd • Ste 1
Bryant, AR 72022

Table of Contents

Page 1 - Cover Page
Page 2 - Front Elevation
Page 3 - Side Elevation
Page 4 - 30" Direct Mount Channel Letters
Page 5 - Door Vinyl

Revision Notes

Rev 1: JH 02-25-20 Updated Letters to remove green backer, changed colors of awnings from green to black, updated elevations.

Rev 2: CM 04-05-21 Updated Channel Letters, and Wall Sconces.

Rev 3: JH 09-22-22 Updated elevations to remove awnings

Courtesy of
Design Team
SIGN COMPANY LLC.
731-925-4448 • 800-953-3744 • Fax 731-926-2022
www.designteam.net

Front Elevation

A	30" Direct Mount Channel Letters
B	Door Vinyl

Rev 1: JH 02-25-20 Removed Green backing on Letters, updated awning colors to black
Rev 2: CM 04/05/21 Removed Surround from Channel Letters
Rev 3: JH 09-22-22 Revised to remove awnings from building
Rev 4:
Rev 5:

Proposed Elevation



Previous → 72 sqft

Letterband – 27 x 2 = 54 sqft

Total – 126 sqft

Existing Elevation



Design Team SIGN COMPANY LLC.

Designer: MEB	Date: 9-13-19	Option 1 - MEB
Client: McAlister's - 7401 Alcoa Rd • Ste 1		
File Path: z/Restaurant/McA/BryantAR/CP		

☐ Proof Is Approved. Proceed With Production Of Order

☐ Proof Is Approved With Corrections. Make Corrections As Indicated And Proceed With Production Of Order

Signature: _____

I have reviewed this proof in regard to: Sign type, order quantity, and accuracy of icons, symbols, and text (e.g. spelling, capitalization, punctuation)

Print Name: _____

Date: _____

These plans are the exclusive property of Design Team Sign Company and are the result of the original work of its employees. They are submitted to your company for the sole purpose of your consideration of whether to purchase these plans or to purchase from Design Team Sign Company a product manufactured according to these plans. Distribution or exhibition of the plans to anyone other than employees of your company, or use of these plans to construct a product similar to one embodied herein, is expressly forbidden. In the event that exhibition or construction occurs, Design Team Sign Company expects to be reimbursed $500 in compensation for time and effort entailed in creating these plans.

Side Elevation

A	30" Direct Mount Channel Letters
B	Door Vinyl

Rev 1: JH 02-25-20 Removed green backer for letters, revised colors for awnings to black
Rev 2: CM 4-5-21 Removed Surround from Channel Letters
Rev 3: JH 09-22-22 Revised to remove awnings
Rev 4:
Rev 5:

Proposed Elevation



Previous
- Letterband - 22 sqft x 2
  44 sqft
- Main Sign 72 sqft

Total 116 sqft

Existing Elevation



Design Team SIGN COMPANY LLC.

Designer: MEB	Date: 9-13-19	Option 1 - MEB
Client: McAlister's - 7401 Alcoa Rd • Ste 1		
File Path: z/Restaurant/McA/BryantAR/CP		

☐ Proof Is Approved. Proceed With Production Of Order

☐ Proof Is Approved With Corrections. Make Corrections As Indicated And Proceed With Production Of Order

Signature: _____
I have reviewed this proof in regard to: Sign type, order quantity, and accuracy of icons, symbols, and text (e.g. spelling capitalization, punctuation)

Print Name: _____

Date: _____

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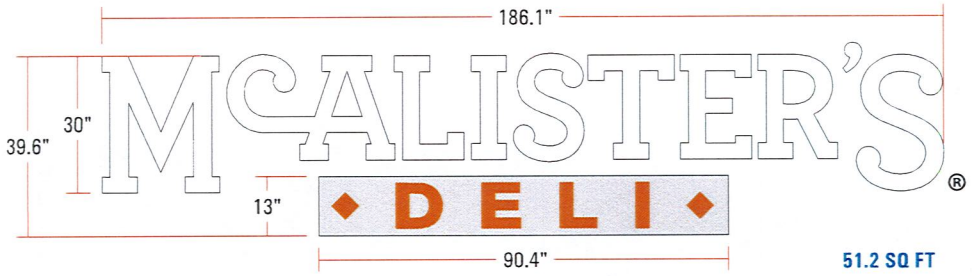
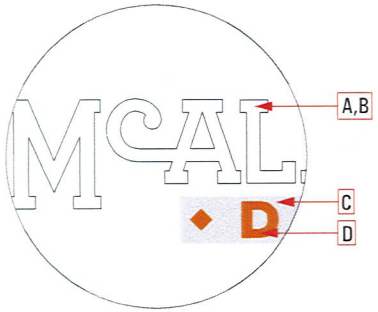
Direct Mount Channel Letters w/Face Lit Descriptor

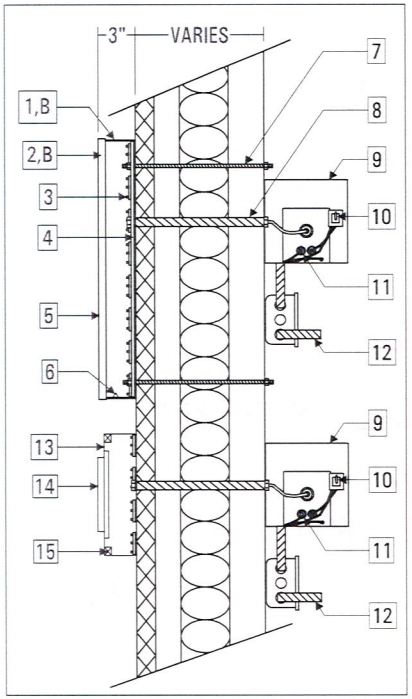
MCA-1: Preferred White



51.2 SQ FT

Color Schedule





Materials	
1	.040 Aluminum Returns
2	1" Trimcap
3	LED Mounted to Back of Channel Letters
4	.090 Aluminum Back
5	7328 White Acrylic
6	.25" Weep Holes
7	Mounting Hardware (Varies per Building)
8	.5" Flex Conduit
9	Transformer Mounting Box
10	Toggle Switch Mounted at End of Box
11	Power Supply
12	Primary Electrical Leads (Power by Others)
13	.125" Routed Aluminum Face
14	3/4" Clear Push Thru w/1st Surf. Vinyl & Diffuser
15	1" Alum. Tube Frame Inside Cabinet

Colors & Finishes		
A		7328 White Acrylic Faces
B		Gloss Black Returns and Trimcap
C		Powdercoat Tiger Drylac RAL 7035
D		Vinyl 3630-44 Backed w/ 30% Diffuser

Notes

- McAlister's - to receive White LED
- Deli - to receive White LED
- Painted to match Powdercoat Colors

Rev 1:
Rev 2:
Rev 3:
Rev 4:
Rev 5:

Design Team SIGN COMPANY LLC.

Designer: MEB	Date: 11-25-19
Client: McAlister's	
File Path: z/Restaurant/McAlisters/CorpSpecs	

☐ Proof Is Approved. Proceed With Production Of Order

☐ Proof Is Approved With Corrections. Make Corrections As Indicated And Proceed With Production Of Order

Signature: _____
I have reviewed this proof in regard to: Sign type, order quantity, and accuracy of icons, symbols, and text (e.g. spelling capitalization, punctuation).

Print Name: _____

Date: _____

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Specifications:

Avery SC 900-861-W Vinyl Applied 1st Surface (McAlister's Logo, Store Hours, and Smoke Free Lettering)

751-010 White Vinyl (Suite Number)

Design Team SIGN COMPANY LLC.

Designer: MEB	Date: 3-30-19
Client: McAlister's	
File Path: z/Restaurant/McAlisters/CorpSpecs	

☐ Proof Is Approved. Proceed With Production Of Order

☐ Proof Is Approved With Corrections. Make Corrections As Indicated And Proceed With Production Of Order

Signature: _____
I have reviewed this proof in regard to: Sign type, order quantity; and accuracy of icons, symbols, and text (e.g. spelling capitalization, punctuation).

Print Name: _____

Date: _____

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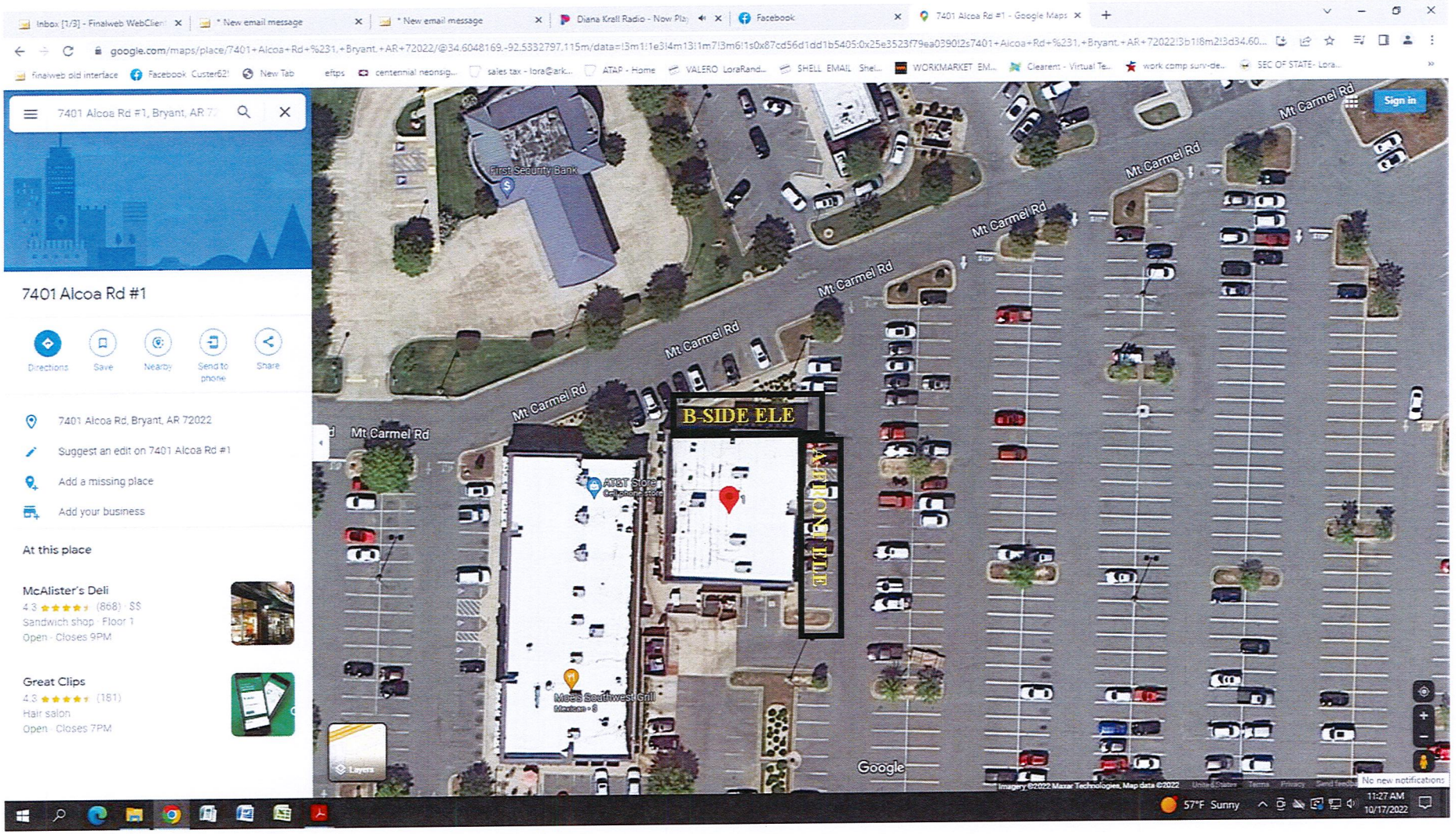
7401 Alcoa Rd #1, Bryant, AR 72
7401 Alcoa Rd #1
Directions
Save
Nearby
Send to phone
Share
7401 Alcoa Rd, Bryant, AR 72022
Suggest an edit on 7401 Alcoa Rd #1
Add a missing place
Add your business
At this place
McAlister's Deli
4.3 (868) · $$
Sandwich shop · Floor 1
Open · Closes 9PM
Great Clips
4.3 (181)
Hair salon
Open · Closes 7PM
First Security Bank
Mt Carmel Rd
B-SIDE ELE
A-BONE ELE
AT&T Store
Moe's Southwest Grill
Layers
Google
Sign in
57°F Sunny
11:27 AM
10/17/2022

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 10/18/22

Sign Co. or Sign Owner

Name Custom Advertising
Address 23738 I-30
City, State, Zip Bryant AR 72022
Phone 501.847.1000
Email Address JimmyPacker65@gmail.com

Property Owner

Name Baxley Penfield Moudy
Address 3525 AR-5
City, State, Zip Bryant AR
Phone 568 6000
Email Address

GENERAL INFORMATION

Name of Business Baxley, Penfield, Moudy
Address/Location of sign 3525 AR-5
Zoning Classification C-3

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I Jimmy Packer, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

SIGN	**Type** (Façade, Pole, Monument, other)	**Dimensions** (Height, Length, Width)	**Sqft** (Measured in whole as rectangle)	**Height of Sign** (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
A	Wall	4'x8'	32	14	10	
B						
C						
E						
F						
G						



5'x8' internally illuminated sign cabinet.
Each Panel is 18" T X 92" W

3525 AR-5
Bryant AR


Untitled Map
Write a description for your map.
Legend
NFG Performance
Install New 4'x8' Sign
Remove
Remove
Remove
Google Earth
© 2022 Google
6.07 ft

#0614

2-Signs Approved CL
10/19/2022

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

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Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 8-10-22

Sign Co. or Sign Owner

Name Kens Signs / Ken Jones
Address 2100 S. Powell St.
City, State, Zip Springdale, AR 72764
Phone 479.756.1810
Email Address Kenny.Jones@KensSigns.com

Property Owner

Name America's Car-Mart
Address 1805 N. 2nd St., Ste. 401
City, State, Zip Rogers, AR 72756
Phone 479.464.9944
Email Address Ron.Worthington@Car-Mart.com

GENERAL INFORMATION

Name of Business America's Car-Mart.
Address/Location of sign 3200 N. Reynolds Rd.
Zoning Classification CZ

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

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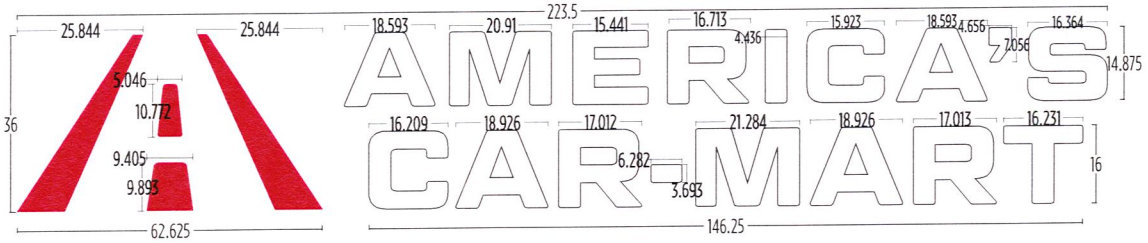
SIGN	Type (Façade, Pole, Monument, other)	Dimensions (Height, Length, Width)	Sqft (Measured in whole as rectangle)	Height of Sign (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
A	Facade	3' x 18.63'	55.89	25'	22'	10/19/22
B	Facade	3' x 18.63'	55.89	25'	22'	10/19/22
C						
E						
F						
G						

- Same location as Previous Signs, Same Sqft as previous.
- Different sign Type.

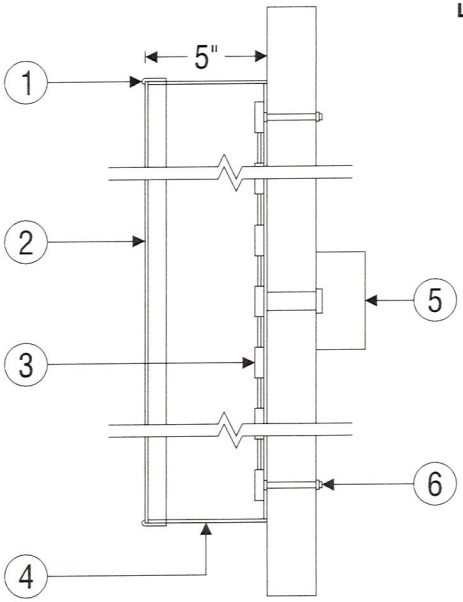
America's Car-Mart #175

Bryant, AR

8/10/2022



LED Channel Letters



1. 1" trim cap with retaining screws
2. 3/16" white plexi face
3. White LED
4. .080" aluminum back / .080" return
   5" deep aluminum return
5. Remote power supply
6. 3/8" all thread, nuts & washers

Ken's Signs INCORPORATED 1.888.809.1810 | 479.756.1810 | www.kenssigns.com | 2100 S. Powell St. Springdale, AR 72764 | Designer: Stephanie

©2022 KEN'S SIGNS. DESIGNS PRESENTED ARE THE SOLE PROPERTY OF KEN'S SIGNS, AND MAY NOT BE REPRODUCED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION.

America's Car-Mart #175

Bryant, AR

8/10/2022



Ken's Signs INCORPORATED 1.888.809.1810 | 479.756.1810 | www.kenssigns.com | 2100 S. Powell St. Springdale, AR 72764 | Designer: Stephanie

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J:\FLEXI JOBS\America's Car-Mart\Bryant, AR #175
Building Letters #175-Bryant, AR.fs

America's Car-Mart #175

Bryant, AR

8/10/2022



Ken's Signs INCORPORATED 1.888.809.1810 | 479.756.1810 | www.kenssigns.com | 2100 S. Powell St. Springdale, AR 72764 | Designer: Stephanie

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#0613

3 Signs → Approved CL
10/19/2022

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 10/7/22

Sign Co. or Sign Owner

Name Whatley Industries
Address 1109 E 51st ST.
City, State, Zip Texarkana AR, 71854
Phone 870-773-2139
Email Address info@whatleysign.com

Property Owner

Name Bob Strate
Address 206 W. Commerce St.
City, State, Zip Bryant, AR 72022
Phone _____
Email Address bobs@tamollys.com

GENERAL INFORMATION

Name of Business TaMolly's
Address/Location of sign 206 W. Commerce St. Bryant, AR 72022
Zoning Classification _____

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

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				Top of Sign	Bottom of Sign	
A						
B						
C						
E						
F						
G						

Tamolly's 59" x 158"
Real, Fresh, Tex-mex 17" x 282"
Homestyle ~~[illegible]~~ 17" x 134"

→ Signs same size + font as current signage.
→ New signage, but same sqft and size as previous/existing.

Client: **Ta Molly's** Desc: **Exterior Neon and Channel Letters** Salesman: **Tye Whatley** Artist: **Cortney Crawford** Date: **09/08/2022**

206 W Commerce St, Bryant, AR





X Authorized Approval

Scale = 128:1

Details: **Border Neon**
17" channel letters with red translucent vinyl.

WHATLEY SIGNCOMPANY
1109 E 51st Street P 870.773.2139
Texarkana, AR 71854 F 870.772.5703
whatleysign.com

Client: **Ta Molly's** Desc: **Eterior Neon** Salesman: **Tye Whatley** Artist: **Cortney Crawford** Date: **09/08/2022**

206 W Commerce St, Bryant, AR





X_____

Scale = 128:1

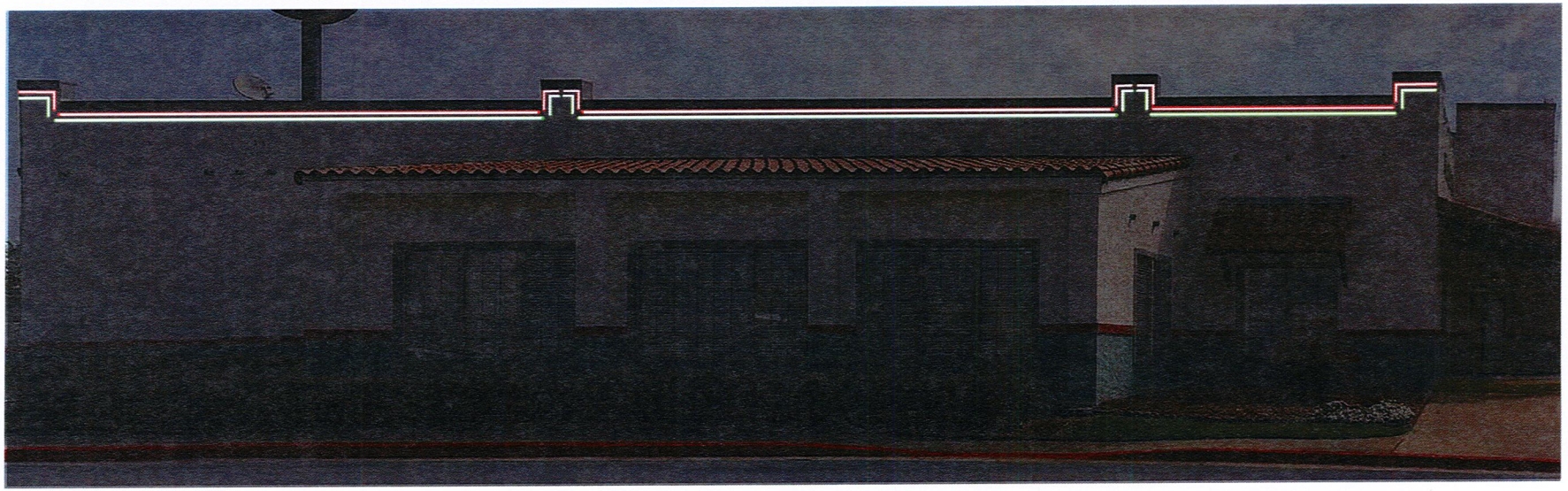
Details:

WHATLEY SIGNCOMPANY
1109 E 51st Street P 870.773.2139
Texarkana, AR 71854 F 870.772.5703
whatleysign.com

Client: **Ta Molly's** Desc: **Eterior Neon** Salesman: **Tye Whatley** Artist: **Cortney Crawford** Date: **09/08/2022**

206 W Commerce St, Bryant, AR





X_____

Scale = 128:1

Details: **Border Neon**

WHATLEY
SIGNCOMPANY
1109 E 51st Street P 870.773.2139
Texarkana, AR 71854 F 870.772.5703
whatleysign.com

Approved 1 Sign
9/30/2022 CL

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

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Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 09/29/2022

Sign Co. or Sign Owner

Name ARKANSAS SIGN & NEON
Address 8525 DISTRIBUTION DR
City, State, Zip LITTLE ROCK AR 72209
Phone 501.562.3942
Email Address lora@arkansassign.com

Property Owner

Name EXXON
Address 22755 I-30,
City, State, Zip Bryant, AR 72022
Phone
Email Address

GENERAL INFORMATION

Name of Business EXXOM
Address/Location of sign 22755 I-30, BRYANT AR
Zoning Classification

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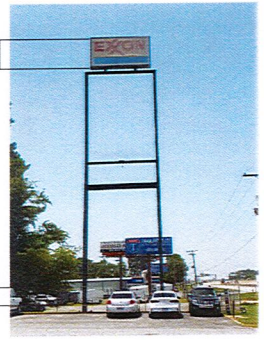
READ CAREFULLY BEFORE SIGNING

I Lora A. Rand, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

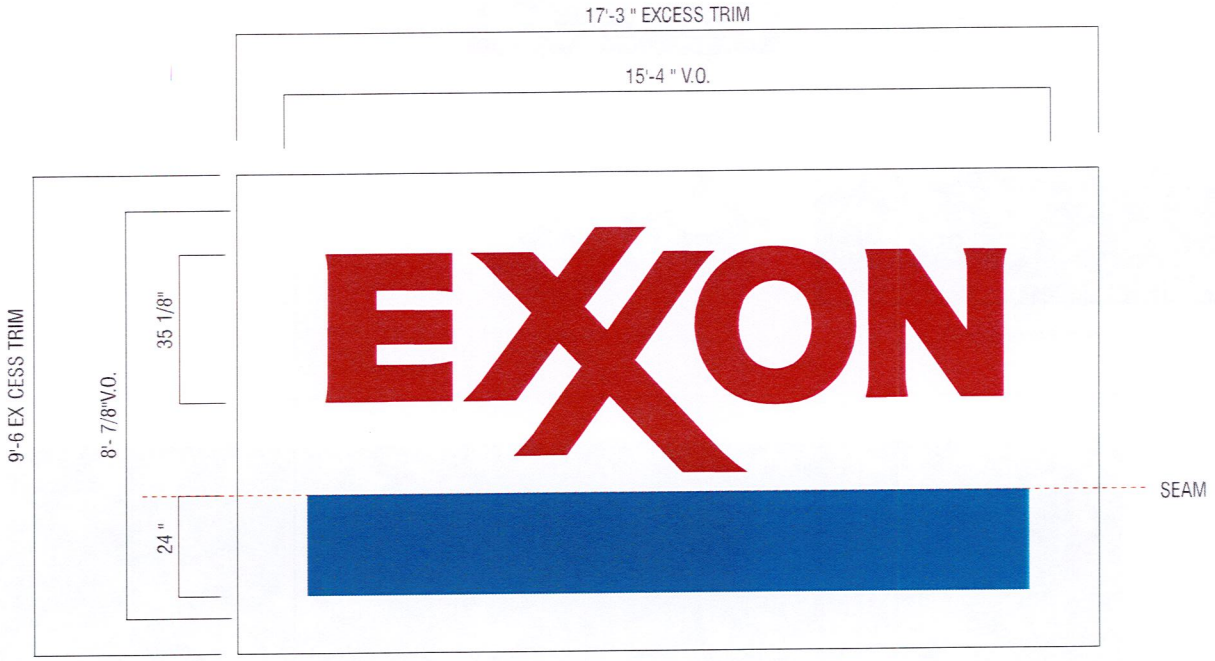


SCALE: 3/32 '' = 1'-0"
PROPOSED



EXISTING
CONDITIONS

SCALE: 3/32 '' = 1'-0"



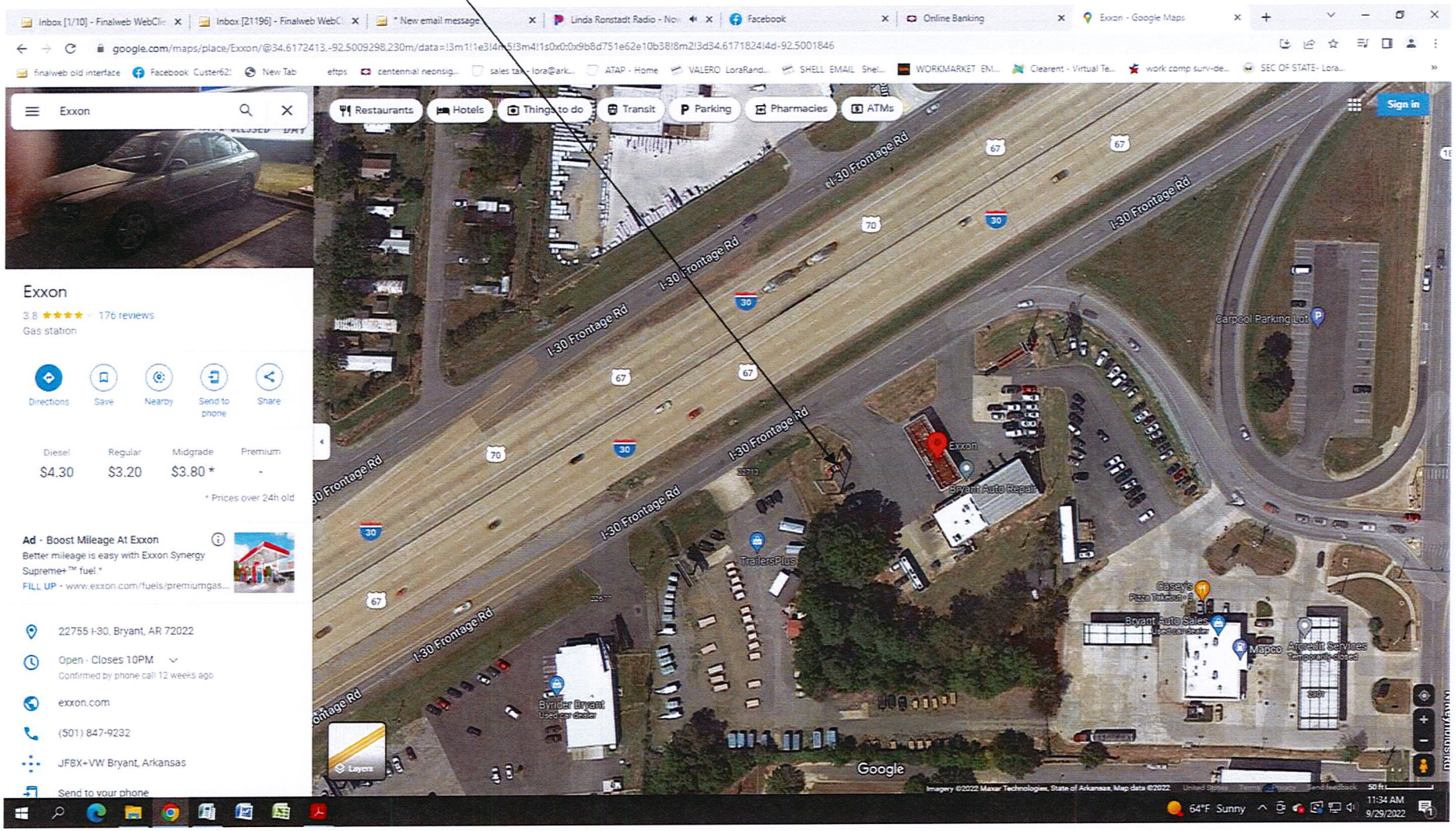
140 SF FLEX FACE

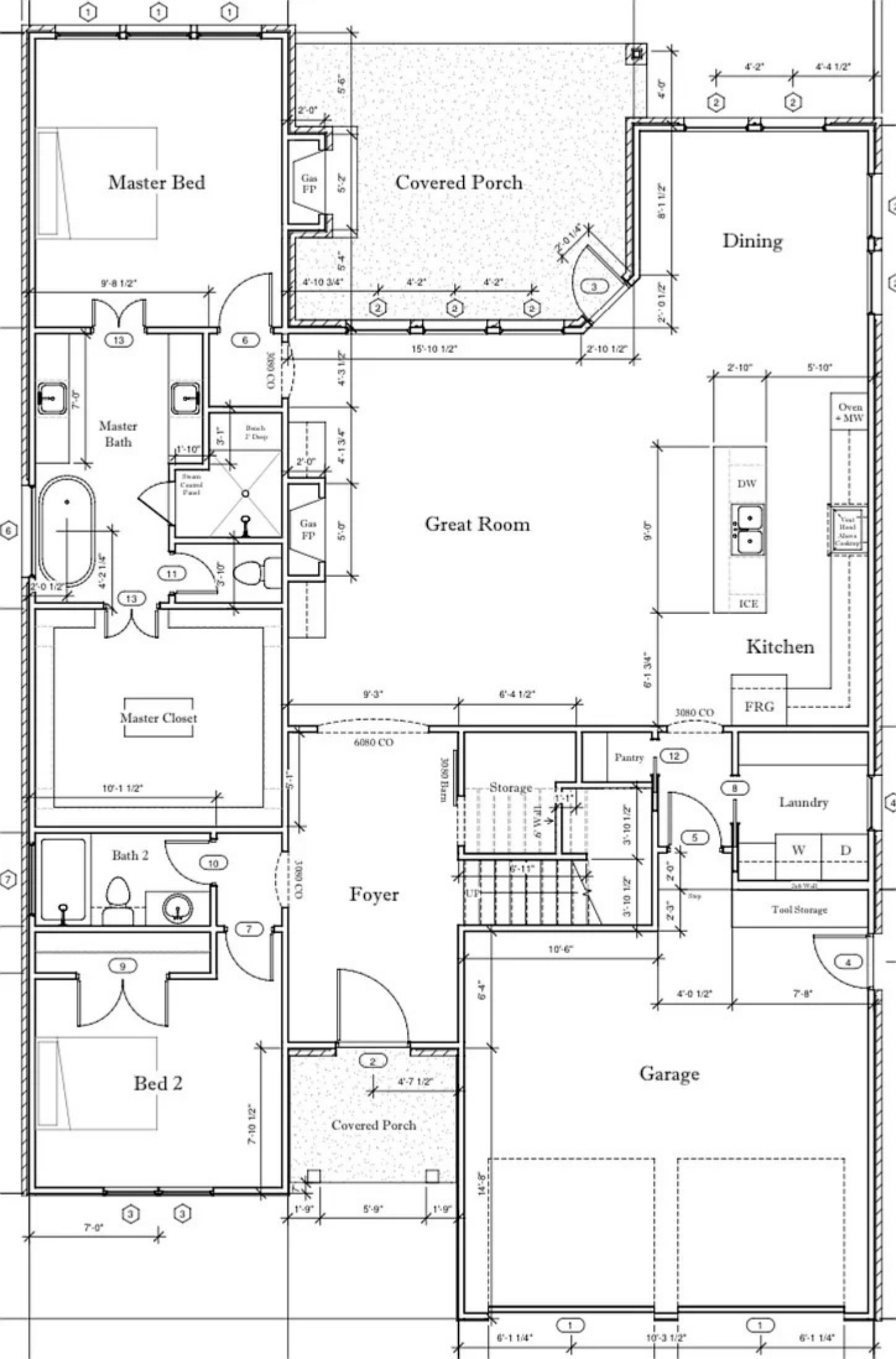
APPROVED BY:_____ DATE:_____
110 VOLT 15 AMP. CIRCUIT TO BE PROVIDED AND PAID FOR BY CUSTOMER.

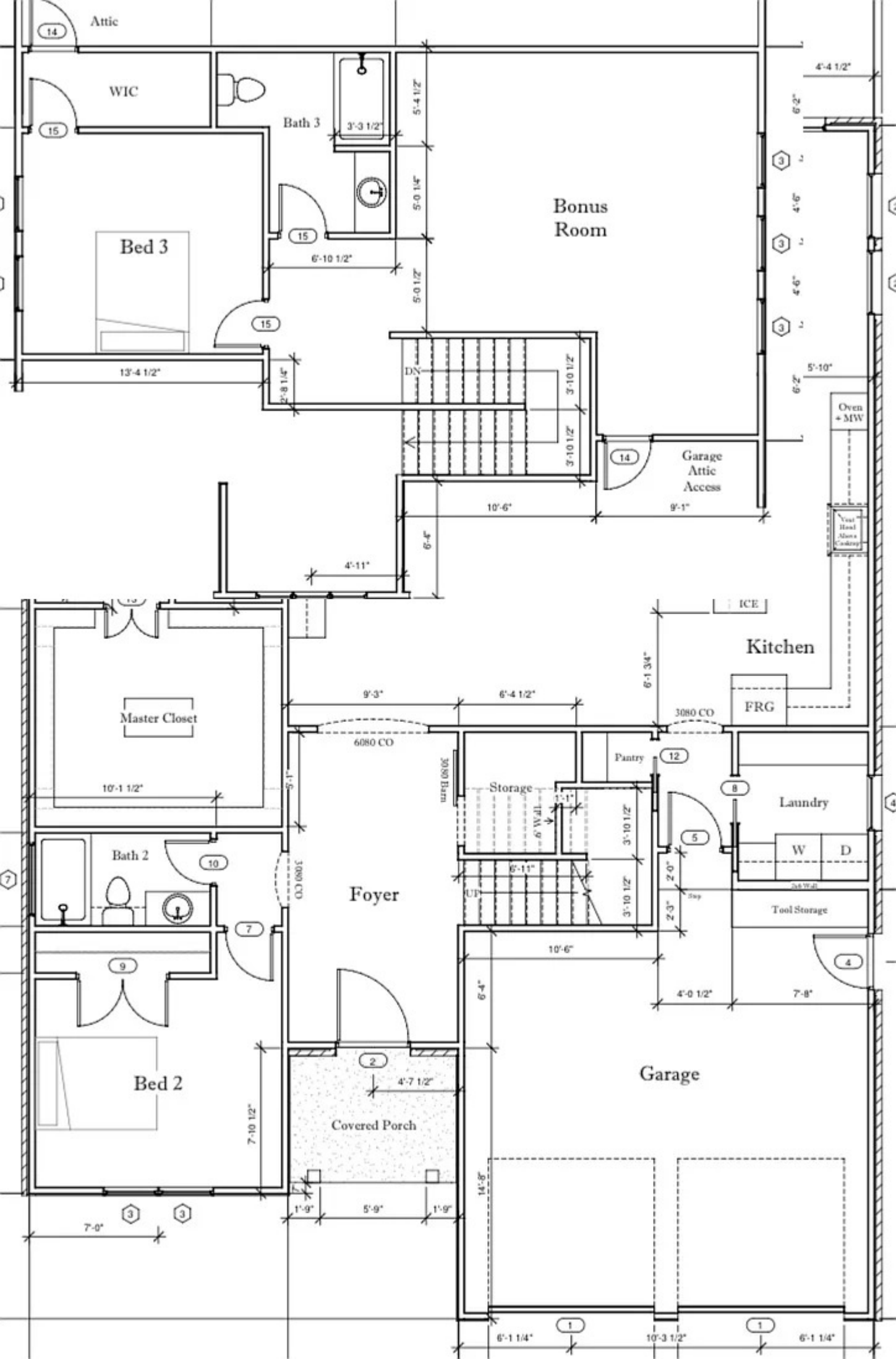
CUSTOMER:			DRAWING NO.
EXXON BRYANT ARKANSAS			202214801
SALESMAN: CHUCK CRAWFORD	SCALE: PROPORTIONAL	DRAWN BY: DSM	DATE: 8-14-2022

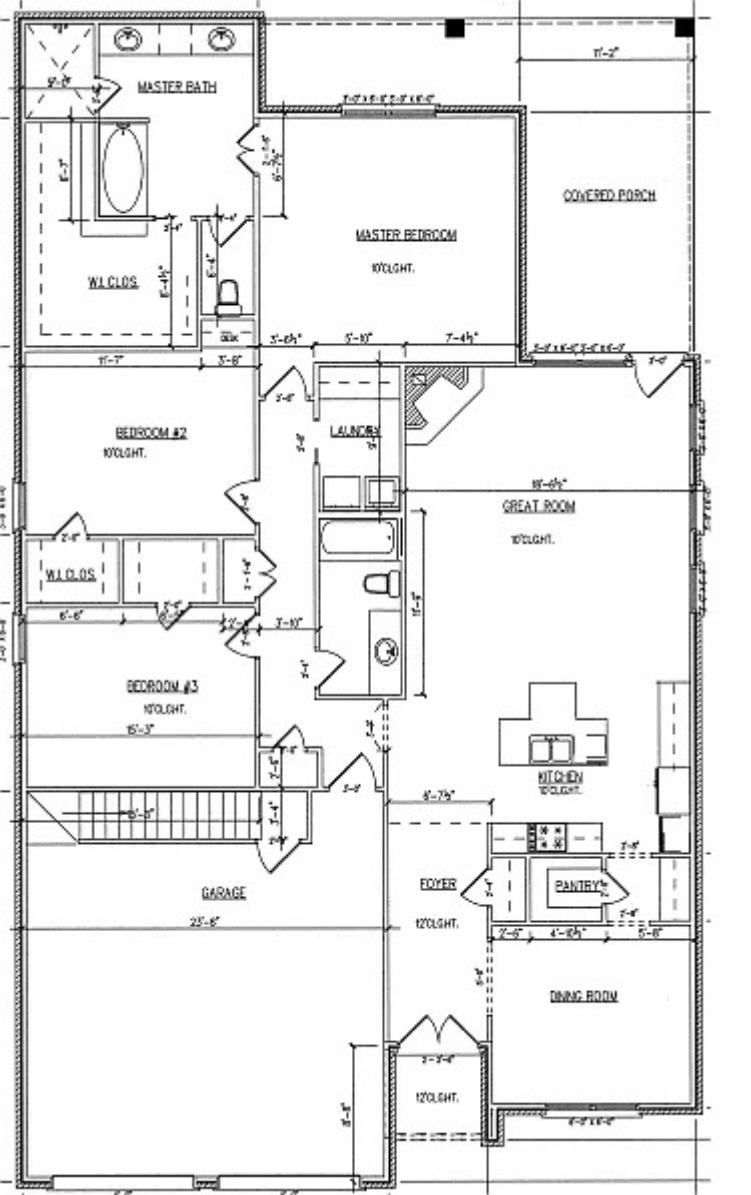
WILLIAMS Sign Company Inc.
821 Vance Ave, Memphis, TN 38126 PH : 901-523-1595 FAX: 901-527-7372

EXISTING SIGN ALTERATION




Master Bed
Covered Porch
Gas FP
Dining
Master Bath
Great Room
Gas FP
Steam Control Panel
Bench 2' Deep
Oven + MW
DW
ICE
Kitchen
FRG
Master Closet
Pantry
Storage
Laundry
W
D
Bath 2
Foyer
Tool Storage
Bed 2
Covered Porch
Garage
3080 CO
6080 CO
3080 Barn
9'-8 1/2"
15'-10 1/2"
2'-10 1/2"
5'-10"
9'-3"
6'-4 1/2"
10'-1 1/2"
10'-6"
4'-0 1/2"
7'-8"
4'-7 1/2"
7'-10 1/2"
7'-0"
1'-9"
5'-9"
14'-8"
6'-1 1/4"
10'-3 1/2"


Attic
WIC
Bath 3
Bonus Room
Bed 3
DN
Garage Attic Access
Oven + MW
ICE
Kitchen
FRG
Master Closet
Pantry
Storage
Laundry
W
D
Bath 2
Foyer
Tool Storage
Bed 2
Covered Porch
Garage
13'-4 1/2"
6'-10 1/2"
10'-6"
9'-1"
4'-11"
9'-3"
6'-4 1/2"
6080 CO
3080 CO
10'-1 1/2"
6'-11"
4'-0 1/2"
7'-8"
4'-7 1/2"
7'-10 1/2"
7'-0"
1'-9"
5'-9"
14'-8"
6'-1 1/4"
10'-3 1/2"


MASTER BATH
MASTER BEDROOM
10'CLGHT.
COVERED PORCH
W.I CLOS.
BEDROOM #2
10'CLGHT.
LAUNDRY
GREAT ROOM
10'CLGHT.
W.I CLOS.
BEDROOM #3
10'CLGHT.
KITCHEN
10'CLGHT.
GARAGE
FOYER
12'CLGHT.
PANTRY
DINING ROOM
12'CLGHT.










19



List of Allowable Facade Materials to be used for single family residential in the Hilltop Landing PUD include: Brick, Hardyboard, Stucco, Masonry, Stone, Manufactured Stone, and Glass.

This Instrument Prepared By: ***Recording Information:***

EILBOTT LAW
DON A. EILBOTT · ATTORNEY, PLC
Post Office Box 23870 • Little Rock AR 72221-3870
Telephone 501.225.2885 • eilbottlaw.com

BILL OF ASSURANCE
COVENANTS AND RESTRICTIONS
WOODLAND PARK,
AN ADDITION TO THE CITY OF LITTLE ROCK, ARKANSAS

KNOW ALL BY THESE PRESENTS:

WHEREAS, the undersigned, **WOODLAND PARK OF LITTLE ROCK, LLC, an Arkansas Limited Liability Company**, by Robert Graham Smith, its authorized member, duly authorized by appropriate resolution of the members of **WOODLAND PARK OF LITTLE ROCK, LLC,** an Arkansas Limited Liability Company, hereinafter referred to as "Developer," being the owner of certain real property situated in Pulaski County, Arkansas, more particularly described as set forth on the attached Exhibit A, hereinafter referred to as "Property", and desiring to protect the buyers and owners of the Property against undesirable uses of said residential property that would detract from a neighborhood, have caused the following covenants and restrictions hereinafter referred to collectively as the "Bill of Assurance" to be filed for record for the purpose of creating requirements and procedures for a neighborhood which will be attractive to home buyers, sound for investors, and a credit to the community; and

WHEREAS, Developer intends to subdivide and plat the Property into lots and easements for ingress and egress and drainage and utilities; and

WHEREAS, developer has caused to be made a plat hereinafter referred to as “the "Plat", filed herewith in the Plat Record Book _____ at Page _____, prepared by Joe White and Associates , a Registered Professional Engineer, dated _____day of _____, 2022, showing a survey made by Benson John Leboeuf, a Registered Land Surveyor, bearing a certificate of approval executed by the City of Little Rock Planning Commission and showing thereon the metes, bounds and dimensions of the Property which Developer now is desirous of subdividing and platting into lots and mutual easements for the owners thereof; and

WHEREAS, Developer desires to provide for the use of property for the highest of residential uses and to restrict its uses as such;

NOW THEREFORE, Developer hereby adopts the following covenants stated herein and agrees that the stated covenants shall apply to all of the property now platted as described below as covenants running with the land:

1. SCOPE OF APPLICATION.

These covenants shall apply in their entirety to the area now known and described as:

LOTS 1-40, BLOCK 1
LOTS 1-5, BLOCK 2
TRACTS A-F

THE SOUTH 2.2649 ACRES OF TRACT 11, THE WEST ½ OF TRACT 13, THE WEST ½ OF TRACT 16 AND 2.30 ACRES BEING A PART OF TRACT 10 AND TRACT 14 OF ASBURY ACRES SUBDIVISION

Woodlands Park, an Addition to the City of Little Rock, Arkansas, as shown on the recorded plat thereof. Developer shall retain the right to add or delete property to or from this Bill of Assurance, subject to the approval of the Little Rock Planning Commission and any other required laws, regulations or approvals.

2. LAND USE AND BUILDING TYPES.

No lot in the addition shall be used for any other purpose than single-family

residential as that term is defined in the City of Little Rock Zoning Ordinance and Regulations. No building shall be erected, altered, placed or permitted to remain on any lot other than one single-family dwelling and each such dwelling shall have a private garage for the storage of not less than two automobiles, unless otherwise approved by the Architectural Control Committee hereinafter designated and hereinafter referred to as "the Committee." No business or commercial use shall be carried on or permitted in any structure or in any portion of this addition in keeping with the general plan to develop this property for the highest class of residential occupancy. Garages shall have a minimum of 400 square feet with minimum outside dimensions of 20 x 20 feet.

3. DWELLING SIZE AND QUALITY.

Size, design, location and site development of dwellings and permitted accessory buildings in this subdivision shall be subject to the prior approval of the Committee. The Committee shall approve no plans which provide for construction of a residence a on lot in this addition having less than One Thousand Two Hundred, (1200), square feet of heated and livable floor space, measured by outside wall dimensions for any single level residence; and One Thousand Seven Hundred, (1700), square feet of heated and livable floor space, measured by outside wall dimensions for any multi-level residence and having less than Four Thousand, (4000), square feet of heated and livable floor space, measured by outside wall dimensions for any multi-level residence.

All dwellings placed upon the premises shall be of new construction and shall be of the highest-class workmanship and best quality materials. Approval of plans for construction of principal residences and permitted accessory buildings shall not be unreasonably withheld by the Committee based upon the style of design of the exterior of such proposed principal residences as long as the same are designed, in whatever style, in accordance with the highest standards of architectural design.

4. ARCHITECTURAL CONTROL.

No residence, permitted accessory building, fence, wall or other structure shall be constructed, created or maintained upon any lot in the addition, nor shall any modification, alteration or change be made in the exterior of any existing residence

or permitted accessory building until the construction, grading and drainage and landscape plans and specifications showing the nature, size, shape, dimensions, materials and location of the same shall have been submitted to and approved, in writing, in advance of commencement of any construction or by the Committee, or the Committee has waived its right in the manner hereinafter provided.

5. THE ARCHITECTURAL CONTROL COMMITTEE.

The Architectural Control Committee shall initially be R. Graham Smith, Scott Hurley, and Randy James

The Committee's approval or disapproval as required in this Bill of Assurance shall be in writing in such form as designated by the Committee from time to time.

Any property owner in the addition seeking to obtain the required approval or any plans for construction, modification, alteration or improvements on property shall submit the same in two (2) copies to the Chair of the Architectural Control Committee. A written receipt from the Chair of the Committee shall be prima facie evidence of the delivery of such plans and the date thereof. If, within thirty (30) days from the date of delivery of such plans to a member of it, the Committee has not set forth in writing to the owner any deficiencies in the proposal for such construction or alteration or improvements, then the owner may proceed with such construction or alterations as though affirmative approval had been received from the Committee.

Notice shall be given to the owner, at the address for the owner indicated in the submission or as otherwise indicated by the owner, in writing to the Committee, by certified mail with return receipt requested. If deficiencies are noted and called to the owner's attention in the proposed plans within the thirty (30) day period following delivery thereof to the Committee by the owner, the owner shall under no circumstances proceed with any such construction or alteration until such deficiencies have been corrected to the satisfaction of the Committee. The Committee shall have full power to enforce the provisions and restrictions herein by an action for an injunction as fully as though they were the owners of property in the subdivision and whether or not they are actually owners of property in the subdivision.

6. GENERAL CONDITIONS AND REQUIREMENTS

a. No noxious or offensive activity and no commercial activity of any type, kind or nature shall be carried on upon any lot in this addition. Further nothing shall be done thereon which may be or become an annoyance or nuisance to the neighborhood. No trampolines or basketball goals shall be placed or erected on any driveway or street.

b. No manufactured housing, trailer, mobile home, tent, shack, or barn shall be erected on any lot in this subdivision, temporary or permanently, except for temporary use by construction contractors only. Same must be removed within ten, (10), days of completion of construction. Tents used for recreational purposes of a short duration shall not be considered as excluded by this provision.

c. No signs, billboards, posters or advertising devices shall be permitted upon any of the lots in this addition except that the owner of each lot may place house numbers and the owner's name upon his or her dwelling; however, each letter thereof shall be no more than 6 inches in height and 6 inches in width; and owners may place a sign not more than 4 square feet in size advertising the property for sale should it be offered for sale by the owners.

d. No animals, livestock or poultry of any kind shall be raised, bred or kept on any lot, except that dogs, cats or other household pets may be kept provided that they are not kept, bred or maintained for commercial purposes.

e. No trash, ashes or other refuse may be thrown or dumped on any of the lots in the addition.

f. No building materials of any kind or character shall be placed or stored upon any lot in the addition until the owner is ready to commence construction of the improvements requiring such materials and then only with the approval of the Committee. Building materials shall not be placed or stored in the street or between the curb and property lines.

g. No privy, cesspool, septic tank field or disposal plant shall be installed or maintained on any lot in the addition, and all residences and permitted accessory buildings shall have the plumbing connected to the city sanitary sewer system.

h. All garages shall be finished inside and shall be fully enclosed with garage doors. Community mailboxes shall be utilized. All satellite type dishes or antennas must be smaller than thirty-six inches (36") in diameter and shall be located on the back half of the sides of the home or on the rear roof.

i. All driveways in the addition shall consist of a hard surface acceptable to the Committee.

j. No four wheelers, motorcycles, mail carts, dune buggies, golf carts, mobile homes, commercial vehicles, travel trailers, campers, boats, motors or trailers shall be kept on the lot or in the street adjacent to any lot except that such items may be stored or parked inside an enclosed garage or similar enclosure so screened with fencing or plant material as not to be visible from the street.

k. Grass, weeds and vegetation shall be kept mowed and cleared at regular intervals in the common areas by the Recreation Improvement District herein referenced so as to maintain the same in a neat and attractive manner. No debris shall be allowed to accumulate upon any lot. Dead trees, shrubs, vines and plants shall be promptly removed from each lot. The Committee shall have the right, privilege and option to cause necessary work to be done on any lots not meeting the requirements to remove dead trees, plants or other vegetation and debris from a lot, after ten days (10), notice in writing from the Committee to the owner and the Committee shall be entitled to a lien on such lot for the cost of such work.

l. Homes must be all brick, natural stone, cut stone, cultured stone, a combination thereof, HardiePlank®, or other approved masonry material on all elevations of the home, unless specifically approved by the Committee. Interior ceilings in general shall be no less than nine feet (9’) in height, subject to waiver by the Architectural Control Committee in cases of structural need or desired aesthetics.

m. Grass or sod shall be required to be on all four sides of the home, except river rock may be utilized on sides. Landscape or lawn sprinklers shall be required on all four sides of the residence. In addition, all landscaping plans shall be subject to approval of the Architectural Control Committee. The owner shall be responsible for obtaining all necessary approvals for any and all construction, future additions, decks, and any other applicable permits.

n. Roof materials shall be architectural shingles of muted earth tones or black, approved by the Committee.

o. All chimneys on exterior walls shall be covered in masonry material such as brick or stone.

p. Roof pitch shall be a minimum of eight (8) feet vertically and twelve, (12), feet horizontally, commonly referred to as 8/12.

q. RPZ valves and utility boxes if located in a front yard shall be incased within a flower bed and screened with bushes or flowers.

r. Gutters shall be utilized on all sides of the homes and piped to street and rear of property, as topography dictates.

s. Each builder shall be required to plant one tree in the front yard of each lot they purchase. The tree must be eight feet (8') tall, with a two (2")inch caliper, and approved by the Architectural Control Committee.

t. All roof penetrations shall be painted or colored to match roof shingles. Examples would include but not be limited to ventilation pipes and any other piping protruding from the roof line

7. BUILDING LOCATION.

No building shall be located on any lot nearer to the front, rear or side lot lines than the minimum building setback lines shown on the recorded plat.

Porches, steps, chimneys, window boxes and other portions of a permitted structure shall not project beyond the minimum setback line, but, except as herein limited, eaves and cornices may overhang the building setback lines. No building or permitted accessory building will be permitted or constructed nearer than five (5) feet to the rear property line of any lot. Swimming pools shall not be considered to be a "building" or "permitted accessory building" within the meaning of this section and may be constructed nearer to the rear lot line than the restriction on buildings.

8. DIVISION OF LOTS.

A "lot" as that word is utilized herein shall consist of a single numbered lot as shown on the Plat of the addition. No lot shown on the plat may be subdivided into more than one lot.

9. FENCING, ORNAMENTAL STRUCTURES AND WALLS.

No fences shall be erected on any portion of a lot between the line drawn across the front foundation or building line of the principal dwelling and intersecting the side lot lines and the front lot line. No fences composed principally of wire or metal shall be constructed on any portion of any lot. It is the intention of this covenant to require permitted fencing to be of a decorative nature and not solely utilitarian. Dog pens properly screened by walls, fences, or plantings may be constructed and maintained in the rear yard portion of any lot. Retaining walls, ornamental fences of less than 3 feet in height, and composed of brick, wood or natural stone construction may be permitted on a lot in the front portion as herein described and the front lot line. However, no other structure exceeding 3 feet in height shall be placed or permitted on the portion of any lot lying nearest to the abutting street and in front of a line extended across the front foundation line of the principal dwelling.

All retaining or similar walls must be approved in advance of construction by the Committee. Stone, brick to match residence, or straight split faced block to resemble cut stone of a brown or darker color may be acceptable. No angular, segmental walls or gray concrete color shall be permitted.

10. DEFINITION OF "PRINCIPAL DWELLING."

The term "principal dwelling," "residence" or "principal residence" as used herein shall refer to a residence meeting the requirements hereof and approved by the Committee for construction in the addition.

11. FACILITIES MULTIPURPOSE IMPROVEMENT DISTRICT

All owners shall become members of **CITY OF LITTLE ROCK PROPERTY OWNERS' MULTIPURPOSE IMPROVEMENT DISTRICT**

NO. 2022-005 (WOODLAND PARK SUBDIVISION), OF LITTLE ROCK, ARKANSAS; as set forth in the records of the office of Pulaski County Circuit and County Court and shall be bound by the Declaration, Bylaws and Covenants currently established with said District and those amended and executed hereafter. Membership shall be appurtenant to and may not be separated from ownership of any tract which is subject to assessment. All lots are a part of said District and are **SUBJECT TO A SPECIAL TAX ASSESSMENT TO REPAY ANY DEBT OF LITTLE ROCK PROPERTY OWNERS' MULTIPURPOSE IMPROVEMENT DISTRICT NO. 2022-005 (WOODLAND PARK SUBDIVISION), OF LITTLE ROCK, ARKANSAS;**

12. RECREATION MULTIPURPOSE IMPROVEMENT DISTRICT

All owners shall become members of the **LITTLE ROCK PROPERTY OWNERS' MULTIPURPOSE IMPROVEMENT DISTRICT NO. 2022-004 (WOODLAND PARK RECREATION DISTRICT), OF LITTLE ROCK, ARKANSAS** as set forth in the records of the office of Pulaski County Circuit and County Court and shall be bound by the Declaration, Bylaws and Covenants currently established with said District and those amended and executed hereafter. Membership shall be appurtenant to and may not be separated from ownership of any tract which is subject to assessment. All lots are a part of said District and are **SUBJECT TO A SPECIAL TAX ASSESSMENT TO REPAY ANY DEBT OF LITTLE ROCK PROPERTY OWNERS' MULTIPURPOSE IMPROVEMENT DISTRICT NO. 2022-004 (WOODLAND PARK RECREATION DISTRICT), OF LITTLE ROCK, ARKANSAS.**

No recorded easement shall be used by any company or person, other than the owner of the affected lot or lots, for any purpose other than those designated on the plat of the addition.

13. PERSONS BOUND BY THESE COVENANTS.

All persons or corporations who now own or shall hereafter acquire any of the lots in this addition shall be deemed to have agreed and covenanted with the owners of all other lots in this addition and with its or their heirs, successors and assigns to conform to and observe the restrictions, covenants and stipulations contained herein for a period of twenty-five (25) years from the date these are recorded, and these covenants shall thereafter automatically extend in effect for successive periods of

ten (10) years unless prior to the end of the original term or any successive term of the application hereof a majority of the then owners of lots in the addition agree to the amendment or removal of these covenants in whole or in part.

These covenants may be amended at any time by the owners of Eighty Percent (80%) of the lots in the addition. For purposes of same ownership shall not include any entity owning or holding a mortgage or other lien on any lot and each lot shall be entitled to only one vote regardless of value. A meeting for said purpose shall be called by the Committee upon request not less than Twenty- five Percent (25%) of said owners and notice of same shall be given to all lot owners by regular mail at their street address at least Thirty (30) days prior to the meeting. No changes in these covenants shall be valid unless and until the same shall be placed of record in the office of the Recorder of Pulaski County, Arkansas, duly executed and acknowledged by the requisite number of owners.

14. RIGHT TO ENFORCE.

The covenants, agreements and restrictions herein set forth shall run with the title to the lots in this addition and bind the present owners, their heirs, successors and assigns, future owners and their heirs, successors and assigns; all parties claiming by, through or under them shall be taken to hold, agree and covenant with the owners of other lots in the addition, their heirs, successors and assigns, as to the covenants and agreements herein set forth and contained. None shall be personally binding on any person, persons, or corporations except with respect to breaches committed during its, his or their holding of title to lots in the addition. Any owner or owners of lots in this Addition, shall have the right to sue for and obtain an injunction, prohibitive or mandatory, to prevent the breach of or to enforce the observance of any of the covenants, agreements or restrictions contained herein together with any other rights to which they might otherwise be entitled under the laws of the State of Arkansas. The invalidation of any one of these covenants, restrictions or agreements herein contained by the order of a court of competent jurisdiction shall in no way affect any of the other provisions hereof which will remain in full force and effect.

IN WITNESS WHEREOF, Woodland Park of Little Rock, LLC, has hereunto set its hand and seal this _____ day of _____, 2022.

WOODLAND PARK OF LITTLE ROCK, an Arkansas Limited Liability Company

By: _____
Robert Graham Smith, Managing Member

ACKNOWLEDGMENT

STATE OF ARKANSAS

COUNTY OF _____

On this day personally appeared before the undersigned, a Notary Public within and for the County and State aforesaid, duly qualified, commissioned and acting, the within named **Robert Graham Smith, Managing Member**, to me well known, who stated that he was the Managing Member of **Woodland Park of Little Rock, LLC,** an Arkansas limited liability company, and was duly authorized in his capacity to execute the foregoing instrument for and in the name and behalf of said limited liability company, and further stated and acknowledged that they had so signed, executed and delivered said foregoing instrument for the consideration, uses and purposes therein mentioned and set forth.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal this ___ day of _____, 2022.

_____
Notary Public

My Commission Expires:

_____

EXHIBIT A

THE SOUTH 2.2649 ACRES OF TRACT 11, THE WEST 1/2 OF TRACT 13, THE WEST 1/2 OF TRACT 16 AND 2.30 ACRES BEING A PART OF TRACT 10 AND TRACT 14 OF ASBURY ACRES SUBDIVISION, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF TRACT 11, ASBURY ACRES SUBDIVISION; THENCE S01°47'37"W, ALONG THE WEST LINE OF TAYLOR PARK SUBDIVISION, A DISTANCE OF 339.09' TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID WEST LINE S01°47'37"W-312.60'; THENCE S01°51'13"W-647.92'TO THE SOUTH EAST CORNER OF TRACT 16, ASBURY ACRES, SUBDIVISION; THENCE N87°37'16"W ALONG THESOUTH LINE OF SAID TRACT 16, A DISTANCE OF 339.04'; THENCE LEAVING SAID SOUTH LINE N01°49'38"E-443.09'; THENCE N55°52'34"W-300.59'; TO A POINT ON THE EASTERN RIGHT OF WAY LINE OF WOODLANDS TRAIL; THENCE ALONG SAID RIGHT OF WAY ALONG THE ARC OF A 330' RADIUS CURVE TO THE LEFT, HAVING AN ARC LENGTH OF 153.73' AND CHORD OF N15°04'57"E-152.35'; THENCE N01°48'44"E-208.32'; THENCE LEAVING SAID RIGHT OF WAY S87°56'09"E-219.21'; THENCE S87°48'36"E-339.15' BACK TO THE POINT OF BEGINNING. CONTAINING 9.7736 ACRES, MORE OR LESS.

OWNERSHIP/ZONE SEARCH

Date: October 3, 2022
File Number: 22-019284-050
Prepared For: Hope Consulting

Lenders Title Company has searched the records of the Real Estate Records of Saline County, Arkansas to determine the apparent ownership of property within 300 feet of the perimeter of the following described property as of September 19, 2022 at 8:00 a.m.

Part of the Southeast Quarter of the Southeast Quarter (SE1/4 SE1/4) and part of the Southwest Quarter of the Southeast Quarter (SW1/4 SE1/4), all in Section 9, Township 1 South, Range 14 West, in Saline County, Arkansas, and all being more particularly described as follows: Commencing at the Southeast corner of the said SE1/4 SE1/4 of Section 9, a found 2 1/2"aluminum cap in the pavement of Hilltop Road; thence N88°58'44"W 1348.12 feet to the point of beginning, a set 5/8" rebar and cap in Hilltop Road at the Southeast corner of the said SW1/4 SE1/4; thence N88°58'44"W 1348.12 feet to a found 2 1/2" aluminum cap in Hilltop Road at the Southwest corner of the SW1/4 SE1/4; thence along the West line of the SW1/4 SE1/4, N02°26'23"E 822.04 feet to a set 5/8" rebar and cap in Miller Road; thence leaving the West line N89°43'25"E 444.91 feet to a set 5/8" rebar and cap which lies 4.67 feet South from an existing fence post; thence N02°03'54"E 465.39 feet to a set 5/8" rebar and cap on the North line of the SW1/4 SE1/4; thence, along the North Line of the SW1/4 SE1/4, N89°43'25"E126.07 feet to a found 1/2" rebar and cap at the Northwest corner of the City of Bryant tract as described in Saline County Document 1997-10432; thence leaving the North Line, along the Perimeter of the City of Bryant tract for the following courses: S01°17'55"E 99.70 feet to a found 1/2" rebar and cap; thence S89°42'44"E 100.02 feet to a found 1/2" rebar and cap; thence North 01 degrees 08 minutes 50 seconds West 100.68 feet to a found 1/2 inch rebar and cap on the North Line of the SW1/4 SE1/4; thence leaving the City of Bryant tract, along the North Line of the SW1/4 SE1/4 , N89°43'25"E 635.47 feet to a found 1/2" pipe at the Northwest corner of the SE1/4SE1/4; thence along the North line of the SE1/4 SE1/4, S89°29'36"E 1038.39 feet to a set 5/8 rebar and cap at the Northwest corner of the East Quarter of the SE1/4SE1/4; thence leaving the North line, along the West line of the East Quarter of the SE1/4 SE1/4, S01°40'36"W 667.10 feet to a found 1/2" rebar and cap at the Northeast corner of the Holt Trust Tract as described in Saline County Document 06-005696; thence N88°37'00"W 167.18 feet to a found 1/2" rebar and cap at the Northwest corner of the Holt Trust Tract; thence N87°08'56"W 167.49 feet to a found 1/2" rebar at the Northeast corner of the Wolf tract as described in Saline County Document 04-011378; thence N89°53'39"W 329.90 feet to a found 5/8" rebar at the Northwest corner of the Wolf Tract; thence S80°01'09"W 365.88 feet to the West line of the SE1/4 SE1/4; thence along the West line of the SE1/4SE1/4, S00°27'34"W 590.29 feet to the Point of Beginning, enclosing 50.589 acres and subject to the existing rights of way of Hilltop and Miller Roads, and also subject to existing easements and rights of way of record.

Following is a list of apparent owners of property within 300 feet of the perimeter of the above described property as reflected by the records of the Real Estate Records of Saline County, Arkansas:

Debra K. Smith
3104 Hilltop Road
Alexander, AR, 72002

Danny M. Garrett
5315 MIller Road
Alexander, AR, 72002

Gregory & Starla R. Morgan
5401 Miller Road
Bryant, AR, 72022

Anthony Niel II and Jeaneen Niel
5423 Miller Road
Bryant, AR, 72022

Jeff Wood
5607 MIller Road
Bryant, AR, 72022

Charles W. Lindsey
3011 Hilltop Road
Bryant, AR, 72022

Frances R. Thompson
126 Chambers Point Unit B
Hot Springs, AR, 71913

Travis M and Brittany R. Harris
5606 MIller Road
Alexander, AR, 72002

City of Bryant
210 Southwest Third Street
Bryant, AR, 72022

Joseph E. Fureigh
3139 E Snow Lane
Alexander, AR, 72002

Dixie Rumbaugh
2913 Hilltop Road
Alexander, AR, 72002

Dorothy C. Bartlett
2809 Hilltop Road
Alexander, AR, 72002

Thomas A & Frances A. Young
2715 Hilltop Road
Bryant, AR, 72022

19 Hickory Hills Circle
Little Rock, AR, 72212

Robert M and Debbie B Wolf
2404 Hilltop Road
Alexander, AR, 72002

Jean Paul George Chatagneau Jr and Dayra A. Chatagneau
2312 Hilltop Road
Alexander, AR, 72002

Erik G and Megan R Relford
2236 Hilltop Road
Alexander, AR, 72002

Jonathan H and Bricin E Martin
5501 Lombard Road
Alexander, AR, 72002

Troy W & Maria L. Vaughn
5611 Lombard Road
Bryant, AR, 72022

This Ownership/Zone Search is intended for the exclusive use of the addressee for informational purposes only. Lenders Title Company is not expressing or attempting to express an opinion as to the validity of the title to the above described property or property noted as being within 300 feet thereof (collectively referred to as "the property"), the accuracy of the addresses, nor as to the validity of any interests or encumbrances, both recorded and unrecorded, that pertain to the property. While Lenders Title Company believes that the information stated above is accurate, no assurances are made nor is any liability assumed by Lenders Title Company for any incorrect information stated herein or omitted herefrom. For assurances as to the title to the property, addressee should obtain a title insurance commitment/policy.

Sincerely,

Lenders Title Company
Arkansas License No. IA-82
By: Ryan T. Harrell
Title Agent License Number: 16170328

AFFP

Notice is hereby given that a

Affidavit of Publication

STATE OF ARKANSAS } SS
COUNTY OF SALINE }

, being duly sworn, says:

That she is Kristi Finley of the The Saline Courier, a daily newspaper of general circulation, printed and published in Benton, Saline County, Arkansas; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

October 25, 2022

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Kristi Finley

Subscribed to and sworn to me this 25th day of October 2022.

Julie Allbritton, Business Manager, Saline County, Arkansas

My commission expires: February 22, 2023

JULIE ALLBRITTON
Notary Public - Arkansas
Saline County
Commission # 12386497
My Commission Expires Feb 22, 2032

01118380 00153191 501-315-0024

Hope Consulting Inc (28)
117 South Market Street
Benton, AR 72015

Notice is hereby given that a Public hearing will be held on monday, NOVEMBER 14, 2022 at 6:00 PM at the bryant city office complex, 210 SW 3rd St., Bryant, AR 72022 for the purpose of public comment on a REZONE request on behalf Nxt GEN Homes, LLC at the corner of miller and hilltop more particularly described as follows: Part of the Southeast Quarter of the Southeast Quarter (SE1/4 SE1/4) and part of the Southwest Quarter of the Southeast Quarter (SW1/4 SE1/4), all in Section 9, Township 1 South, Range 14 West, in Saline County, Arkansas, and all being more particularly described as follows: Commencing at the Southeast corner of the said SE1/4 SE1/4 of Section 9, a found 2 1/2"aluminum cap in the pavement of Hilltop Road; thence N88°58'44"W 1348.12 feet to the point of beginning, a set 5/8" rebar and cap in Hilltop Road at the Southeast corner of the said SW1/4 SE1/4; thence N88°58'44"W 1348.12 feet to a found 2 1/2" aluminum cap in Hilltop Road at the Southwest corner of the SW1/4 SE1/4; thence along the West line of the SW1/4 SE1/4, N02°26'23"E 822.04 feet to a set 5/8" rebar and cap in Miller Road; thence leaving the West line N89°43'25"E 444.91 feet to a set 5/8" rebar and cap which lies 4.67 feet South from an existing fence post; thence N02°03'54"E 465.39 feet to a set 5/8" rebar and cap on the North line of the SW1/4 SE1/4; thence, along the North Line of the SW1/4 SE1/4, N89°43'25"E126.07 feet to a found 1/2" rebar and cap at the Northwest corner of the City of Bryant tract as described in Saline County Document 1997-10432; thence leaving the North Line, along the Perimeter of the City of Bryant tract for the following courses: S01°17'55"E 99.70 feet to a found 1/2" rebar and cap; thence S89°42'44"E 100.02 feet to a found 1/2" rebar and cap; thence North 01 degrees 08 minutes 50 seconds West 100.68 feet to a found 1/2 inch rebar and cap on the North Line of the SW1/4 SE1/4; thence leaving the City of Bryant tract, along the North Line of the SW1/4 SE1/4 , N89°43'25"E 635.47 feet to a found 1/2" pipe at the Northwest corner of the SE1/4SE1/4; thence along the North line of the SE1/4 SE1/4, S89°29'36"E 1038.39 feet to a set 5/8 rebar and cap at the Northwest corner of the East Quarter of the SE1/4SE1/4; thence leaving the North line, along the West line of the East Quarter of the SE1/4 SE1/4, S01°40'36"W 667.10 feet to a found 1/2" rebar and cap at the Northeast corner of the Holt Trust Tract as described in Saline County Document 06-005696; thence N88°37'00"W 167.18 feet to a found 1/2" rebar and cap at the Northwest corner of the Holt Trust Tract; thence N87°08'56"W 167.49 feet to a found 1/2" rebar at the Northeast corner of the Wolf tract as described in Saline County Document 04-011378; thence N89°53'39"W329.90 feet to a found 5/8" rebar at the Northwest corner of the Wolf Tract; thence S80°01'09"W365.88 feet to the West line of the SE1/4 SE1/4; thence along the West line of the SE1/4SE1/4, S00°27'34"W 590.29 feet to the Point of Beginning, enclosing 50.589 acres and subject to the existing rights of way of Hilltop and Miller Roads, and also subject to existing easements and rights of way of record.

Request has been made to rezone from R-2 to PUD (residential).FOr information please contact Hope Consulting, Inc. at 501-315-2626.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Erik G & Megan R Retford
2236 Hilltop Rd
Alexander, AR 72002

9590 9402 6368 0296 6650 38

2. Article Number *(Transfer from service label)*

7021 2720 0002 [illegible]

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Erik Retford

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

2236 Hilltop Rd
Alexander AR 72002

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Charles W Lindsey
3011 Hilltop Rd
Bryant, AR 72022

9590 9402 6368 0296 6651 20

2. Article Number *(Transfer from service label)*

7021 2720 0002 1190 9096

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Richard Lindsey

C. Date of Delivery 10-22-22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 [illegible]ic Return Receipt

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Debra K Smith
3104 Hilltop RD
Alexander, AR 72002

9590 9402 6368 0296 6650 14

2. Article Number *(Transfer from service label)*

7021 2720 0002 1190 8990

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery 10/21/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Registered Mail Restricted Delivery
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- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Complete items 1, 2, and 3.
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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dixie Rumbaugh
2913 Hilltop Rd
Alexander, AR 72002

9590 9402 6368 0296 6651 68

2. Article Number *(Transfer from service label)*

7021 2720 0002 1190 9140

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature]

☑ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery
10/21/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

City of Bryant
210 Southwest Third St.
Bryant, AR 72022

9590 9402 6368 0296 6651 44

2. Article Number *(Transfer from service label)*

7021 2720 0002 1190 9126

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature]

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*
Charlotte Rue

C. Date of Delivery
10/24/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature]

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Robert M & Debbie B Wolf
2404 Hilltop RD
Alexander, AR 72002

9590 9402 6368 0296 6652 36

2. Article Number *(Transfer from service label)*

7021 2720 0002 1191 0382

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery 10/2/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☒ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
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- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dayra A & Jean Paul
George Chatagneau Jr.
2312 Hilltop RD
Alexander, AR 72002

9590 9402 6368 0296 6652 12

2. Article Number *(Transfer from service label)*

7021 2720 0002 1191 0375

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery 10/2/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Gregory A Starla R Morgan
5401 Millar RD
Bryant, AR 72022

9590 9402 6368 0296 6650 83

2. Article Number *(Transfer from service label)*

7021 2720 0002 1190 9065

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Starla Morgan ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Starla Morgan | C. Date of Delivery 10/2/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Troy W & Maria L Vaughn
5611 Lombard Rd
Bryant, AR 72002

9590 9402 6368 0296 6650 69

2. Article Number *(Transfer from service label)*
7021 2720 0002 1190 9041

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery
10-24-22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Travis M & Brittany R Harris
5606 Miller Rd
Alexander AR 72002

9590 9402 6368 0296 6651 37

2. Article Number *(Transfer from service label)*
7021 2720 0002 1190 9119

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery
10/22/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ nsured Mail
- ☐ nsured Mail Restricted Delivery over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 ic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Thomas A & Frances L Young

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Thomas A. Young ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery
Thomas A. Young 10/22/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No



U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Hot Springs National, AR 71913

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $3.25
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60
Total Postage and Fees $7.85

0315 10
Postmark Here
BENTON POST OFFICE 72015
OCT 20 2022
10/20/2022

Sent To: Frances R Thompson
Street and Apt. No., or PO Box No.: 126 Chambers Point Unit B
City, State, ZIP+4®: Hot Springs AR 71913

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0002 1190 9102

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Alexander, AR 72002

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60
Total Postage and Fees $7.85

0315 10
Postmark Here
BENTON POST OFFICE 72015
OCT 20 2022
10/20/2022

Sent To: Joseph E Furleigh
Street and Apt. No., or PO Box No.: 3139 E Snow Lane
City, State, ZIP+4®: Alexander, AR 72002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0002 1190 9133

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Alexander, AR 72002

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60
Total Postage and Fees $7.85

0315 10
Postmark Here
BENTON POST OFFICE 72015
OCT 20 2022
10/20/2022

Sent To: Danny M Garrett
Street and Apt. No., or PO Box No.: 5315 Miller Rd
City, State, ZIP+4®: Alexander, AR 72002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0002 1190 9058

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Alexander, AR 72002

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60
Total Postage and Fees $7.85

0315 10
Postmark Here
BENTON POST OFFICE 72015
OCT 20 2022
10/20/2022

Sent To: Jonathan H & Bricin E Martin
Street and Apt. No., or PO Box No.: 5501 Lombard Rd
City, State, ZIP+4®: Alexander, AR 72002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0002 1190 9034

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Alexander, AR 72002

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60
Total Postage and Fees $7.85

0315 10
Postmark Here
BENTON POST OFFICE 72015
OCT 20 2022
10/20/2022

Sent To: Joseph E Furleigh
Street and Apt. No., or PO Box No.: 3139 E Snow Lane
City, State, ZIP+4®: Alexander, AR 72002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0002 1190 9089

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Alexander, AR 72002

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60
Total Postage and Fees $7.85

0315 10
Postmark Here
BENTON POST OFFICE 72015
OCT 20 2022
10/20/2022

Sent To: Danny M Garrett
Street and Apt. No., or PO Box No.: 5315 Miller Rd
City, State, ZIP+4®: Alexander, AR 72002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0002 1190 9171

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Little Rock, AR 72212

OFFICIAL USE

Certified Mail Fee $4.00
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.60

0315 10
Postmark Here
BENTON POST OFFICE
OCT 20 2022

7021 2720 0002 1190 9171

7021 2720 0002 1190 9157

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

Alexander, AR 72002

OFFICIAL USE

Certified Mail Fee $4.00	0315
$	$3.25 10
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage $0.60	
$	
Total Postage and Fees $7.85	10/20/2022
$	

BENTON POST OFFICE 72015
OCT 20 2022
US

Postmark Here

Sent To
Dorothy C Bartlett

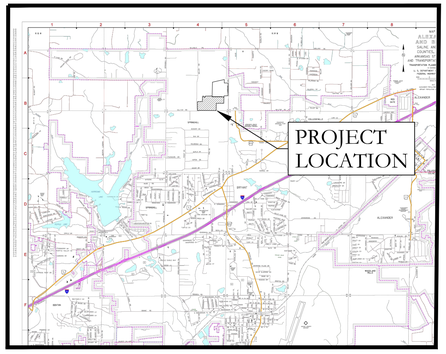
Street and Apt. No., or PO Box No.
2809 Hilltop Rd

City, State, ZIP+4®
Alexander, AR 72002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CONSTRUCTION PLANS
HILLTOP LANDING

HILLTOP ROAD & MILLER ROAD ,BRYANT, AR



VICINITY MAP

N

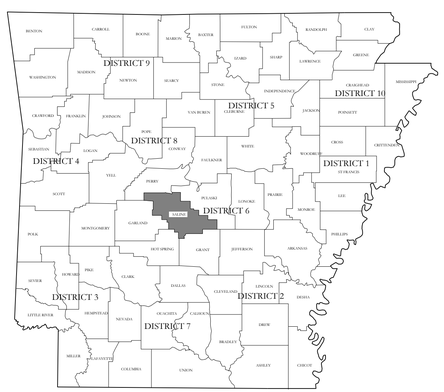
PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

DRAWING INDEX

SHEET NO.	TITLE
	PLAT
C-1.0	STREET PLAN
C-1.1	STREET PLAN
C-1.2	STREET PLAN
C-2.0	UTILITY PLAN
C-2.1	SEWER PLAN & PROFILE
C-2.2	SEWER PLAN & PROFILE
C-2.3	SEWER PLAN & PROFILE
C-3.1	STORM PLAN & PROFILE
C-3.2	STORM PLAN & PROFILE
C-3.3	STORM PLAN & PROFILE
C-3.4	STORM PLAN & PROFILE
C-4.0	TRENCH AND SPECIAL DETAILS
C-5.0	CIVIL SPECIFICATIONS
C-6.0	DETENTION
C-6.1	DETENTION
C-7.0	EROSION CONTROL PLAN
C-7.1	EROSION CONTROL PLAN



HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
A SUBDIVISION IN THE CITY OF BRYANT, AR
HILLTOP ROAD & MILLER ROAD, BRYANT, AR

DATE:	10/05/2022	C.A.D. BY:				DRAWING NUMBER:	
REVISED:		CHECKED BY:				20-1341	
SHEET:		SCALE:					
500	01S	14W	0	9	200	62	1762

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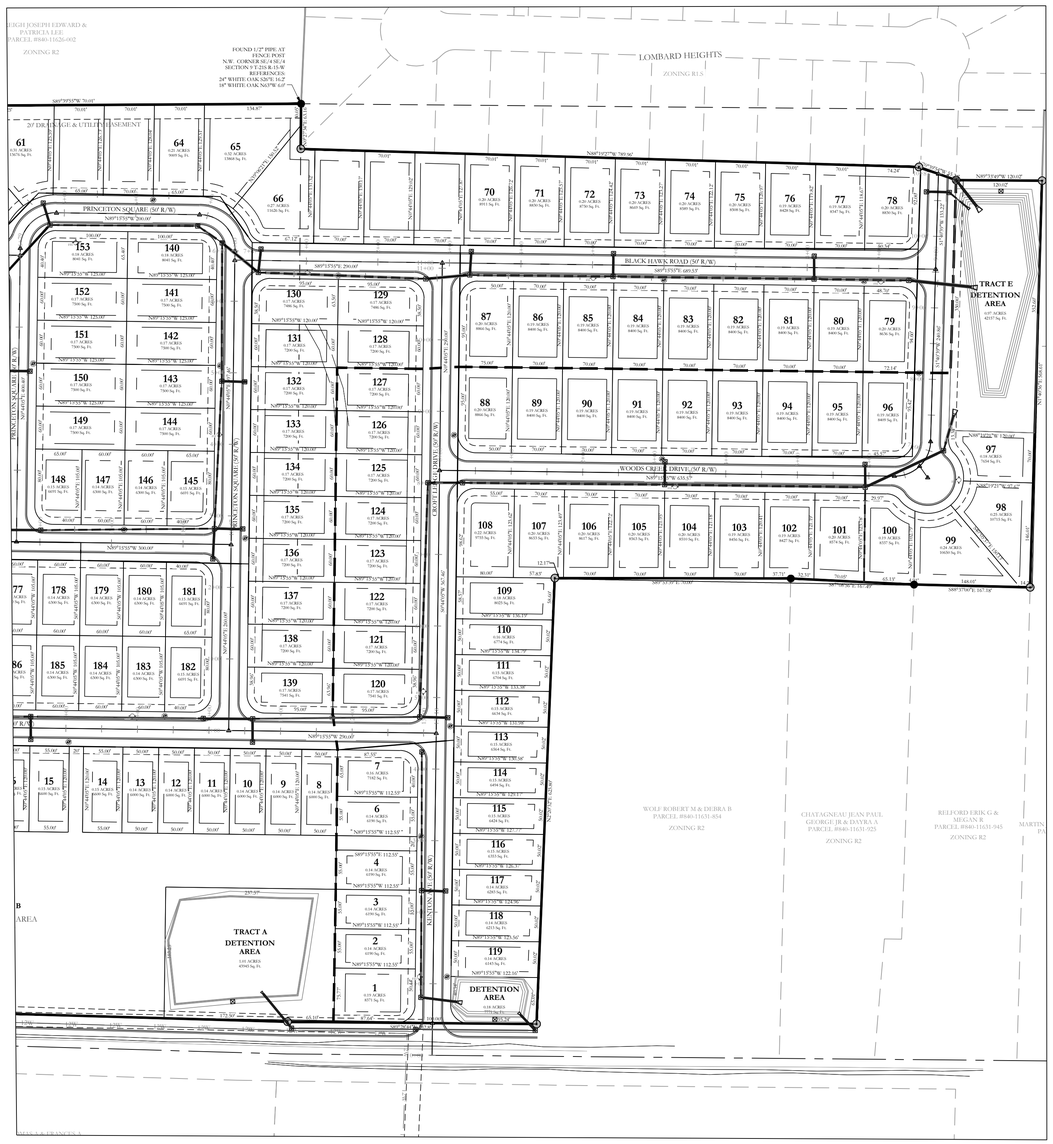

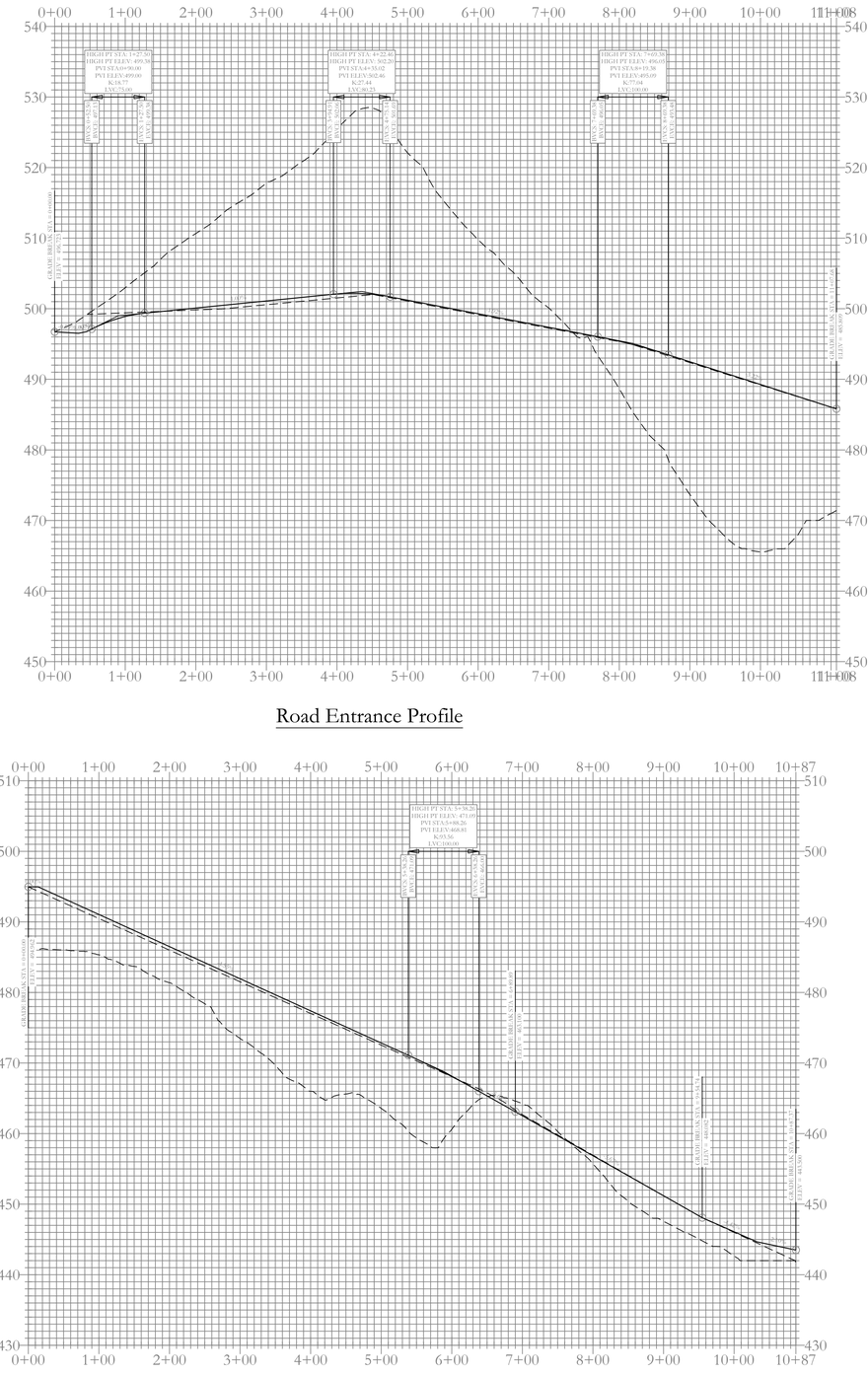

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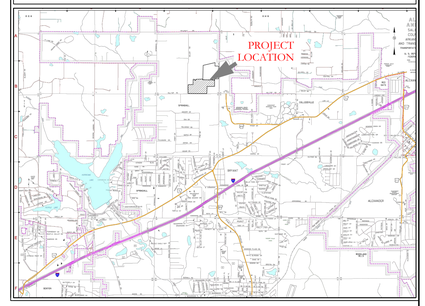
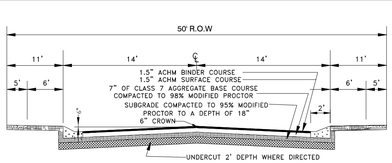
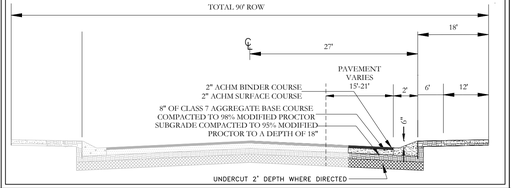


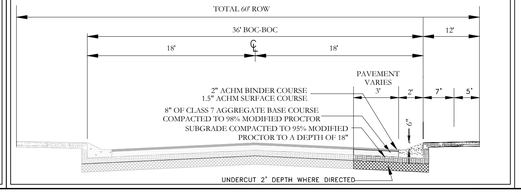
CITY OF BRYANT TYPICAL STREET CROSS SECTION



HILLTOP ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION



MILLER ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION



CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14048
WILLIAM W. McFADDEN

HDPE
RCP

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ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
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BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, ##### ZONE
BY GPS OBSERVATION

100 50 0 100

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
STREET LAYOUT
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-1.0	SCALE: 1" = 100'	

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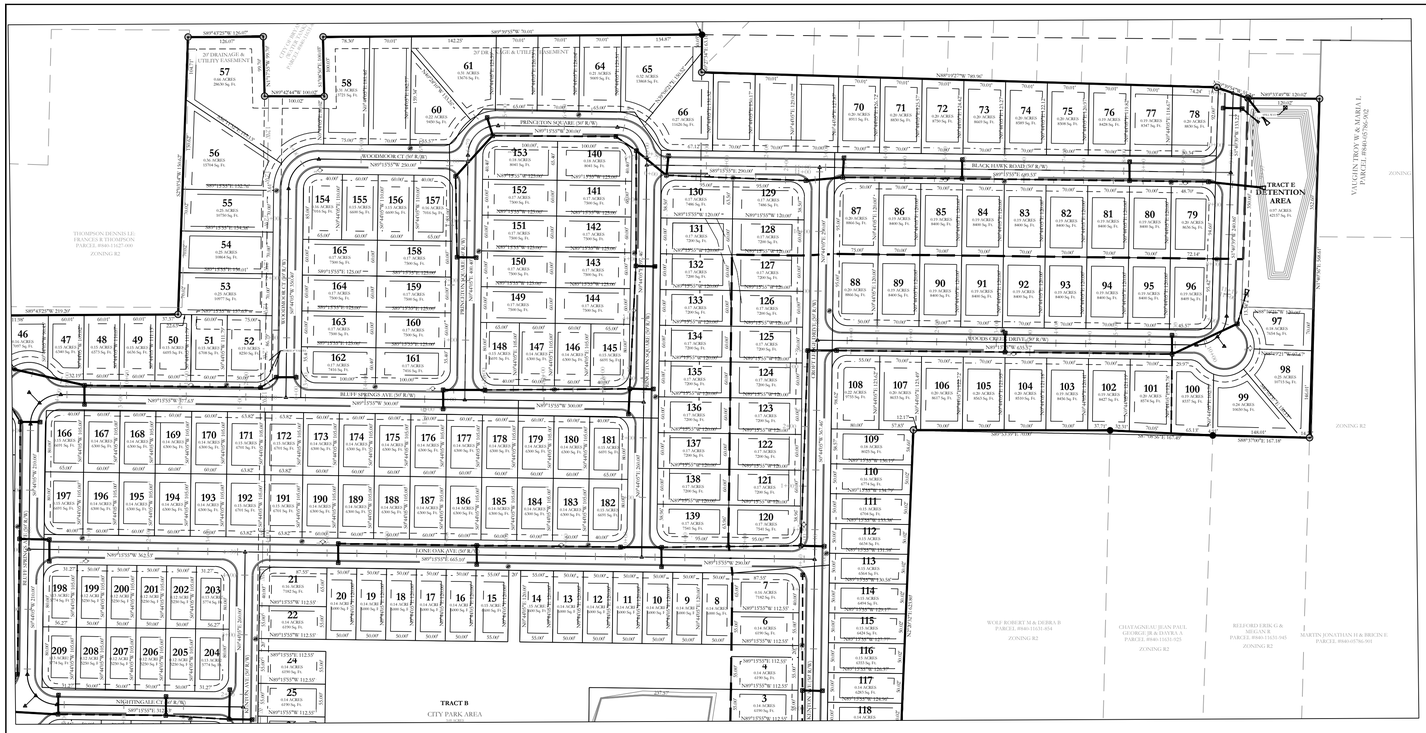
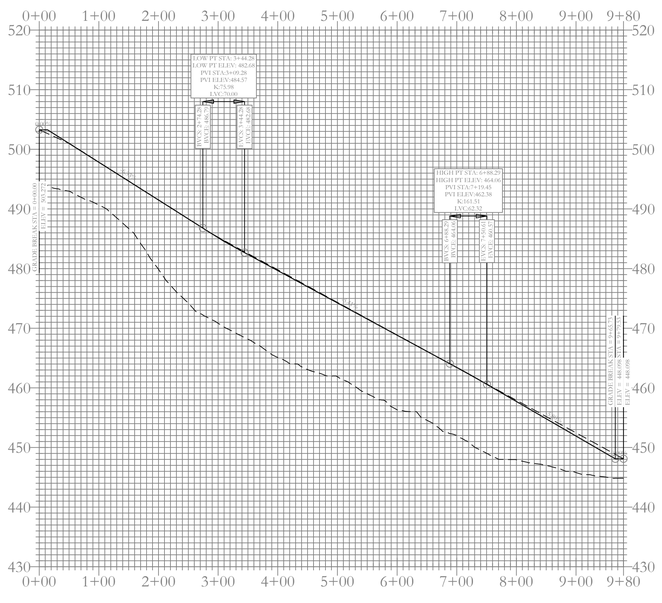
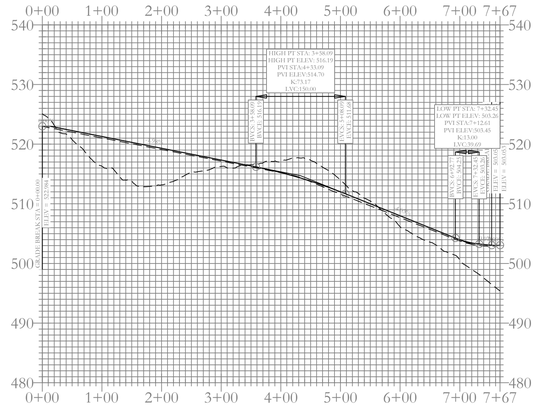




Road G Profile



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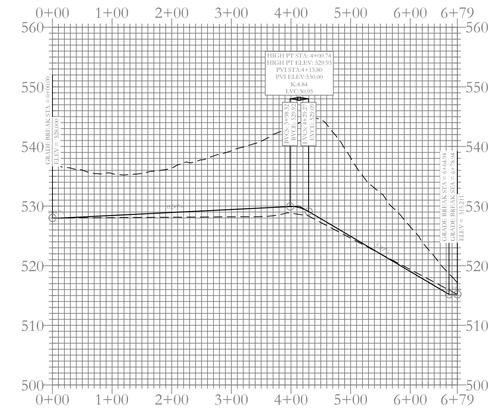

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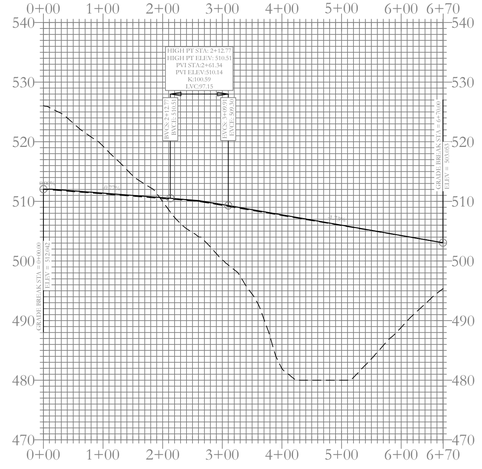
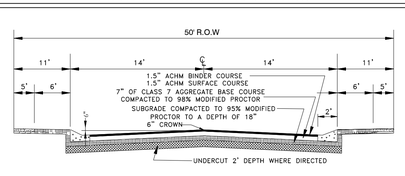
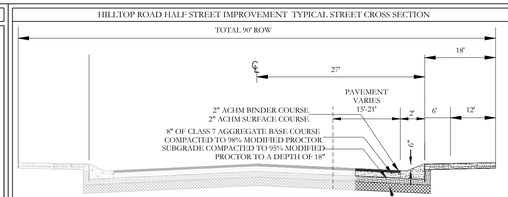


Road D Profile

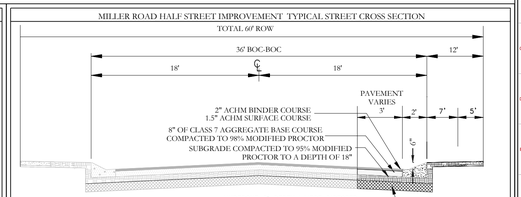
CITY OF BRYANT TYPICAL STREET CROSS SECTION



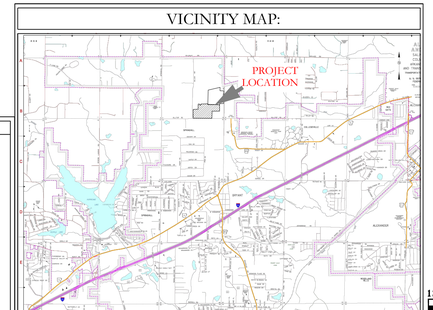
HILLTOP ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION



MILLER ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION



VICINITY MAP:



BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, ##### ZONE
BY GPS OBSERVATION

120 60 0 120

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14040
WILLIAM W. McFADDEN

HDPE
RCP

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FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

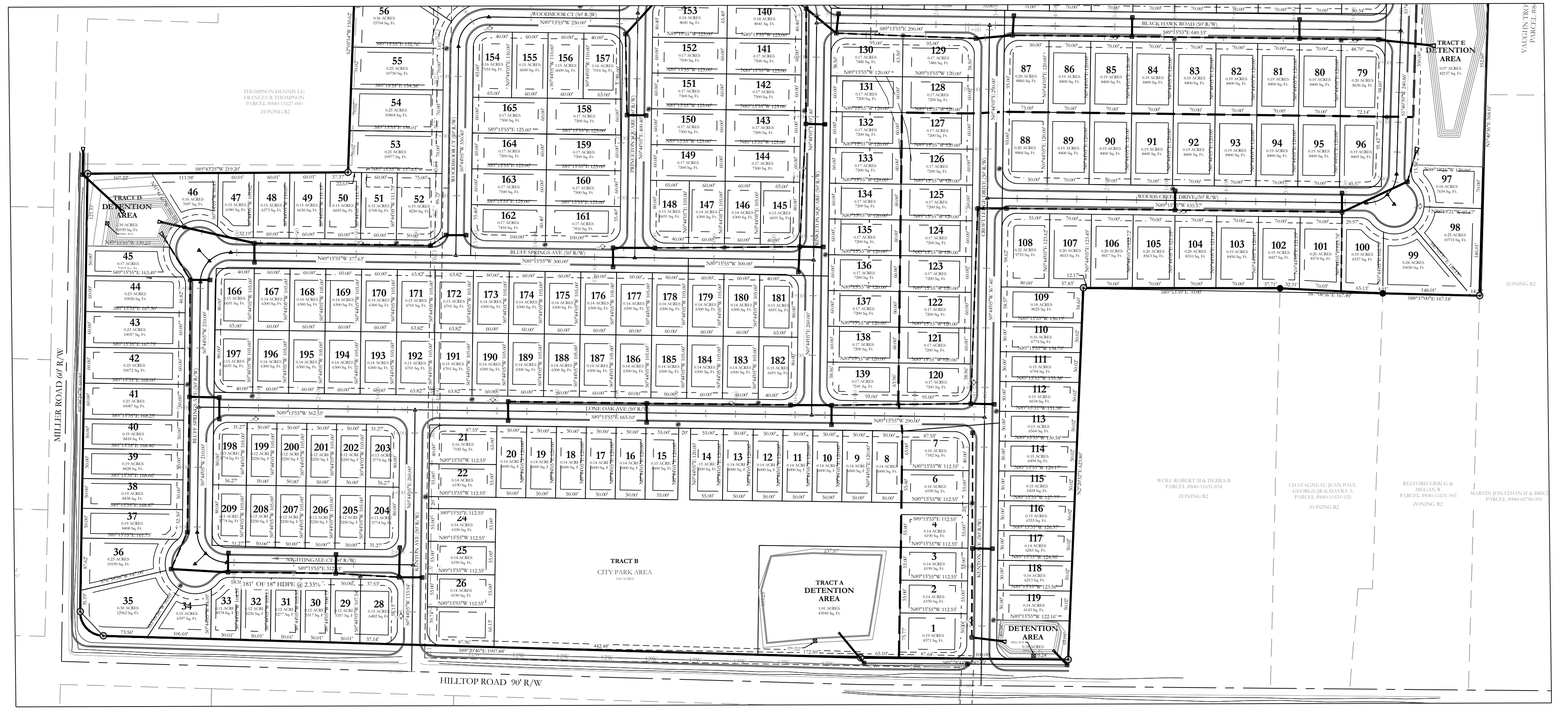
HILLTOP LANDING
STREET LAYOUT

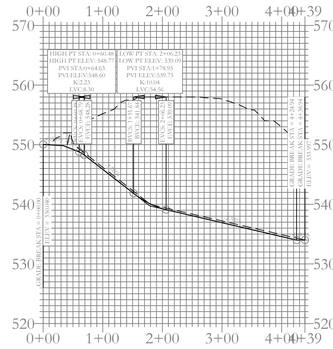
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-1.1	SCALE: 1" =120'	

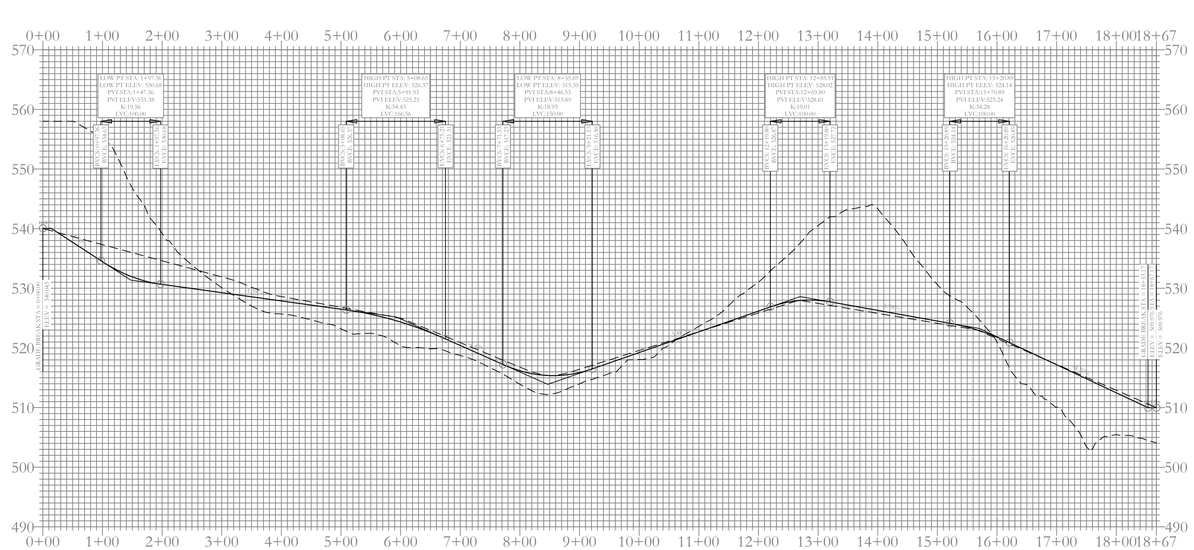
500	01S	14W	0	09	200	62	1762

K:\LAND PROJECTS 2004\SUBDIVISIONS\2020\20-1341 MILLER & HILLTOP\CIVIL\DWG\20-1341-CONSTRUCTION DRAWING-FULL PLANS 11-4-2022.DWG

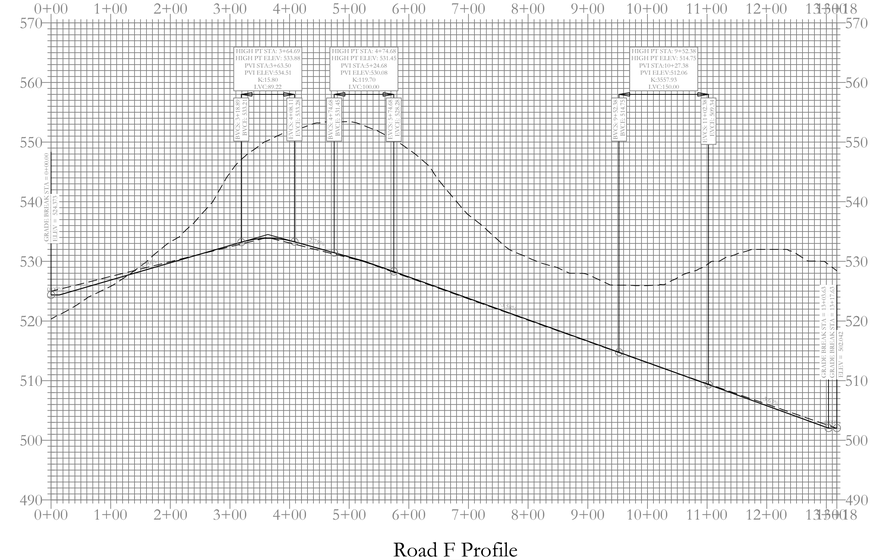




Road Entrance-2 Profile



Road E Profile



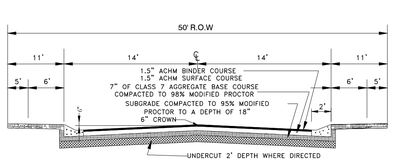
Road F Profile

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

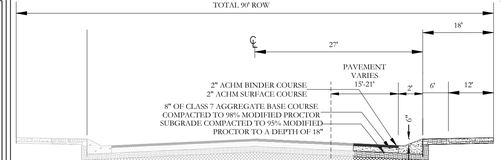
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14048
WILLIAM W. McFADDEN

HDPE
RCP

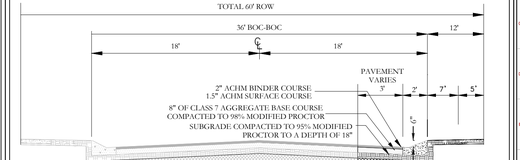
CITY OF BRYANT TYPICAL STREET CROSS SECTION



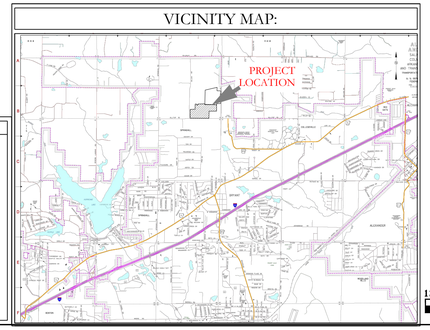
HILLTOP ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION

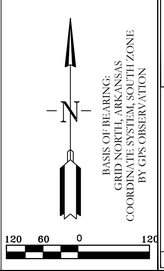


MILLER ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION



VICINITY MAP:





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FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
STREET LAYOUT

A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-1.2	SCALE: 1" = 120'	

500	01S	14W	0	09	200	62	1762

PLOTTED: 14-OCT-2022 11:48:18 BY: TYLER FULTON
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SUBDIVISION UTILITY PLAN

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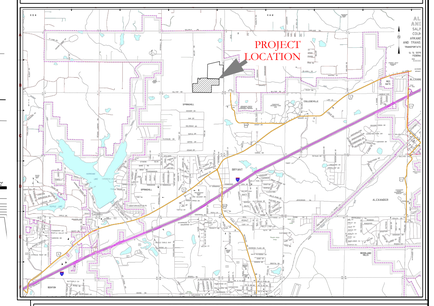

SEWER CONSTRUCTION NOTES:

1. ALL SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH BRYANT UTILITIES' "MASTER SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER AND SEWER UTILITIES" 2015 EDITION.
2. USE SDR-26 PVC SEWER PIPE EXCEPT WHERE INDICATED OTHERWISE ON THE PLANS OR WHERE DUCTILE IRON PIPE IS REQUIRED FOR COVER.
3. USE DUCTILE IRON PIPE WHERE 3' MINIMUM COVER CANNOT BE MAINTAINED, OR AS INDICATED.
4. ALL LONG-SIDE SEWER SERVICES SHALL BE SCHEDULE 40 OR SDR 21 PIPE.
5. FINISH GRADE HEIGHT ON MANHOLES NEED TO BE 4-6 INCHES ABOVE CURB LINE.
6. ALL MANHOLES WILL BE XYPEX.
7. THE LIFT STATION PROPERTY MUST BE DEEDED TO THE CITY OF BRYANT .
8. STATION MUST BE SET UP THROUGH JACK TYLER.
9. INSTEAD OF FLOATS, THERE WILL NEED TO BE PROBES.
10. SAFETY LIGHT MUST BE INSTALLED (NO WOOD) .
11. EVERYTHING IN WET WELL MUST BE STAINLESS STEEL INCLUDING CHAINS.
12. ALL LIFT STATIONS MUST HAVE WOVEN MONOFILAMENT GEOTEXTILE MATERIAL COVERING THE WHOLE PROPERTY OF THE LIFT STATION WITH THE GRAVEL ON TOP TO CONTROL WEEDS AND GRASS CAUSING PROBLEMS IN THE DRIVE TO THE LIFT STATION AND THE GATED AREA OF THE LIFT STATION.
13. LIFT STATION MUST HAVE A ROLLING GATE, OR GATES THAT SWING OUT FOR OUR JET VAC/ PUMP TRUCK TO GET INTO.
14. ALL PANELS MUST HAVE THE ROOF COVER AND MUST BE STEEL FRAME AND PANEL ROOF DESIGN COVERING 5 FEET ON ALL SIDES OF THE PANELS.
15. AT STORM DRAIN CROSSING OR ANY DRAINAGE DITCHES CROSSING, THE SEWER INFRASTRUCTURE WILL NEED TO BE STEEL INCASED, FIVE FEET ON EITHER SIDE.
16. NO STEPS IN MANHOLES.
17. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL BURIED UTILITIES PRIOR TO CONSTRUCTION.
18. ELECTRICAL CONDUIT COMING OUT OF THE CONTROL BOX WILL NEED TO BE 3". CONDUIT SHOULD BE PLUGGED WITH PUTTY NOT SPRAY IN FOAM TO RESTRICT GASES FROM ENTERING THE CONTROL BOX THAT CAUSES CORROSION.
19. THE LIFT STATION ROOF NEEDS TO BE METAL OR OTHER MATERIAL, NOT WOOD, ALSO THE LIGHT POLE CAN NOT BE WOOD.
20. RPZ WILL NEED TO BE IN A WEATHERPROOF BOX.

WATER CONSTRUCTION NOTES:

1. ALL WATER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH BRYANT UTILITIES' "MASTER SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER AND SEWER UTILITIES" 2015 EDITION.
2. LONG-SIDE WATER SERVICE LINES SHALL BE ENCASED, INCLUDING THE LINES BENEATH THE CUL-DE-SAC.
3. ALL SERVICE CROSSINGS SHALL BE 1" DRISCO SERVICE LINE ENCASED IN A 2" PVC SLEEVE.
4. ALL WATER MAIN FITTINGS SHALL BE MEGALUG BRAND MECHANICAL JOINT FITTINGS

HDPE

RCP

WATER LEGEND:

- DUAL WATER METERS
- SINGLE WATER METER
- GATE VALVE
- 45º FITTING
- 90º FITTING
- TEE FITTING
- CROSS FITTING
- FH — FIRE HYDRANT

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

80 40 0 80

STATE OF ARKANSAS
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NO. 14048
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FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING UTILITY PLAN

A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER: 20-1341
REVISED:		CHECKED BY:	
SHEET:	C-2.0	SCALE:	1" = 80'

500	01S	14W	0	09	200	62	1762

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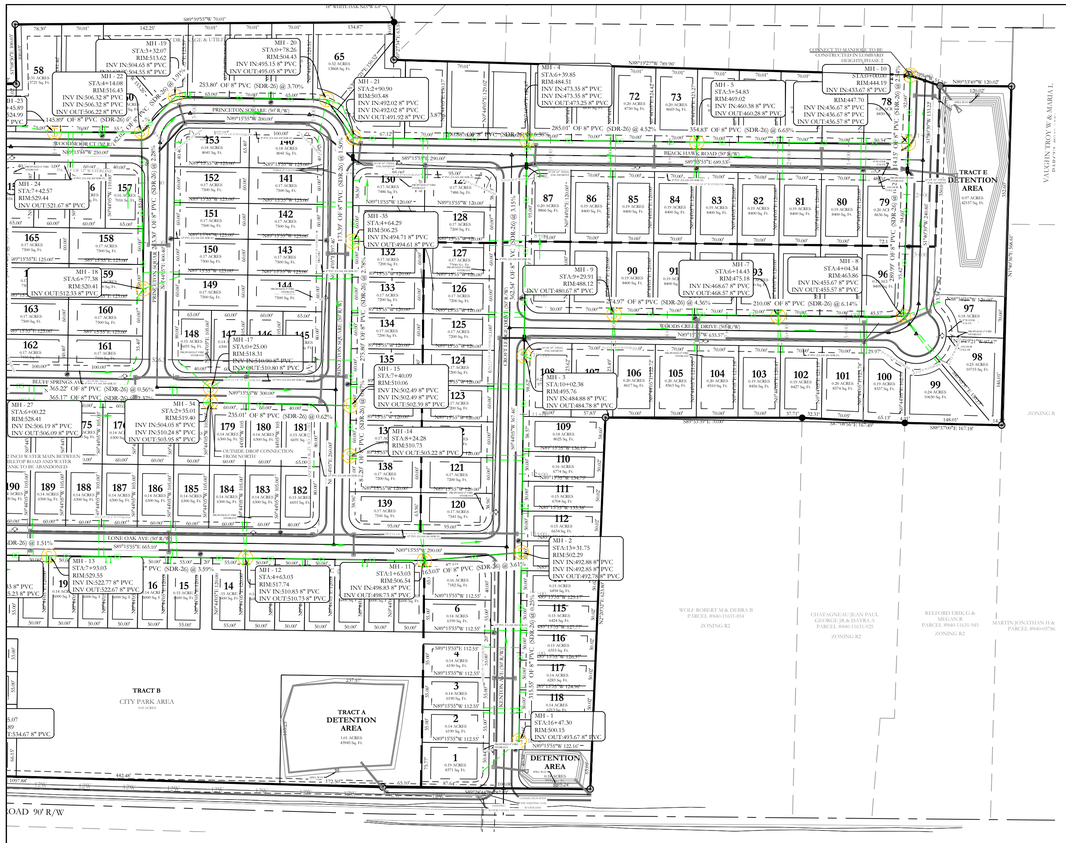
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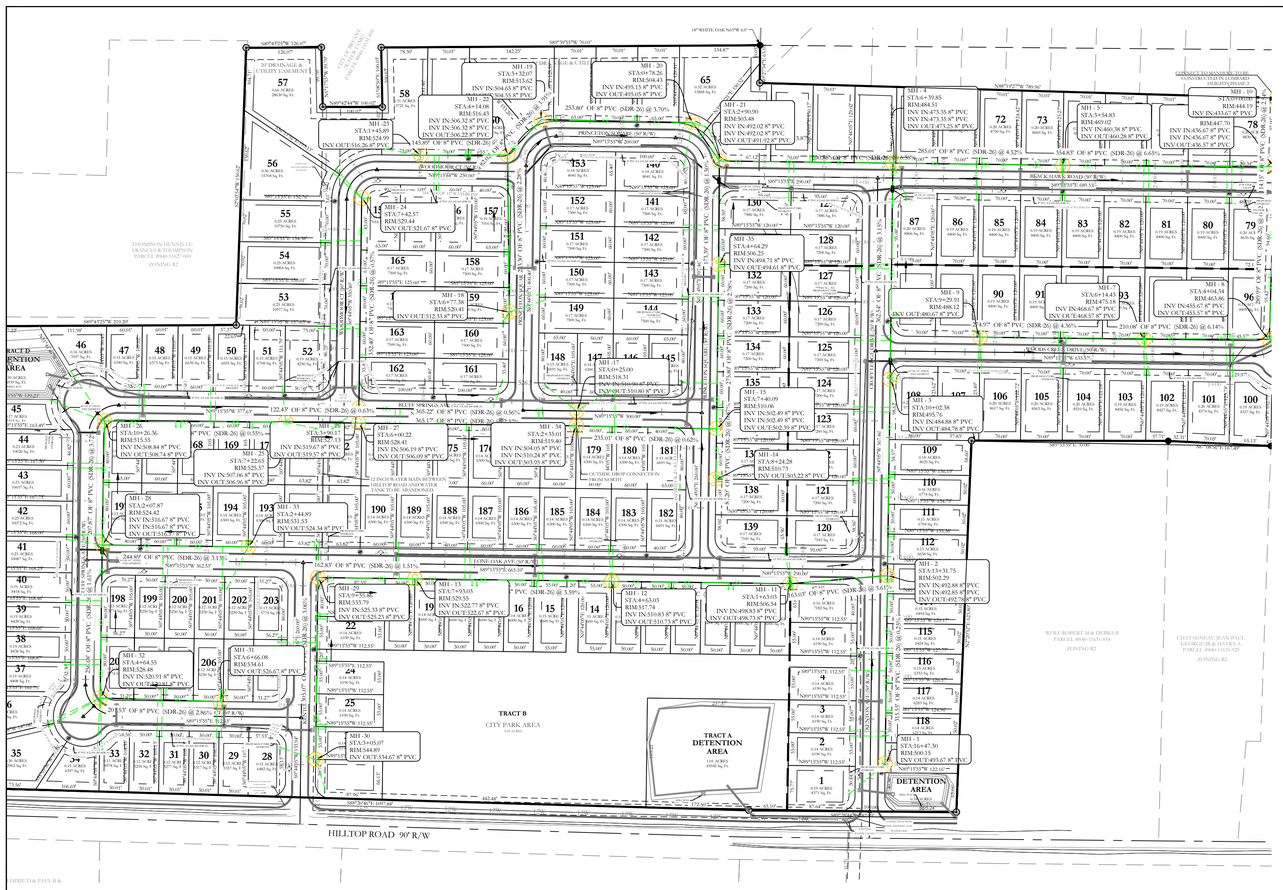
8" FL OUT = 492.78
8" FL IN = 492.88
8" FL IN = 492.85
8" FL IN = 473.35
8" FL OUT = 473.25
8" FL IN = 460.38
8" FL OUT = 460.28
8" FL IN = 456.67
8" FL IN = 436.67
8" FL OUT = 436.57
8" FL IN = 433.67
8" FL OUT = 433.57
8" FL IN = 492.02
8" FL IN = 492.02
8" FL OUT = 491.92
8" FL IN = 495.13
8" FL OUT = 495.03
8" FL IN = 504.65
8" FL OUT = 504.55
8" FL IN = 506.32
8" FL OUT = 506.22
8" FL IN = 494.71
8" FL OUT = 494.61
8" FL IN = 473.35
8" FL OUT = 473.25
TRACT E DETENTION AREA
0.07 ACRES
3237 Sq. Ft.
TRACT A DETENTION AREA
0.81 ACRES
35305 Sq. Ft.
TRACT B
CITY PARK AREA
0.63 ACRES
DETENTION AREA
BLACK HAWK ROAD (50' R/W)
PRINCETON ROAD (50' R/W)
LONE OAK AVE. (50' R/W)
BLUE SPRINGS AVE. (50' R/W)
BLACK HAWK DRIVE (50' R/W)
CUL-DE-SAC
CUL-DE-SAC
CUL-DE-SAC


TRACT A
DETENTION
AREA
1.01 ACRES
43945 Sq. Ft.
TRACT B
CITY PARK AREA
3.01 ACRES
DETENTION
AREA
0.34 ACRES
14945 Sq. Ft.
HILLTOP ROAD 90' R/W
PRINCETON ROAD (50' R/W)
BEECH HAWK ROAD (50' R/W)
LONE OAK AVE (50' R/W)
BLUE SPRINGS LANE
MH - 1
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV OUT:436.57 8" PVC
MH - 2
STA:1+31.75
RIM:502.29
INV IN:492.88 8" PVC
INV IN:492.85 8" PVC
INV OUT:492.78 8" PVC
MH - 3
STA:3+54.83
RIM:469.03
INV IN:460.38 8" PVC
INV OUT:460.28 8" PVC
MH - 4
STA:6+39.85
RIM:444.31
INV IN:473.35 8" PVC
INV IN:473.38 8" PVC
INV OUT:473.25 8" PVC
MH - 5
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 6
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 7
STA:6+14.43
RIM:473.16
INV IN:460.67 8" PVC
INV OUT:460.57 8" PVC
MH - 8
STA:4+04.36
RIM:463.66
INV IN:455.67 8" PVC
INV OUT:455.57 8" PVC
MH - 9
STA:9+29.95
RIM:488.12
INV OUT:480.62 8" PVC
MH - 10
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 11
STA:0+02.38
RIM:495.76
INV IN:484.88 8" PVC
INV OUT:484.78 8" PVC
MH - 12
STA:4+43.03
RIM:517.74
INV IN:510.83 8" PVC
INV OUT:510.73 8" PVC
MH - 13
STA:7+93.03
RIM:529.55
INV IN:522.77 8" PVC
INV OUT:522.67 8" PVC
MH - 14
STA:9+24.28
RIM:510.73
INV OUT:503.23 8" PVC
MH - 15
STA:7+40.09
RIM:510.06
INV IN:502.49 8" PVC
INV IN:502.49 8" PVC
INV OUT:502.39 8" PVC
MH - 17
STA:3+32.07
RIM:513.62
INV IN:504.65 8" PVC
INV OUT:504.53 8" PVC
MH - 18
STA:6+77.38
RIM:520.41
INV OUT:512.33 8" PVC
MH - 19
STA:9+00.00
RIM:529.55
INV IN:519.67 8" PVC
INV OUT:519.57 8" PVC
MH - 20
STA:9+78.26
RIM:504.43
INV IN:495.15 8" PVC
INV OUT:495.05 8" PVC
MH - 21
STA:2+90.90
RIM:503.48
INV IN:492.02 8" PVC
INV IN:492.02 8" PVC
INV OUT:491.92 8" PVC
MH - 22
STA:4+14.08
RIM:516.43
INV IN:506.32 8" PVC
INV IN:506.32 8" PVC
INV OUT:506.22 8" PVC
MH - 23
STA:1+45.89
RIM:524.99
INV OUT:516.26 8" PVC
MH - 24
STA:7+42.57
RIM:529.44
INV OUT:521.67 8" PVC
MH - 25
STA:1+45.89
RIM:524.99
INV OUT:516.26 8" PVC
MH - 26
STA:0+20.36
RIM:515.55
INV IN:505.84 8" PVC
INV OUT:505.74 8" PVC
MH - 27
STA:6+00.22
RIM:528.41
INV IN:506.19 8" PVC
INV OUT:506.09 8" PVC
MH - 28
STA:2+07.87
RIM:524.42
INV IN:516.67 8" PVC
INV IN:516.67 8" PVC
INV OUT:516.57 8" PVC
MH - 29
STA:0+55.86
RIM:533.79
INV OUT:524.34 8" PVC
MH - 30
STA:3+05.07
RIM:544.89
INV OUT:534.67 8" PVC
MH - 31
STA:6+66.08
RIM:534.61
INV OUT:526.67 8" PVC
MH - 32
STA:4+64.55
RIM:528.48
INV IN:520.91 8" PVC
INV OUT:520.81 8" PVC
MH - 33
STA:2+44.89
RIM:531.53
INV OUT:524.34 8" PVC
MH - 34
STA:2+35.01
RIM:519.40
INV IN:510.24 8" PVC
INV IN:510.24 8" PVC
INV OUT:510.14 8" PVC
MH - 35
STA:4+64.29
RIM:506.25
INV IN:494.71 8" PVC
INV OUT:494.61 8" PVC
MH - 36
STA:4+14.08
RIM:516.43
INV IN:506.32 8" PVC
INV IN:506.32 8" PVC
INV OUT:506.22 8" PVC
MH - 37
STA:9+25.00
RIM:519.31
INV IN:510.07 8" PVC
INV OUT:510.00 8" PVC
MH - 38
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 39
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 40
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 41
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 42
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 43
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 44
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 45
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 46
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 47
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 48
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 49
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 50
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 51
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 52
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 53
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 54
STA:2+35.01
RIM:519.40
INV IN:510.24 8" PVC
INV OUT:503.95 8" PVC
MH - 55
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 56
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 57
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 58
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 59
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 60
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 61
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 62
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 63
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 64
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 65
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 66
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 67
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 68
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 69
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 70
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 71
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 72
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 73
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 74
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 75
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 76
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 77
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 78
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 79
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 80
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 81
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 82
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 83
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 84
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 85
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 86
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 87
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 88
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 89
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 90
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 91
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 92
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 93
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 94
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 95
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 96
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 97
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 98
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 99
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 100
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 101
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 102
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 103
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 104
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 105
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 106
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 107
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 108
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 109
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 110
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 111
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 112
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 113
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 114
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 115
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 116
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 117
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 118
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 119
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 120
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 121
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 122
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 123
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 124
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 125
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 126
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 127
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 128
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 129
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 130
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 131
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 132
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 133
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 134
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 135
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 136
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 137
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 138
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 139
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 140
STA:0+00.00
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INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 141
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 142
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 143
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 144
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 145
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 146
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 147
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 148
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 149
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 150
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 151
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 152
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 153
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 154
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 155
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 156
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 157
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 158
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 159
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 160
STA:0+00.00
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INV OUT:436.57 8" PVC
MH - 161
STA:0+00.00
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INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 162
STA:0+00.00
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RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 163
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 164
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 165
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 166
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
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INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 167
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 168
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 169
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 170
STA:0+00.00
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INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 171
STA:0+00.00
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INV IN:433.67' 8" PVC
RIM:447.70
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INV OUT:436.57 8" PVC
MH - 172
STA:0+00.00
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INV IN:433.67' 8" PVC
RIM:447.70
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INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 173
STA:0+00.00
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RIM:447.70
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INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 174
STA:0+00.00
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INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 175
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 176
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 177
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 178
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 179
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 180
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 181
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 182
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
RIM:447.70
INV IN:436.67 8" PVC
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 183
STA:0+00.00
RIM:444.15'
INV IN:433.67' 8" PVC
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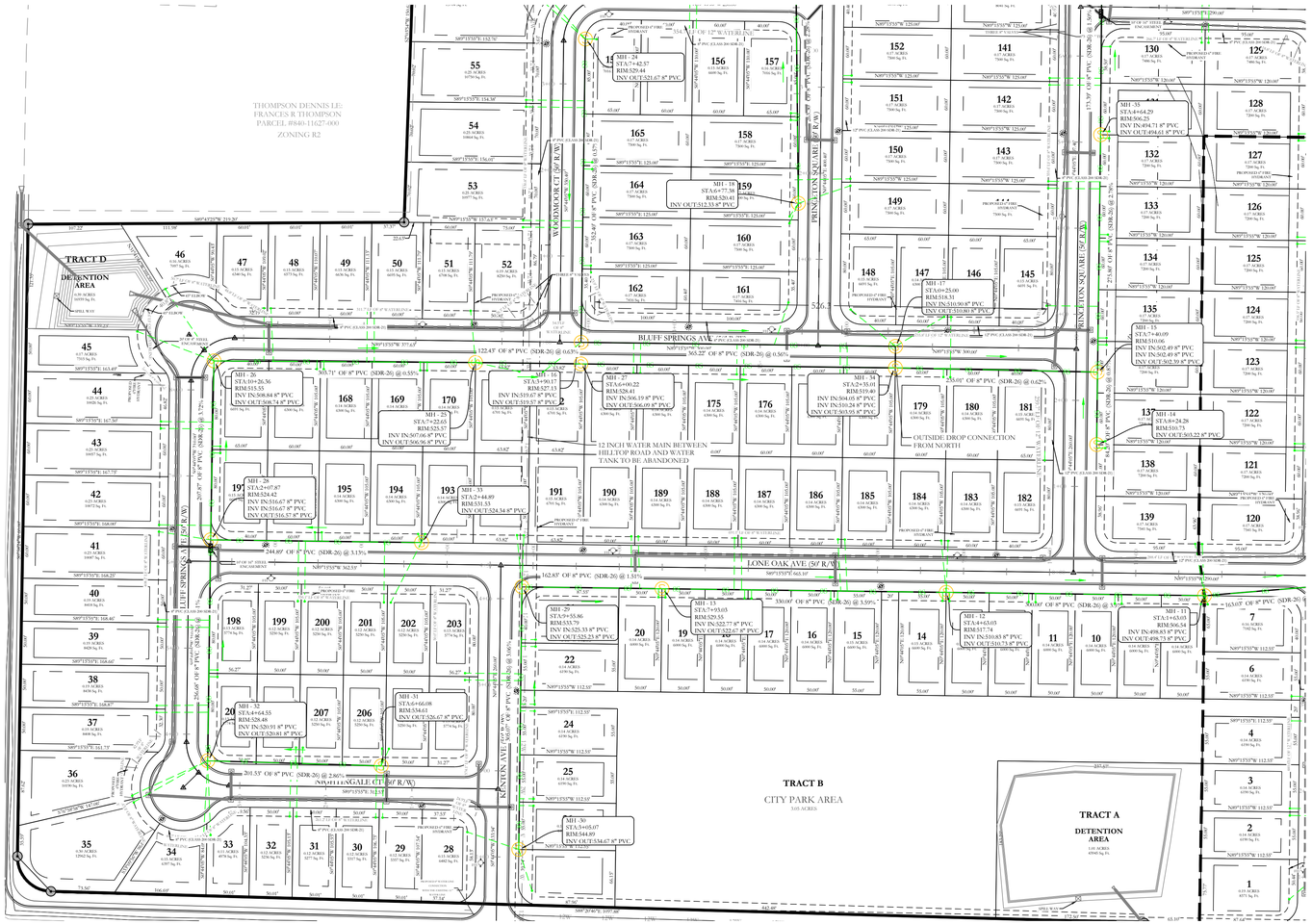
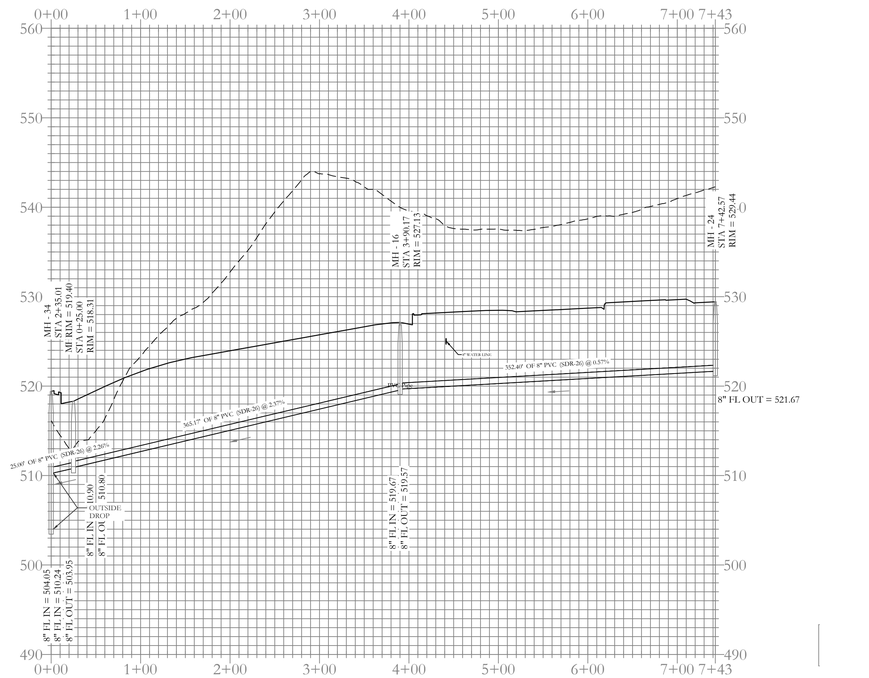
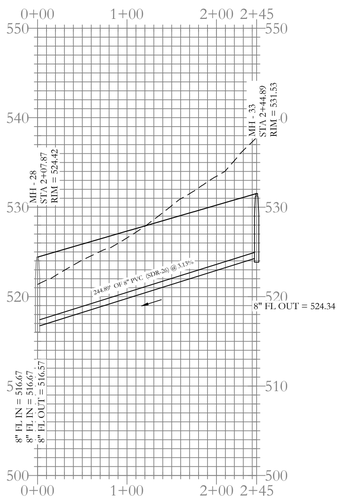
INV IN:436.57 8" PVC
INV OUT:436.57 8" PVC
MH - 184
STA:0+00.00



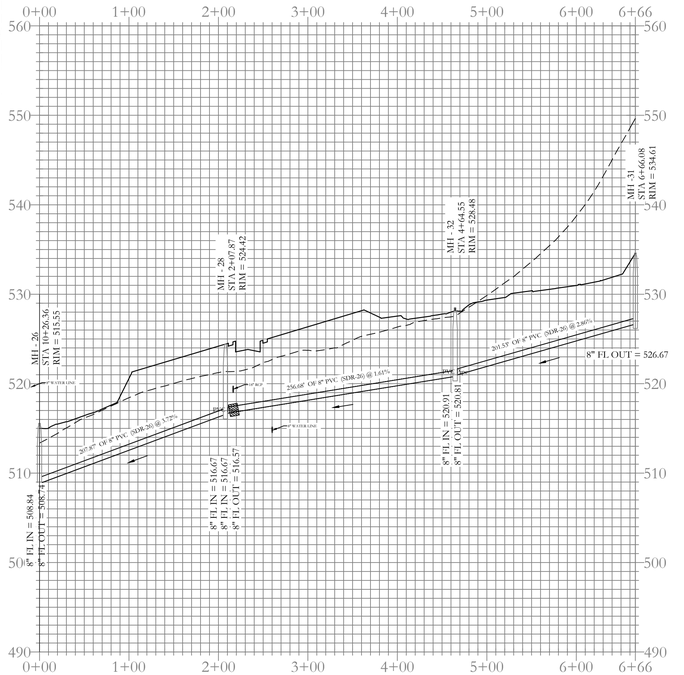
Sewer B-2 Profile



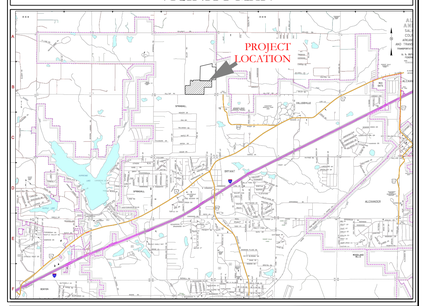
Sewer F-2 Profile



Sewer E-1 Profile



VICINITY MAP:



HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
SEWER PLAN AND PROFILE
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

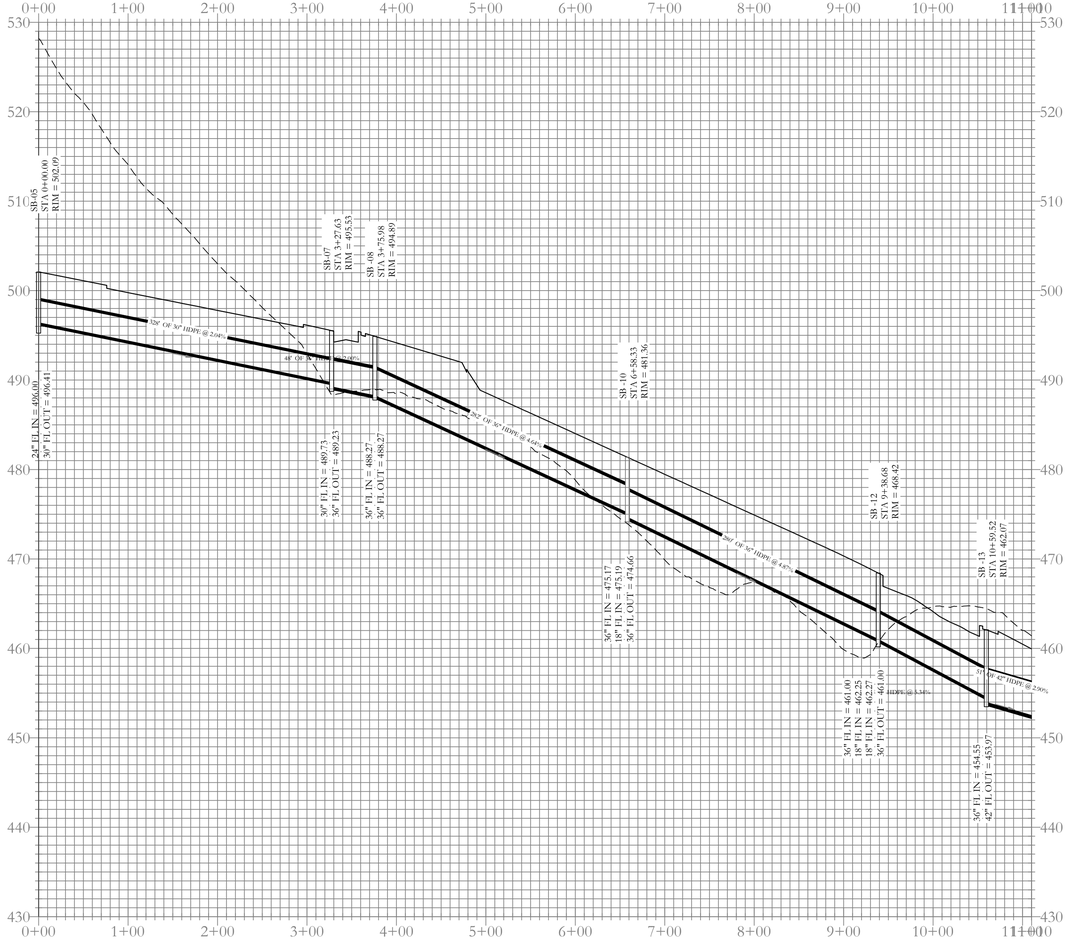
DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-2.3	SCALE: 1" =80'	

500	01S	14W	0	09	200	62	1762

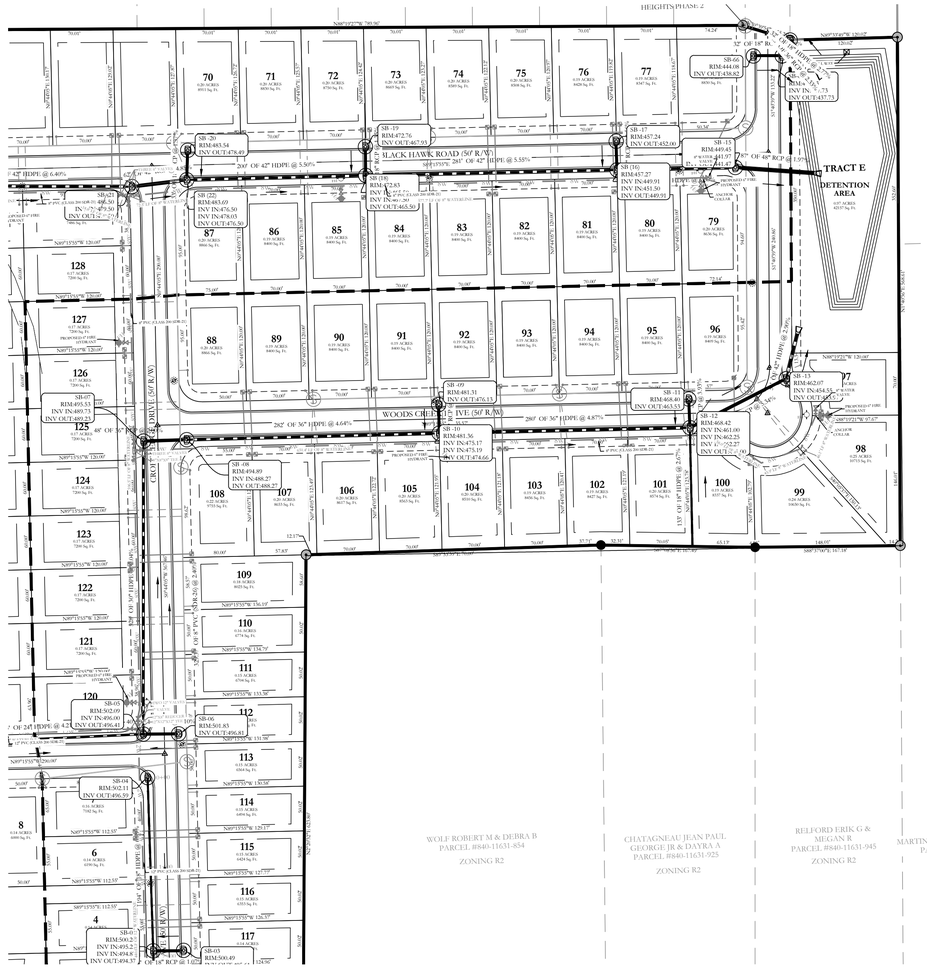
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14048
WILLIAM W. McFADDEN

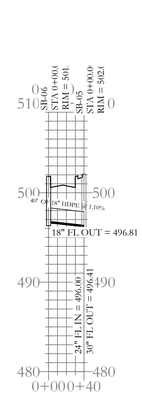
CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

K:\ALL\ANDY\PROJECTS\2040\SUBDIVISIONS\2020\20-1341 MILLER\18 HILLTOP\CIVIL\DWG\20-1341-CONSTRUCTION DRAWINGS-FULL PLANSET 11-4-2022.DWG

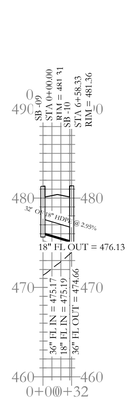


Stormwater A Profile





Stormwater A(i) Profile



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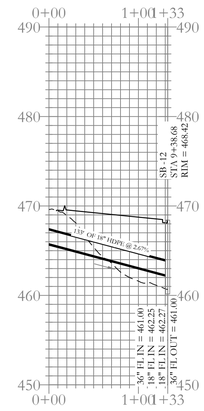
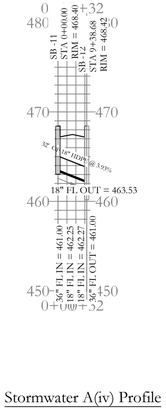
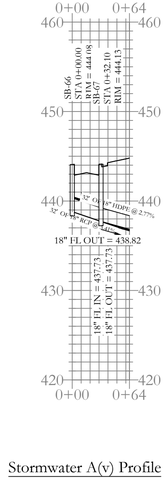


Stormwater A(iii)-Pipe behind the property Profile



Stormwater A(iv) Profile

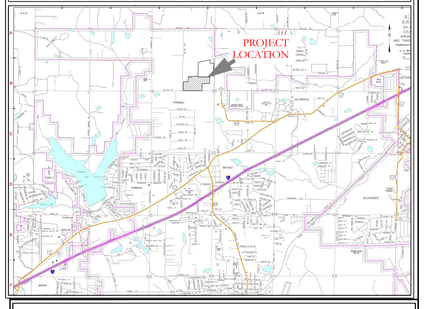


Stormwater A(v) Profile

HDPE

RCP

VICINITY MAP:



CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14040
WILLIAM W. McFADDEN

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

80 40 0 80

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
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FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
STORM DRAINAGE PLAN AND PROFILE
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-3.1	SCALE: 1" = 80'	

500	01S	14W	0	09	200	62	1762

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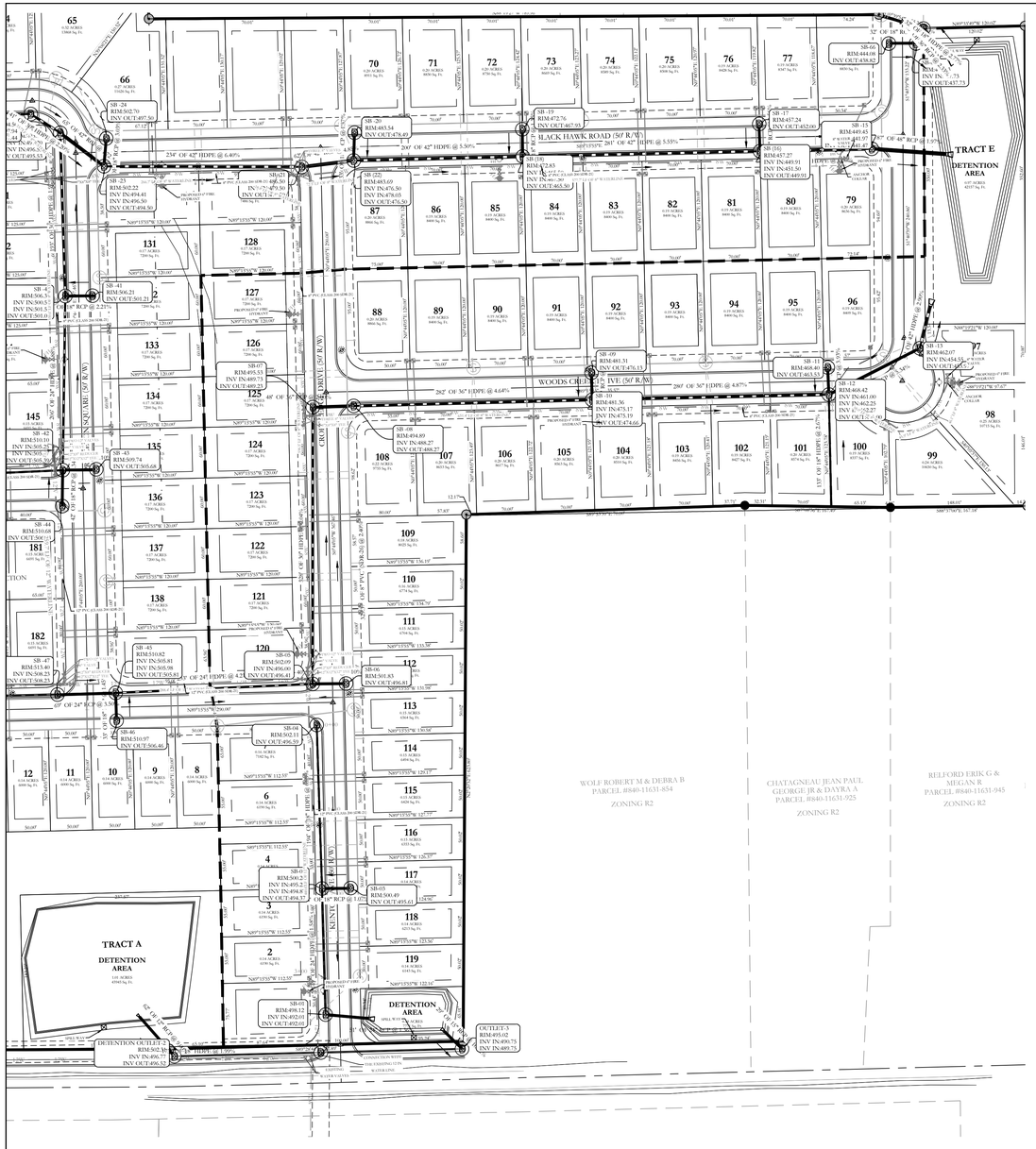

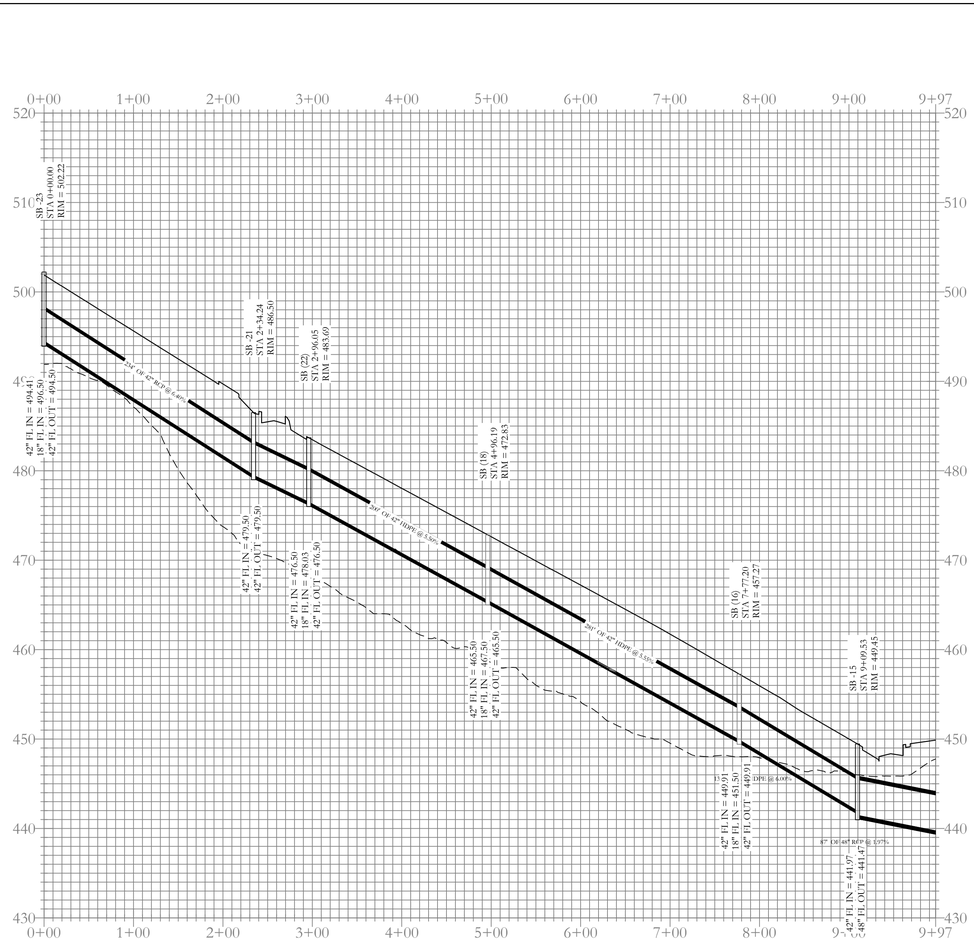

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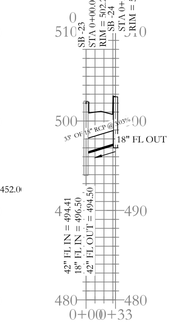
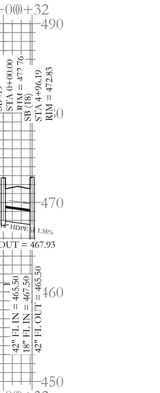
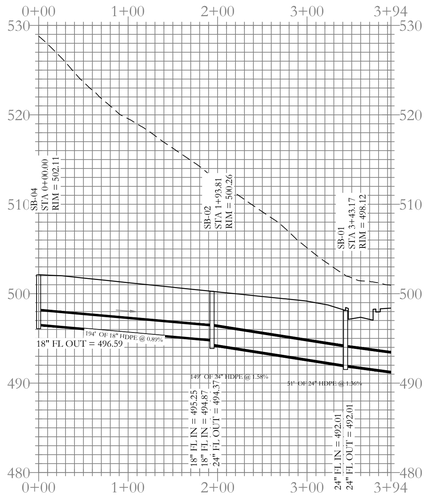


Stormwater G(b) Profile

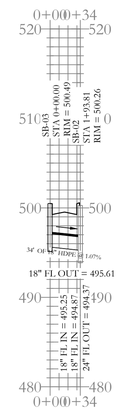
Stormwater G(c) Profile



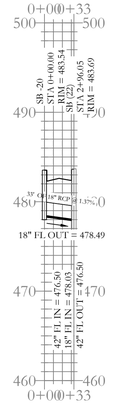
Stormwater G Profile



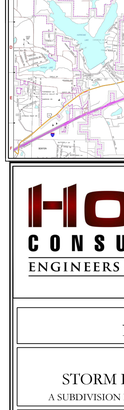
Stormwater Entrance Profile

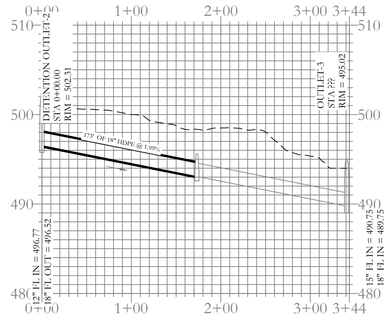


Stormwater Entrance-i Profile

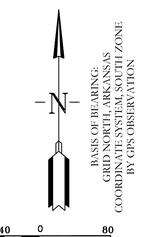


Stormwater G(d) Profile



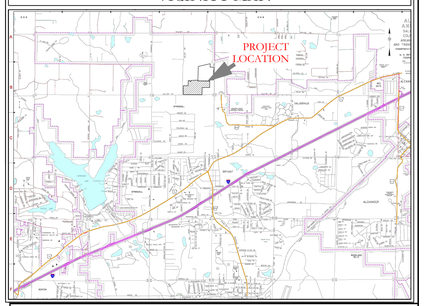


Detention Outlet to ditch Profile





VICINITY MAP:



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FOR USE AND BENEFIT OF:
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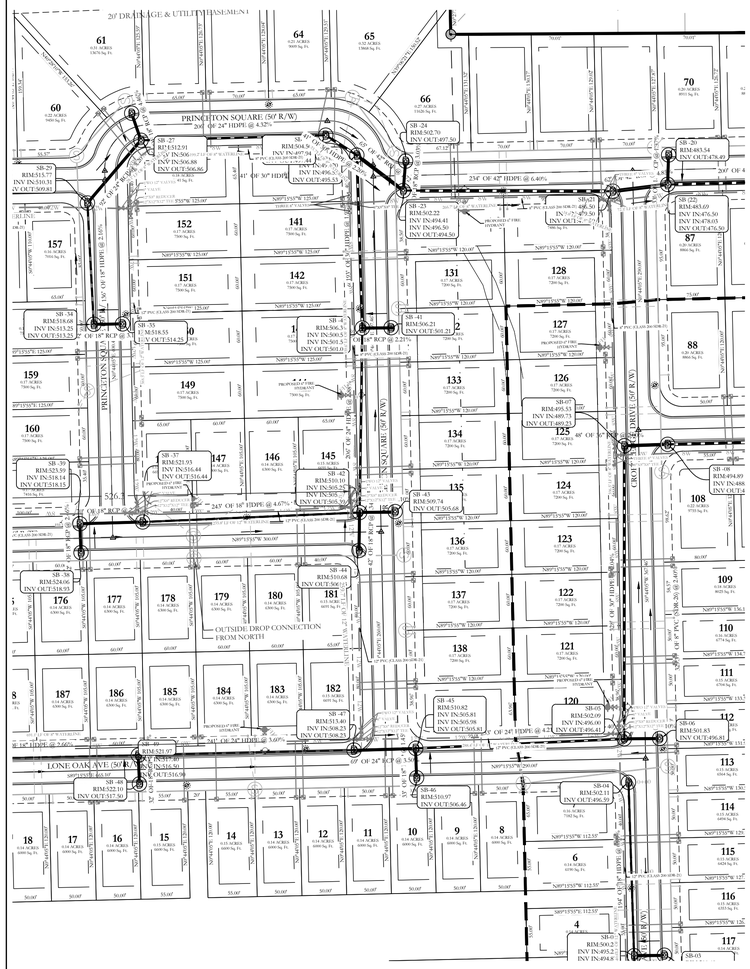
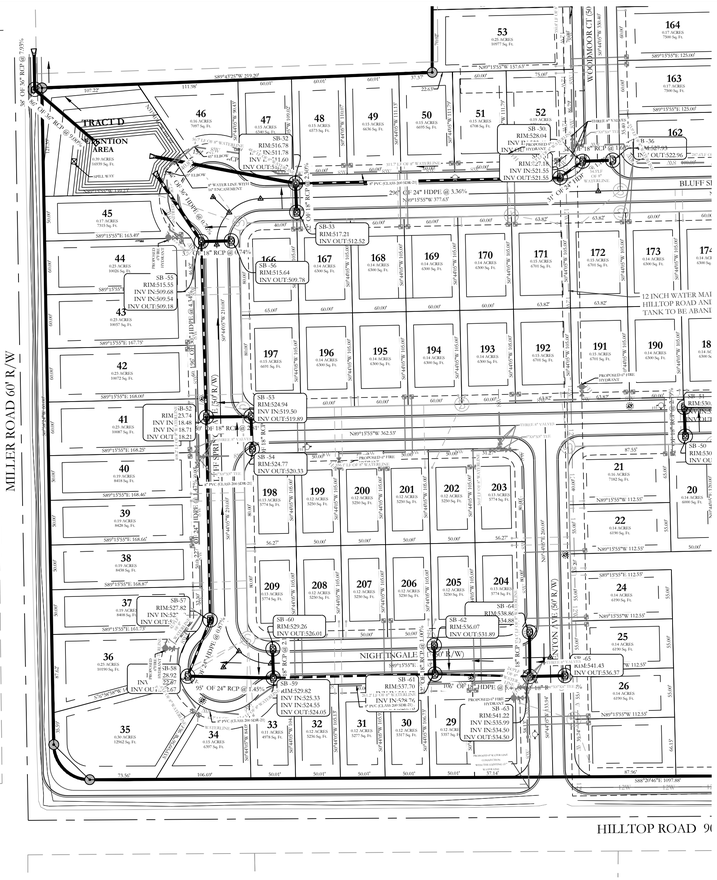
HILLTOP LANDING
STORM DRAINAGE PLAN AND PROFILE
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE: 10/05/2022	C.A.D. BY:	DRAWING NUMBER:	
REVISED:	CHECKED BY:	20-1341	
SHEET: C-3.2	SCALE: 1" = 80'		

500	01S	14W	0	09	200	62	1762

K:\LAND DEVELOPMENT PROJECTS\2020\20-1341 HILLTOP LANDING\CONSTRUCTION DRAWINGS\20-1341 HILLTOP LANDING.DWG 11-14-2022 08:13:34 AM CST


20' DRAINAGE & UTILITY EASEMENT
PRINCETON SQUARE (50' R/W)
LONE OAK AVE (50' R/W)
OUTSIDE DROP CONNECTION FROM NORTH
SB-27 RIM=512.91 INV IN=507.94 INV OUT=506.80
SB-28 RIM=513.11 INV IN=506.46 INV OUT=505.33
SB-29 RIM=515.77 INV IN=510.31 24" OUT=509.81
SB-20 RIM=483.54 INV OUT=476.40
SB-22 RIM=483.69 INV IN=476.50 INV OUT=476.30
SB-23 RIM=483.69 INV IN=474.50 INV OUT=474.30
SB-24 RIM=502.70 INV OUT=497.50
SB-25 RIM=502.22 INV IN=494.41 INV IN=496.50 INV OUT=494.50
SB-26 RIM=503.08 INV IN=479.50 INV OUT=479.30
SB-34 RIM=518.68 INV IN=513.25 INV OUT=513.25
SB-35 U/M=518.55 U/M OUT=514.25
SB-36 RIM=506.37 INV IN=500.23 INV OUT=500.03
SB-37 RIM=521.93 INV IN=516.44 INV OUT=516.44
SB-38 RIM=523.59 INV IN=518.14 INV OUT=518.13
SB-39 RIM=524.06 INV OUT=518.93
SB-40 RIM=506.34 INV IN=501.50 INV OUT=501.30
SB-41 RIM=506.21 INV OUT=501.21
SB-42 RIM=510.10 INV IN=505.25 INV OUT=505.39
SB-43 RIM=509.74 INV OUT=505.68
SB-44 RIM=510.68 INV OUT=506.53
SB-45 RIM=510.97 INV IN=505.81 INV OUT=505.97
SB-46 RIM=510.97 INV OUT=506.46
SB-47 RIM=513.40 INV IN=508.23 INV OUT=508.23
SB-48 RIM=521.97 INV OUT=516.50
SB-49 RIM=522.32 INV OUT=517.00
SB-50 RIM=502.11 INV OUT=496.50
SB-05 RIM=502.09 INV IN=496.00 INV OUT=496.41
SB-06 RIM=501.83 INV OUT=496.68
SB-01 RIM=500.27 INV IN=495.27 INV OUT=495.07
SB-02 RIM=500.27 INV IN=495.07 INV OUT=494.87
SB-03 RIM=500.27 INV IN=494.87 INV OUT=494.67
SB-04 RIM=500.27 INV IN=494.67 INV OUT=494.50
24" HDPE @ 4.67%
18" HDPE @ 2.35%
18" RCP @ 2.23%
24" HDPE @ 4.00%
24" HDPE @ 4.20%
30" HDPE @ 4.00%
42" RCP @ 2.00%
24" HDPE @ 2.00%
23" OF 42" HDPE @ 6.40%
24" OF 18" HDPE @ 4.67%
24" OF 18" HDPE @ 4.00%
24" OF 24" HDPE @ 4.00%
24" OF 24" HDPE @ 4.20%
24" OF 30" HDPE @ 4.00%
80' OF 24" RCP @ 2.00%
80' OF 24" RCP @ 2.00%
80' OF 24" RCP @ 2


TRACT D
DETENTION AREA
0.99 ACRES
43096 Sq. Ft.
MILLER ROAD 60' R/W
NIGHTINGALE (60' R/W)
HILLTOP ROAD
WOODMOOR CT (50' R/W)
BLUFF ST
12 INCH WATER MAIN
HILLTOP ROAD ANNEXATION
TANK TO BE ABANDONED
PROPOSED 8" DIP
PROPOSED 6" DIP
SB-33 RIM=517.21 INV OUT=512.52
SB-34 RIM=524.77 INV OUT=520.33
SB-35 RIM=515.64 INV OUT=509.78
SB-36 RIM=528.04 INV IN=523.54 INV OUT=521.55
SB-37 RIM=527.82 INV IN=527 INV OUT=?
SB-38 RIM=524.94 INV IN=525.33 INV IN=524.55 INV OUT=524.05
SB-39 RIM=529.82 INV IN=527.93 INV IN=527.74 INV OUT=527.18
SB-40 RIM=529.26 INV IN=528.76 INV OUT=528.76
SB-41 RIM=523.74 INV IN=523.23 INV OUT=?
SB-42 RIM=536.07 INV OUT=531.89
SB-43 RIM=524.94 INV IN=519.50 INV OUT=519.89
SB-44 RIM=541.43 INV OUT=536.37
SB-45 RIM=538.86 INV IN=535.99 INV IN=534.50 INV OUT=534.50
SB-46 RIM=541.22 INV IN=539.68 INV OUT=534.88
SB-47 RIM=516.78 INV IN=511.78 INV IN=511.60 INV OUT=510.52
SB-48 RIM=515.55 INV IN=509.68 INV IN=509.54 INV OUT=509.18
SB-49 RIM=541.22 INV IN=535.99 INV IN=534.50 INV OUT=534.50
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SB-67 RIM=524.77 INV OUT=520.33
SB-68 RIM=524.94 INV IN=525.33 INV IN=524.55 INV OUT=524.05
SB-69 RIM=529.26 INV OUT=528.76
SB-70 RIM=523.74 INV IN=523.23 INV OUT=?
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SB-82 RIM=529.82 INV IN=527.93 INV IN=527.74 INV OUT=527.18
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SB-84 RIM=523.74 INV IN=523.23 INV OUT=?
SB-85 RIM=529.82 INV IN=527.93 INV IN=527.74 INV OUT=527.18
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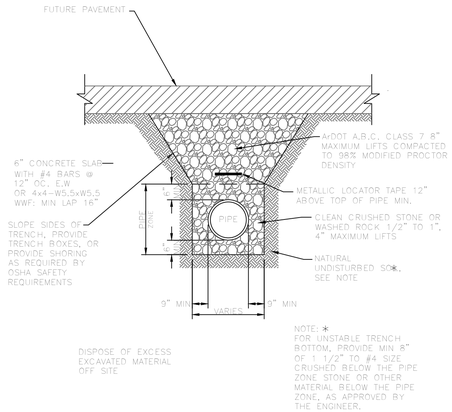
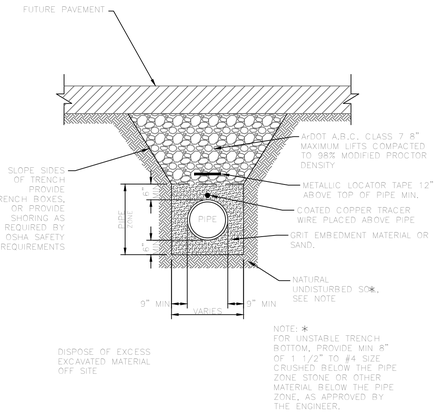


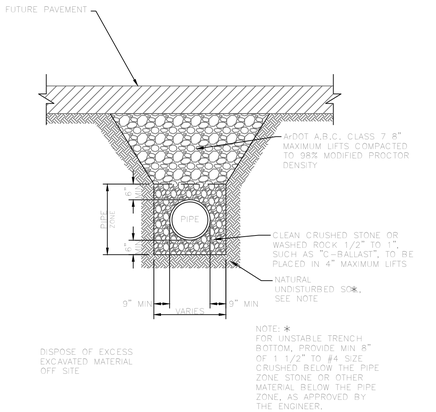
PVC SEWER TRENCH UNDER FUTURE ASPHALT STREET

N.T.S.



PVC WATER LINE TRENCH UNDER FUTURE ASPHALT STREET

N.T.S.

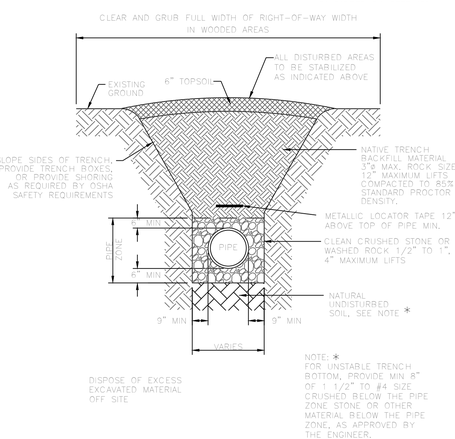


DRAINAGE PIPE TRENCH UNDER FUTURE ASPHALT STREET

N.T.S.

SOIL STABILIZATION REQUIREMENTS:

1. IN LAWN AREAS, DISTURBED SOIL SHALL BE STABILIZED BY PLACEMENT OF SOD TO MATCH EXISTING.
2. IN FIELDS OR WOODED AREAS, DISTURBED SOIL SHALL BE STABILIZED BY SEEDING.

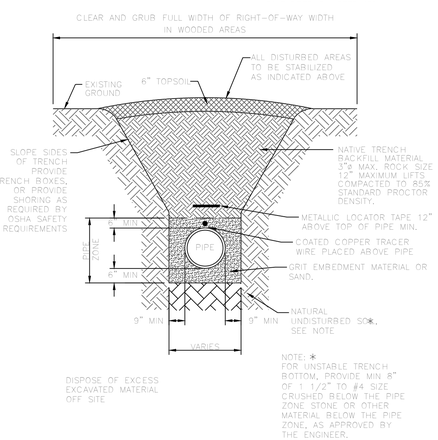


PVC SEWER TRENCH IN UNPAVED AREAS

N.T.S.

SOIL STABILIZATION REQUIREMENTS:

1. IN LAWN AREAS, DISTURBED SOIL SHALL BE STABILIZED BY PLACEMENT OF SOD TO MATCH EXISTING.
2. IN FIELDS OR WOODED AREAS, DISTURBED SOIL SHALL BE STABILIZED BY SEEDING.

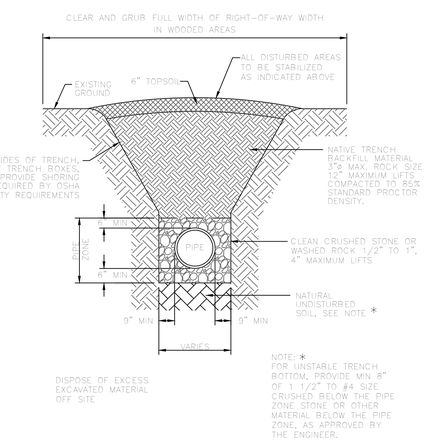


PVC WATER LINE TRENCH IN UNPAVED AREAS

N.T.S.

SOIL STABILIZATION REQUIREMENTS:

1. IN LAWN AREAS, DISTURBED SOIL SHALL BE STABILIZED BY PLACEMENT OF SOD TO MATCH EXISTING.
2. IN FIELDS OR WOODED AREAS, DISTURBED SOIL SHALL BE STABILIZED BY SEEDING.



DRAINAGE PIPES IN UNPAVED AREAS

N.T.S.

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FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
TRENCH DETAILS
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE: 10/05/2022	C.A.D. BY:	DRAWING NUMBER:	
REVISED:	CHECKED BY:	20-1341	
SHEET: C-4.0	SCALE: 1" = 20"		

500	01S	14W	0	09	200	62	1762

K:\LAND PROJECTS\20#S SUBDIVISIONS\2020\20-1341 MILLER & HILLTOP\CIVIL\DWG\20-1341-CONSTRUCTION DRAWING FULL PHASE 11-4-2021.DWG

SPECIFICATIONS

SUBGRADE MATERIAL

A. Subgrade soils shall be all materials used for subgrade including in-situ materials and fill materials.
B. Subrades for pavement shall be stabilized by mechanical compaction. Stabilization methods such as fabrics and chemical stabilization may be submitted for approval when supported by engineering data and calculations to substantiate the adequacy of the stabilized procedure.
C. Subgrade shall be compacted to 95 percent modified proctor density minimum. Moisture content shall be +/- 3% of optimum moisture unless otherwise supported by the site specific geotechnical data and approved by City.
D. Subgrade shall be prepared in such a manner that the base course shall be placed on a firm foundation that is stable and free from soft spots, pumping, dust pockets, wheel ruts, or other defects.
E. The top 24 inches of the subgrade shall be a material not susceptible to frost action unless modified with cement, lime or another method approved specifically by the City to resist frost action. Soils classified as A-4 and A-5 including sandy silts, fine silty sand or lean clays are highly susceptible to frost action.
F. In-situ soils meeting the requirements outlined in these specifications may be utilized as subgrade material. In-situ soils used as subgrade shall be scarified to a minimum depth of 8-inches below finish subgrade, recompacted and tested as described below. Fill material for subgrade shall be placed in lifts not to exceed 8-inches compacted depth.
G. Methods and procedures for establishing the total depth of soil replacement and/or modification shall be as specified by the design engineer and geotechnical investigations. The adequacy of in-situ soils and fill materials as pavement subgrade shall be evaluated based upon the soils classification, liquid limit, and plasticity index.
H. Soils with a liquid limit greater than 40, or a plasticity index greater than 15 shall be undercut and removed from the street section or improved by a design method of stabilization approved by the City.
I. Quality control testing shall be as specified below.
J. Undercut 24" of soil below finished street base course. Proof roll to verify stability.
K. Backfill the undercut subgrade with Class 7 aggregate or soil meeting the requirements of this section and compact in lifts not exceeding 8".

BASE COURSE

A. Base course material shall be crushed stone meeting the requirements of ArDOT Class 7 aggregate base course as specified in the latest edition of ArDOT Standard Specifications.
B. Base course shall be compacted to 98 percent modified proctor density minimum. Moisture content shall be +/- 3% of optimum moisture.

SURFACE COURSE

A. Surface course for flexible pavement designs shall utilize plant mix bituminous base and binder courses conforming to ArDOT Standard Specifications.

CURB AND GUTTER

A. Curb and gutter shall be Portland Cement Concrete with a minimum 28-day compressive strength of 4,000 psi. Concrete shall be air-entrained with a maximum of 4-inch slump.
B. Compaction requirements under curb and gutter shall conform to the requirements for street subgrade materials. Compaction requirements shall extend to a minimum of 1 foot behond the back of curb and gutter removing all soft spots and replacing with suitable material.
C. Curb and gutter shall conform to the typical detail within these specifications or ArDOT Standard Roadway Drawing Details for curbing.
D. Expansion joints shall be made with 1/2-inch preformed expansion joint filler of a non-extruding type. Expansion joints shall be placed at intervals not exceeding 195 feet, intersection radii, driveways, stationary structures, and sidewalks.
E. Contraction joints shall be sawed or fromed at intervals not greater than 20 feet. Depth of saw-cut hall be 1 1/2-inch and have a width of 1/4-inch. Contraction joints shall be sealed in accordance with ArDOT Standard Specifications.
F. Forms shall be made of metal or wood and shall be properly braced. The minimum length of each section of form used shall be 10 feet. Each section of form shall be uniform and free from undesirable bends or warps. Forms shall be of such cross section and strength and so secured as to resist the pressure of the impact and vibration on any equipment which they support without springing or settlement.
G. Curb and gutter placed with slip form or extruding equipment will be acceptable providing it complies with all of the above requirements.
H. After curing, the curb shall be immediately backfilled to within 4 inches of the top curb to eliminatethe possibility of washing beneath the curb. The remaining 4 inches shall be topsoil.
I. Cold weather protection shall meet the requirements of the latest edition of ArDOT Standard Specifications.

SIDEWALKS

General

A. Sidewalks shall be Portland Cement Concrete with a minimum 28-day compressive strength of 4,000 psi.
B. Sidewalks shall be on both sides of streets in line with sidewalks on opposite corners of roads.
C. All sidewalks including ramps shall meet all current Federal Americans with Disabilities (ADA) design guidelines or requirements.
D. Traverse slopes shall not exceed 2 percent.
E. Subgrade under sidewalks shall be compacted to 90 percent modified proctor density minimum.
F. Sidewalks shall not be placed upon grassy or organic materials.
G. Sidewalks which extend or link existing sidewalks shall adjoin the existing sidewalks to form a continuous, even pathway.
H. Utility poles, utility boxes, mailboxes, fire hydrants, and other similar obstructions shall not be located in sidewalks Sidewalk location may vary at the discretion of the City to avoid such obstacles.

Minimum thickness and reinforcement

A. Sidewalks shall have a minimum thickness of 4 inches.
B. Sidewalks shall be reinforced, at a minimum, with woven wire fabric reinforcement.

Contraction and expansion joints

A. Contraction joints shall be provided perpendicular to the sidewalk at intervals equal to the sidewalk width.
B. Expansion joints shall be constructed perpendicular to the sidewalk at intervals equal to five times the sidewalk width. Expansion joints shall be made with 1/2-inch preformed expansion joint filler of a non-extruding type. Expansion joints shall be placed at driveways, drop inlets, and curbs.

Quality control testing and inspection by the City

A. Subgrade and formwork for sidewalks shall be inspected by the City prior to pouring of the sidewalk.
B. All testing of materials and construction shall be provided and paid for by the Developer/Owner.
C. All field tests required for a project shall be witnessed by the City, contractor, or their authorized representatives.
D. All testing shall be accomplished by a testing firm approved by the City and shall be performed under the supervision of a licensed Professional Engineer.
E. Sampling and testing locations shall be subject to approval by the City.
F. Density tests on subgrades shall be taken every 300 feet or portion thereof.
G. The City shall be notified at least one day in advance of the need to inspect subgrade and formwork of sidewalks.

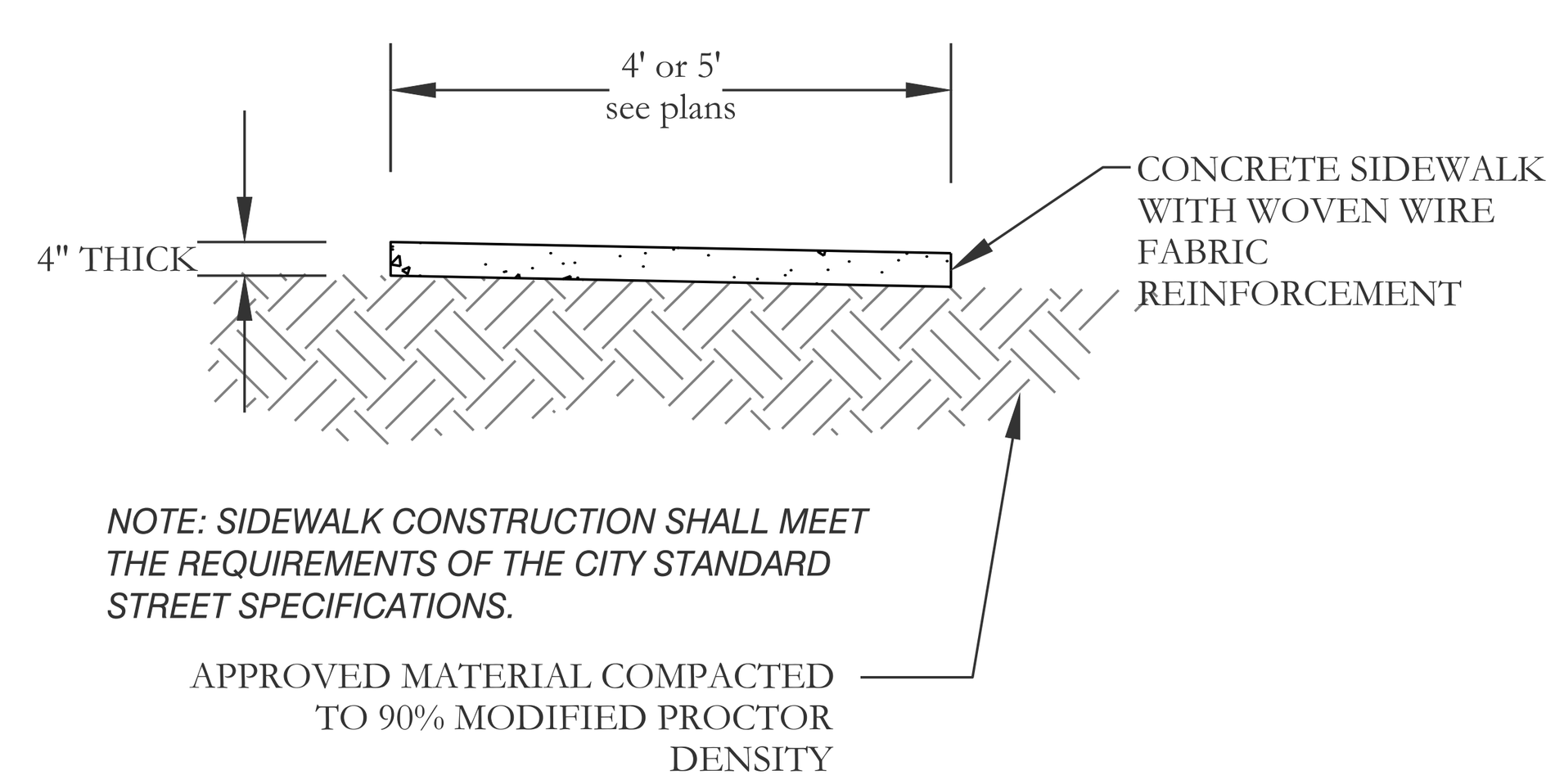
Subgrade

A. Subgrade soils shall be all materials used for subgrade including in-situ materials and fill materials.
B. Subgrade shall be compacted to 90 percent modified proctor desnity minimum. Moisture content shall be +/- 3% of optimum moisture unless otherwise supported by the site specific geotechnical data and approved by City.
C. Subgrade shall be prepared in such a manner that the base course shall be placed on a firm foundation that is stable and free from soft spots, pumping, dust pockets, wheel ruts, or other defects.
D. The top 24 inches of the subgrade shall be a material not susceptible to frost action unless modified with cement, lime or another method approved specifically by the City to resist frost action. Soils classified as A-4 and A-5 including sandy silts, fine silty sand or lean clays are highly susceptible to frost action.

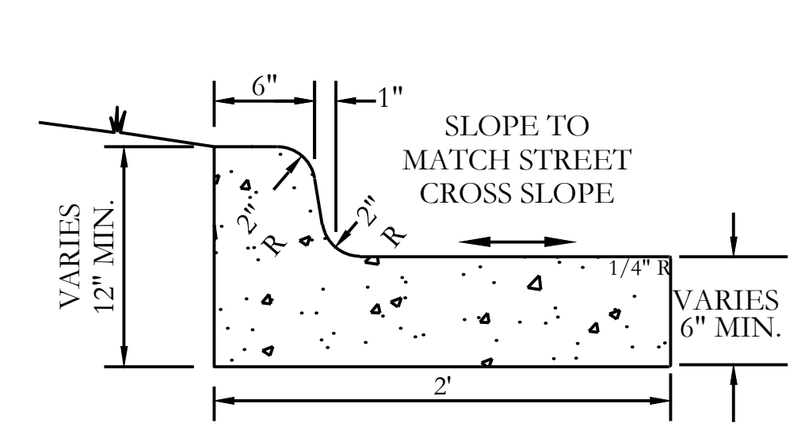
QUALITY CONTROL TESTING AND INSPECTIONS

General

A. Materials and construction employed in street improvements shall be subject to inspection and quality control testing. All testing of materials and construction shall be provided and paid for by the Developer/Owner.
B. The Developer/Owner shall provide for inspections of street improvements during construction. The inspections shall be accomplished under the supervision of the Engineer of Record. The Engineer of Record shall provide certification that all materials and construction conform to the approved plans and specifications and with these minimum street standards.
C. The Engineer of Record shall furnish inspection whenever a critical construction activity is taking place. This means that a representative of the Engineer of Record must be on-site whenever a critical construction activity is taking place.
D. All field tests required for a project shall be witnessed by the City, Engineer of Record, contractor, or other authorized representatives.
E. The City shall be notified at least one day in advance of any test(s). It is the responsibility of the contractor to coordinated the scheduling of all tests with the City.



Typical Sidewalk Detail



STANDARD CURB & GUTTER
NOT TO SCALE

TYPICAL CURB DETAILS & NOTES
NOT TO SCALE

Typical Curb & Gutter Detail

4,000 psi concrete

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
CIVIL SPECIFICATIONS
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:		DRAWING NUMBER:
REVISED:		CHECKED BY:		20-1341
SHEET:	C-5.0	SCALE:	1' = 20"	

500	01S	14W	0	09	200	62	1762

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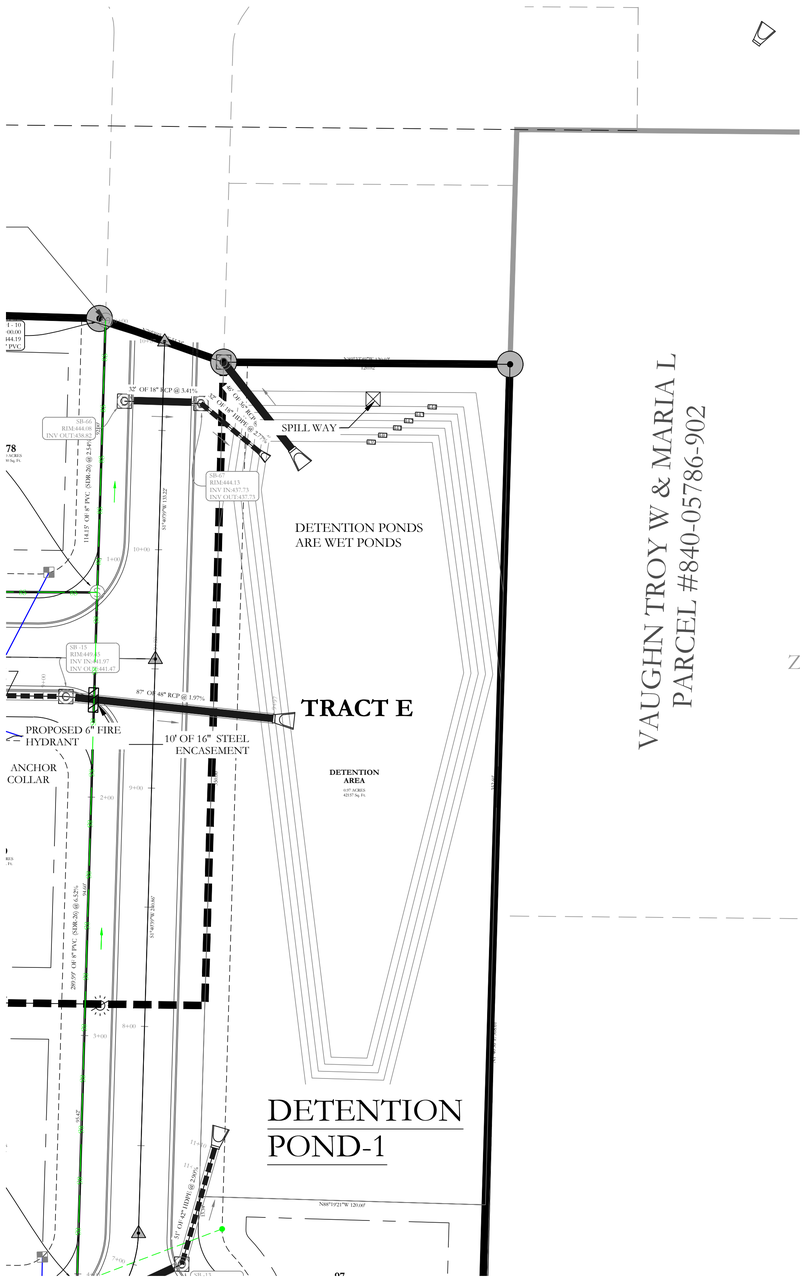
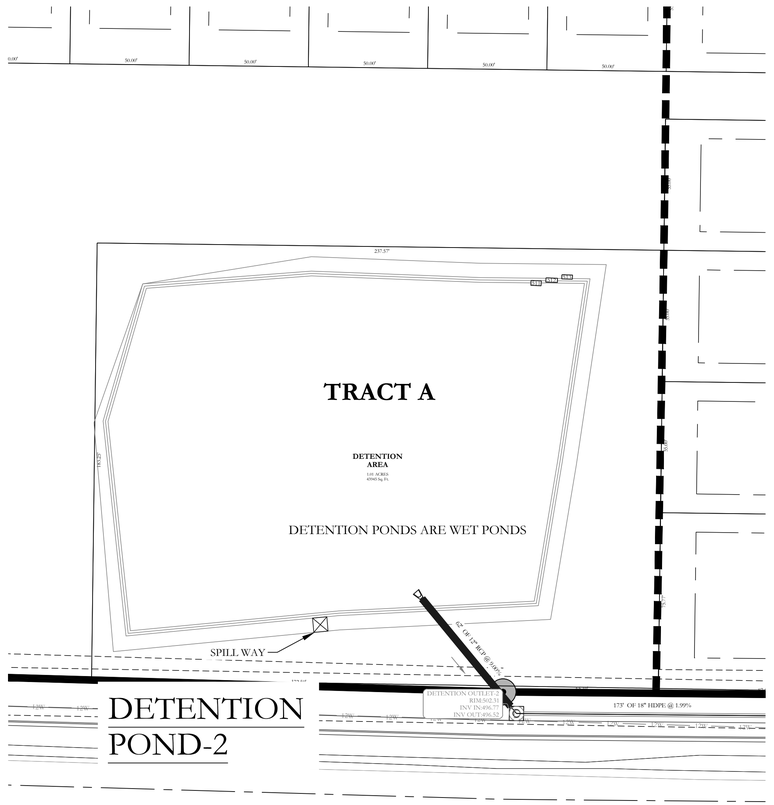
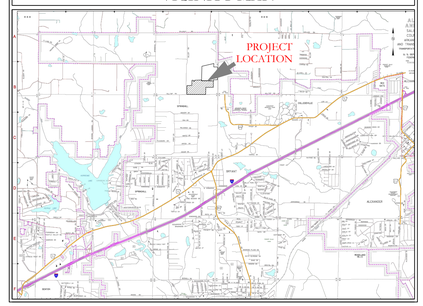


VAUGHN TROY W & MARIA L
PARCEL #840-05786-902

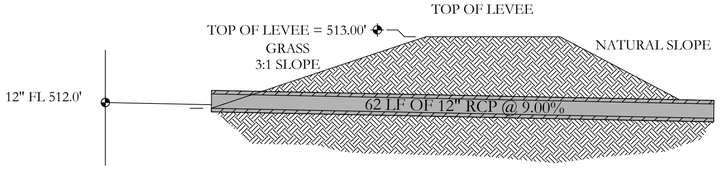


VICINITY MAP:

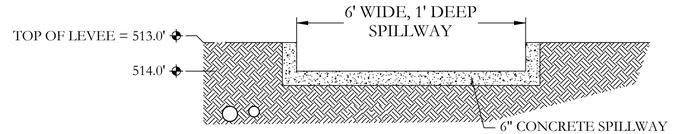


EARTHEN SLOPE NOTE:
ALL EARTHEN DETENTION POND SLOPES ON BOTH THE INTERIOR AND EXTERIOR OF THE POND SHALL HAVE A MAXIMUM SLOPE OF 3:1.

NOTE:
ALL DETENTION BASINS WILL BE REQUIRED TO BE STABILIZED WITH SOLID SOD STABILIZATION PER THE STORMWATER MANAGEMENT MANUAL.



OUTLET SECTION
NTS



SPILLWAY END VIEW
NTS

DETENTION POND -2

DETENTION POND MAINTENANCE PLAN

Background
The detention ponds are located on the periphery of the subdivision.They are designed to temporarily detain stormwater to meet water quantity criteria before discharging off the property.

Routine Maintenance
The property owners association will maintain the drainage easements located in Tract "A" and Tract "E". Routine maintenance will include but not be limited to:
-Mowing of the bank slopes and area around the pond on a monthly basis during the growing season and as needed during the cooler months.

-The outlet pipe from the pond and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.

-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.

-Inspect the pond and outlet pipe for non-routine maintenance need.

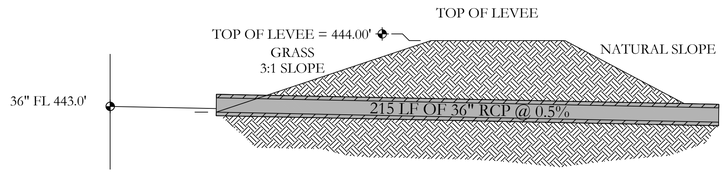
Periodic or Non-Routine Maintenance
The routine inspection of the ponds areas and discharge pipes will identify needed repairs and non-routine maintenance. These items may include but not be limited to:

-Re-growth of trees on or around the pond bank. These should be cut and removed from the pond area.

-Sediment from the site may accumulate in the pond bottom and reduce the pond to below design volume requirements. The pond should be excavated if the pond bottom elevation reached a level that allows excessive aquatic growth or reduces the pond efficiency such, that the sediments are passing the discharge structure and release off site.

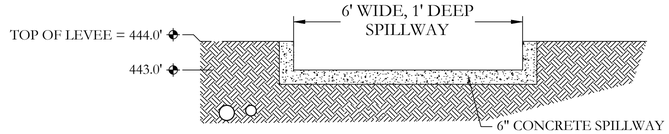
-Stabilization or re-grading of side slopes may be required periodically or after excessive rain events. Any disturbance of slopes should be reseeded or may require installation of erosion control materials until seeding can reestablish adequate grasses to prevent future erosion.

-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.



OUTLET SECTION
NTS

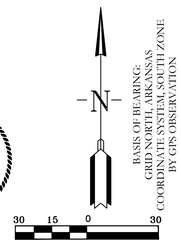
DETENTION POND-1



SPILLWAY END VIEW
NTS

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14048
WILLIAM W. McCLENDON



BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
DETENTION POND
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE: 10/05/2022	C.A.D. BY:	DRAWING NUMBER:	
REVISED:	CHECKED BY:	20-1341	
SHEET: C-6.0	SCALE: 1"=30'		

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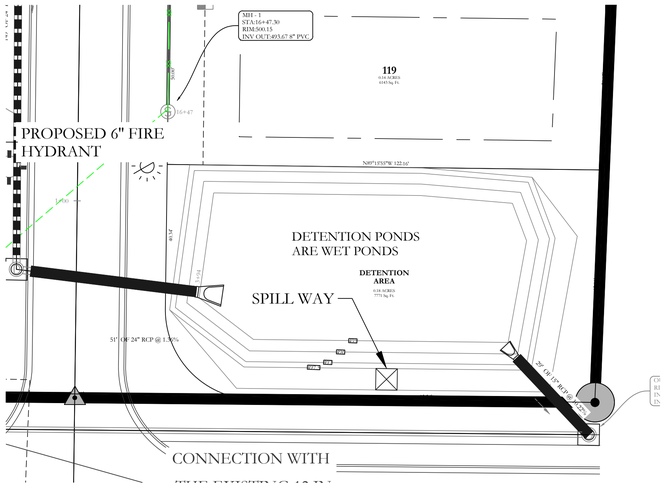
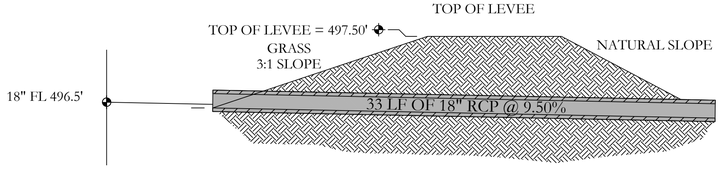
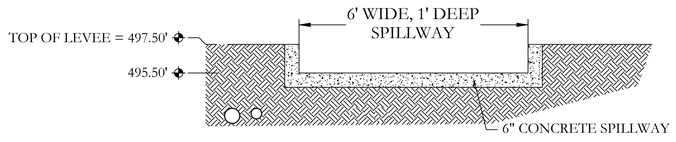


DETENTION POND-3



OUTLET SECTION
NTS



SPILLWAY END VIEW
NTS

DETENTION POND-3

DETENTION POND MAINTENANCE PLAN

Background
The detention ponds are located on the perphery of the subdivision. They are designed to temporarily detain stormwater to meet water quantity criteria before discharging off the property.

Routine Maintenance
The property owners association will maintain the drainage easements
Routine maintenance will include but not be limited to:
-Mowing of the bank slopes and area around the pond on a monthly basis during the growing season and as needed during the cooler months.

-The outlet pipes from the ponds and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.

-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.

-Inspect the pond and outlet pipe for non-routine maintenance need.

Periodic or Non-Routine Maintenance
The routine inspection of the pond areas and discharge pipes will identify needed repairs and non-routine maintenance. These items may include but not be limited to:

-Re-growth of trees on or around the pond bank. These should be cut and removed from the pond areas.

-Sediment from the site may accumulate in the pond bottom and reduce the pond to below design volume requirements. The pond should be excavated if the pond bottom elevation reached a level that allows excessive aquatic growth or reduces the pond efficiency such, that the sediments are passing the discharge structure and release off site.

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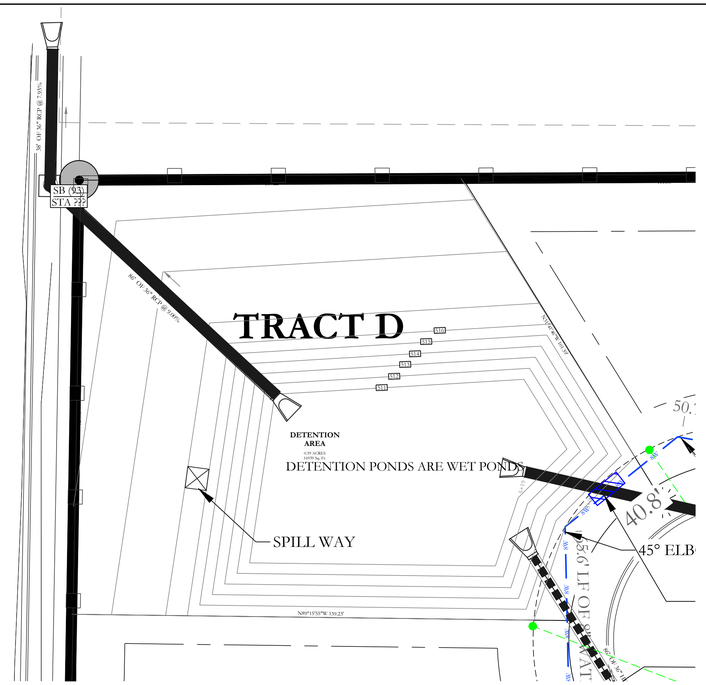
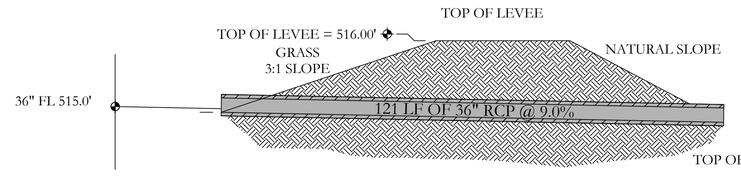
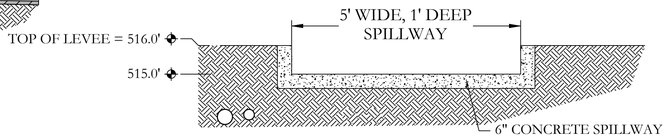
-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.



DETENTION POND-4



OUTLET SECTION
NTS



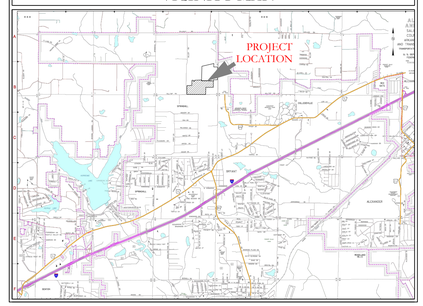
SPILLWAY END VIEW
NTS

DETENTION POND -4

EARTHEN SLOPE NOTE:
ALL EARTHEN DETENTION POND SLOPES ON BOTH THE INTERIOR AND EXTERIOR OF THE POND SHALL HAVE A MAXIMUM SLOPE OF 3:1.

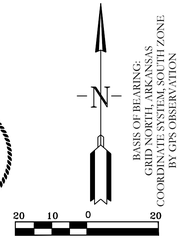
NOTE:
ALL DETENTION BASINS WILL BE REQUIRED TO BE STABILIZED WITH SOLID SOD STABILIZATION PER THE STORMWATER MANAGEMENT MANUAL.

VICINITY MAP:



CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 14040
WILLIAM W. McFADDEN



BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

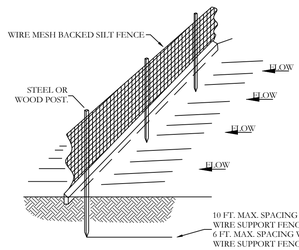
FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

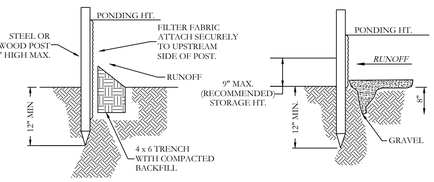
HILLTOP LANDING
DETENTION POND
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-6.0	SCALE: 1"=20'	

500	01S	14W	0	09	200	62	1762

K:\LAND PROJECTS 2004\SUBDIVISIONS\2020\20-1341 MILLER & HILLTOP\CIVIL\DWG\20-1341-CONSTRUCTION DRAWING FULL PHASE 11-4-2022.DWG





STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

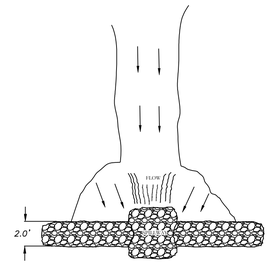
ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE



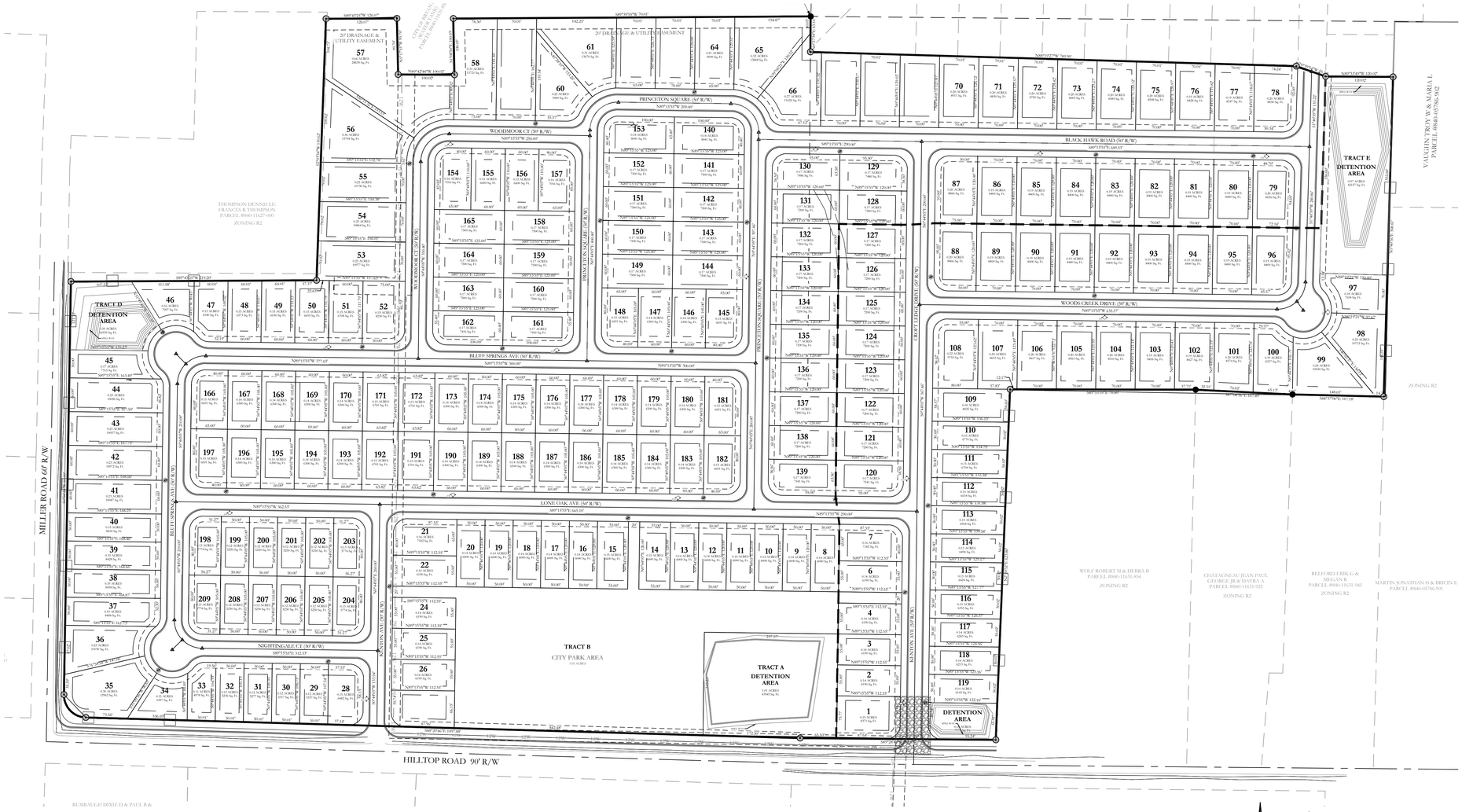
PLAN

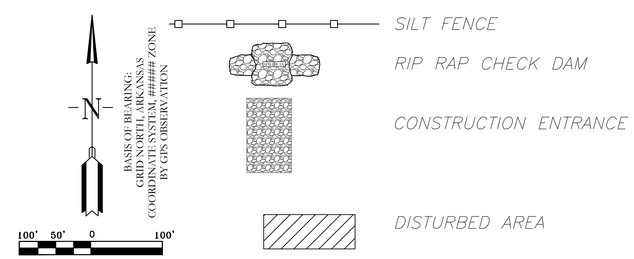


VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT).
2.) THE RIP-RAP SHALL BE PLACED SO AS TO DIRECT THE FLOW WITH TIGHT GROUPING. THE STONE, ROCKS OR FILTER FABRIC TO FILL ENTIRE GAPS AND GAP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXCEED 16"-24".
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP
CHECK DAM





ERC LEGEND

SITE POSTING

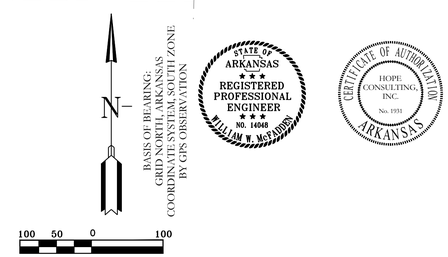
CONC. WASHOUT DETENTION AREA

SILT FENCE

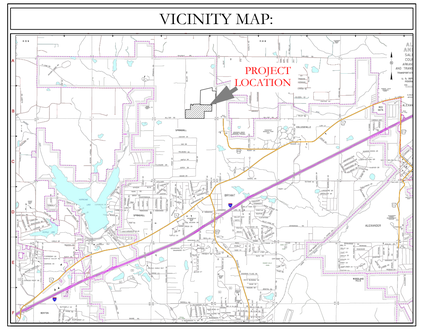
RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

DISTURBED AREA



VICINITY MAP:



HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

HILLTOP LANDING
EROSION CONTROL PLAN (BEFORE ASPHALT LAY)
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-7.0	SCALE:	1" =100'

500	01S	14W	0	09	200	62	1762

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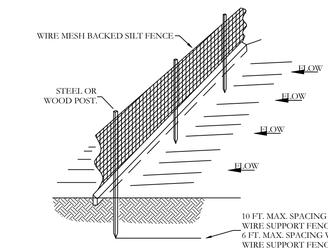
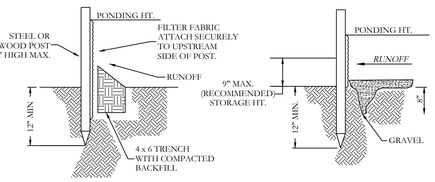




STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL.

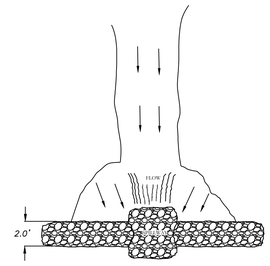
ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE



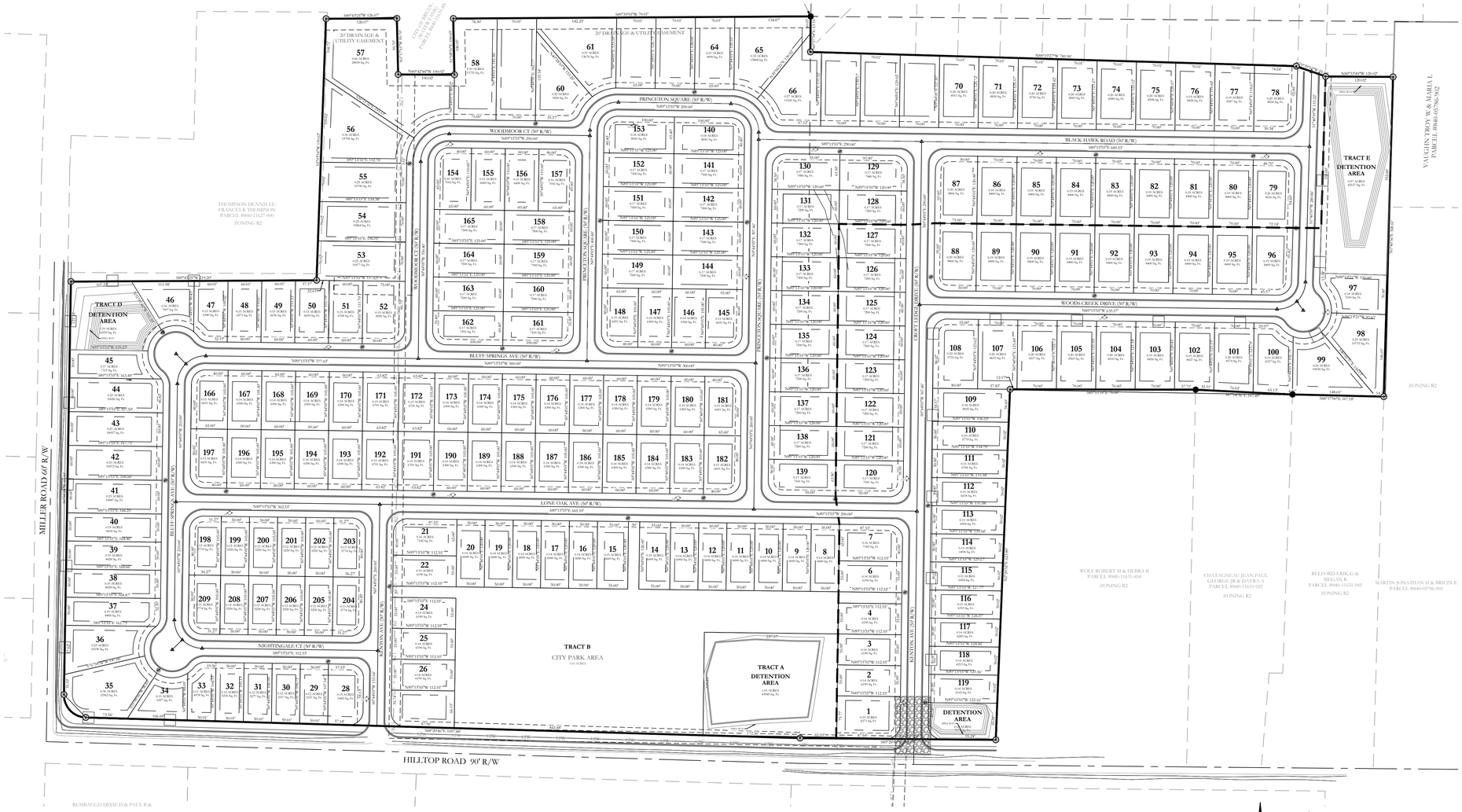
PLAN



VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT).
2.) THE CHANNEL SHALL BE LINED WITH ROCK TO SLOW THE FLOW WITH TIGHT GROUPING. THE STONE, ROCKS, OR FILTER FABRIC TO RETAIN SOIL AND STONE BACKFILL MATERIAL TO PREVENT EROSION OR PIPE FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXCEED 16"-24".
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP
CHECK DAM



ERC LEGEND

SITE POSTING

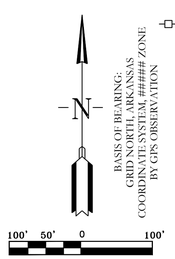
CONC. WASHOUT DETENTION AREA

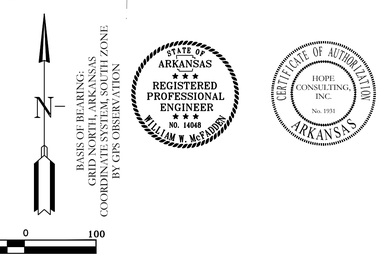
SILT FENCE

RIP RAP CHECK DAM

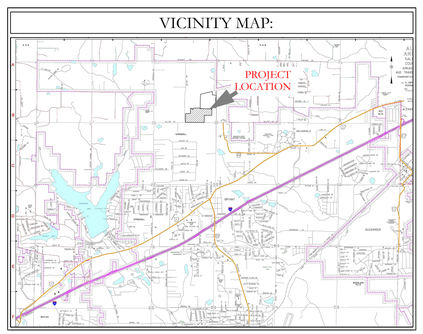
CONSTRUCTION ENTRANCE

DISTURBED AREA





VICINITY MAP:



HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC.

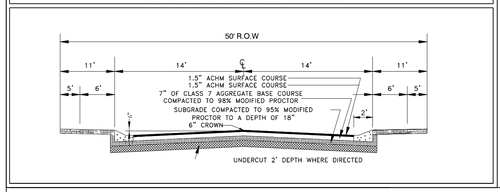
HILLTOP LANDING
EROSION CONTROL PLAN (AFTER ASPHALT LAY)
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/05/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	20-1341
SHEET:	C-7.1	SCALE: 1" =100'	

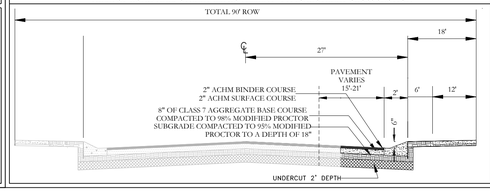
500	01S	14W	0	09	200	62	1762

K:\LAND PROJECTS 2004\SUBDIVISIONS\2020\20-1341 MILLER & HILLTOP\CIVIL\DWGS\20-1341-CONSTRUCTION DRAWING FULL PHASE 11-4-2022.DWG

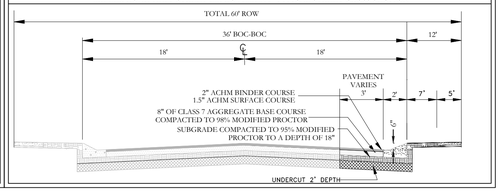
CITY OF BRYANT TYPICAL STREET CROSS SECTION



HILLTOP ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION



MILLER ROAD HALF STREET IMPROVEMENT TYPICAL STREET CROSS SECTION

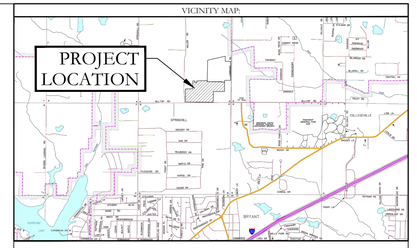


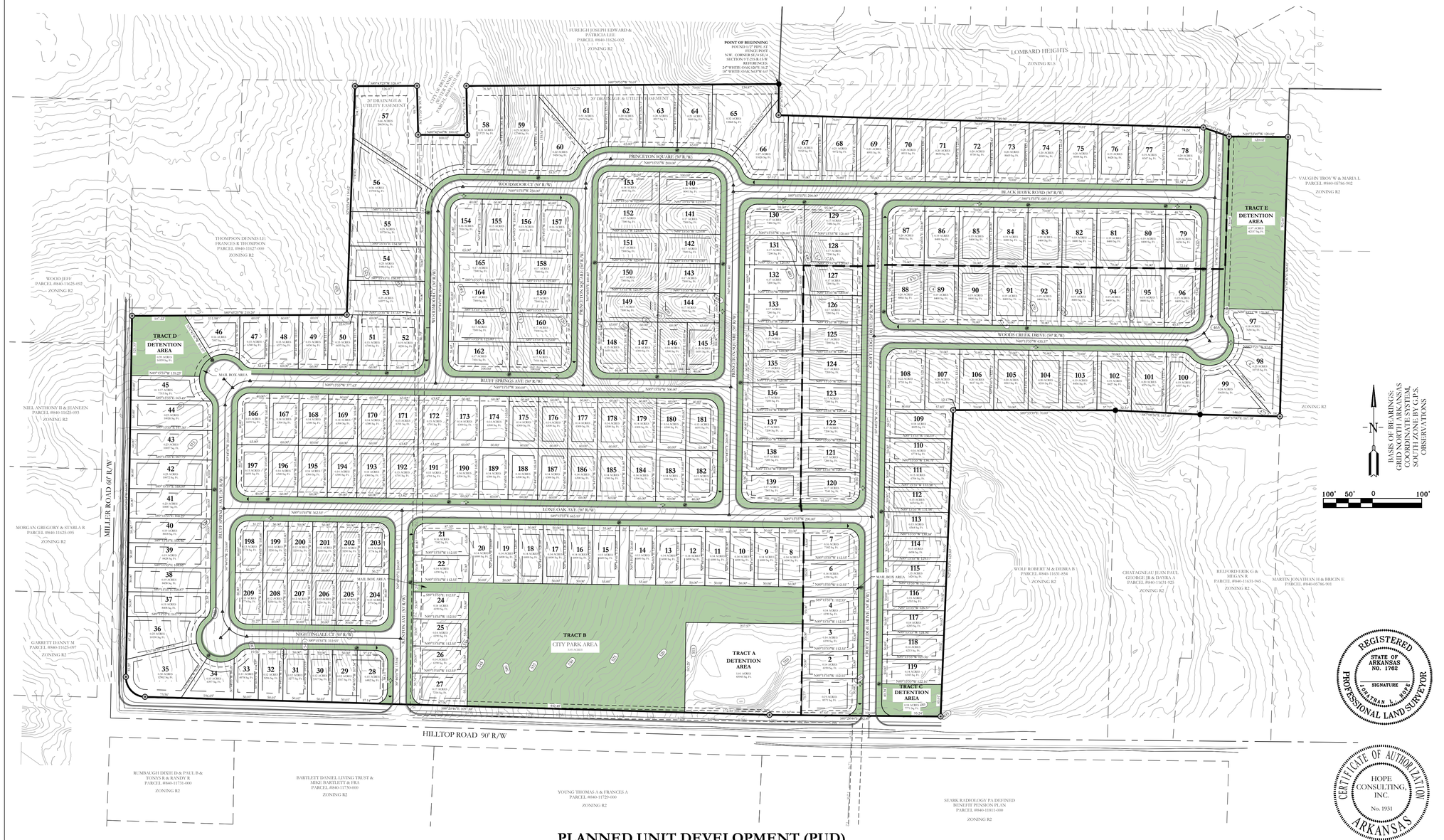
PROPERTY DESCRIPTION:

ALL OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AND PART OF THE FRACTIONAL NORTHEAST QUARTER OF THE NORTHEAST QUARTER AND ALL THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 4, TOWNSHIP 3 SOUTH, RANGE 20 WEST OF THE FIFTH PRINCIPAL MERIDIAN, SALINE COUNTY, ARKANSAS DESCRIBED AS FOLLOWS:

BEGINNING AT A FOUND 1/2" CAPPED REBAR AR LS# 1024 FOUND AT THE SW CORNER OF THE SW 1/4, NE 1/4; **THENCE,** N 89°38'29" E ALONG THE EAST SOUTH LINE THEREOF A DISTANCE OF 1283.05 FEET TO A FOUND 60-D NAIL AT A FENCE CORNER AND BEING THE SE CORNER OF THE SW 1/4 NE 1/4; **THENCE,** N 89°59'56" E ALONG THE SOUTH LINE THEREOF A DISTANCE OF 1568.52 FEET TO A FOUND BRIDGE SPIKE; BEING THE SE CORNER SE 1/4 NE 1/4;**THENCE,** N 01°13'00" E A DISTANCE OF 1320.16 FEET TO A 1" PIPE FOUND AT THE NE CORNER OF THE SE 1/4 NE 1/4; **THENCE,** N 02°44'51" E ALONG THE EAST LINE THEREOF A DISTANCE OF 816.61 FEET TO A 1/2" ALUMINUM CAPPED REBAR AT THE INTERSECTION OF SAID EAST LINE AND THE SOUTH RIGHT OF WAY LINE OF U.S. HIGHWAY 270 **THENCE,** ALONG SAID SOUTH LINE THE FOLLOWING COURSES:
N 83°58'56" W A DISTANCE OF 201.14 FEET;
N 65°38'55" W A DISTANCE OF 318.36 FEET;
N 54°50'43" W A DISTANCE OF 400.08 FEET;
N 64°42'59" W A DISTANCE OF 187.67 FEET;
N 73°41'47" W A DISTANCE OF 187.61 FEET;
S 89°53'45" W A DISTANCE OF 129.12 FEET TO A 1/2" CAPPED REBAR AR LS#1414 FOUND ON THE WEST LINE OF THE FRACTIONAL NE 1/4 NE 1/4; **THENCE,** S 01°17'39" W A DISTANCE OF 1286.53 FEET TO A 1" PIPE FOUND AT THE AT THE NE CORNER OF THE SW 1/4 NE 1/4 AS SHOWN ON SURVEY BY LEWIS & CLARK SURVEYING DATED 11/03/20;, SAID POINT BEING 64.78 FEET NORTH OF A FOUND ALUMINUM CAPPED REBAR MARKING THE TECHNICAL NE CORNER AS SHOWN ON SURVEY BY DON MICHAEL BRADY 4/13/2002;
THENCE, S 88°31'10" W A DISTANCE OF 1322.70 FEET TO A FOUND 2" PIPE AS SHOWN ON THE DON M. BRADY SURVEY DATED 4/13/02; **THENCE,** S 07°04'59" W ALONG A FENCE LINE A DISTANCE OF 27.99 FEET TO A 1/2" CAPPED REBAR AR LS#1414; **THENCE,** S 68°13'40" W ALONG A FENCE LINE A DISTANCE OF 34.98 FEET TO A 1/2" ALUMINUM CAPPED REBAR FOUND ON THE WEST LINE OF THE SW 1/4 NE 1/4; **THENCE,** S 01°33'48" W ALONG THE WEST LINE THEREOF A DISTANCE OF 1298.25 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 51.90 ACRES MORE OR LESS;

VICINITY MAP:





BASIS OF BEARINGS: GEODETIC NORTH, ARKANSAS COORDINATE SYSTEM, SOUTH ZONE BY G.P.S. OBSERVATIONS

100' 50' 0 100'

OWNER:
Name: NXT GEN HOMES LLC
Address: 19218 SUMMERSHADE DRIVE
BRYANT, AR 72022

DEVELOPER:
Name: NXT GEN HOMES LLC
Address: 19218 SUMMERSHADE DRIVE
BRYANT, AR 72022

CERTIFICATE OF OWNER:

We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the within plat.

Date of Execution _____ Name: _____

Source of Title: 2021-009870

CERTIFICATE OF PRELIMINARY SURVEYING ACCURACY:

I, Jonathan L. Hope, hereby certify that this proposed preliminary plat correctly represents a survey completed by me, or under my supervision on _____, 2022; that the boundary lines shown hereon correspond with the description in the deeds cited in the above Source Title; and that all monuments which were found or placed on the property are correctly described and located..

Date of Execution

Signed:
Jonathan L. Hope
Registered Professional
Land Surveyor No. 1762
Arkansas

CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY:

I, William W. McFadden, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown hereon actually exist and their location, size, type and material are correctly shown; and that all requirements of the City of Bryant Subdivision Rules and Regulations have been fully complied with.

Date of Execution

William W. McFadden
Registered Professional
Engineer, No. 14048 Arkansas

CERTIFICATE OF PRELIMINARY PLAT APPROVAL:

All requirements of the City of Bryant Subdivision Rules and Regulations relative to the preparation and submittal of a Preliminary Plat having been fulfilled, approval of this plat is hereby granted, subject of further provisions of said Rules and Regulations.

Date of Execution

Signed:
Rick Johnson, Chairman
Bryant Planning Commission

PROPERTY SPECIFICATIONS:

OWNER: NXT GEN HOMES LLC
19218 SUMMERSHADE DRIVE
BRYANT, AR 72022

DEVELOPER/ SUBDIVIDER: NXT GEN HOMES LLC
19218 SUMMERSHADE DRIVE
BRYANT, AR 72022

ENGINEERS: **HOPE CONSULTING INC.**
117 S. MARKET STREET
BENTON, AR 72015

NAME OF SUBDIVISION: HILLTOP MANOR

209 LOTS / 39.90 ACRES = 5.23 DUA

FOR SINGLE FAMILY HOMES ONLY

NUMBER OF LOTS: 209
EXISTING ZONING: R2 PROPOSED ZONING: PUD

PROPOSED DENSITY 5.85 HOMES PER ACRE
SOURCE OF WATER: CITY OF BRYANT
SOURCE OF SEWER: CITY OF BRYANT
SOURCE OF ELECTRIC: ENTERGY
SOURCE OF GAS: SUMMIT

BUILDING SETBACKS:
FRONT-25' OR AS SHOWN
REAR-15' OR AS SHOWN
SIDE-8' OR AS SHOWN

UTILITY & DRAINAGE EASEMENTS:
FRONT-10' OR AS SHOWN
REAR - 5' OR AS SHOWN
SIDE - 5' OR AS SHOWN

By affixing my seal and signature, I Jonathan L. Hope, Arkansas PLS No, 1762, hereby certify that this drawing correctly depicts a survey compiled by me or under my direct supervision.

NOTE: This survey was based on legal descriptions and title work furnished by others and does not represent a title search.

No portion of the property described hereon lies within the 100 year floodplain, according to the Flood Insurance Rate Map, panel # 05125C0225E, Dated: 06/05/2020 .

REGISTERED STATE OF ARKANSAS NO. 1762 SIGNATURE JONATHAN L. HOPE PROFESSIONAL LAND SURVEYOR

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 1931 ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
NXT GEN HOMES LLC

OPEN SPACE:

TRACT A	DETENTION	1.01 ACRES
TRACT B	CITY PARK	3.05 ACRES
TRACT C	DETENTION	0.18 ACRES
TRACT D	DETENTION	0.39 ACRES
TRACT E	DETENTION	0.97 ACRES
TRACT F	RW - BOC	3.55 ACRES
TOTAL		9.15 ACRES OR 17 %

NOTE:

TRACTS A,B, C, D AND E WILL BE UTILIZED FOR DRAINAGE AND UTILITIES PURPOSES AND WILL MAINTAINED BY THE PROPERTY OWNERS ASSOCIATION (POA) OR IMPROVEMENT DISTRICT.

PLANNED UNIT DEVELOPMENT (PUD)
HILLTOP MANOR SUBDIVISION
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS.

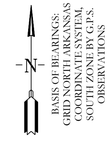
LEGEND
- Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M)- Measured
(P) - Plat/Deed
- Fence

PLANNED UNIT DEVELOPMENT (PUD)
HILLTOP MANOR SUBDIVISION
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS.

DATE:	10/05/2022	C.A.D. BY:	B.JOHNSON				DRAWING NUMBER:	
REVISED:		CHECKED BY:					20-1341	
SHEET:		SCALE:	1"= 100'					
500	01S	14W	0	09	200	62	1762	

C:\Civil Projects 2020\Hope Consulting\2020-20-1341 Miller & Hilltop\20-1341 Hilltop Plat.dwg, 10/5/2022 2:38:41 PM, Jonathan Hope





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ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:

NXT GEN HOMES LLC

PLANNED UNIT DEVELOPMENT (PUD)
EXISTING SIGNIFICANT VEGETATION AND DRAINAGE
HILLTOP MANOR SUBDIVISION

A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS.

DATE: 10/05/2022	C.A.D. BY: BJOHNSON	DRAWING NUMBER:	
REVISED:	CHECKED BY:	20-1341	
SHEET:	SCALE: 1"= 100'		

500	01S	14W	0	09	200	62	1762

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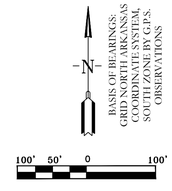


HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:

NXT GEN HOMES LLC

PLANNED UNIT DEVELOPMENT (PUD)
ENTRANCE LANDSCAPE PLAN
HILLTOP MANOR SUBDIVISION

A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS.

DATE: 10/05/2022	C.A.D. BY: BJOHNSON	DRAWING NUMBER:	
REVISED:	CHECKED BY:	20-1341	
SHEET:	SCALE: 1"= 100'		

500	01S	14W	0	09	200	62	1762

Current Drawings\Hilltop Manor\Hilltop Manor 20-1341 Entrance Landscape Plan.dwg

HOPE
CONSULTING
ENGINEERS • SURVEYORS

September 28, 2022

Truett Smith
City of Bryant
210 Southwest Third St., Bryant, AR 72022

RE: Rezone Request from R2 to PUD (Planned Unit Development)
Parcel #: 840-11625-125

Dear Mr. Truett Smith,

I represent NXT Gen Homes LLC, in the above-captioned matter. This 54 acre piece of property is located inside the City of Bryant. This property has access to Bryant water and sewer. This development will be for single family residential homes.

Hilltop Manor will create a mixture of lot and home sizes in a unique neighborhood. This neighborhood will feature abundnt green space for the neighborhood to gather. Our clients neighborhoods have been extremely successful in West Little Rock. They are excited to bring their unique neighborhood to Bryant.

It is our goal to be included on the November 14th, 2022 Planning Commission agenda.

Please feel free to contact me with any questions or concerns or if I can be of any further assistance.

Sincerely,

Jonathan Hope

Jonathan Hope
Hope Consulting, Inc.

117 South Market St. Benton, Arkansas 72015
501-315-2626
www.hopeconsulting.com

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

Rezoning Application

Applicants are advised to read the Amendments section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at www.cityofbryant.com under the Planning and Community Development tab.

Date: 9/27/2022

Applicant or Designee:

Name Jonathan Hope

Address 117 S.Market Street

Phone 501-315-2626

Email Address jonathan@hopeconsulting.com

Property Owner (If different from Applicant):

Name NXT GEN Homes, LLC

Address 19218 SUMMERSHADE DR

Phone 501-240-0049

Email Address scott@arlr.et

Property Information:

Address _____

Parcel Number 840-11625-125

Existing Zoning Classification R-2

Requested Zoning Classification PUD

Legal Description (If Acreage or Metes and Bounds description, please attach in a legible typed format)

54 Acres See Exhibit Attached

Application Submission Checklist:

☒ Letter stating request of zoning change from (Current Zoning) to (Requested Zoning) and to be placed on the Planning Commission Agenda

☒ Completed Rezoning Application

☒ Rezoning Application Fee ($40 fee for lot and black descriptions or $125 for acreage or metes and bound descriptions)

☒ If someone, other than the owner, will be handling the zoning process, we will require a

letter from the owner of said property, giving him or her authority to do so.

☒ Recent surveyed plat of the property including vicinity map

Additional Requirements:

*Items below **must be completed before the public hearing can occur**. Failure to provide notices in the following manners shall require delay of the public hearing until notice has been properly made.*

☐ Publication: Public Notice shall be published by the applicant at least one (1) time fifteen (15) days prior to the public hearing at which the rezoning application will be heard. Once published please provide a proof of publication to the Community Development office. (Sample notice attached below)

☐ Posting of Property: The city shall provide signs to post on the property involved for the fifteen (15) consecutive days leading up to Public hearing. One (1) sign is required for every two hundred (200) feet of street frontage.

☐ Notification of adjacent landowners: Applicant shall attempt to inform by certified letter, return receipt requested, all owners of land within three hundred (300) feet of any boundary of the subject property of the public hearing. (Sample letter attached below)

☐ Certified list of property owners, all return receipts, and a copy of the notice shall be provided to the Community Development Department at least five (5) days prior to the public hearing.

Note: that this is not an exhaustive guideline regarding the Conditional Use Permit Process. Additional information is available in the Bryant Zoning Ordinance.

READ CAREFULLY BEFORE SIGNING

I _____, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all City Codes that pertain to this project and that it is my responsibility to obtain all necessary permits as needed.

NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, November 14th, 2022 at 6:00 P.M. at the Bryant City Office Complex, 210 Southwest 3rd Street, City of Bryant, Saline County, for the purpose of public comment on a rezone request at the site of Parcel #840-11625-125 (address).

A legal description of this property can be obtained by contacting the Bryant Department of Community Development.

Rick Johnson
Chairman Board of Zoning Adjustment
City of Bryant

This notice is to be run in the legal notices section of the Saline Courier no less than 15 days prior to the public hearing.

September 27, 2022

RE: Rezoning Petition

The property located at NE Corner f Miller and Hilltop is being considered for rezoning from R2 to PUD. The property is more particularly described as follows:

Parcel # 840-11625-125

An application has been filed with the City of Bryant Planning Commission to rezone the property. As part of this process, a public hearing will be held on Monday November 14th, 2022 at 6:00 PM in the Boswell Community Center Courtroom, 210 SW 3rd Street, Bryant, AR 72022.

Public comments will be accepted at that time regarding this rezoning. Since you own property within 300 feet of the property in consideration, you have been sent this letter via certified mail as required by city ordinance.

Should you have any questions regarding this matter you may contact the City of Bryant at 501-943-0857 or by contacting me at 501-860-0467.

Thank you for your consideration in this matter.

Sincerely,

Jonathan Hope

Hope Consulting



City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

Conditional Use Permit Application

Applicants are advised to read the Conditional Use Permit section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at www.cityofbryant.com under the Planning and Community Development tab.

Date: 24 Oct 22

Applicant or Designee:

Name Reynald Parham Sr.
Address 6133 Creekwater Dr
Phone 808-489-6304
Email Address: rparham320@yahoo.com

Project Location:

Property Address 6133 Creekwater Drive
Alexander, AR 72002
Parcel Number 840-03790-087
Zoning Classification _____

Property Owner (If different from Applicant):

Name _____
Phone _____
Address _____
Email Address _____

Additional Information:

Legal Description (Attach description if necessary)

_____

_____

Description of Conditional Use Request (Attach any necessary drawings or images)

Storage Building on property (See Drawing)

_____

Proposed/Current Use of Property Home/Living Space

Application Checklist

Requirements for Submission

- ☑ Letter stating request of Conditional Use and reasoning for request
- ☑ Completed Conditional Use Permit Application
- ☑ Submit Conditional Use Permit Application Fee ($125)
- ☑ Submit Copy of completed Public Notice
- ☐ Publication: Public Notice shall be published at least one (1) time fifteen (15) days prior to the public hearing at which the variance will be heard. Once published please provide a proof of publication to the Community Development office.
- ☐ Posting of Property: The city shall provide a sign to post on the property involved for the fifteen (15) consecutive days leading up to Public hearing. One (1) sign is required for every two hundred (200) feet of street frontage.
- ☑ Submit eight (8) Copies of the Development Plan (Site Plan) showing:
    - Location, size, and use of buildings/signs/land or improvements
    - Location, size, and arrangement of driveways and parking. Ingress/Egress
    - Existing topography and proposed grading
    - Proposed and existing lighting
    - Proposed landscaping and screening
    - Use of adjacent properties
    - Scale, North Arrow, Vicinity Map
    - Additional information that may be requested by the administrative official due to unique conditions of the site.

Once the application is received, the material will be reviewed to make sure all the required information is provided. The applicant will be notified if additional information is required. The application will then go before the Development and Review Committee (DRC) for a recommendation to the Planning Commission. A public hearing will be held at this meeting for comments on the Conditional Use. After the public hearing, the Planning Commission will make a decision on the use.

Note: that this is not an exhaustive guideline regarding the Conditional Use Permit Process. Additional information is available in the Bryant Zoning Ordinance.

READ CAREFULLY BEFORE SIGNING

I _____, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all City Codes and that it is my responsibility to obtain all necessary permits required.

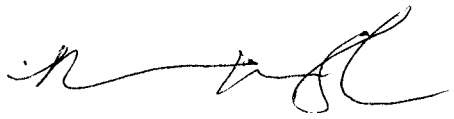
Oct 24th, 2022

Reginald Parham Sr
6133 Creekwater Drive
Alexander, Ar 72002
(808) 489-6304

Subject- Application for Conditional Use Permit

Description-

Currently, we have two prefabricated buildings located at the above address (Parcel # 840-03790-087). When purchasing the buildings, I was unaware of the need for building permits. Our existing residence is 2822 sqft. The first building is 10x20(200 sqft) and the second building is 16x40(640 sqft). On 20 Oct 22, I was informed that I am only allowed to have approximately 700 sqft of additional space. The total of square footage of both buildings are 840 sqft, putting me over the threshold of 700 sqft by 140 sqft. The proposed use of both buildings will not be materially detrimental to the public welfare or injurious to the property. The 10x20 will be used as storage for lawn equipment, holiday decorations and any other additional equipment. 16x40 will be used as She Shed and Man Cave (once completed). At no time shall either building be used as living quarters. All appropriate actions have been taken to ensure that both buildings have place on our property within the City of Bryant's guidelines. We have been living in the neighborhood for approximately 6 months. We're good neighbors and will continue to be so. We have not had any complaints or issues with any of our surrounding neighbors.



Reginald Parham Sr.



Home is 2826 sqft

16x40 is 640 sqft

10x20 is 200 sqft

Total additional sqft is 840

LEGEND

- ◬ - Computed point
- ● - Found monument
- ⊙ - Set #4 RB/Plas. Cap
- (M)-Measured
- (R)-Record
- (P)-Platted

CERTIFICATE OF OWNER:

We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the within plat.

Date:_____ Signed:_____

MARGE A HIGGINBOTHAM

CERTIFICATE OF SURVEYING ACCURACY:

I, George P. Wooden, hereby certify that this plat correctly represents a lot survey made by me or under my supervision on 10/7/2022; that the lot lines shown hereon correspond with the description in Lots 7-9, Block 8, Original Town of Bryant; and that all monuments which were found or placed on the property are correctly described and located.

Date:_____ Signed:_____

George P. Wooden
Registered Land Surveyor
No. 1573, Arkansas

CERTIFICATE OF FINAL PLAT APPROVAL:

Pursuant to the City of Bryant Subdivision Rules and Regulations, and all of the conditions of approval having been completed, this document is hereby accepted. This certificate is hereby executed under the authority of said rules and regulations.

Date:_____ Signed:_____

Rick Johnson
Planning Commission Chairman

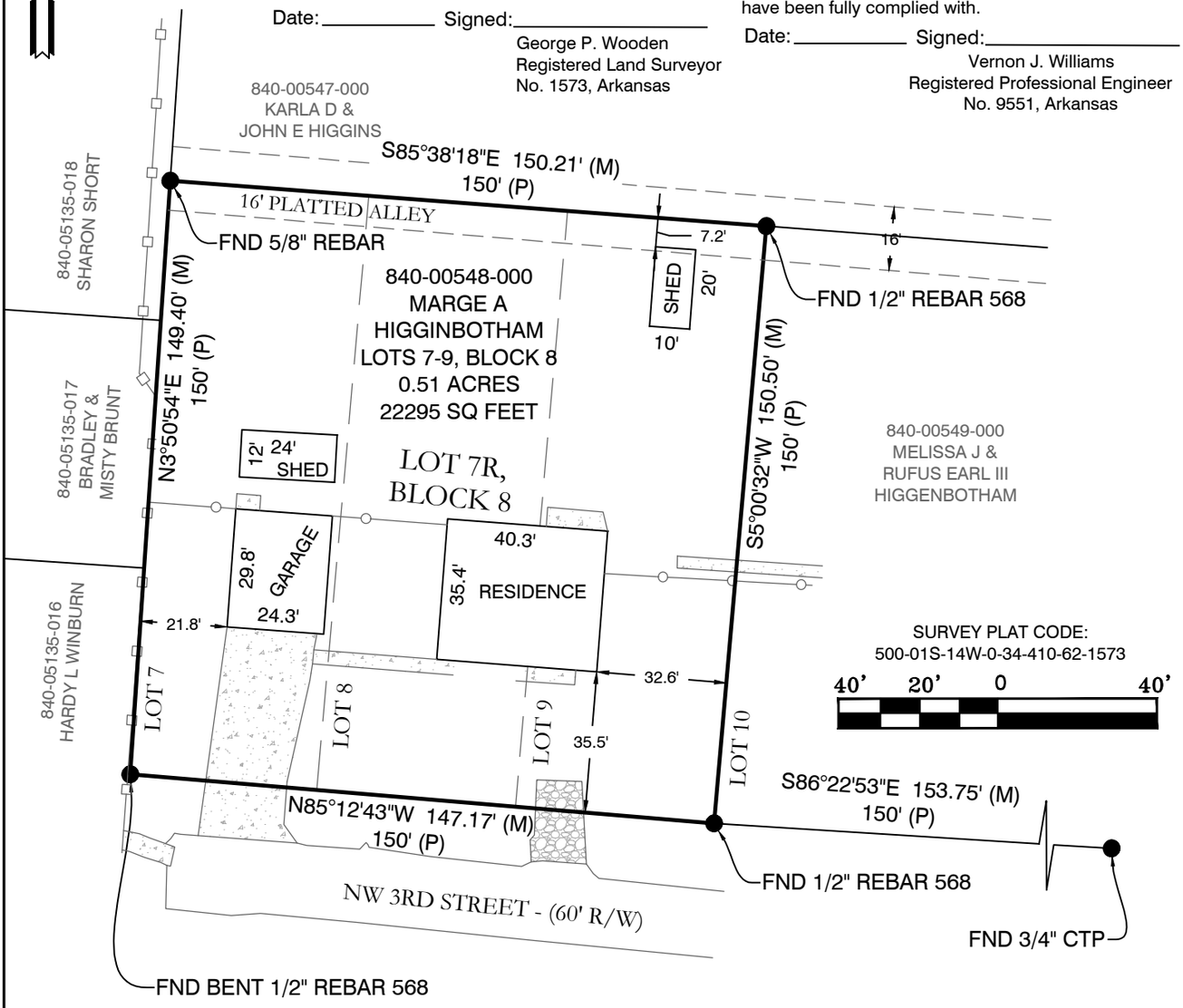
CERTIFICATE OF ENGINEERING ACCURACY:

I, Vernon J. Williams, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown hereon actually exist and their locations, size, type, and material are correctly shown; and that all requirements of the City of Bryant Subdivision Rules and Regulations have been fully complied with.

Date:_____ Signed:_____

Vernon J. Williams
Registered Professional Engineer
No. 9551, Arkansas

CERTIFICATE OF AUTHORIZATION
GarNat Engineering, LLC.
No. 2174
ARKANSAS



SURVEY PLAT CODE:
500-01S-14W-0-34-410-62-1573

40' 20' 0 40'

DOCUMENTS USED FOR THE PREPARATION OF THIS SURVEY:

- PLAT OF ORIGINAL TOWN OF BRYANT

ORIGINAL DESCRIPTION:

- LOTS 7-9, BLOCK 8, ORIGINAL TOWN OF BRYANT SALINE COUNTY, ARKANSAS

REPLAT DESCRIPTION:

- LOT 7R, BLOCK 8, ORIGINAL TOWN OF BRYANT SALINE COUNTY, ARKANSAS

CERTIFICATIONS:

BY AFFIXING MY SEAL AND SIGNATURE, I GEORGE P. WOODEN, PS NO.1573, HEREBY CERTIFY THAT THIS DRAWING CORRECTLY DEPICTS A SURVEY COMPILED UNDER MY SUPERVISION ON OCT 07, 2022.

THIS SURVEY WAS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS AND DOES NOT REPRESENT A TITLE SEARCH.

THIS PROPERTY IS NOT LOCATED IN THE 100 YEAR FLOOD PLAIN. THE PROPERTY SHOWN ON THIS PLAT IS LOCATED IN ZONE "X" OF THE F.E.M.A. MAP PANEL 05125C0380E EFFECTIVE DATE JUNE 05, 2020.

BASIS OF BEARINGS:

BEARINGS ARE BASED UPON NORTH AMERICAN DATUM 1983, ARKANSAS SOUTH ZONE, US SURVEY FEET, GRID COORDINATES. COORDINATES WERE ESTABLISHED USING GPS AND WERE PROCESSED USING THE NATIONAL GEODETIC SURVEY'S "ONLINE POSITIONING USER SERVICE" (OPUS).

REGISTERED PROFESSIONAL SURVEYOR
STATE OF ARKANSAS
NO. 1573
SIGNATURE
GEORGE P. WOODEN

10-7-22

GNE Designing our client's success

GarNat Engineering, LLC

P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650

3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

CONTENTS:
REPLAT
SURVEY

406 NW 3RD STREET
BRYANT, ARKANSAS
72022

FOR THE USE & BENEFIT OF:

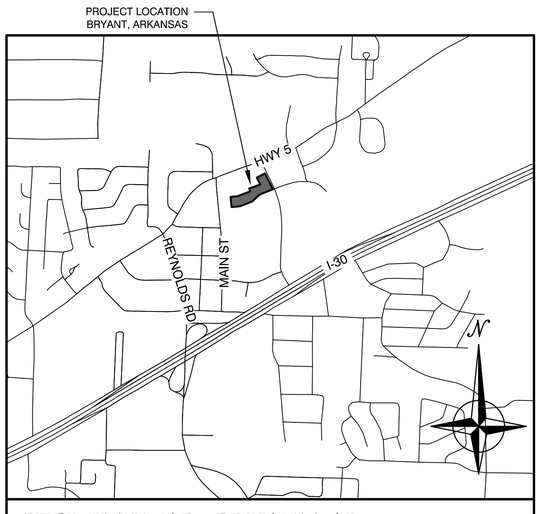
MARGE A HIGGINBOTHAM

PROJECT NO:
22181

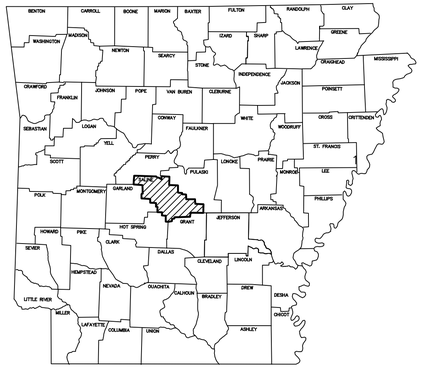
DATE:
OCT. 07, 2022

CONSTRUCTION PLANS FOR

BRYANT REALTY COMPANY, LLC
MARKET PLACE CENTER II
PHASE 2
BRYANT, ARKANSAS



VICINITY MAP - BRYANT, AR



ARKANSAS

Prepared by:

GarNat Engineering, LLC

P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650

3825 Mt Carmel Road
Bryant, AR 72022
www.garnatengineering.com

Designing our client's success

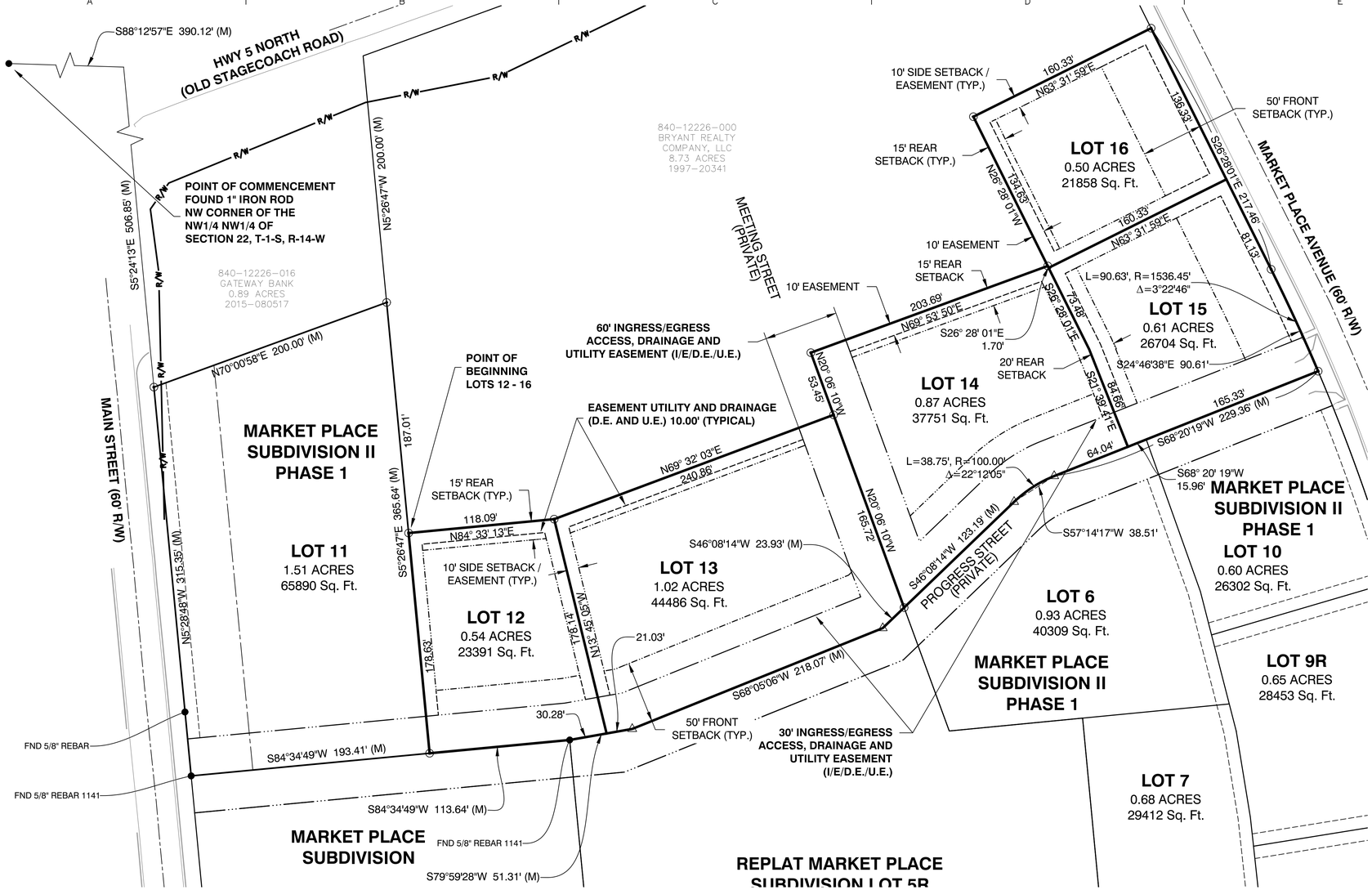
STATE OF ARKANSAS
Vernon Williams
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-27-2022

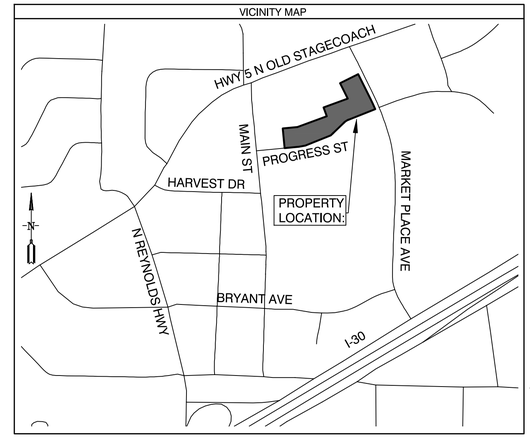
CERTIFICATE OF AUTHORIZATION
GarNat Engineering, LLC
No. 2174
ARKANSAS

DRAWING INDEX:

V1.0	FINAL PLAT MARKET PLACE II PHASE II SUBDIVISION
C2.0	GRAVITY SEWER MAIN C PLAN AND PROFILE
C3.0	SCHEMATIC PLAN



VICINITY MAP



SUBDIVISION DESCRIPTION:

LOCATED IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER (NW1/4 NW1/4) AND THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4 NW1/4), OF SECTION 22, TOWNSHIP 1 SOUTH, RANGE 14 WEST, SALINE COUNTY, ARKANSAS, MORE PRECISELY DESCRIBED AS FOLLOWS:

LOTS 12 - 16:
COMMENCING AT A FOUND 1" IRON ROD LOCATED AT THE NORTHWEST CORNER OF THE SAID NW1/4 NW1/4 OF SECTION 22, T-1-S, R-14-W; THENCE S 88°12'57" E, ALONG THE NORTH LINE THEREOF FOR A DISTANCE OF 390.12 FEET TO A POINT; THENCE S 5°24'13" E, ALONG THE EAST RIGHT OF WAY LINE OF MAIN STREET A DISTANCE OF 506.85 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED AT THE SOUTHWEST CORNER OF GATEWAY BANK PROPERTY DEED BOOK 2015 PAGE 080517; THENCE N 70°00'58" E, LEAVING SAID RIGHT OF WAY AND ALONG SOUTH LINE OF GATEWAY BANK PROPERTY FOR A DISTANCE OF 200.00 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE S 5°26'47" E FOR A DISTANCE OF 187.01 FEET TO A SET 1/2" REBAR WITH CAP #1573 FOR THE **POINT OF BEGINNING;** THENCE N 84°33'13" E FOR A DISTANCE OF 118.09 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N 69°32'03" E FOR A DISTANCE OF 240.86 FEET TO A SET 1/2" REBAR WITH CAP #1573 IN THE CENTER OF MEETING STREET; THENCE N 20°06'10" W, ALONG THE CENTER OF SAID MEETING STREET, FOR A DISTANCE OF 53.45 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N 69°53'50" E, LEAVING SAID MEETING STREET, FOR A DISTANCE OF 203.69 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N 26°28'01" W FOR A DISTANCE OF 134.63 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N 63°31'59" E FOR A DISTANCE OF 160.33 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED ON THE WEST RIGHT OF WAY OF MARKET PLACE AVENUE; THENCE S 26°28'01" E, ALONG SAID RIGHT OF WAY, FOR A DISTANCE OF 217.46 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE ALONG A CURVE TO THE RIGHT, WITH A RADIUS OF 1536.45 FEET AND A LENGTH OF 90.63 FEET, WHOSE CHORD BEARS S 24°46'38" E - 90.61 FEET TO SET MAG NAIL WITH SHINER WASHER #1573 IN THE CENTER OF PROGRESS STREET AND THE NORTH LINE OF MARKET PLACE II SUBDIVISION PHASE 1; THENCE S 68°20'19" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF MARKET PLACE II SUBDIVISION, FOR A DISTANCE OF 229.36 FEET TO A POINT; THENCE CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF MARKET PLACE II SUBDIVISION, ALONG A CURVE TO THE LEFT, WITH A RADIUS OF 100.00 FEET AND A LENGTH OF 38.75 FEET, WHOSE CHORD BEARS S 57°14'17" W - 38.51 FEET TO A POINT; THENCE S 46°08'14" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF MARKET PLACE II SUBDIVISION, FOR A DISTANCE OF 123.19 FEET TO A FOUND MAG NAIL WITH SHINER WASHER #1573 LOCATED ON THE NORTH LINE OF LOT 5R OF THE REPLAT OF MARKET PLACE SUBDIVISION; THENCE S 46°08'14" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF LOT 5R, FOR A DISTANCE OF 23.93 FEET TO A POINT; THENCE S 68°05'06" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF LOT 5R, FOR A DISTANCE OF 218.07 FEET TO A POINT; THENCE S 79°59'28" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF LOT 5R, FOR A DISTANCE OF 51.31 FEET TO A FOUND 5/8" REBAR WITH CAP #1141 LOCATED AT THE NORTHWEST CORNER OF LOT 5R; THENCE S 84°34'49" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF MARKET PLACE SUBDIVISION, FOR A DISTANCE OF 113.64 FEET TO A FOUND MAG NAIL WITH SHINER WASHER #1573 LOCATED AT THE SOUTHEAST CORNER OF LOT 11 OF MARKET PLACE II SUBDIVISION PHASE 1; THENCE N 5°26'47" W, ALONG THE EAST LINE OF SAID LOT 11, FOR A DISTANCE OF 173.63 FEET TO THE **POINT OF BEGINNING**, CONTAINING 3.54 ACRES MORE OR LESS.

DOCUMENTS USED:

- SURVEY BY REAL ESTATE SERVICES OF SALINE COUNTY, INC. DATED 11/15/2018 KERRY LANE PLS #1141
- SURVEY BY REAL ESTATE SERVICES OF SALINE COUNTY, INC. DATED 4/2/2007 KERRY LANE PLS #1141
- SURVEY BY REAL ESTATE SERVICES OF SALINE COUNTY, INC. DATED 1/4/2018 KERRY LANE PLS #1141
- DEED BOOK 2016 PAGE 016810
- DEED BOOK 1997 PAGE 20341
- DEED BOOK 2008 PAGE 82137
- DEED BOOK 2000 PAGE 27385
- DEED BOOK 2000 PAGE 27387
- DEED BOOK 2015 PAGE 080517
- DEED BOOK 2018 PAGE 000713
- FINAL PLAT OF MARKET PLACE SUBDIVISION SURVEYED BY GARNAT ENGINEERING, LLC DATED 6/4/2019 GEORGE WOODEN PLS #1573

BASIS OF BEARINGS:

BENCHMARK(S) PROVIDED ARE REBAR AND COORDINATES ON BENCHMARKS ARE NORTH AMERICAN DATUM 1983, ARKANSAS SOUTH ZONE, US SURVEY FEET, GRID COORDINATES AND ELEVATIONS ARE NAVD 1988. COORDINATES AND ELEVATIONS WERE ESTABLISHED USING GPS AND WERE PROCESSED USING THE NATIONAL GEODETIC SURVEY'S "ONLINE POSITIONING USER SERVICE" (OPUS).

CERTIFICATIONS:

BY AFFIXING MY SEAL AND SIGNATURE, I GEORGE P. WOODEN, PS NO.1573, HEREBY CERTIFY THAT THIS DRAWING CORRECTLY DEPICTS A SURVEY COMPILED UNDER MY SUPERVISION ON SEPTEMBER 11, 2019.

THIS SURVEY WAS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS AND DOES NOT REPRESENT A TITLE SEARCH.

THIS PROPERTY IS NOT LOCATED IN THE 100 YEAR FLOOD PLAIN. THE PROPERTY SHOWN ON THIS PLAT IS LOCATED IN ZONE "X" OF THE F.E.M.A. MAP PANEL 05125C0240E EFFECTIVE DATE JUNE 05, 2020.

PLAT CERTIFICATES:

OWNER:
Name: Bryant Realty Company, LLC
Address: 422 North Main Street, Benton, AR 72015

DEVELOPER:
Name: Bryant Realty Company, LLC
Address: 422 North Main Street, Benton, AR 72015

CERTIFICATE OF OWNER:
We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the within plat.

Date: _____ Signed: _____
Fred Briner, Agent
Bryant Realty Company, LLC

Source of Title: SALINE COUNTY, ARKANSAS
Saline County Document# 1997-20341

CERTIFICATE OF ENGINEERING ACCURACY:
I, Vernon J. Williams, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown hereon actually exist and their locations, size, type, and material are correctly shown; and that all requirements of the City of Bryant Subdivision Rules and Regulations have been fully complied with.

Date: _____ Signed: _____
Vernon J. Williams
Registered Professional Engineer
No. 9551, Arkansas

CERTIFICATE OF RECORDING:

CERTIFICATE OF SURVEYING ACCURACY:
I, George P. Wooden, hereby certify that this plat correctly represents a boundary survey made by me or under my supervision; that the boundary lines shown hereon correspond with the description in the deeds cited in the above Source of Title; and that all monuments which were found or placed on the property are correctly described and located.

Date: _____ Signed: _____
George P. Wooden
Registered Land Surveyor
No. 1573, Arkansas

CERTIFICATE OF FINAL PLAT APPROVAL:
Pursuant to the City of Bryant Subdivision Rules and Regulations, this document was given approval by the Bryant Planning Commission. All of the document is hereby accepted, and this certificate executed under the authority of said rules and regulations.

Date: _____ Signed: _____
Rick Johnson, Chairman
Bryant Planning Commission

CERTIFICATE OF AUTHORIZATION
GarNat Engineering, LLC
No. 2174
ARKANSAS

FINAL PLAT
MARKET PLACE II SUBDIVISION
PHASE 2
LOTS 12 THROUGH 16
CITY OF BRYANT
SALINE COUNTY, ARKANSAS

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
VERNON J. WILLIAMS
NO. 9551

PROPERTY SPECIFICATIONS:

ZONING CLASSIFICATION: C-2

SOURCE OF WATER: CITY OF BRYANT
SOURCE OF SEWER: CITY OF BRYANT

BUILDING SETBACKS (SB):
FRONT - 50'
REAR - 15'
SIDE - 0'

EASEMENTS: UTILITY & DRAINAGE (D.E. & U.E.)
FRONT, SIDE AND REAR - 10' OR AS SHOWN
INGRESS/EGRESS (I/E)
LOT CORNERS: SET #4 REBAR WITH CAP

SURVEY LEGEND
△ - Computed point
● - Found monument
⊙ - Set #4 RB/Plas. Cap or Mag Nail with Shiner
(M)-Measured
(R)-Record
(P)-Platted

N
50' 25' 0 50'

SURVEY PLAT CODE:
500-01S-14W-0-22-400-62-1573

BY	REVISION	DATE

GNE Designing our client's success

GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
3825 Mt Carmel Road
Bryant, AR 72022
Ph. (501) 408-4650
garnatengineering@gmail.com

BRYANT REALTY COMPANY, LLC
MARKET PLACE II SUBDIVISION
CITY OF BRYANT
SALINE COUNTY, ARKANSAS

REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF ARKANSAS
NO. 1573
SIGNATURE
GEORGE P. WOODEN

CONTENTS:
FINAL PLAT
LOTS 12 - 16
PHASE 2

PROJECT NO:
18087

DATE:
OCT. 5, 2022

SHEET NO:
V1.0

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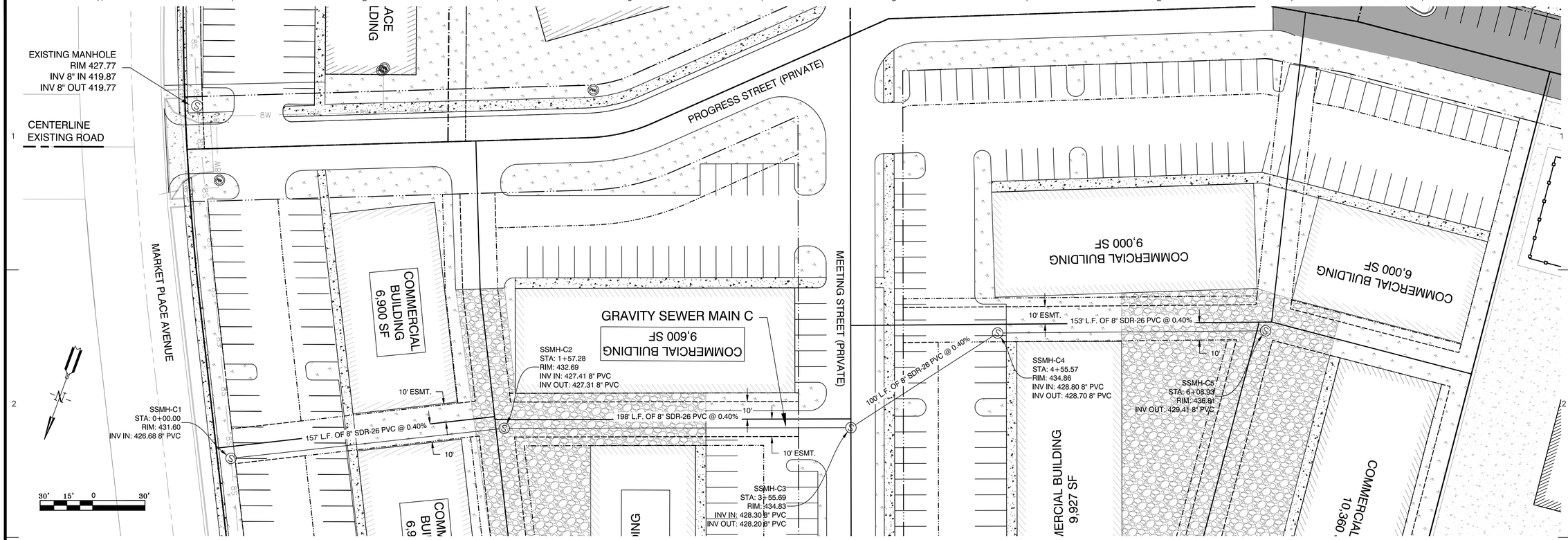
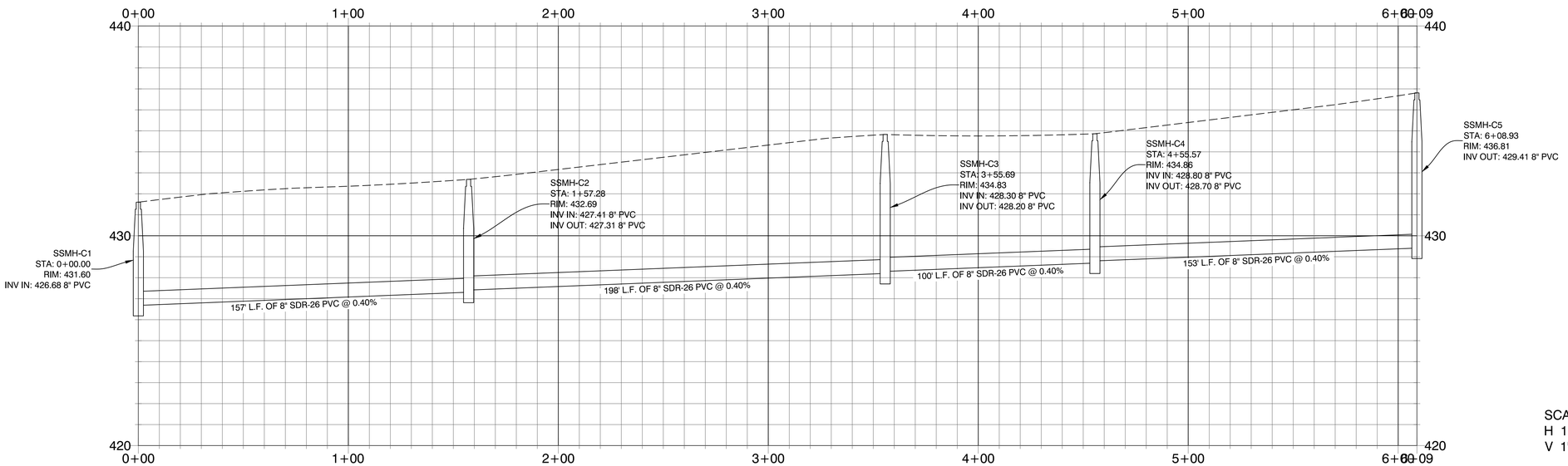




GRAVITY SEWER MAIN C PROFILE

SCALE:
H 1" = 30'
V 1" = 3'

DATE	REVISION	BY
01-25-22	REVISED PER AS-BUILT	GPW

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com
Ph (501) 408-4650

MARKET PLACE CENTER II
PHASE 2
CITY OF BRYANT
SALINE COUNTY, ARKANSAS

STATE OF ARKANSAS
Vernon J. Williams
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-27-2022

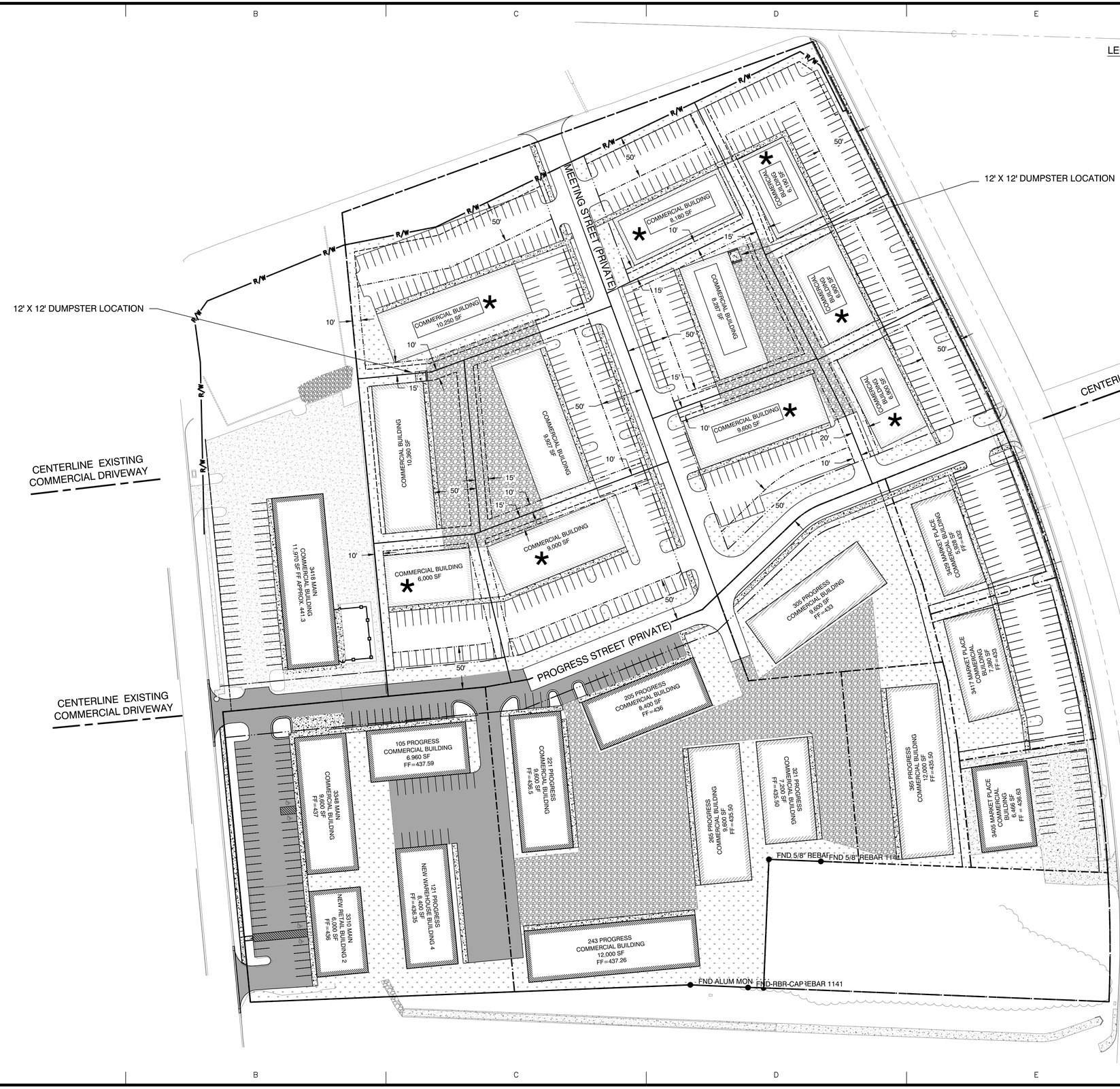
CONTENTS:
GRAVITY SEWER MAIN C PLAN & PROFILE

PROJECT NO: 18087

DATE: OCTOBER 2022

SHEET NO: C2.0

A:\Projects\2018 Projects\18087 Bart Ferguson - Market Place Center\Drawings\Utility\Design\18087 - Market Place II - Gravity Sewer - Phase II - 102022.dwg



DATE	REVISION	BY
01-25-22	REVISED PER AS-BUILT	GPW

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
3825 Mt Carmel Rd
Bryant, AR 72022
Ph (501) 408-4650
garnatengineering@gmail.com

MARKET PLACE CENTER
CITY OF BRYANT
SALINE COUNTY, ARKANSAS

STATE OF ARKANSAS
Vernon W. Williams
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-27-2022

CONTENTS:

SCHEMATIC PLAN

PROJECT NO: 18087

DATE: OCTOBER 2022

SHEET NO: C3.0

J:\Projects\2018 Projects\18087 Bart Ferguson - Market Place Center\Planning\DWG\Sheets\18087 - SCHEMATIC - 08-10-05-22-01.dwg

BILL OF ASSURANCE

OF

MARKET PLACE SUBDIVISION II, PHASE 2

THIS BILL OF ASSURANCE, made on the date hereinafter set forth by Bryant Realty Company, LLC, hereinafter referred to as "Declarant".

WITNESSETH:

WHEREAS, Declarant is the owner of certain property in the City of Bryant, County of Saline, State of Arkansas, which is more particularly described as:

LOCATED IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER (NW1/4 NW1/4) AND THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4 NW1/4), OF SECTION 22, TOWNSHIP 1 SOUTH, RANGE 14 WEST, SALINE COUNTY, ARKANSAS, MORE PRECISELY DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATED AT THE NORTHWEST CORNER OF THE SAID NW1/4 NW1/4 OF SECTION 22, T-1-S, R-14-W; THENCE S 88°12'57" E, ALONG THE NORTH LINE THEREOF FOR A DISTANCE OF 390.12 FEET TO A POINT; THENCE S 5°24'13" E, ALONG THE EAST RIGHT OF WAY LINE OF MAIN STREET A DISTANCE OF 506.85 FEET TO A FOUND 1/2" REBAR WITH CAP #1573 LOCATED AT THE SOUTHWEST CORNER OF GATEWAY BANK PROPERTY DEED BOOK 2015 PAGE 080517 FOR THE **POINT OF BEGINNING**; THENCE N 70°00'58" E, LEAVING SAID RIGHT OF WAY AND ALONG SOUTH LINE OF GATEWAY BANK PROPERTY FOR A DISTANCE OF 200.00 FEET TO A FOUND 1/2" REBAR WITH CAP #1573; THENCE N 5°26'47" W FOR A DISTANCE OF 200.00 FEET TO A FOUND 1/2" REBAR WITH CAP #1573 ON THE SOUTH RIGHT OF WAY OF ARKANSAS STATE HIGHWAY NO. 5; THENCE N 70°00'57" E, ALONG SAID SOUTH RIGHT OF WAY OF ARKANSAS STATE HIGHWAY NO. 5, A DISTANCE OF 583.36 FEET TO A FOUND 1/2" REBAR WITH CAP #1573 AT THE INTERSECTION OF THE WEST RIGHT OF WAY OF MARKET PLACE AVENUE; THENCE S 26°28'01" E, ALONG SAID WEST RIGHT OF WAY OF MARKET PLACE AVENUE, FOR A DISTANCE OF 415.23 FEET TO A FOUND 1/2" REBAR WITH CAP #1573; THENCE ALONG A CURVE TO THE RIGHT, WITH A RADIUS OF 1536.45 FEET AND A LENGTH OF 621.17 FEET, WHOSE CHORD BEARS S 14°53'06" E - 616.95 FEET TO FOUND 1/2" REBAR WITH

CAP #1573 LOCATED AT THE NORTHEAST CORNER OF HAMID PEZESHK PROPERTY DEED BOOK 2018 PAGE 000713; THENCE N 87°45'26" W, LEAVING SAID WEST RIGHT OF WAY OF MARKET PLACE AVENUE AND ALONG SAID PEZESHK NORTH PROPERTY LINE, FOR A DISTANCE OF 289.92 FEET TO A FOUND 1/2" REBAR WITH CAP #1573 LOCATED ON THE BOUNDARY LINE OF LOT 5R OF THE REPLAT OF MARKET PLACE SUBDIVISION; THENCE N 5°23'42" W, ALONG SAID BOUNDARY LINE OF LOT 5R, FOR A DISTANCE OF 223.52 FEET TO A FOUND 1/2" REBAR WITH CAP #1573; THENCE S 84°28'58" W, CONTINUING ALONG SAID BOUNDARY LINE OF LOT 5R, FOR A DISTANCE OF 108.18 FEET TO A FOUND 1/2" REBAR WITH CAP #1573; THENCE N 20°06'31" W, CONTINUING ALONG SAID BOUNDARY LINE OF LOT 5R, FOR A DISTANCE OF 106.11 FEET TO A FOUND MAG NAIL WITH SHINER WASHER #1573 LOCATED ON THE CENTERLINE OF PROGRESS STREET AND THE NORTHERLY LINE OF LOT 5R OF THE REPLAT OF MARKET PLACE SUBDIVISION; THENCE S 46°08'14" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTHERLY LINE OF LOT 5R, FOR A DISTANCE OF 23.93 FEET TO A POINT; THENCE S 68°05'06" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTHERLY LINE OF LOT 5R, FOR A DISTANCE OF 218.07 FEET TO A POINT; THENCE S 79°59'28" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTHERLY LINE OF LOT 5R, FOR A DISTANCE OF 51.31 FEET TO A FOUND 5/8" REBAR WITH CAP #1141 LOCATED AT THE NORTHWEST CORNER OF LOT 5R; THENCE S 84°34'49" W, CONTINUING ALONG SAID PROGRESS STREET AND NORTH LINE OF MARKET PLACE SUBDIVISION, FOR A DISTANCE OF 307.05 FEET TO A FOUND 5/8" REBAR WITH CAP #1141 LOCATED ON THE EAST RIGHT OF WAY OF MAIN STREET; THENCE N 5°28'48" W, ALONG SAID EAST RIGHT OF WAY OF MAIN STREET, A DISTANCE OF 315.35 FEET TO THE **POINT OF BEGINNING**, CONTAINING 13.49 ACRES MORE OR LESS.

NOW THEREFORE, Declarant hereby declares that all of the properties described above shall be designated as Market Place Subdivision II, Phase 2 an Addition to the City of Bryant, Saline County, Arkansas, consisting of Lots 12, 13, 14, 15 and 16 and shall be held, sold and conveyed subject to the following easements, restrictions, covenants, and conditions, which are for the purpose of protecting the value and desirability of, and which shall run with, the real property and be binding on all parties having any right, title or interest in the described properties or any part thereof, its successors and assigns, and shall inure to the benefit of each owner thereof or the owner of any land or parcel of land that is subdivided in the future as reflected on the plat hereto attached.

ARTICLE I
DEFINITIONS

Section 1. "Owner" shall mean and refer to the record owner, whether one or more persons or entities, of a fee simple title to any Lot which is a part of the Properties, including contract sellers, but excluding those having such interest merely as security for the performance of an obligation.

Section 2. "Lot" shall mean and refer to any plot of land shown upon any recorded subdivision map of the Properties.

Section 3. "Declarant" shall mean and refer to its successors and assigns if such successors or assigns should acquire more than one undeveloped Lot from the Declarant for the purpose of development.

ARTICLE II
USE RESTRICTIONS

Section 1. EASEMENTS. Easements for installation and maintenance of utilities, drainage facilities and right of ways are reserved as shown on the recorded plat. Streets are private.

Section 2. NUISANCES. No noxious or offensive activities shall be carried on upon any lot, nor shall anything be done thereon which may be or may become an annoyance or nuisance to the neighborhood. No burning of leaves or debris shall be permitted.

Section 3. OWNER RESPONSIBILITY. Any property owner shall insure that any contractor performing services for the property owner shall comply with the provisions herein.

Section 4. CONTRACTOR RESPONSIBILITY. No contractor shall damage in any way the utilities or streets in any manner.

Section 5. OIL AND MINING OPERATIONS. No oil drilling, oil development operations, oil refining, quarrying or mining operations of any kind shall be permitted upon or in any lot, nor shall oil wells, tanks, tunnels, mineral excavations or shafts be permitted upon or in any lot. No derrick or structures designed for use in boring for oil or natural gas shall be erected, maintained or permitted upon any lot.

Section 6. GARBAGE AND REFUSE DISPOSAL. No lot or easement shall be used or maintained as a dumping ground for rubbish. Trash, garbage and other waste shall not be kept except in sanitary containers. All incinerators or other equipment for the storage or disposal of such materials shall be kept in a clean and sanitary condition in an approved dumpster enclosure meeting City of Bryant code requirements.

Section 7. WATER SUPPLY. No individual water supply system shall be permitted on any lot. Same shall be served by the Municipal Water Works System of the City of Bryant, Arkansas.

Section 8. SEWAGE DISPOSAL. No individual sewage disposal system shall be permitted on any lot.

Section 9. BUILDERS. All building must be performed by competent builders.

ARTICLE III
GENERAL PROVISIONS

Section 1. Enforcement. The Declarant or any Owner shall have the right to enforce, by any proceeding at law or in equity, all restrictions, conditions, covenants, reservations, liens and charges now or hereafter imposed by the provisions of this Declaration. Failure by the Association or by any Owner to enforce any covenant or restriction herein contained shall in no event be deemed a waiver of the right to do so thereafter.

Section 2. Severability. Invalidation of any one of these covenants or restrictions by judgment or court order shall in no wise affect any other provisions which shall remain in full force and effect.

Section 3. Amendment. The covenants and restrictions of this Declaration shall run with and bind the land, for a term of twenty (20) years from the date this Declaration is recorded, after which time they shall be automatically extended for successive periods of ten (10) years. This Declaration may be amended at any time by Declarant.

IN WITNESS WHEREOF, the undersigned being the Declarant herein has hereunto set its hands and seals this 7th day of November, 2022.

BRYANT REALTY COMPANY, LLC
By: Bryant Management, Inc., Manager

By _____
G. Bart Ferguson, President

ATTEST:

_____
Secretary

STATE OF ARKANSAS)
)ss. ACKNOWLEDGEMENT
COUNTY OF SALINE)

On this 7th day of November, 2022, before me Susan J. Hinze, a Notary Public, duly commissioned, qualified and acting, within and for said County and State, appeared in person the within named G. Bart Ferguson and Fred E. Briner, to me personally well known (or satisfactorily proven to be such persons), who stated that they were the President and Secretary of Bryant Management, Inc., a Corporation, and were duly authorized in their respective capacity to execute the foregoing instrument(s) for and in the name and behalf of said corporation and further stated and acknowledged that they had so signed, executed and delivered said foregoing instrument for the consideration, uses an purposes therein mentioned and set forth.

"IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal this 7th day of November, 2022.

Notary Public

My Commission Expires:

3-24-2025

STATE OF ARKANSAS NOTARY PUBLIC
SUSAN J. HINZE
MY COMMISSION # 12403965
EXPIRES: March 24, 2025
Garland County

Bryant Planning Commission

Subdivision Checklist

Approved by
Bryant Planning Commission
07/14/2003 Revised 6/18/2007

Instructions

The attached checklist must be completed by the owner and subdivision engineer and must be submitted along with the Preliminary Plat Plan and other specified documentation for review and approval by the Planning Commission. The owner may not begin developing the subdivision until the review of the Preliminary Plat plan is approved.

No changes or alterations can be made to the approved Preliminary Plat Plan without Planning Commission approval.

When all lots have been surveyed, the utilities and drainage measures are in place, and roads have been constructed, the owner and engineer will submit a Final Plat Plan for approval by the Commission. This Final Plat Plan will incorporate all approved changes and will be verified by the City Engineer. No lots will be sold or rights-of-way and easements conveyed until the Final Plat has been submitted and approved.

Fees due to City of Bryant upon submission of Preliminary Plat application

- $300.00 + $3.00 per lot - for Subdivision preliminary plat review
- $250.00 or $25.00 per lot (**whichever is greater**) - Stormwater Detention and Drainage Plan Engineering Fee
- A Surety Bond or Cashier's check in the amount of 10% of the estimated development cost must be furnished within 10 days after Preliminary Plat approval.

Fees due to Bryant Water and Sewer Department upon submission of Final Plat application

- $100 per lot - Water/Sewer Impact Fee
- $100 per Subdivision Phase - Water/Sewer Flushing Fee

Fees due to City of Bryant upon submission of Final Plat application

- $25.00 + $1.00 per lot - for Subdivision Final Plat review

City of Bryant Subdivision Checklist

Subdivision/Project Name MARKET PLACE II SUBDIVISION PHASE II LOTS 12 THROUGH 16

Contact Person VERNON WILLIAMS Phone (501) 408-4650

Mailing Address 3825 MT CARMEL ROAD, BRYANT, AR 72022

I. Basic Information Needed On The Plat

- 1. Name of Subdivision/Project
- 2. Current zoning C-2
- 3. Name and Address of owner of Record
- 4. Illustrate Source of Title giving deed record book and page number
- 5. Name & address of the sub-divider
- 6. Date of Survey
- 7. Vicinity map locating streets, highways, section lines, railroad, schools, & parks within ½ mile
- 8. Legal description of the property with exact boundary lines
- 9. Acreage of property
- 10. Number of Lots
- 11. Lot area in square feet
- 12. Lot lines with appropriate dimensions
- 13. Building setback lines
- 14. Preliminary Engineering certificate seal and signature on each page
- 15. Certificate of Engineering Accuracy
- 16. Certificate of Owner
- 17. Certificate of Final Plat Approval
- 18. Certificate of Recording
- 19. Show scale (not less than 1" = 100')
- 20. North Arrow
- 21. Show Title block
- 22. Show adjoining property owners
- 23. Layout of all proposed streets including traffic control devices (stop signs, speed limit, etc.)
- 24. Layout of all subdivision entrance street upgrades
- 25. Layout of all proposed alleys
- 26. Layout of all proposed sidewalk systems
- 27. Layout identifies any FEMA flood plain and flood way property within the 100-year flood elevation. (Provide Corp of Engineers 404 Permit if required)
- 28. Drainage easements for stormwater run-off and detention giving dimensions, locations, and purpose
- 29. Layout accommodates Master Street Plan segments within the boundaries
- 30. Street layout ties to existing adjoining subdivision stub-out streets and provides stub-out streets for future adjoining subdivisions.
- 31. Street width and right-of-way properly shown for each functional classification
- 32. Street centerlines showing angles of deflection, intersection, radii, length oftangents and arcs, and degree of curvature with basis of curve data
- 33. Typical cross section of streets
- 34. Location and name of existing streets
- 35. New street names that are not similar to existing street names
- 36. Show street lights
- 37. Show Fire Hydrant placement

38. Show and label all permanent & proposed easements
39. Any proposed open space must be shown
40. Show the direction and flow of all water courses entering the tract
41. Show the direction and flow of all water courses leaving the tract
42. The drainage area of all water courses above the points of entry.
43. The downstream drainage channel and drainage structures substantially impacted by the subdivision/project.
44. Show source of water supply
45. Show location of waste water connection to municipal main & sanitary sewer layout
46. A phasing plan outlining the boundaries for each phase

II. Additional Information Needed, But Not Necessarily On The Plat

47. Natural features within the proposed subdivision including drainage channels, bodies of water, wooded areas, and other significant features
48. Existing streets, buildings, water courses, railroads. Culverts, utilities and easement on and adjacent to the tract.
49. Where method of disposal of wastewater is other than connection to a public waste water system, detailed information shall accompany the plat.
50. Calculations and field notes, including drainage calculations along with support drawing
51. Stormwater detention plan approval from City Engineer (attach copy of approval)
52. The Certificate of Preliminary Engineering Accuracy on each set of street and drainage plans.
53. ADA Accessibility Standard Form completed (and attached)
54. A Bill of Assurance has been prepared for this subdivision (and attached)
55. All lots comply with minimum square footage area and minimum lot width at the front building line
56. Street pavement design will be as specified by City or AHTD design procedures, approved by the City Engineer.
57. Made the "One Call" prior to site clearance or other excavation activity

III. Preliminary Plat Attachments

(Application will not be accepted until all attachment requirements are met)

58. **Letter to Planning Commission** stating your request
59. Completed **Checklist**
60. **Completed agreement to provide performance assurance**
61. **Subdivider Performance Bond or Cashier's Check** for infrastructure installation
62. Landscaping plan of any proposed common open space
63. **Draft of Bill of Assurance** proposed for the subdivision (if applicable)
64. **20 copies of Preliminary Plat Plan (folded)** that includes vicinity map (minimum size 17" X 34" paper)
65. **Two (2) IBM compatible diskettes or CDR's** with pertinent data and Plat in CAD compatible .DXF electronic file format
66. Copy of **Stormwater Detention approval**
67. 2 copies **Plan and profile** of all streets
68. Receipt for **$300.00 + $3.00 per lot for preliminary Subdivision fee**
69. Receipt for **$250.00 or $25.00 per lot (whichever is greater) for Stormwater Detention and Drainage Plan review**
70. Copy of **ADEQ Stormwater Pollution Prevention Plan** for property parcel containing one acre or larger.

III. Final Plat Attachments

(Application will not be accepted until all attachment requirements are met)

- 71. Letter to Planning Commission stating your request
- 72. Completed Checklist
- 73. 20 copies of Final Plat Plan (folded) that includes vicinity map (minimum size 17" X 34" paper)
- 74. Two (2) IBM compatible diskettes or CDR's with pertinent data and Plat in CAD compatible .DXF electronic file format
- 75. Bill of Assurance including provisions set out in Title 15 Subdivision Regulations 15.16.01
- 76. Copy of Water & Sewer Commission approval or....
- 77. State Health Department approval of any new water supply and/or sewage system.
- 78. Letter submitted by a Registered Professional Engineer, certifying that all infrastructure improvements and installations have been installed in accordance with the submitted construction plans and drawings and the standards established by the City of Bryant and are functioning properly.
- 79. Infrastructure Maintenance Bond or Cashier's check.
- 80. Check for $25.00 + $1.00 per lot for final Subdivision fee
- 81. Check for Water Sewer impact fees ($100.00 Flushing Fee and $100.00 impact fee per lot)

MARKET PLACE II PHASE II
Name of Subdivision

Surveyor

I HAVE COMPLIED WITH THE REQUIREMENTS LISTED ABOVE AND HAVE CHECKED ALL OF THE BOXES ON THE CHECKLIST WHICH APPLY TO THIS PROJECT SUBMITTAL.

Owner Signature

Engineer Signature

CITY USE

Preliminary Plat Approved _____

Planning Commission Date _____

Final Plat Approved _____

Planning Commission Date _____

Proof of Recording - County _____

County Clerk _____ Date _____

GNE

3825 Mt Carmel Rd.
Bryant, AR 72022

GarNat Engineering, LLC

P.O. Box 116
Benton, AR 72018

October 5, 2022

Mr. Truett Smith
Bryant Planning Coordinator/Planning Commission Secretary
210 SW 3rd Street
Bryant, AR 72022

Re: Final Plat – Market Place II Subdivision Phase II Lots 12 through 16

Dear Mr. Smith:

Please allow this letter and following list of enclosures to serve as my application for approval of the referenced final plat. It is my desire that this matter be included on the agenda for your October 10 ,2022 City of Bryant Planning Commission meeting. The developer for the project is Bryant Realty Company, LLC, 422 North Main Street, Benton, Arkansas 72015 bferg620@gmail.com (501) 840-2282.

List of Enclosures

- 8 Copies of the Final Plat
- Bryant Subdivision Checklist
- Digital copy of documents- transmitted by email
- Final Plat review fees of $30.00

If you have questions or need any additional information, please do not hesitate to contact me.

Sincerely,
GarNat Engineering, LLC

Vernon J. Williams

Vernon J. Williams, P.E., President

Colton Leonard <cleonard@cityofbryant.com>

Variance request - Custom Advertising Site Plan

1 message

Vernon Williams <garnatengineering@gmail.com> Wed, Oct 26, 2022 at 2:47 PM
To: Colton Leonard <cleonard@cityofbryant.com>, Truett Smith <tsmith@cityofbryant.com>

Truett and Colton,

I would like to request the following variance to Bryant's commercial building standards for the referenced project. This variance affects the two new shops added to the latest site plan. As you are aware, the Planning Commission previously granted this site a variance for the two existing shops that have already been built on the site.

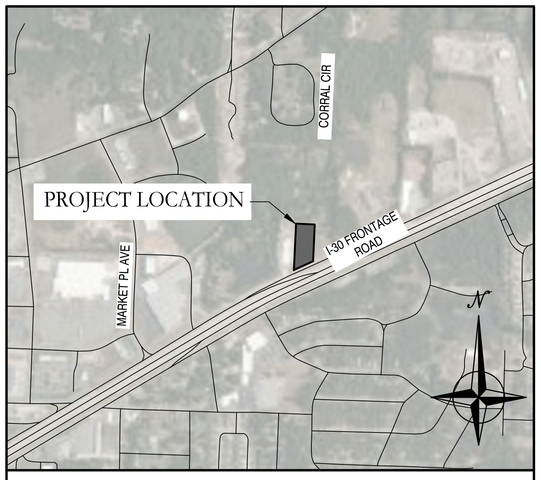
- The variance will allow the back shop to have one improved side per the building elevation that we submitted to DRC. The other three sides will be metal panels with exposed fasteners, similar to the variance previously granted for the two shops already constructed on this site.
- The variance would allow the middle shop to be constructed on all four sides with metal panels with exposed fasteners. The views of this shop will be obscured from the road by the new office building, which will be brick and fully comply with your commercial building standards.

Should you need anything else from me to get this variance on the Planning Commission agenda, please let me know.

Sincerely,

Vernon J. Williams, P.E.
GarNat Engineering, LLC
Mailing Address: Physical Address:
P.O. Box 116 3825 Mt Carmel Road
Benton, AR 72018 Bryant, AR 72022
Ph: (501) 408-4650 Cell: (501) 425-2771
Fax: (888) 900-3068 www.garnatengineering.com

CUSTOM ADVERTISING
OFFICE & SHOPS ADDITION
BRYANT, ARKANSAS



VICINITY MAP - BRYANT, AR

Prepared by:

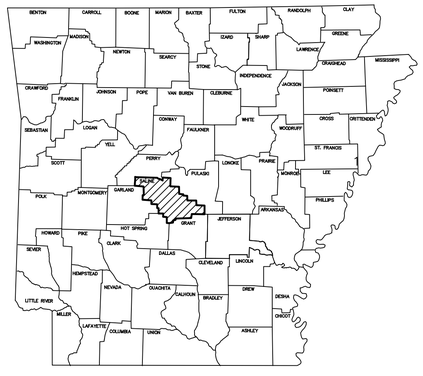
GarNat Engineering, LLC

Designing our client's success

www.garnatengineering.com

P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650

3825 Mt Carmel Road
Bryant, AR 72022
Fx (888) 900-3068



ARKANSAS





DRAWING INDEX:

G1.0	GENERAL NOTES
V1.0	CUSTOM ADVERTISING SUBDIVISION - FINAL PLAT
C1.0	SITE PLAN
C1.1	SITE DETAILS
C2.0	UTILITY PLAN
C2.1	FORCE MAIN PROFILE
C2.2	MYERS LIFT STATION DETAILS
C3.0	GRADING & DRAINAGE PLAN
C3.1	GRADING & DRAINAGE PROFILES
C3.2	OUTLET STRUCTURE
C4.0	EROSION CONTROL PLAN
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE NOTES & DETAILS

ARDOT INDEX:

TEC-1	TEMPORARY EROSION CONTROL DEVICES
WR-2	WHEEL CHAIR RAMPS

1. SAFETY

1.1. JOBSITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

1.2. THIS RESPONSIBILITY COVERS THEIR OWN WORK FORCE, ALL SUBCONTRACTORS, VISITING PERSONNEL, OFFICIALS, AND THE GENERAL PUBLIC WHICH MAY HAVE ACCESS TO THE JOBSITE.

1.3. THE CONTRACTOR SHALL EXERCISE COMPLETE CONTROL OVER WHO HAS ACCESS TO THE JOBSITE TO ENSURE JOBSITE SAFETY.

1.4. THE CONTRACTOR SHALL CONFORM TO ALL SECURITY AND SAFETY REQUIREMENTS OF THE OWNER.

1.5. ANY SAFETY OR OTHER TRAINING REQUIRED BY THE OWNER FOR THE WORK FORCE MUST BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

2. PERMITS

2.1. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AS REQUIRED BY REGULATING AUTHORITIES OR BY THE OWNER. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE TERMS AND CONDITIONS ASSOCIATED WITH EACH REQUIRED PERMIT, AS WELL AS ADHERING TO THE RULES AND REGULATIONS OF EACH REGULATING AUTHORITY

3. CONTRACT DOCUMENTS

3.1. ALL WORK SHALL CONFORM TO THE PLANS, THESE NOTES, AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

4. INDEMNITY

4.1. BY ACCEPTING THE CONTRACT FOR THIS WORK, THE CONTRACTOR, AT THEIR OWN EXPENSE AND RISK, HEREBY RELEASES AND AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE OWNER, GARNAT ENGINEERING, THEIR OFFICERS, AGENTS, EMPLOYEES, CONSULTANTS, AND REPRESENTATIVES FOR DAMAGE TO THE PROPERTY OR INJURY TO, OR DEATH, OF ANY PERSONS, FROM ANY AND ALL CLAIMS, DEMANDS, ACTIONS OF ANY KIND WHATSOEVER ARISING OUT OF AND IN CONNECTION WITH THE AGREEMENT OR PROSECUTION OF WORK UNDER IT, WHETHER SUCH CLAIMS, DEMANDS, ACTIONS, OR LIABILITY ARE CAUSED BY THE CONTRACTOR, IT'S AGENTS, EMPLOYEES, SUBCONTRACTORS, PRODUCTS INSTALLED ON THE PROJECT OR CAUSED BY ANY OTHER PARTY.

5. CONSTRUCTION PROCEDURES, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN THESE NOTES OR SPECIFICATIONS.

5.1. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

5.2. INTERNATIONAL BUILDING CODE

5.3. ACI 315 MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES

5.4. CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING STEEL.

6. SITE

6.1. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.

6.2. CONTRACTOR IS NOT TO PERFORM WORK BEYOND THE DESIGNATED WORK LIMITS WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FROM THE PROJECT ENGINEER OR OWNER.

6.3. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION SUCH AS BUT NOT LIMITED TO: DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN EXISTING CONDITIONS.

6.4. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL ITEMS, SHOWN TO BE REMOVED OR RELOCATED AND NOT SHOWN WITHIN CONSTRUCTION LIMITS AND WHERE REQUIRED TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.

6.5. CONTRACTOR TO ADJUST ALL EXISTING AND PROPOSED MANHOLES, VALVE BOXES, ETC. TO FINISH GRADE, WHERE REQUIRED.

7. STRUCTURES

7.1. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT IN TO INVERT OUT.

7.2. BEDDING FOR STORM STRUCTURES SHALL CONSIST OF A MINIMUM OF 6-INCHES OF COMPACTED #57 STONE ON TOP OF COMPACTED SUBGRADE.

7.3. AREAS EXPOSED BY EXCAVATION OR STRIPPING AND ON WHICH SUBGRADE PREPARATIONS ARE TO BE PERFORMED SHALL BE SCARIFIED TO MINIMUM DEPTH OF 0'-8" AND COMPACTED TO MINIMUM OF 95% OPTIMUM DENSITY. ANY AREAS THAT FAIL COMPACTION ARE TO BE STABLIZED AS DIRECTED BY THE ENGINEER.

8. PRIOR TO PLACING FILL IN LOW AREAS, SUCH AS PREVIOUSLY EXISTING CREEKS, PONDS, OR LAKES, PERFORM FOLLOWING PROCEDURES:

8.1. DRAIN WATER OUT BY GRAVITY WITH DITCH HAVING FLOW LINE LOWER THAN LOWEST ELEVATION IN LOW AREA. IF DRAINAGE CANNOT BE PERFORMED BY GRAVITY DITCH, USE ADEQUATE PUMP TO OBTAIN THE SAME RESULTS.

8.2. AFTER DRAINAGE OF LOW AREA IS COMPLETE, REMOVE MULCH, MUD DEBRIS, AND OTHER UNSUITABLE MATERIAL BY USING ACCEPTABLE EQUIPMENT AND METHODS THAT WILL KEEP NATURAL SOILS UNDERLYING LOW AREA DRY AND UNDISTURBED.

9. UTILITIES

9.1. AN ATTEMPT HAS BEEN MADE TO APPROXIMATELY LOCATE UTILITIES ON THE DRAWINGS.

9.2. UTILITIES SHOWN ON THE DRAWINGS WERE LOCATED BY VISUAL OBSERVATION, AND BY TRANSCRIBING FROM RECORD MAPS AND PLANS.

9.3. NO EXCAVATIONS WERE MADE TO CONFIRM SUB-SURFACE UTILITIES. NEITHER THE SURVEYOR NOR PROJECT ENGINEER GUARANTEES THAT ALL UTILITIES HAVE BEEN SHOWN, OR THAT THOSE SHOWN ARE FULLY ACCURATE.

9.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADJUSTMENTS AND/OR RELOCATION OF EXISTING UTILITIES THAT ARE DAMAGED AS A RESULT OF WORK OF THIS PROJECT.

9.5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROPERLY DISCONNECTING, ABANDONING, RELOCATING, AND/OR ADJUSTING ALL AFFECTED UTILITIES WITHIN THE PROJECT AREA.

9.6. ALL UTILITY WORK SHALL BE COORDINATED AND EXECUTED IN ACCORDANCE WITH THE OWNER AND/OR GOVERNING UTILITY COMPANY CODES, SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

9.7. DESIGN AND ALIGNMENT OF UNDERGROUND TELEPHONE, TV CABLE, GAS AND ELECTRIC SERVICES SHALL BE PROVIDED BY THE INDIVIDUAL UTILITIES AND ARE NOT NECESSARILY SHOWN WITH THESE PLANS. CONTRACTOR SHALL PROVIDE CONDUITS SIZED TO ACCOMMODATE UTILITY ROUTING WITH PULL STRINGS WHERE NECESSARY.

9.8. CONTRACTOR TO PROVIDE ALL NECESSARY APPURTENANCES NECESSARY FOR COMPLETE UTILITY SERVICES WHICH ARE NOT PROVIDED BY THE UTILITY COMPANY.

10. DISPOSAL OF DEBRIS, WASTE OR SPOIL

10.1. BURNING OF DEBRIS AND WASTE IS NOT ALLOWED. CONTRACTOR MAY BE REQUIRED TO PROPERLY HAUL AWAY AND DISPOSE OF ANY WASTE MATERIAL REMOVED FROM THE SITE.

10.2. ANY WASTE OR SPOIL MATERIAL WHICH IS EXCAVATED FROM THE JOB SITE IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER OR OWNER.

10.3. REMOVAL AND DISPOSAL OF EXCAVATED WASTE MATERIAL IS CONSIDERED SUBSIDIARY TO ALL OTHER ITEMS IN THE PROJECT, AND WILL NOT BE PAID FOR SEPARATELY.

10.4. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE AND FEDERAL REGULATIONS IN DISPOSING OF DEMOLISHED MATERIAL REMOVED FROM THIS SITE.

10.5. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF MATERIAL ENCOUNTERED IN GRADING OPERATIONS THAT, IN OPINION OF THE ENGINEER, IS UNSUITABLE OR UNDESIRABLE FOR BACKFILLING OR SUBGRADE PURPOSES. DISPOSE OF IN A MANNER SATISFACTORY TO ENGINEER. BACKFILL UNDERCUT AREAS WITH LAYERS OF SUITABLE MATERIAL AND COMPACT AS SPECIFIED HEREIN.

11. SUBSTITUTIONS

11.1. SUBSTITUTIONS ARE NOT ALLOWED WITHOUT PRIOR APPROVAL FROM THE PROJECT ENGINEER.

12. ENVIRONMENTAL

12.1. THE CONTRACTOR IS TO MEET ALL ENVIRONMENTAL REQUIREMENTS OF THE OWNER AND ANY REGULATORY AGENCY HAVING AUTHORITY OVER THIS SITE.

12.2. THE CONTRACTOR IS TO UTILIZE BEST MANAGEMENT PRACTICES (BMP'S) FOR CONTROL OF EROSION DURING ALL CONSTRUCTION PHASES OF THIS PROJECT.

12.3. MININUM BMP'S REQUIRED FOR THE PROJECT ARE LISTED ON SHEET THESE PLANS. CONTRACTOR SHALL PROVIDE THESE BMP'S AND ANY OTHERS REQUIRED FOR THE PROJECT.

12.4. IF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED FOR THE CONSTRUCTION PHASE OF THIS PROJECT, THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS FOR EROSION CONTROL INCLUDED IN THE SWPPP DOCUMENTS.

12.5. CONTRACTOR SHALL KEEP WORK AREA CLEAN AND FREE OF ACCUMULATED TRASH AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING MEASURES TO AVOID TRACKING OF MUD, DIRT, ROCKS, AND DEBRIS ONTO AREAS OUTSIDE THE PROJECT AREA. CONTRACTOR SHALL CLEAN PAVEMENTS WHEN NECESSARY OR AS OTHERWISE DIRECTED, AND SHALL CONTROL DUST BY SWEEPING AND WATERING AS NEEDED. DE-TRACKING MAY BE REQUIRED AT ALL ENTRANCES.

13. FINAL SITE CONDITIONS

13.1. ALL DISTURBED AREAS NOT RECEIVING PAVEMENT OR LANDSCAPING SHALL HAVE VEGETATION ESTABLISHED AT TIME OF FINAL INSPECTION.

13.2. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPE 2H:1V OR STEEPER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

13.3. ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED.

13.4. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS

13.5. UPON PARTIAL OR FINAL COMPLETION OF GRADING WORK, SPREAD TOPSOIL, SEED, FERTILIZER, AND MULCH IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE STORM WATER POLLUTION PREVENTION PLAN.

BY	REVISION	DATE

GNE Designing our client's success

GarNat Engineering, LLC
P.O. Box 116 (72018) Ph (501) 408-4650
2909 Military Road Fx (888) 900-3068
Benton, Arkansas 72015 garnatengineering@gmail.com

CUSTOM ADVERTISING OFFICE & SHOPS ADDITION BRYANT, ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-5-2022

CONTENTS:

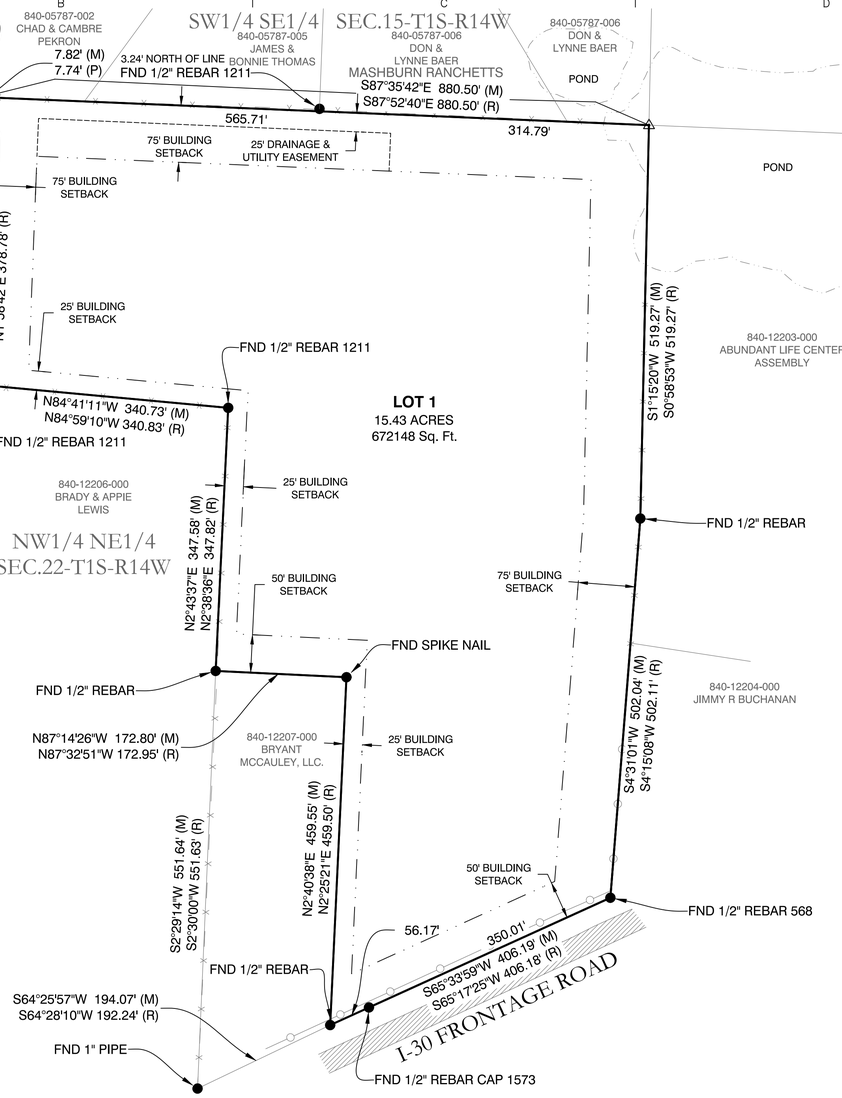
GENERAL NOTES

PROJECT NO: 21069

DATE: JULY 2021

SHEET NO: G1.0

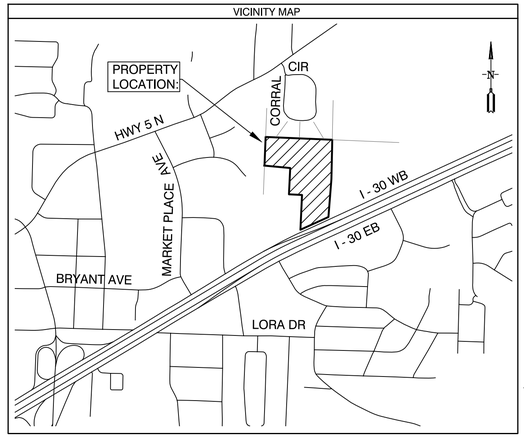
J:\Projects\2021 Projects\21069 ETSR + ASH + Jimmy Parker\Drawings\CMDC\Design\Sheet 21G1G1.dwg



PROPERTY SPECIFICATIONS:
ZONING CLASSIFICATION: C-3
LOT SIZE: 672,148 SQUARE FEET NUMBER OF LOTS: 1 SOURCE OF WATER: CITY OF BRYANT SOURCE OF SEWER: CITY OF BRYANT
BUILDING SETBACKS: FRONT - 50' REAR - 75' SIDE - 25' OR AS SHOWN
LOT CORNERS: SET #4 REBAR WITH CAP

SURVEY LEGEND
- △ - Computed point
- ● - Found monument
- ⊙ - Set #4 RB/Plas. Cap
- (M)-Measured
- (R)-Record
- (P)-Platted

VICINITY MAP



PROPERTY DESCRIPTION:

OVERALL SUBDIVISION DESCRIPTION

PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER (NW1/4 NE1/4) OF SECTION 22, TOWNSHIP 1 SOUTH, RANGE 14 WEST, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A FOUND 2" ALUMINUM MONUMENT PLS#1141 FOR THE NORTHWEST CORNER OF THE SAID NW1/4 NE1/4; THENCE S87°35'42"E - 880.50 FEET ALONG THE NORTH LINE THEREOF TO A COMPUTED POINT WHICH FALLS IN AN EXISTING POND THEREOF; THENCE LEAVING SAID NORTH LINE S1°15'20"W - 519.27 FEET TO A FOUND 1/2" REBAR; THENCE S4°31'01"W - 502.04 FEET TO A FOUND 1/2" REBAR W/CAP 568 LOCATED ON THE NORTHERLY RIGHT OF WAY OF THE WESTBOUND I-30 FRONTAGE ROAD; THENCE ALONG SAID RIGHT OF WAY S65°33'59"W - 406.19 FEET TO 1/2" REBAR; ; THENCE LEAVING SAID RIGHT OF WAY N2°40'38"E - 459.55 FEET TO A FOUND SPIKE NAIL; THENCE N87°14'26"W - 172.80 FEET TO A FOUND 1/2" REBAR; THENCE N2°43'37"E - 347.58 FEET TO A FOUND 1/2" REBAR W/CAP 1211; THENCE N84°41'11"W - 340.73 FEET TO A FOUND 1/2" REBAR W/CAP #1211 LOCATED ON THE WEST LINE OF THE SAID NW1/4 NE1/4; THENCE ALONG SAID WEST LINE N2°14'51"E - 378.77 FEET TO THE **POINT OF BEGINNING**, CONTAINING 15.43 ACRES, MORE OR LESS. SUBJECT TO ANY EXISTING EASEMENTS AND THE RIGHT OF WAY OF THE WESTBOUND I-30 FRONTAGE ROAD.

DOCUMENTS USED:
• DEED BOOK 1998 PAGE 11732 QCD WILLIAMS • PREVIOUS SURVEY BY BROWN DATED 9/14/08 • NEIGHBORING SURVEY BY RASBURRY DATED 2/4/05

BASIS OF BEARINGS:
BENCHMARK(S) PROVIDED ARE REBAR AND COORDINATES ON BENCHMARKS ARE NORTH AMERICAN DATUM 1983, ARKANSAS SOUTH ZONE, US SURVEY FEET. GRID COORDINATES AND ELEVATIONS ARE NAVD 1988. COORDINATES AND ELEVATIONS WERE ESTABLISHED USING GPS AND WERE PROCESSED USING THE NATIONAL GEODETIC SURVEY'S "ONLINE POSITIONING USER SERVICE" (OPUS).

CERTIFICATIONS:
BY AFFIXING MY SEAL AND SIGNATURE, I GEORGE P. WOODEN, PS NO.1573, HEREBY CERTIFY THAT THIS DRAWING CORRECTLY DEPICTS A SURVEY COMPILED UNDER MY SUPERVISION ON MAY 17, 2021. THIS SURVEY WAS BASED ON LEGAL DESCRIPTIONS AND TITLE WORK FURNISHED BY OTHERS AND DOES NOT REPRESENT A TITLE SEARCH. THIS PROPERTY IS NOT LOCATED IN THE 100 YEAR FLOOD PLAIN. THE PROPERTY SHOWN ON THIS PLAT IS LOCATED IN ZONE "X" OF THE F.E.M.A. MAP PANEL 05125C0240E EFFECTIVE DATE JUNE 05, 2020.

PLAT CERTIFICATES:

OWNER:
Name: Northside Center LLC &
So Diggin, Inc d/b/a
Custom Advertising of AR
Address: P.O. Box 91, Alexander, AR 72002

DEVELOPER:
Name: Northside Center LLC
Address: P.O. Box 91
Alexander, AR 72002

CERTIFICATE OF OWNER:
We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the within plat.

Date: _____ Signed: _____
William Smith
P.O. Box 91, Alexander, AR 72002

Source of Title: SALINE COUNTY, ARKANSAS
Saline County Document# 2021-021327

CERTIFICATE OF ENGINEERING ACCURACY:

I, Vernon J. Williams, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown hereon actually exist and their locations, size, type, and material are correctly shown; and that all requirements of the City of Bryant Subdivision Rules and Regulations have been fully complied with.

Date: _____ Signed: _____
Vernon J. Williams
Registered Professional Engineer
No. 9551, Arkansas

CERTIFICATE OF RECORDING:

CERTIFICATE OF SURVEYING ACCURACY:

I, George P. Wooden, hereby certify that this plat correctly represents a boundary survey made by me or under my supervision on 9/26/2022; that the boundary lines shown hereon correspond with the description in the deeds cited in the above Source of Title; and that all monuments which were found or placed on the property are correctly described and located.

Date: _____ Signed: _____
George P. Wooden
Registered Land Surveyor
No. 1573, Arkansas

CERTIFICATE OF FINAL PLAT APPROVAL:

Pursuant to the City of Bryant Subdivision Rules and Regulations, this document was given approval by the Bryant Planning Commission at a meeting held _____. All of the document is hereby accepted, and this certificate executed under the authority of said rules and regulations.

Date: _____
Signed: _____
Rick Johnson, Chairman
Bryant Planning Commission

FINAL PLAT
CUSTOM ADVERTISING SUBDIVISION TO THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

100' 50' 0 100'

SURVEY PLAT CODE:
500-01S-14W-0-22-140-62-1573

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
VERNON J. WILLIAMS
NO. 9551

CERTIFICATE OF AUTHORIZATION
GarNat Engineering, LLC
No. 2174
ARKANSAS

BY	REVISION	DATE

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72015
Ph (501) 408-4650
3825 Mt. Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

FOR: CUSTOM ADVERTISING
LOCATED IN THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER (NW1/4 NE1/4) OF SECTION 22, TOWNSHIP 1 SOUTH, RANGE 14 WEST
CITY OF BRYANT, ARKANSAS

REGISTERED PROFESSIONAL SURVEYOR
STATE OF ARKANSAS
NO. 1573
SIGNATURE
GEORGE P. WOODEN

CONTENTS:
FINAL PLAT

PROJECT NO:
21069

DATE:
OCT. 26, 2022

SHEET NO:
V1.0

a:\Projects\2021 Projects\21069 23728 >50 ft = Jimmy Parker\Drawings\DWG\Survey\21069 CUSTOM ADVERTISING SUBDIVISION FINAL PLAT 23728 >50 ft = Jimmy Parker-22x34-100322.dwg

POND

POND

END FENCE @ BUFFER

8' WOODEN PRIVACY FENCE

BEGIN FENCE @ PROP LINE

PROPOSED RIP RAP

DLS

END FENCE

30.0'

100.0'

10.0'

149.0'

80.0'

PROPOSED SHOP
11920 SQ. FT.
FF = 426.6

PROPOSED OFFICE
8000 SQ. FT.
FF = 426.6

SIGN TO DESIGNATE SPOT AS HANDICAP ACCESSIBLE (2 TOTAL)

PERMANENT DRIVEWAY

PROPOSED RIP RAP

TYPE 1 RAMP (TYP.)

30.0'

30.0'

30.0'

TYPE 5 HANDICAP RAMP

R20.0'

R20.0'

PROPOSED POLE SIGN

PARCEL ID:
840-05787-006
OWNER:
BAER DON & LYNNE IRREVOCABLE TRUST - TRUSTEE JEHNI
ADRESS:
800 CORRAL CIRCLE
S15-T01S-R14W

23.1'

149.0'

PROPOSED SHOP
11920 SQ. FT.
FF = 430.6

NO CURB ALLOWED IN ARDOT R-O-W

8' WOODEN PRIVACY FENCE

30.0'

80.0'

80.0'

EX. OFFICE
FF = 430.6

FUTURE DRIVEWAY

70.0'

EX. GRAPHIC DESIGN SHOP
FF = 430.6

EX. SHOP
FF = 430.6

EX. SHOP
FF = 430.6

PARCEL ID:
840-12207-000
OWNER:
BRYANT MCCAULEY LLC
ADRESS:
PO BOX 60
BRYANT AR 72089
S22-T01S-R14W

PARCEL ID:
840-05787-005
OWNER:
THOMAS JAMES MORLEY & BONNIE REVOCABLE TRUST
ADRESS:
21830 SOUTH SOMERSET DR
S15-T01S-R14W

PARCEL ID:
840-12206-00
OWNER:
LEWIS BRADY & APPIE TRUSTEES C/O GLENN LEWIS
ADRESS:
23032 I-30
S22-T01S-R14W

PARCEL ID:
840-05787-002
OWNER:
PEKRON CHAD WILLIAM & CAMBRE CARSON
ADRESS:
775 CORRAL CIRCLE
S22-T01S-R14W

15.0'

BEGIN FENCE

EXISITNG 25' UTILITY EASEMENT

PARCEL ID:

PARKING SPACES:

2 HANDICAP PARKING SPACES
24 OUTDOOR PARKING SPACE
26 PARKING SPACES TOTAL

NOTES:

1. SITE PAVEMENT MARKINGS SHALL BE 4" WIDE WHITE PAINT (PER ARDOT STANDARD SPECIFICATION SECTION 718)

PROPOSED ASPHALT

PROPOSED GRAVEL

PROPOSED RIP RAP

PROPOSED CONCRETE

EXISTING GRAVEL

EXISTING CONCRETE

50' 25' 0 50'

DATE	REVISION	BY
10-26-22	REVISED PER CITY OF BRYANT	TM
11-03-22	REVISED PER CITY OF BRYANT	TM

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GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
3825 Mt Carmel Rd
Bryant, AR 72022
Ph (501) 408-4650
garnatengineering@gmail.com

CUSTOM ADVERTISING OFFICE & SHOPS ADDITION BRYANT, AR

STATE OF ARKANSAS
VERNON J. WILLIAMS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551

10-5-2022

CONTENTS:

SITE PLAN

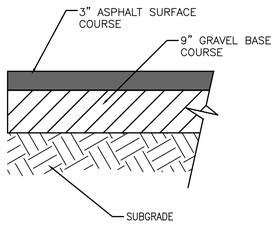
PROJECT NO: 21069

DATE: AUGUST 2022

SHEET NO:

C1.0

J:\Projects\2021 Projects\21069 23538 - 505 N. Jenny Lind\Engineering\Office\Design\PHASE 2\1 - SITE DESIGN .dwg



ASPHALT PAVING 1

NOT TO SCALE

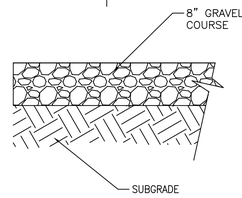
NOTES:

1. ASPHALT SURFACE COURSE SHALL MEET MATERIAL AND INSTALLATION REQUIREMENTS OF SECTION 407 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

2. ASPHALT BINDER COURSE SHALL MEET MATERIAL & INSTALLATION REQUIREMENTS OF SECTION 406 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

3. GRAVEL BASE COURSE SHALL MEET MATERIAL AND INSTALLATION REQUIREMENTS FOR AHTD CLASS 7 AGGREGATE BASE COURSE IN SECTION 303 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

4. SUBGRADE SHALL BE COMPACTED TO A UNIFORM DENSITY OF NOT LESS THAN 95% OF THE MODIFIED PROCTOR.



GRAVEL PAVING DETAIL 2

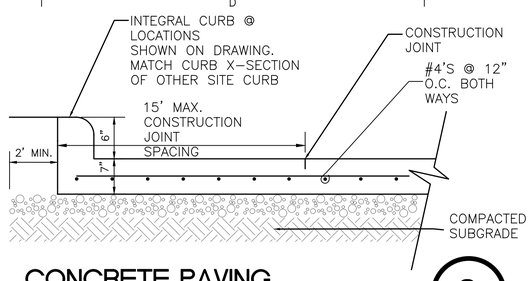
NOT TO SCALE

NOTES:
1. GRAVEL BASE COURSE SHALL MEET MATERIAL AND INSTALLATION REQUIREMENTS FOR AHTD CLASS 7 AGGREGATE BASE COURSE IN SECTION 303 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

2. SUBGRADE SHALL BE COMPACTED TO A UNIFORM DENSITY OF NOT LESS THAN 95% OF THE MODIFIED PROCTOR.

3. CONTRACTOR TO REMOVE 8" OF MATERIAL TO REACH SUBGRADE.

4. CONTRACTOR TO COORDINATE WITH OWNER'S GEOTECHNICAL ENGINEER ON APPROVAL OF SUBGRADE. SUBGRADE SHALL BE PROOF ROLLED AND APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH GRAVEL BASE.



CONCRETE PAVING 3

NOT TO SCALE

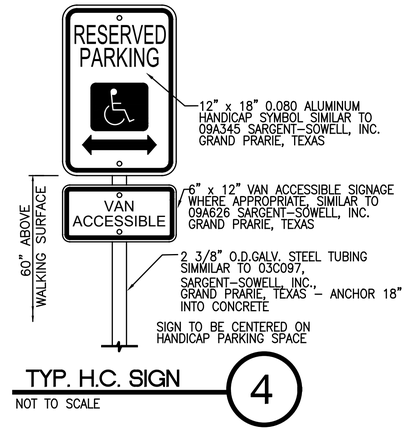
NOTES:

1. CONCRETE SHALL MEET MATERIAL AND INSTALLATION REQUIREMENTS OF SECTION 501 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

2. REINFORCED STEEL SHALL MEET MATERIAL & INSTALLATION REQUIREMENTS OF SECTION 502 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. USE OF EPOXY COATED STEEL IS NOT REQUIRED.

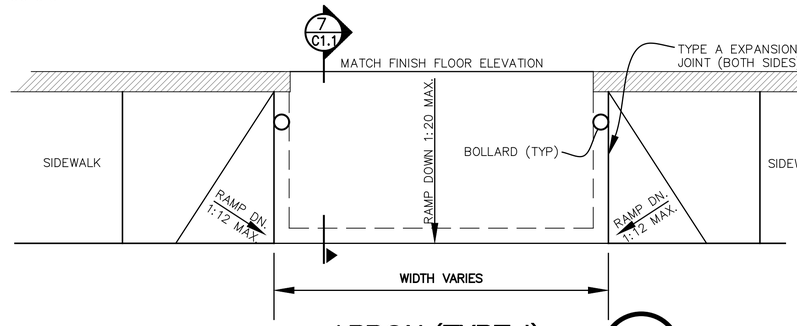
3. GRAVEL BASE COURSE SHALL MEET MATERIAL AND INSTALLATION REQUIREMENTS FOR AHTD CLASS 7 AGGREGATE BASE COURSE IN SECTION 303 OF AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

4. SUBGRADE SHALL BE COMPACTED TO A UNIFORM DENSITY OF NOT LESS THAN 95% OF THE MODIFIED PROCTOR.



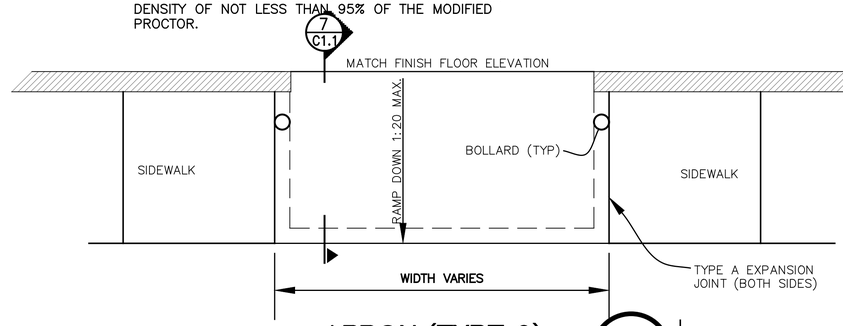
TYP. H.C. SIGN 4

NOT TO SCALE



APRON (TYPE 1) 6

NOT TO SCALE



APRON (TYPE 2) 7

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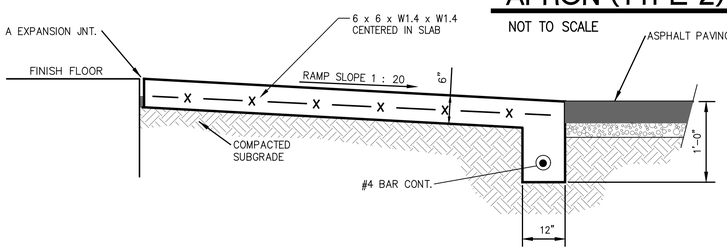
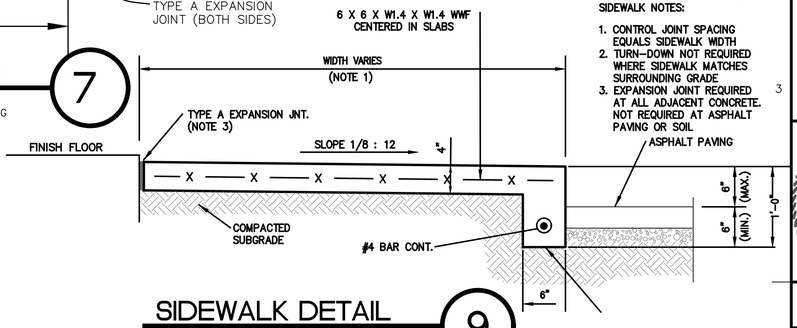


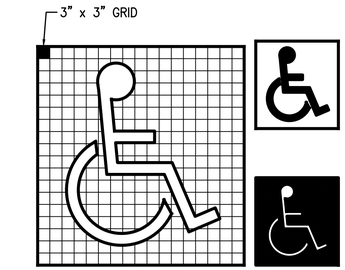
SECTION AT APRON 8

NOT TO SCALE



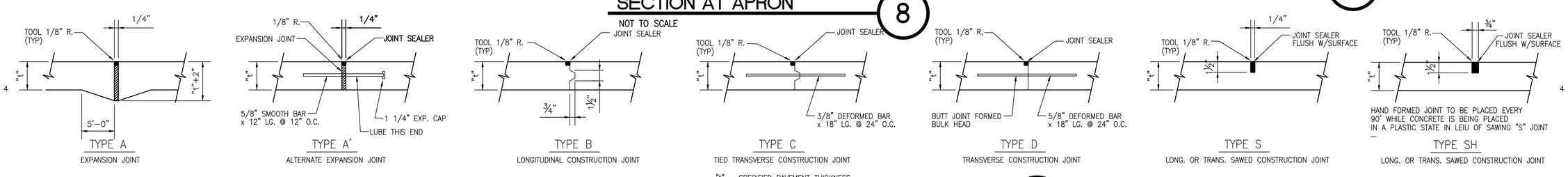
SIDEWALK DETAIL 9

NOT TO SCALE



H.C. PAVEMENT EMBLEM 5

NOT TO SCALE



"t" = SPECIFIED PAVEMENT THICKNESS

CONCRETE JOINTING DETAILS 10

NOT TO SCALE

NOTE: ALL JOINT SPACING NOT TO EXCEED 15'-0" INTERVALS

BY	REVISION	DATE

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GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650
3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

CUSTOM ADVERTISING
OFFICE & SHOPS ADDITION
BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
VERNON J. WILLIAMS
NO. 9551

10-5-2022

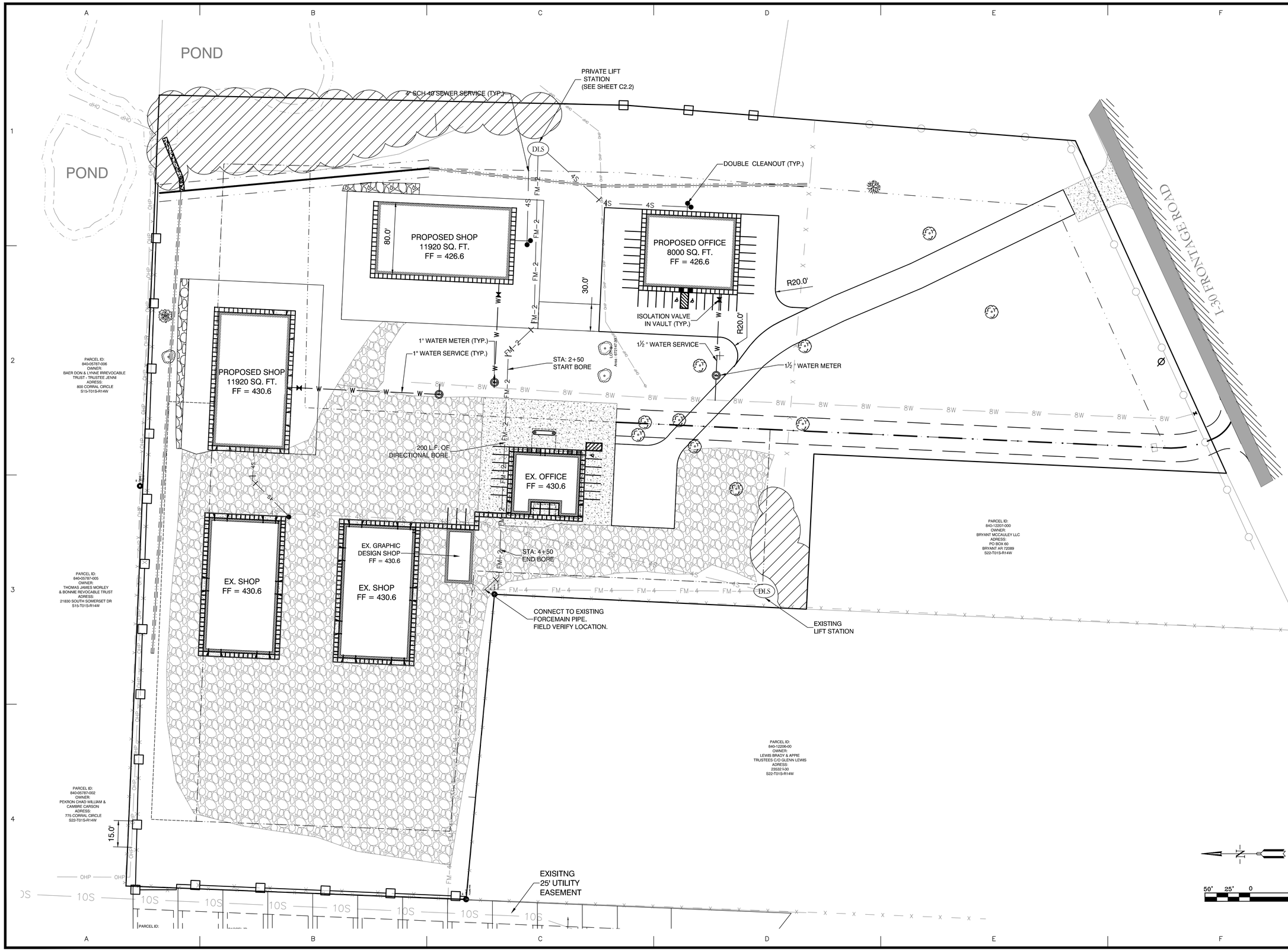
CONTENTS:
SITE DETAILS

PROJECT NO:
21069

DATE:
AUGUST 2022

SHEET NO:
C1.1

a:\Projects\2021 Projects\21069 CUSTOM ADVERTISING OFFICE & SHOPS ADDITION - BRYANT, AR\Drawings\Drawings\21069 SITE DETAILS.dwg, 10/5/2022 3:37:39 PM, Jimmy Porter



DATE	REVISION	BY
11-03-22	REVISED PER CITY OF BRYANT	TM

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CUSTOM ADVERTISING OFFICE & SHOPS ADDITION BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-5-2022

CONTENTS:

UTILITY PLAN

PROJECT NO: 21069

DATE: AUGUST 2022

SHEET NO: C2.0

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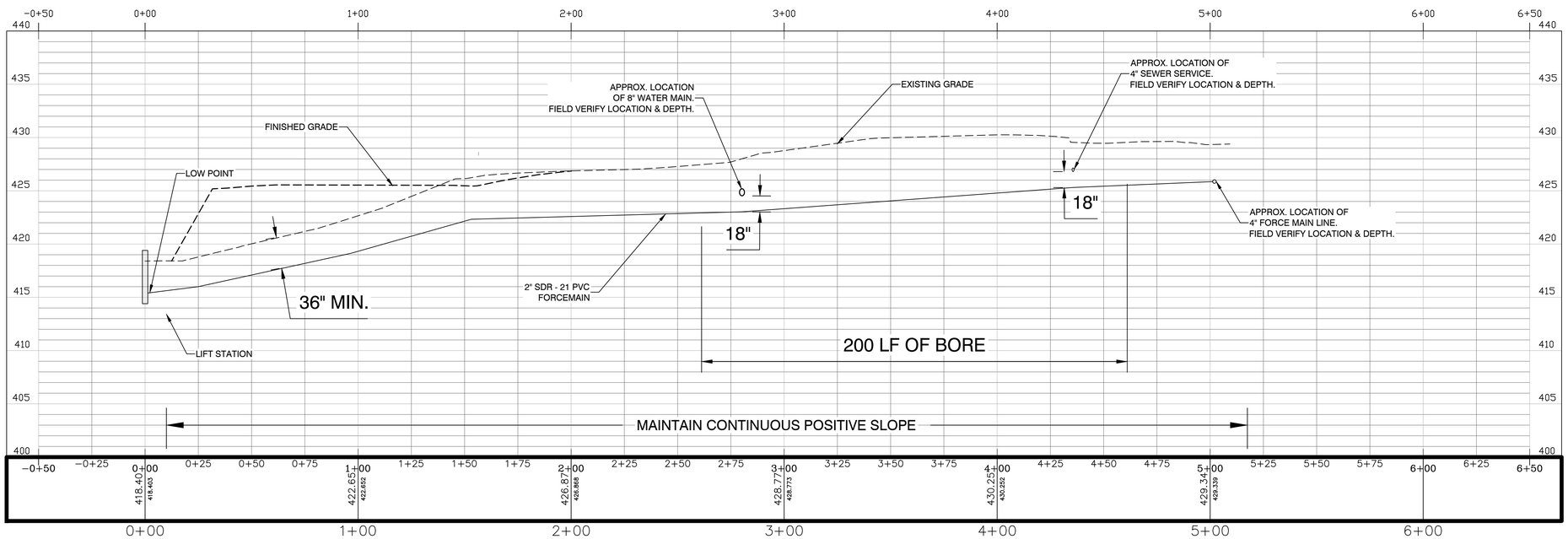

BY	REVISION	DATE

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P.O. Box 116
Benton, AR 72018
3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com
Ph (501) 408-4650

CUSTOM ADVERTISING OFFICE & SHOPS ADDITION BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10 - 5 - 2022

CONTENTS:

FORCEMAIN PROFILE

PROJECT NO: 21069

DATE: AUGUST 2022

SHEET NO: C2.1

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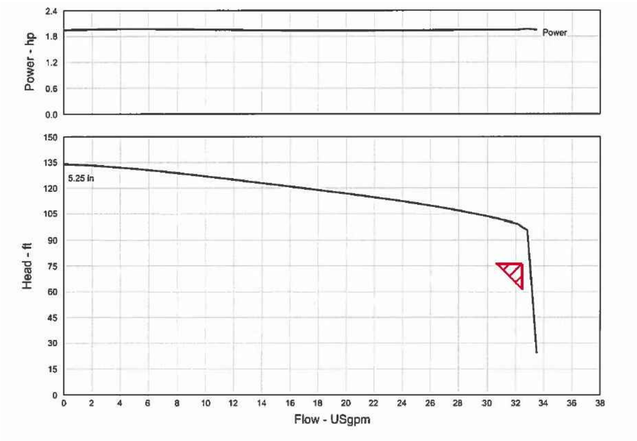


PENTAIR

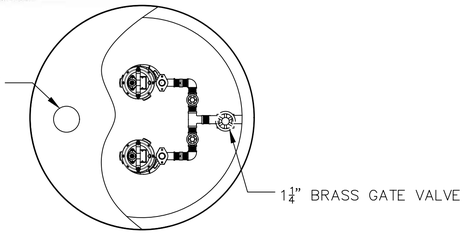
Customer :
Project name : Default

Pump Performance Datasheet

Encompass 2.0 - 17.0.3.0

Item number	: 014	Size	: Myers - VRS20
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: SUB_G_O_AH_00012_A_2 Rev 2016-12-07
Quote number	: 363843	Date last saved	: 16 Feb 2017 10:19 AM

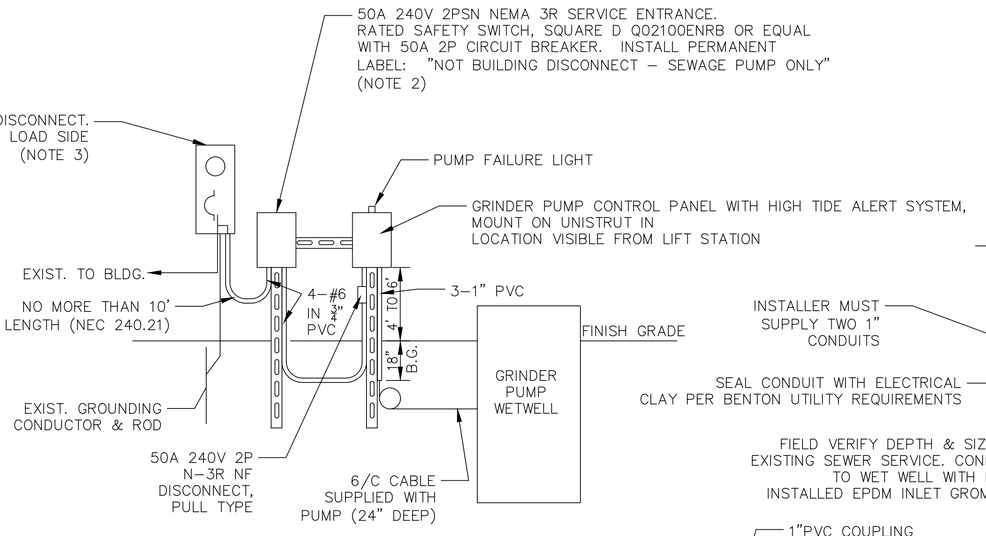
Operating Conditions		Liquid	
Flow, rated	: 32.42 USgpm	Liquid type	: Water
Differential head / pressure, rated (requested)	: 76.23 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 76.23 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
Performance		Viscosity, rated	: 1.00 cP
Speed, rated	: 3500 rpm	Vapor pressure, rated	: 0.34 psi.a
Impeller diameter, rated	: 5.25 in	**Material**	
Impeller diameter, maximum	: 5.25 in	Material selected	: Standard
Impeller diameter, minimum	: 5.25 in	**Pressure Data**	
Efficiency	: -	Maximum working pressure	: 57.99 psi.g
NPSH required / margin required	: - / 0.00 ft	Maximum allowable working pressure	: N/A
nq (imp. eye flow) / S (imp. eye flow)	: N/A Metric units	Maximum allowable suction pressure	: N/A
Minimum Continuous Stable Flow	: -	Hydrostatic test pressure	: N/A
Head, maximum, rated diameter	: 134.0 ft	**Driver & Power Data (@Max density)**	
Head rise to shutoff	: 75.78 %	Driver sizing specification	: Rated power
Flow, best eff. point	: -	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: -	Service factor	: 1.00
Diameter ratio (rated / max)	: 100.00 %	Power, hydraulic	: 0.62 hp
Head ratio (rated dia / max dia)	: 100.00 %	Power, rated	: 1.50 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, maximum, rated diameter	: 1.97 hp
Selection status	: Acceptable	Minimum recommended motor rating	: 2.00 hp / 1.49 kW (Fixed)



MYERS DUPLEX LIFT STATION - TOP VIEW

N.T.S.



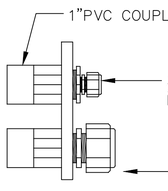


LIFT STATION ELECTRICAL OPTION 2

N.T.S.

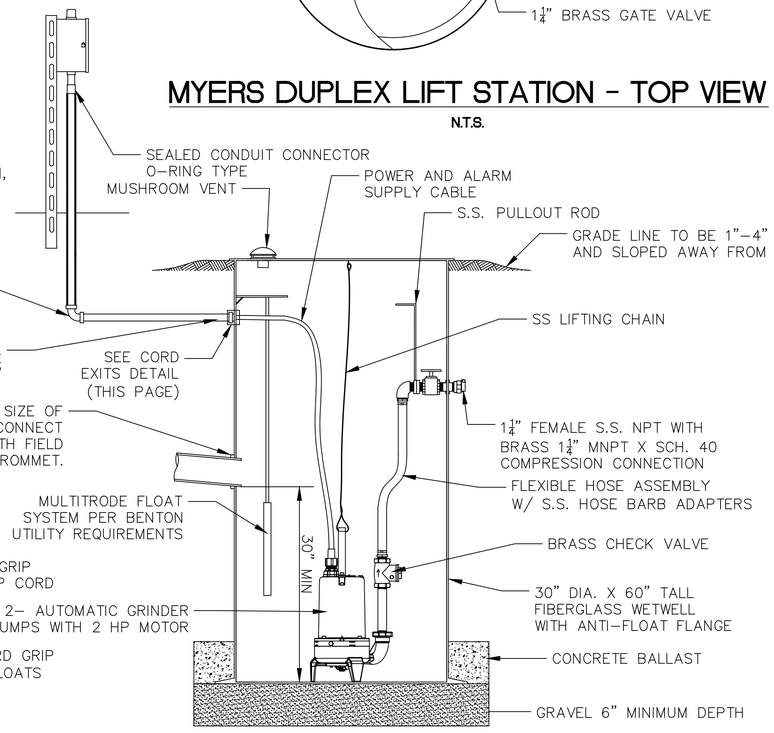
NOTES:

1. PUMP LOCATED MORE THAN 90 FEET FROM BUILDING USING POWER FROM BUILDING SERVICE AND METER.
2. LABELS SHALL BE VINYL SELF ADHESIVE PRINTED IN NON–FADE BLACK ON WHITE, MINIMUM SIZE 4"X5".
3. PROVIDE 50A, 2P CIRCUIT BREAKER. INSTALL AND CONNECT PUMP FEEDER TO NEW BREAKER.



CORD EXITS

N.T.S.



MYERS DUPLEX LIFT STATION - SECTION

N.T.S.

REVISION	BY	DATE

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GarNat Engineering, LLC
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OFFICE & SHOPS ADDITION
BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
VERNON J. WILLIAMS
NO. 9551

10-5-2022

CONTENTS:
MYERS LIFT STATION DETAILS

PROJECT NO: 21069

DATE: AUGUST 2022

SHEET NO: C2.2

Plotted: 05 Oct 2022 - 10:26:38 AM By: Jimmy Kinnett
C:\Projects\2021 Projects\21069 3728 Bryant\Design\Sheets\21069 C2.2 MYERS LIFT STATION DETAILS.dwg

TYPICAL DITCH CROSS SECTION
(N.T.S)

TYPICAL V-DITCH CROSS SECTION (N.T.S)

DATE	REVISION	BY
11-03-22	REVISED PER CITY OF BRYANT	TM

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CUSTOM ADVERTTISING OFFICE & SHOPS ADDITION BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-5-2022

CONTENTS:
GRADING & DRAINAGE PLAN

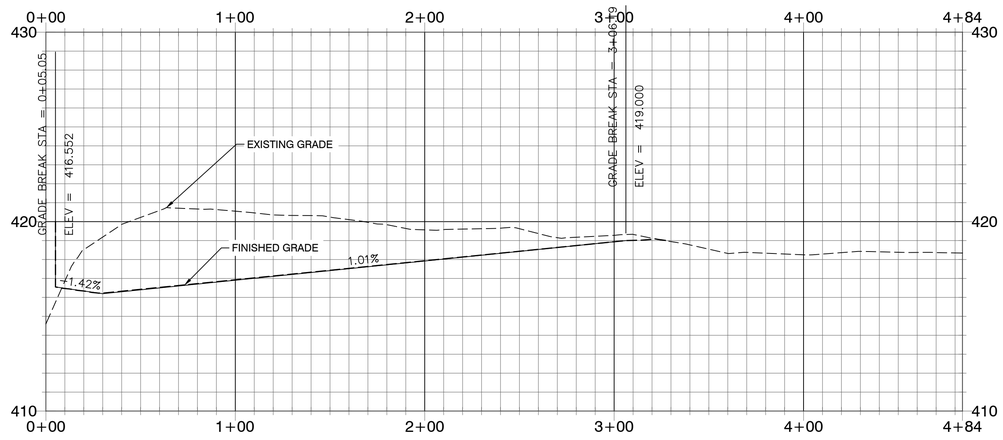
PROJECT NO: 21069

DATE: AUGUST 2022

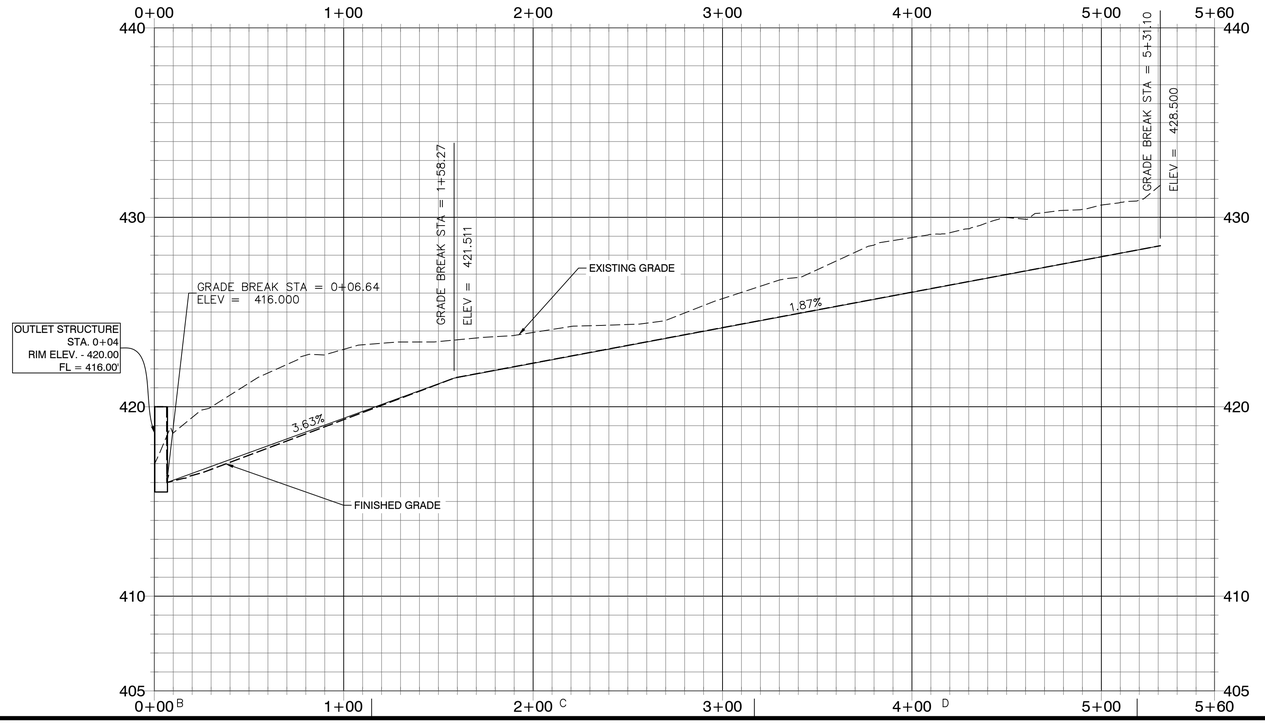
SHEET NO: C3.0

A:\Projects\2021 Projects\21069 22725 I-30 N - Jimmy Parker\Drawings\Grading\Design\PAGE 2.12 - 21069 Grading Design PAGE 2.12.dwg

EAST DITCH PROFILE



NORTH DITCH PROFILE



40' 20' 0 40'

40' 20' 0 40'

BY	REVISION	DATE

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BRYANT, AR

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REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS

10-5-2022

CONTENTS:

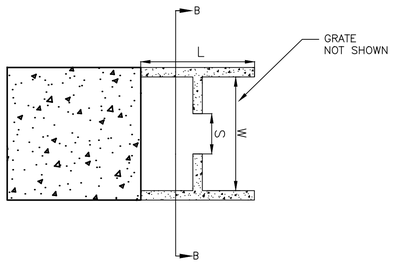
DRAINAGE PROFILES

PROJECT NO: 21069

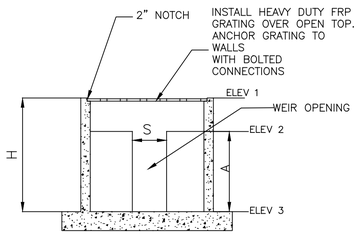
DATE: AUGUST 2022

SHEET NO: C3.1

J:\Projects\2021 Projects\21069 ZTSB in 30 A - Bryant Arkansas\Drawings\Working\Sheets\21069 ZTSB Grading Drainage PHASE 2.dwg, 10/5/2022 2:47:36 PM, Vernon

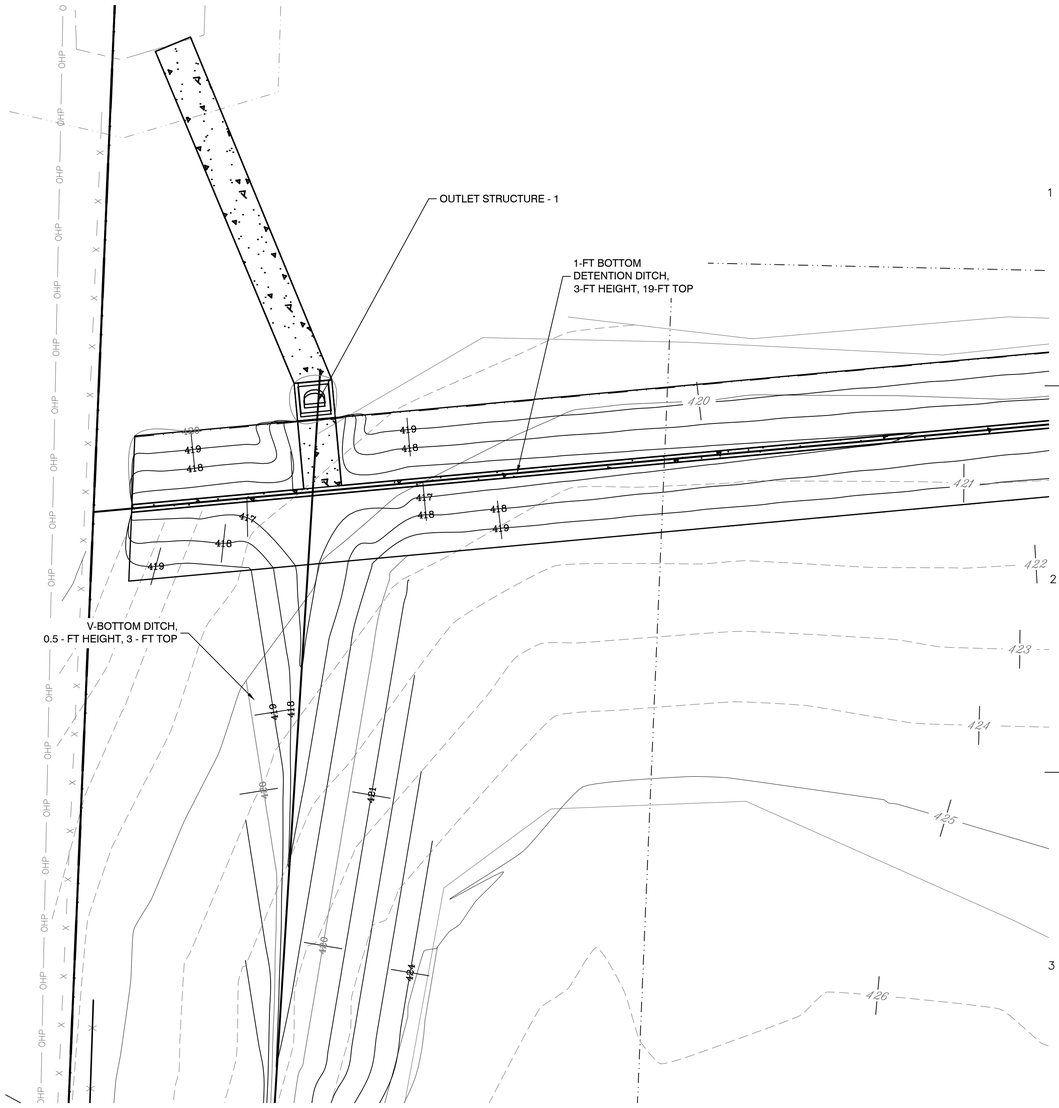


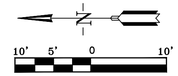
DITCH OUTLET STRUCTURE
PLAN VIEW
NOT TO SCALE



DITCH OUTLET STRUCTURE
SECTION B-B
NOT TO SCALE

OUTLET STRUCTURE								
OUTLET STRUCTURE	L	W	H	ELEV 1	ELEV 2	ELEV 3	S	A
1	5'–0"	5'–0"	4'–0"	420.00	419.00	416.00	1'–11"	3'–0"





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VERNON J. WILLIAMS

10-5-2022

CONTENTS:
OUTLET STRUCTURE DETAILS

PROJECT NO: 21069

DATE: AUGUST 2022

SHEET NO: C3.2

Plotted: 05 Oct 2022 - 2:52pm By: Jimmy Barnett
C:\Projects\2021 Projects\21069 CUSTOM ADVERTISING\Design\21069 Design Package 2.dwg



BMP NOTES:

1. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

2. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

3. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIAL SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

5. IF THE ACTION OF VEHICLES TRAVELING OVER THE SITE IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF OF THE SITE.

6. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

7. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

8. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

9. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

TOTAL SITE: 7.36 ACRES (INCLUDES R-0-W)

TOTAL DISTURBED AREA: 2.86 ACRES

LEGEND:

500 EXISTING CONTOURS

DIRECTION OF OVERLAND FLOW

SF SILT FENCING

N

60' 30' 0 60'

BY	REVISION	DATE

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VERNON J. WILLIAMS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551

10-5-2022

CONTENTS:

EROSION CONTROL PLAN

PROJECT NO: 21069

DATE: AUGUST 2022

SHEET NO: C4.0

C:\Projects\2021 Projects\21069 2328 I-30 + Jenny Parrish\Drawings\Utility Drawings\21069 2328 I-30 + Jenny Parrish Utility Drawings.dwg, 10/5/2022 8:22:46 AM, Kelly

LANDSCAPING NOTES:

1. PRESERVE EXISTING TREES UNLESS MARKED AS REMOVE OR RELOCATE.

POND
POND
UNDISTURBED BAMBOO BUFFER
8' WOODEN PRIVACY FENCE
(6) GREEN GIANT ARBORVITAE
DLS
24"SWEETGUM TREE
(25) WINTERGREEN BOXWOOD
22"PINE TREE
(25) WINTERGREEN BOXWOOD
END FENCE
REMOVE EXISTING DEAD TREES
PROPOSED SHOP 11920 SQ. FT. FF = 426.6
80.0'
PROPOSED OFFICE 8000 SQ. FT. FF = 426.6
STEEL EDGE, TYP.
NOTE 1
10" DEAD TREE
8" DEAD TREE
30"HACKBERRY TREE
16" THREE FINGERED CEDAR TREE
30.0'
R20.0'
(25) VARIGATED LIRIOPE AT 18" O.C. (50 SF)
34"PINE TREE
RELOCATE EXISTING MAPLE TREE
48"WATEROAK TREE
26"SWEETGUM TREE
14"TREE
(73) WINTERGREEN BOXWOOD
STEEL EDGE, TYP.
MAPLE TREE
30"WILLOWOAK TREE
REMOVE 2 EXISTING TREES FOR PLACING SIGN
(25) VARIGATED LIRIOPE AT 18" O.C. (50 SF)
8' WOODEN PRIVACY FENCE
PROPOSED SHOP 11920 SQ. FT. FF = 430.6
40"WATEROAK TREE
30"PINOAK TREE
28"PINOAK TREE
38"PINOAK TREE
EX. OFFICE FF = 430.6
42"PINOAK TREE
22"SPLITWATEROAK TREE
(14) GREEN GIANT ARBORVITAE
EXISTING TREES BUFFER
EX. GRAPHIC DESIGN SHOP FF = 430.6
EX. SHOP FF = 430.6
EX. SHOP FF = 430.6
DLS
BAMBOO STARTING AT 75' SETBACK LINE. 15' IN DEPTH.
SOD LIMITS.
RESTORED BUFFER AREA
GREEN GIANT TREES. SPREAD EVENLY EVERY 20'.
15.0'
BEGIN FENCE
OHP
10S
50' 25' 0 50'

DATE	REVISION	BY
10-26-22	REVISED PER CITY OF BRYANT	TM
11-03-22	REVISED PER CITY OF BRYANT	TM

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BRYANT, AR

LICENSED LANDSCAPE ARCHITECT
CHAD M. OPPENHUIZEN
No. 5064
ARKANSAS

9/26/2022

CONTENTS:
LANDSCAPE PLAN

PROJECT NO: 21069
DATE: AUGUST 2022
SHEET NO: L1.0

Plotted: 9/26/2022 8:35 AM By: Jeremy Parsons
J:\Projects\2021 Projects\21069 2338 - 50 - Jeremy Parsons\Drawings\Work\Design\21069_2338 - 50 - Jeremy Parsons.dwg

LANDSCAPING NOTES:

1. REPORT ANY DISCREPANCIES FOUND IN THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE DESIGNER OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.

2. THE NUMBER OF PLANTS OR INTENDED COVERAGE AREAS SHOWN SHALL SUPERSEDE NOTED QUANTITIES. TREE LOCATIONS ARE DIAGRAMMATIC.

3. ALL PLANT MATERIALS MUST BE APPROVED PRIOR TO INSTALLATION. SUBSTITUTIONS OF SIZE OR TYPE OF MATERIAL ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL PRIOR TO DELIVERY OR INSTALLATION.

4. ALL PLANT MATERIALS SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION. REPLACE ANY DAMAGED, DESTROYED, OR REMOVED PLANT MATERIALS WITH THE SAME VARIETY AND SIZE PRIOR TO FINAL ACCEPTANCE.

5. PLANT STORAGE TO BE LOCATED OUT OF VEHICULAR USE AREAS AND NEAR A WATERING SYSTEM TO OPTIMIZE SURVIVAL.

6. ALL PLANTING BEDS SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

7. ALL PLANTING BEDS SHALL BE MULCHED WITH 3-INCHES SHREDDED HARDWOOD OR CYPRESS MUCH.

8. ALL SHRUBS AND TREES SHALL RECEIVE PLANTING BACKFILL OF 2/3 TOPSOIL AND 1/3 COMPOST BY VOLUME AND 2 POUNDS OF 14-14-14 TIMED-RELEASE FERTILIZER PER CUBIC YARD OF BACKFILL.

9. ALL BEDS INSIDE LAWN AREAS TO BE EDGED WITH 4" PAINTED STEEL EDGING.

10. ALL TREES AND SHRUBS SHALL BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING.

11. TREES SHALL NOT BE TOPPED AT ANY TIME. PROPER TREE PRUNING TECHNIQUES AS ESTABLISHED BY THE LATEST EDITION OF ANSI A300 STANDARDS FOR TREE CARE SHALL BE UTILIZED FOR MAINTENANCE PURPOSES.

12. COORDINATE ALL INSTALLATION ACTIVITIES WITH IRRIGATION WORK AND IMMEDIATELY REPAIR DAMAGES TO FINISH GRADES, SOD, AND PLANT MATERIALS UNTIL FINAL ACCEPTANCE.

13. SEE GRADING AND DRAINAGE PLAN FOR PROPOSED SLOPES, SWALES, BERMS, AND WATER FEATURES. MAINTAIN PROPER FINISH GRADES IN ALL AREAS AS INDICATED.

14. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING, REMOVAL OF MISCELLANEOUS DEBRIS AND ANY ADDITIONAL FILL REQUIRED TO PROVIDE MINIMUM TOPSOIL DEPTHS AND CREATE A SMOOTH CONDITION PRIOR TO PLANTING IN ALL AREAS.

15. TOPSOIL SHALL BE FREE OF STONES, ROOTS, CLODS, AND ANY OTHER FOREIGN MATERIAL THAT IS NOT BENEFICIAL FROM PLANT GROWTH.

16. LANDSCAPE AND OPEN AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES DURING CONSTRUCTION.

17. IDENTIFICATION LABELS MUST BE ATTACHED TO ALL PLANT MATERIALS AND SHALL REMAIN INTACT UNTIL FINAL ACCEPTANCE OF THE WORK. REMOVE ALL TAGS AND LABELS FOLLOWING FINAL ACCEPTANCE.

18. CALIPER OF TREES TO BE MEASURED 6-INCHES ABOVE GROUND LEVEL FOR TREES UP TO 4-INCH CALIPER SIZE.

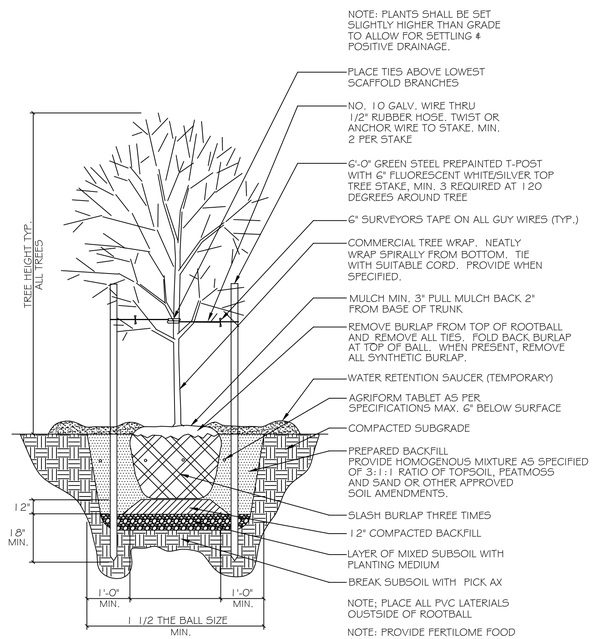
19. GENERAL CONTRACTOR SHALL PROVIDE 6-INCH DIAMETER MINIMUM SCHEDULE 40 PVC SLEEVING FOR IRRIGATION TO ALL CURB ISLANDS AND UNDER ALL DRIVE ISLE CROSSINGS.

20. CONTRACTOR TO REFER TO THE UTILITY PLAN SHEET FOR RECENT FIRE FLOW INFORMATION.

LEGEND:

PLAN QUANTITIES:

Quantity	Common Name/Botanical Name	Size	Remarks
20	Green Giant Arborvitae Thuja standishii x plicata 'Green Giant'	6 - 8'	Specimen, Full to Ground
123	Wintergreen Boxwood Buxus sinica var. Insularis 'Wintergreen'	3 gallon, 18" HT	Full well branched shrub with uniform shape, Space plants 4' o.c.
50	Varigated Liriope Liriope muscari 'Variegata'	1 gallon	Space plance at 18" o.c.
	Bermuda Tifway 419 Cynodon Dactylon var. Tifway 419	Sod	Solid sod, all areas indicated with close knit joints



1 L1 TREE PLANTING DETAIL
No Scale

SODDING OF DISTURBED AREAS

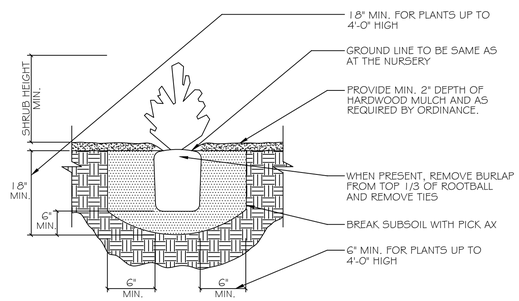
AREAS AND LIMITS OF SODDING ARE INDICATED BASED ON ANTICIPATED DISTURBANCE BY GRADING OPERATIONS. CONTRACTOR TO PROVIDE ADDITIONAL SODDING IN ANY OTHER AREAS DISTURBED BY WORK UNDER THIS CONTRACT. EXCAVATE AND REMOVE ANY REMAINING TURF AND SOIL TO A 4-INCH MINIMUM DEPTH WITHIN NEW SOD AREAS. HAND EXCAVATION REQUIRED WITHIN DRIP LINES OF TREE AREAS TO AVOID DAMAGE TO EXISTING ROOTS.

MAINTENANCE AND WARRANTY

CONTRACTOR TO PROVIDE FULL MAINTENANCE OF INSTALLED LANDSCAPE AND IRRIGATION UNTIL DATE OF FINAL ACCEPTANCE. ADDITIONALLY, CONTRACTOR TO PROVIDE ONE YEAR WARRANTY FOR ALL LANDSCAPE AND IRRIGATION WORK FROM THE DATE OF FINAL ACCEPTANCE.

IRRIGATION SYSTEM

CONTRACTOR TO PROVIDE AUTOMATIC IRRIGATION SYSTEM FOR ALL NEW LANDSCAPE AND TURF AREAS SHOWN ON THE PLANS. SYSTEM WILL REQUIRE PROVIDING BACKFLOW PREVENTER, PERMITTING, POWER CONNECTION, CONTROLLER, AND ALL OTHER WORK REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM THAT PROVIDES 100% COVERAGE. COORDINATE LOCATION OF CONTROLLER WITH OWNER, GENERAL CONTRACTOR, AND ELECTRICAL CONTRACTOR. COORDINATE LOCATION OF IRRIGATION SLEEVES WITH GENERAL CONTRACTOR PRIOR TO FULLY MOBILIZING TO SITE. CONTRACTOR TO REFER TO THE UTILITY PLAN SHEET FOR CURRENT FIRE FLOW INFORMATION.



NOTES:
1. PROVIDE WEED CONTROL AND/OR FERTILIZER AS SPECIFIED BELOW.
2. WEED CONTROL AND FERTILIZER MAY BE APPLIED AT A LATER DATE TO COMPLY WITH SEASONAL CONDITIONS AND THE GROWING PERIOD.
3. PROVIDE AGRIFORM TABLETS AS PER MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE OF 3:1 RATIO TOPSOIL TO PEATMOSS AND/OR OTHER APPROVED SOIL AMENDMENTS.
5. PROVIDE FERTILOME ROOT STIMULATOR OR APPROVED EQUAL IN PITS.
6. APPLY BALAN PREEMERGENT WEED CONTROL OR APPROVED EQUAL TREATMENT ON ALL SHRUB AND GROUNDCOVER BEDS.

2 L1 SHRUB PLANTING DETAIL
No Scale

BY	REVISION	DATE
TM	REVISED PER CITY OF BRYANT	10-26-22

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CHAD M. OPPENHUIZEN
No. 5064
ARKANSAS

9/26/2022

CONTENTS:

LANDSCAPING NOTES & DETAILS

PROJECT NO: 21069

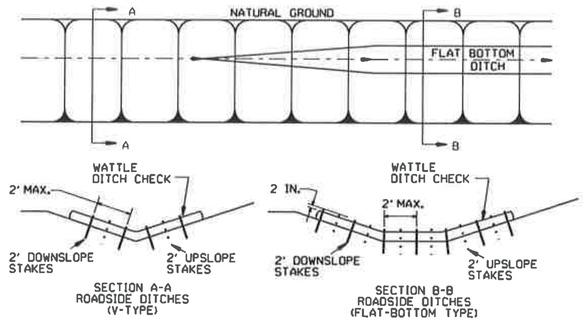
DATE: AUGUST 2022

SHEET NO: L1.1

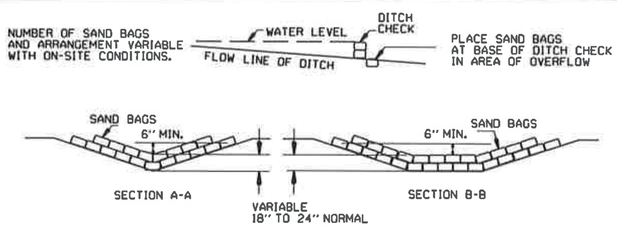
Plotted: 9/26/2022 2:27:53 PM By: Jimmy Parker
J:\Projects\2021 Projects\21069 2725 I-30 & - Jimmy Parker\Drawings\Arch\21069 - SITE DESIGN.dwg

GENERAL NOTES

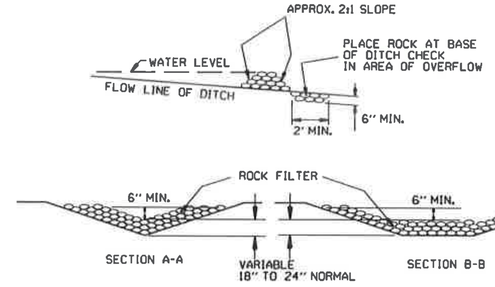
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

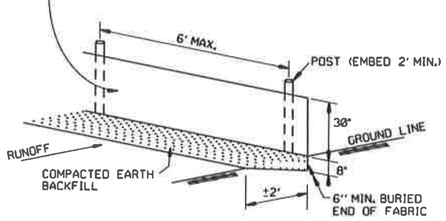


ROCK DITCH CHECK (E-6)

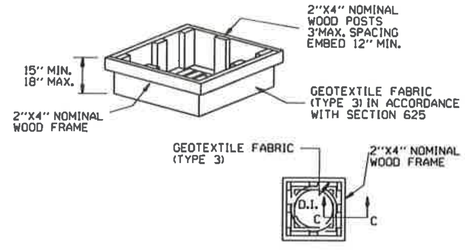
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

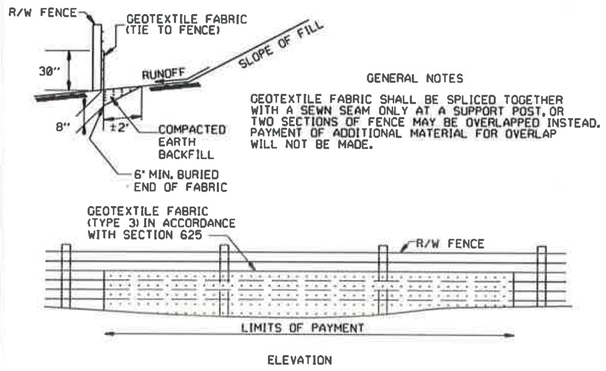
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)



DROP INLET SILT FENCE (E-7)



GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

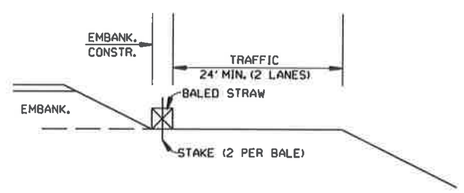
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

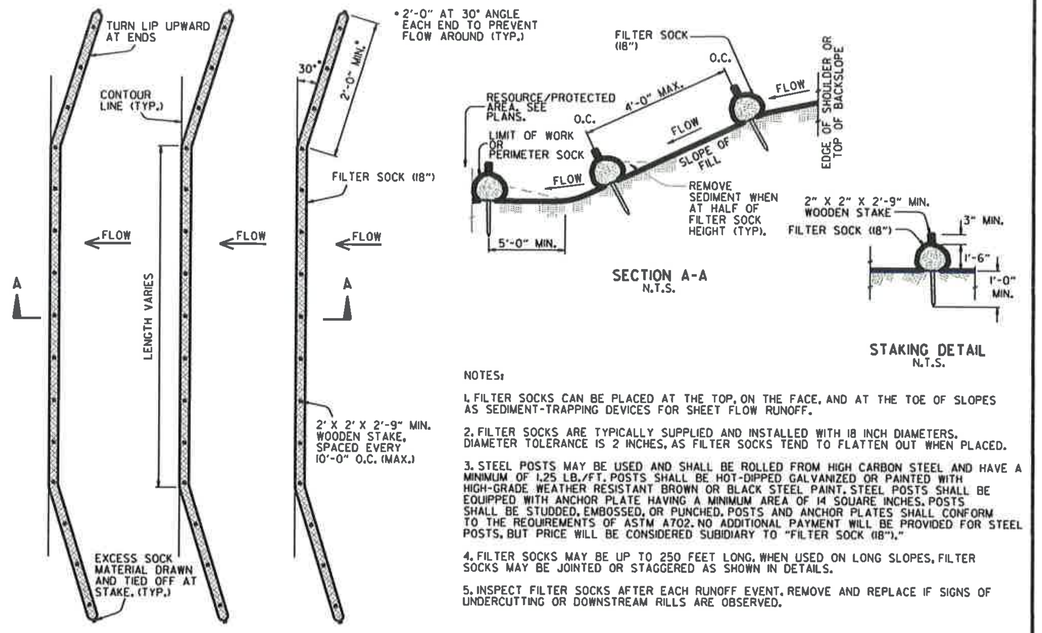
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

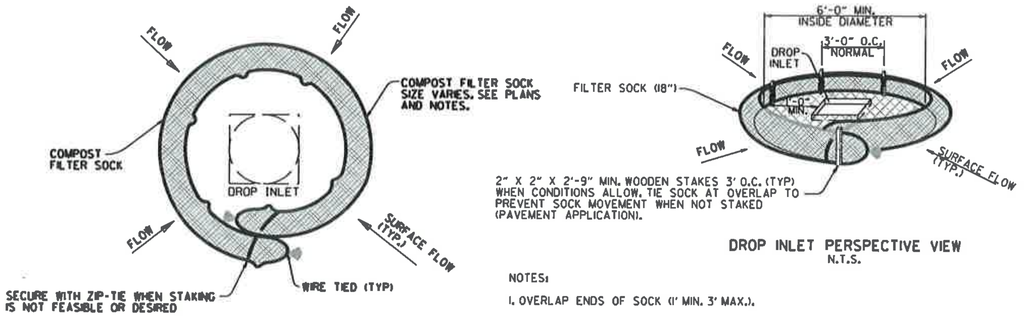
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

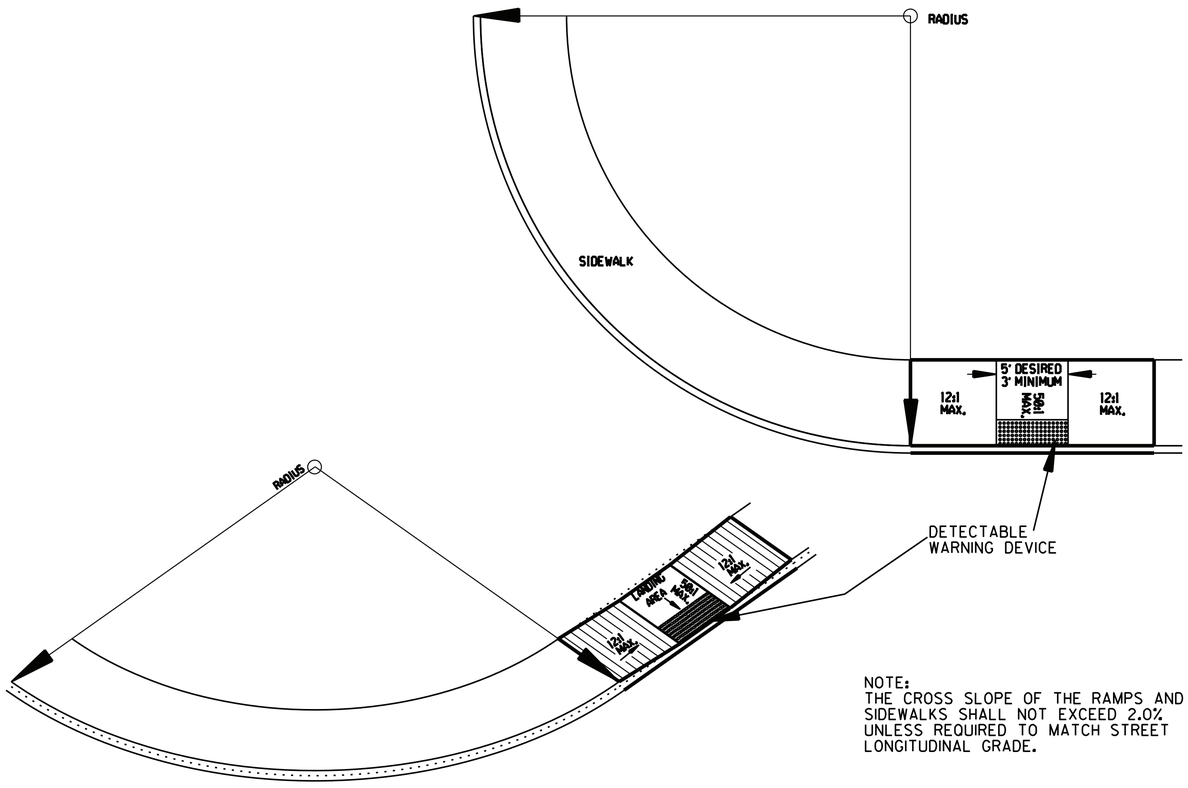
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

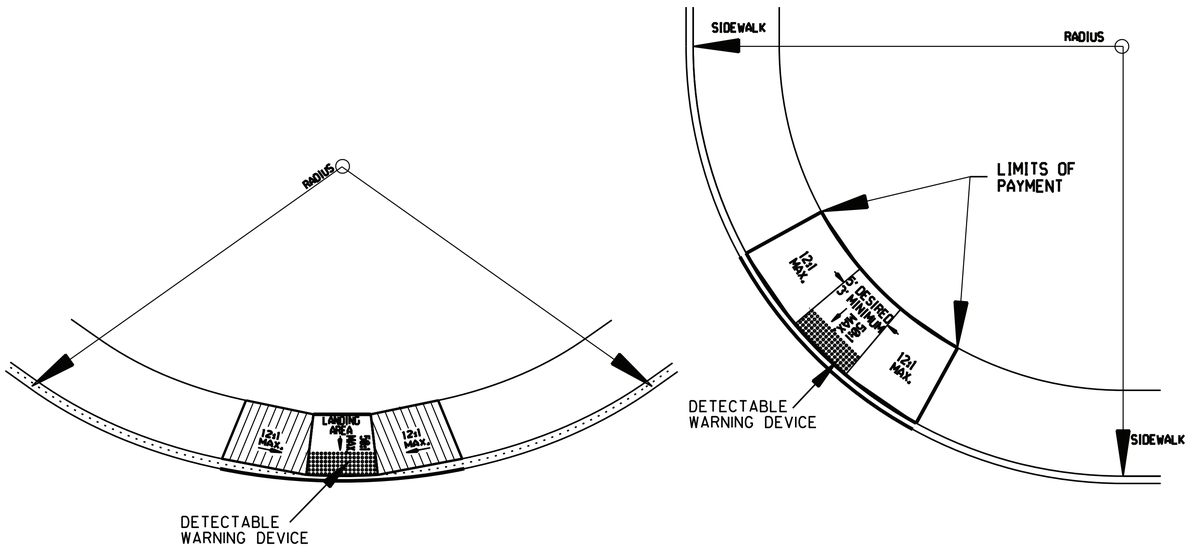
TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-1



NOTE:
THE CROSS SLOPE OF THE RAMPS AND SIDEWALKS SHALL NOT EXCEED 2.0% UNLESS REQUIRED TO MATCH STREET LONGITUDINAL GRADE.

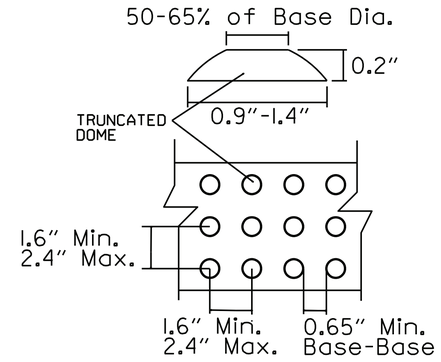
TYPE 5 RAMP



TYPE 6 RAMP

GENERAL NOTES FOR DETECTABLE WARNING DEVICES

THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF THE CURB.
TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.
DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
DETECTABLE WARNING DEVICE SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).



DETECTABLE WARNING DEVICE DETAIL

GENERAL NOTES:

IN ALTERATIONS WHEELCHAIR RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS.

THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. THE SURFACE TEXTURE OF THE RAMP SHALL CONFORM TO A CLASS 6 FINISH ACCORDING TO SECTION 802.19.

THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
THE MINIMUM THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 4".
THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE EXISTING WALK WIDTH OR 36", WHICHEVER IS GREATER.
MINOR MODIFICATIONS OF THESE DETAILS, AS APPPROVED BY THE ENGINEER, MAY BE MADE TO ADJUST TO LOCAL CONDITIONS.

RAMP SELECTION CRITERIA

FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 2	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE INSUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 3	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE SUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS).
SECOND CHOICE	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY).
THIRD CHOICE	TYPE 6	CORNER LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE TYPE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS.
FOURTH CHOICE		IF SITE CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, THEN AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO PROVIDE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). THE SLOPE CAN BE STEEPENED TO A 10:1 MAX. FOR A MAX. LENGTH OF 5' OR A 8:1 MAX. FOR A MAX. LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

NOTE: IN ALTERATIONS, THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED SHALL BE BASED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE PRESENCE OF OTHER SITE CONSTRAINTS (UTILITIES, BUILDINGS, ETC.). THE TABLE ABOVE LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED.

AN ALTERATION IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF A PEDESTRIAN PATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW CONSTRUCTION FOR THE PURPOSES OF THE CHART ABOVE.

DATE	REVISION	DATE FILM
10-9-03	REVISED GENERAL NOTES & ADDED NOTE.	
4-10-03	REVISED DETECTABLE WARNING DEVICE DETAIL	
8-22-02	ADDED DETECTABLE WARNING DEVICES DETAILS	
11-18-98	REV. FOURTH CHOICE NOTE	
8-12-98	REVISED TEXTURE	
7-02-98	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

WHEELCHAIR RAMPS ALTERATIONS ONLY

STANDARD DRAWING WR-2

A NEW FACILITY FOR: CUSTOM ADVERTISING

DRAINAGE CALCULATIONS – SUMMARY

10/6/2022

DESCRIPTION OF PROJECT

Custom Advertising is an approximately 15.45 Acre development located in the City of Bryant, Arkansas at the north Portion of I-30 N Frontage Rd. There is a ridge that runs through the site creating four main drainage basins. Basin 3 will be detained in a ditch located in the east of the site. The detention of the basin will be detained by a 19 ft. wide ditch. Basin 1 and 2 will not be detained. Basin 4 runs to west of the site and in-lieu-fee provided for this basin.

Stormwater Calculations were prepared with the intent to comply with the City of Bryant's Drainage Code. The primary intent of this analysis is to produce a drainage system adequately sized to convey post development runoff while attenuating post development discharge levels equal to or less than pre development flows.

Hydraulic calculations were made using the Rational Method. Design frequencies were analyzed for 2, 5, 10, 25, 50, and 100 year return periods.

These calculations are divided into the following sections:

Summary of Drainage Basins

Summary of Pipes

Detention Summary

Appendices

Exhibit A – Pre-Development Drainage Basins

Exhibit B – Post-Development Drainage Basins

A NEW FACILITY FOR: CUSTOM ADVERTISING

DRAINAGE CALCULATIONS – SUMMARY

10/6/2022

SUMMARY OF DRAINAGE BASINS

PRE-DEVELOPMENT CONDITIONS

The existing site contains four drainage basins. The existing site is a mixture of grass and clay soil with moderate slopes. Basin 1 drains to the south western side of the property, basin 2 drains to the south eastern side of the property, basin 3 drains to the north eastern side of the property and basin 4 drains to the south side of the property.

POST-DEVELOPMENT CONDITIONS

As previously described, this site is being developed into a commercial office. Slopes range from 2% to 6%. Runoff from the developed areas of basin 3 collects by a ditch and finally detained in the eastern corner of the property. Runoff from basin 1, 2 and 4 will not be captured.

SUMMARY OF PIPES

All pipes used in this project are HDPE. Therefore, a manning's of 0.012 was used on all pipes in the analysis.

DETENTION BASIN 1 SUMMARY

The ditch storage in these calculations detains flows from the basin 3. The ditch storage is located in the eastern portion of the property. The ditch storage is made of 300 linear feet of 1' concrete bottom trickle channel and has a volume of 4,800 cf. A concrete control structure is constructed on the east side of the ditch. This control structure uses a slotted weir to limit the discharge through the structure to that of the 2, 5, 10, 25, 50, and 100-year pre-development flow. The ditch storage is designed to hold the 100-year storm event.

POND

840-12204-000
JIMMY R BUCHANAN

410

POND

-006

AER

420

SHED

BASIN 2
PRE-BASIN
C=0.50
I=9.40 IN/HR
A= 3.77 ACRES
Q_{100}= 17.67 CFS

I-30 FRONTAGE ROAD

BASIN 3
PRE-BASIN
C=0.52
I=8.80 IN/HR
A= 6.13 ACRES
Q_{100}= 27.92 CFS

0-05787-006
DON &
YNNE BAER

GUEST
HOUSE

RESIDENCE

420

410

ORTH
INE

BARN

430

BASIN 1
PRE-BASIN
C=0.52
I=9.50 IN/HR
A= 2.84 ACRES
Q_{100}= 13.97 CFS

7-005
&
IOMAS

SW1/4 SE1/4
SEC.15-T1S-R14W

430

840-12207-000
BRYANT MCCAULEY, LLC.

BASIN 4
PRE-BASIN
C=0.51
I=9.10 IN/HR
A= 2.71 ACRES
Q_{100}= 12.58 CFS

840-12206-000
BRADY & APPIE
LEWIS

787-002
CAMBRE
RON

NW1/4 NE1/4
SEC.22-T1S-R14W

.B.

1141

15.43 ACRES

PART OF THE NORTHWEST QU
TOWNSHIP 1 SOUTH, RANGE 1
BEGINNING AT A FOUND 2" ALU
THE SAID NW1/4 NE1/4;
THENCE S87°35'42"E - 880.50 F
WHICH FALLS IN AN EXISTING
THENCE LEAVING SAID NORTH
THENCE S4°31'01"W - 502.04 FE

BY	REVISION	DATE

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116 Benton, AR 72018
3825 Mt Carmel Rd Bryant, AR 72022
Ph (501) 408-4650
garnatengineering@gmail.com

A NEW FACILITY FOR:
CUSTOM ADVERTTISING
JIMMY PARKER
BRYANT, AR

CONTENTS:
PRE
DRAINAGE
BASIN

PROJECT NO:
21069

DATE:
JULY 2021

SHEET NO:
1

Plot date: 7/30/2021 - 3:56 PM - Jimmy Parker Drainage.dwg - Layout: Layout1 - User: Jeffrey Baker - C:\Projects\2021 Projects\21069 JIMMY PARKER\Drawings\Jimmy Parker Drainage.dwg

840-12204-000
JIMMY R BUCHANAN

POND

POND

I-30 FRONTAGE ROAD

BASIN 2
POST-BASIN
C=0.95
I=10.0 IN/HR
A= 0.80 ACRES
Q_{100}=7.60 CFS

BASIN 3
POST-BASIN
C=0.75
I=10.0 IN/HR
A= 1.39 ACRES
Q_{100}=10.37 CFS

BASIN 4
POST-BASIN
C=0.76
I=10.0 IN/HR
A= 1.74 ACRES
Q_{100}=13.16 CFS

BASIN 1
POST-BASIN
C=0.75
I=10.0 IN/HR
A= 1.25 ACRES
Q_{100}=9.34 CFS

BASIN 5
POST-BASIN
C=0.76
I=10.0 IN/HR
A= 1.74 ACRES
Q_{100}=13.16 CFS

30.0'
149.0'
80.0'
30.0'
100.0'
80.0'
R25.0'

EX. OFFICE BUILDING
4125 SQ. FT.
FF=430.6

EX. GRAPHIC SHOP BUILDING
1800 SQ. FT.
FF=430.6

EX. SHOP BUILDING
11920 SQ. FT.
FF=430.6

EX. SHOP BUILDING
11920 SQ. FT.
FF=430.6

EXISITNG
25' UTILITY
EASEMENT

PARCEL ID:
840-12207-000
OWNER:
BRYANT MCCAULEY LLC
ADRESS:
PO BOX 6
BRYANT, AR. 72089
S22-T01S-R14W

840-12207-000
BRYANT MCCAULEY, LLC.

PARCEL ID:
840-12206-00
OWNER:
LEWIS BRADY & APPIE
TRUSTEES C/O GLENN LEWIS
ADRESS:
23532 I-30
S22-T01S-R14W

840-12206-000
BRADY & APPIE
LEWIS

NW1/4 NE1/4
SEC.22-T1S-R14W

PARCEL ID:
840-05787-005
OWNER:
THOMAS JAMES MORSEY
& BONNIE REVOCABLE TRUST.
ADRESS:
21830 SOUTH SOMERSET DR
S15-T01S-R14W

SW1/4 NE1/4
SEC.15-T1S-R14W

PARCEL ID:
840-05787-006
OWNER:
BAER DON & LYNNE IRREVOCABLE
TRUST - TRUSTEE JENNI
ADRESS:
800 CORRAL CIRCLE
S15-T01S-R14W

PARCEL ID:
840-05787-002
OWNER:
PEXRON CHAD WILLIAM &
CAMBRE CARSON
ADRESS:
775 CORRAL CIRCLE
S22-T01S-R14W

15.43 ACRES

PART OF THE NORTHWEST QUAR
TOWNSHIP 1 SOUTH, RANGE 14
BEGINNING AT A FOUND 2" ALUM
THE SAID NW1/4 NE1/4;
THENCE S87°35'42"E - 880.50 FEE
WHICH FALLS IN AN EXISTING PO
THENCE LEAVING SAID NORTH L
THENCE S4°31'01'W - 502.04 FEE

N

60' 30' 0 60'

BY	REVISION	DATE

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Ph (501) 408-4650
garnatengineering@gmail.com

A NEW FACILITY FOR:
CUSTOM ADVERTTISING
JIMMY PARKER
BRYANT, AR

CONTENTS:
POST DRAINAGE BASIN

PROJECT NO:
21069

DATE:
JULY 2021

SHEET NO:
2

Plot Date: 7/23/2021 - 2:36 P... Jimmy Parker\Drawings\Civil\Drawings\SHEET 2\21069 Drainage Basin -2.dwg

Stormwater Calcs - 23738 I-30 N
Using Rational Method

Pre-development

Calculated Tc values - Drainage Basin 1

$$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}} \text{ seconds}$$

L1 =	220	feet	L1 =	465	feet
n1 =	0.033	Gravel	n1 =	0.035	Streams on plain, more stones & weeds
S1 =	0.036	ft/ft	S1 =	0.036	ft/ft
$I_{assumed}$ =	6.90	inches	$I_{assumed}$ =	6.90	inches
$Tc_{calculated}$	230	seconds	$Tc_{calculated}$	374	seconds
$Tc_{calculated}$	3.84	minutes	$Tc_{calculated}$	6.23	minutes

Tc =	10.07	minutes	Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I =	6.90	inches	i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
Use Tc =	**10.00**	minutes	

I - 100 yr =	8.2
I - 50 yr =	7.6
I - 25 yr =	6.90
I - 10 yr =	6
I - 5 yr =	5.5
I - 2 yr =	4.7

Calculated Tc values - Drainage Basin 2

$$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}} \text{ seconds}$$

L1 =	100	feet	L1 =	500	feet
n1 =	0.15	Sheet flow	n1 =	0.045	Grass, some weeds
S1 =	0.033	ft/ft	S1 =	0.033	ft/ft
$I_{assumed}$ =	6.00	inches	$I_{assumed}$ =	6.00	inches
$Tc_{calculated}$	386	seconds	$Tc_{calculated}$	493	seconds
$Tc_{calculated}$	6.44	minutes	$Tc_{calculated}$	8.21	minutes

Tc =	14.65	minutes	Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I =	6.00	inches	i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
Use Tc =	**14.50**	minutes	

I - 100 yr =	7.5
I - 50 yr =	6.8
I - 25 yr =	6.00
I - 10 yr =	5.5
I - 5 yr =	4.9
I - 2 yr =	4.2

Calculated Tc values - Drainage Basin 3

$$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}} \text{ seconds}$$

L1 =	829	feet			
n1 =	0.045	Grass, some weeds			
S1 =	0.034	ft/ft			
$I_{assumed}$ =	6.80	inches			
$Tc_{calculated}$	630	seconds			
$Tc_{calculated}$	10.51	minutes			

Tc =	10.51	minutes	Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I =	6.80	inches	i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
Use Tc =	**10.50**	minutes	

I - 100 yr =	8.1
I - 50 yr =	7.4
I - 25 yr =	6.80
I - 10 yr =	6
I - 5 yr =	5.4
I - 2 yr =	4.7

Calculated Tc values - Drainage Basin 4

$$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}} \text{ seconds}$$

L1 =	491	feet	
n1 =	0.045	Grass, some weeds	
S1 =	0.028	ft/ft	
$I_{assumed}$ =	7.70	inches	
$Tc_{calculated}$	464	seconds	
$Tc_{calculated}$	7.73	minutes	
Tc =	7.73	minutes	Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I =	7.70	inches	i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
Use Tc =	**7.70**	minutes	

I - 100 yr =	9.1
I - 50 yr =	8.8
I - 25 yr =	7.70
I - 10 yr =	6.9
I - 5 yr =	6.1
I - 2 yr =	5.2

Stormwater Calcs - 23738 I-30 N
Using Rational Method

Post-development

Calculated Tc values - Drainage Basin 1

$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}}$ seconds

L1 =	220	feet	L1 =	465	feet
n1 =	0.033	Gravel	n1 =	0.035	Streams on plain, more stones & weeds
S1 =	0.035	ft/ft	S1 =	0.036	ft/ft
$I_{assumed}$ =	6.90	inches	$I_{assumed}$ =	6.90	inches
$Tc_{calculated}$	232	seconds	$Tc_{calculated}$	374	seconds
$Tc_{calculated}$	3.87	minutes	$Tc_{calculated}$	6.23	minutes

Tc = 10.10 minutes — Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I = 6.90 inches — i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual

Use Tc = **10.00** minutes

I_{100} =	8.2	Inches	I_{10} =	6.0	Inches
I_{50} =	7.5	Inches	I_5 =	5.5	Inches
I_{25} =	6.9	Inches	I_2 =	4.7	Inches

Calculated Tc values - Drainage Basin 2

$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}}$ seconds

L1 =	100	feet	L1 =	500	feet
n1 =	0.15	Sheet Flow	n1 =	0.035	Streams on plain, more stones & weeds
S1 =	0.033	ft/ft	S1 =	0.033	ft/ft
$I_{assumed}$ =	6.30	inches	$I_{assumed}$ =	6.30	inches
$Tc_{calculated}$	379	seconds	$Tc_{calculated}$	416	seconds
$Tc_{calculated}$	6.32	minutes	$Tc_{calculated}$	6.93	minutes

Tc = 13.24 minutes — Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I = 6.30 inches — i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual

Use Tc = **13.20** minutes

I_{100} =	7.8	Inches	I_{10} =	5.8	Inches
I_{50} =	7	Inches	I_5 =	5.0	Inches
I_{25} =	6.3	Inches	I_2 =	4.3	Inches

Calculated Tc values - Drainage Basin 3

$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}}$ seconds

L1 =	170	feet	L1 =	285	feet	L1 =	175	feet
n1 =	0.033	Gravel	n1 =	0.035	Streams on plain, more stones &	n1 =	0.02	Earth, straight and uniform ditch
S1 =	0.058	ft/ft	S1 =	0.058	ft/ft	S1 =	0.01	ft/ft
$I_{assumed}$ =	6.80	inches	$I_{assumed}$ =	6.80	inches	$I_{assumed}$ =	6.80	inches
$Tc_{calculated}$	172	seconds	$Tc_{calculated}$	243	seconds	$Tc_{calculated}$	220	seconds
$Tc_{calculated}$	2.87	minutes	$Tc_{calculated}$	4.05	minutes	$Tc_{calculated}$	3.66	minutes

Tc = 10.58 minutes — Tc for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual
I = 6.80 inches — i for 25-yr Storm from Exhibit 400-1 of Bryant Drainage Manual

Use Tc = **10.50** minutes

I_{100} =	8.1	Inches	I_{10} =	6.0	Inches
I_{50} =	7.4	Inches	I_5 =	5.4	Inches
I_{25} =	6.8	Inches	I_2 =	4.7	Inches

Calculated Tc values - Drainage Basin 4

$Tc = \frac{56 * L^{.6} * n^{.6}}{i^{.4} * S^{.3}}$ seconds

L1 =	491	feet
n1 =	0.045	Grass, some weeds
S1 =	0.028	ft/ft
$I_{assumed}$ =	7.70	inches
$Tc_{calculated}$	463	seconds
$Tc_{calculated}$	7.72	minutes

Tc = 7.72 minutes
I = 7.70 inches

Use Tc = **7.70** minutes

I_{100} =	9.1	Inches	I_{10} =	6.9	Inches
I_{50} =	8.8	Inches	I_5 =	6.1	Inches
I_{25} =	7.7	Inches	I_2 =	5.2	Inches

Stormwater Calcs - 23738 I-30 N
using Rational Method

Pre-development

Calculated C values - Drainage Basin 1

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	
								(C values taken from Bryant Drainage Manual)
Roof	0.02	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Asphalt	0.03	0.95	0.9	0.86	0.81	0.77	0.73	Developed - Asphaltic -Table 400-2
Grass	2.79	0.51	0.48	0.44	0.41	0.38	0.35	Undeveloped - Pasture/Range - Average, 2-7% - Table 400-2
Total	**2.84**	**0.52**	**0.49**	**0.45**	**0.42**	**0.39**	**0.36**	

Calculated C values - Drainage Basin 2

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	
								(C values taken from Bryant Drainage Manual)
Roof	0.14	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Asphalt	0.21	0.95	0.9	0.86	0.81	0.77	0.73	Developed - Asphaltic -Table 400-2
Grass	3.42	0.51	0.48	0.44	0.41	0.38	0.35	Undeveloped - Pasture/Range - Average, 2-7% - Table 400-2
Total	**3.77**	**0.50**	**0.47**	**0.43**	**0.40**	**0.37**	**0.35**	

Calculated C values - Drainage Basin 3

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	
								(C values taken from Bryant Drainage Manual)
Roof	0.10	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Grass	6.03	0.51	0.48	0.44	0.41	0.38	0.35	Undeveloped - Pasture/Range - Average, 2-7% - Table 400-2
Total	**6.13**	**0.52**	**0.49**	**0.45**	**0.42**	**0.39**	**0.36**	

Calculated C values - Drainage Basin 4

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	
								(C values taken from Bryant Drainage Manual)
Grass	2.71	0.51	0.48	0.44	0.41	0.38	0.35	Undeveloped - Pasture/Range - Average, 2-7% - Table 400-2
Total	**2.71**	**0.51**	**0.48**	**0.44**	**0.41**	**0.38**	**0.35**	

Stormwater Calcs - 23738 I-30 N
using Rational Method

Post-development

Calculated C values - Drainage Basin 1

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	(C values taken from Bryant Drainage Manual)
Concrete/Roof	0.41	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Grass	1.57	0.46	0.42	0.39	0.35	0.32	0.29	Developed - Good Condition (larger than 75% cover of the area) - Average, 2 to 7% - Table 400-2
Gravel	0.81	0.65	0.55	0.50	0.35	0.30	0.25	Streets - Gravel -Table 2.2 City of Little Rock Drainage Manual
Total	**2.79**	**0.59**	**0.53**	**0.49**	**0.42**	**0.38**	**0.35**	

Calculated C values - Drainage Basin 2

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	(C values taken from Bryant Drainage Manual)
Concrete/Roof	0.11	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Grass	2.24	0.46	0.42	0.39	0.35	0.32	0.29	Developed - Good Condition (larger than 75% cover of the area) - Average, 2 to 7% - Table 400-2
Gravel	0.39	0.65	0.55	0.50	0.35	0.30	0.25	Streets - Gravel -Table 2.2 City of Little Rock Drainage Manual
Asphalt	0.20	0.95	0.90	0.86	0.81	0.77	0.73	Developed - Asphaltic - Table 400-2
Total	**2.94**	**0.54**	**0.49**	**0.45**	**0.40**	**0.37**	**0.33**	

Calculated C values - Drainage Basin 3

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	(C values taken from Bryant Drainage Manual)
Concrete/Roof	1.34	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Asphalt	0.25	0.95	0.90	0.86	0.81	0.77	0.73	Developed - Asphaltic - Table 400-2
Grass	2.83	0.46	0.42	0.39	0.35	0.32	0.29	Developed - Good Condition (larger than 75% cover of the area) - Average, 2 to 7% - Table 400-2
Gravel	2.33	0.65	0.55	0.50	0.35	0.30	0.25	Streets - Gravel -Table 2.2 City of Little Rock Drainage Manual
Total	**6.74**	**0.64**	**0.58**	**0.54**	**0.46**	**0.42**	**0.38**	

Calculated C values - Drainage Basin 4

	Area	C_{100}	C_{50}	C_{25}	C_{10}	C_5	C_2	(C values taken from Bryant Drainage Manual)
Concrete/Roof	0.35	0.97	0.92	0.88	0.83	0.8	0.75	Developed - Concrete/Roof -Table 400-2
Gravel	1.81	0.65	0.55	0.50	0.35	0.30	0.25	Streets - Gravel -Table 2.2 City of Little Rock Drainage Manual
Grass	0.81	0.46	0.42	0.39	0.35	0.32	0.29	Developed - Good Condition (larger than 75% cover of the area) - Average, 2 to 7% - Table 400-2
Total	**2.97**	**0.64**	**0.56**	**0.51**	**0.41**	**0.36**	**0.32**	

Stormwater Calcs -23738 I-30 N
using Rational Method

Pre-development

Drainage Basin 1

Q_{100} = 12.06 CFS	Q_{50} = 10.52 CFS	Q_{25} = 8.77 CFS	Q_{10} = 7.11 CFS	Q_5 = 6.05 CFS	Q_2 = 4.76 CFS
c = 0.52	c = 0.49	c = 0.45	c = 0.42	c = 0.39	c = 0.36
i= 8.20 in/hr	i= 7.60 in/hr	i= 6.90 in/hr	i= 6.00 in/hr	i= 5.50 in/hr	i= 4.70 in/hr
A= 2.84 acres	A= 2.84 acres	A= 2.84 acres	A= 2.84 acres	A= 2.84 acres	A= 2.84 acres

Drainage Basin 2

Q_{100} = 14.10 CFS	Q_{50} = 12.04 CFS	Q_{25} = 9.77 CFS	Q_{10} = 8.35 CFS	Q_5 = 6.92 CFS	Q_2 = 5.47 CFS
c = 0.50	c = 0.47	c = 0.43	c = 0.40	c = 0.37	c = 0.35
i= 7.50 in/hr	i= 6.80 in/hr	i= 6.00 in/hr	i= 5.50 in/hr	i= 4.90 in/hr	i= 4.20 in/hr
A= 3.77 acres	A= 3.77 acres	A= 3.77 acres	A= 3.77 acres	A= 3.77 acres	A= 3.77 acres

Drainage Basin 3

Q_{100} = 25.70 CFS	Q_{50} = 22.10 CFS	Q_{25} = 18.64 CFS	Q_{10} = 15.33 CFS	Q_5 = 12.81 CFS	Q_2 = 10.27 CFS
c = 0.52	c = 0.49	c = 0.45	c = 0.42	c = 0.39	c = 0.36
i= 8.10 in/hr	i= 7.40 in/hr	i= 6.80 in/hr	i= 6.00 in/hr	i= 5.40 in/hr	i= 4.70 in/hr
A= 6.13 acres	A= 6.13 acres	A= 6.13 acres	A= 6.13 acres	A= 6.13 acres	A= 6.13 acres

Drainage Basin 4

Q_{100} = 12.58 CFS	Q_{50} = 11.45 CFS	Q_{25} = 9.18 CFS	Q_{10} = 7.67 CFS	Q_5 = 6.28 CFS	Q_2 = 4.93 CFS
c = 0.51	c = 0.48	c = 0.44	c = 0.41	c = 0.38	c = 0.35
i= 9.10 in/hr	i= 8.80 in/hr	i= 7.70 in/hr	i= 6.90 in/hr	i= 6.10 in/hr	i= 5.20 in/hr
A= 2.71 acres	A= 2.71 acres	A= 2.71 acres	A= 2.71 acres	A= 2.71 acres	A= 2.71 acres
Total 64.44 CFS	56.11 CFS	46.36 CFS	38.46 CFS	32.05 CFS	25.44 CFS

Post-development

Drainage Basin 1

Q_{100} = 13.50 CFS	Q_{50} = 11.12 CFS	Q_{25} = 9.51 CFS	Q_{10} = 7.04 CFS	Q_5 = 5.90 CFS	Q_2 = 4.54 CFS
c = 0.59	c = 0.53	c = 0.49	c = 0.42	c = 0.38	c = 0.35
i= 8.20 in/hr	i= 7.50 in/hr	i= 6.90 in/hr	i= 6.00 in/hr	i= 5.50 in/hr	i= 4.70 in/hr
A= 2.79 acres	A= 2.79 acres	A= 2.79 acres	A= 2.79 acres	A= 2.79 acres	A= 2.79 acres

Drainage Basin 2

Q_{100} = 12.33 CFS	Q_{50} = 10.06 CFS	Q_{25} = 8.43 CFS	Q_{10} = 6.81 CFS	Q_5 = 5.38 CFS	Q_2 = 4.20 CFS
c = 0.54	c = 0.49	c = 0.45	c = 0.40	c = 0.37	c = 0.33
i= 7.80 in/hr	i= 7.00 in/hr	i= 6.30 in/hr	i= 5.80 in/hr	i= 5.00 in/hr	i= 4.30 in/hr
A= 2.94 acres	A= 2.94 acres	A= 2.94 acres	A= 2.94 acres	A= 2.94 acres	A= 2.94 acres

Drainage Basin 3

Q_{100} = 35.21 CFS	Q_{50} = 29.02 CFS	Q_{25} = 24.86 CFS	Q_{10} = 18.69 CFS	Q_5 = 15.46 CFS	Q_2 = 12.15 CFS
c = 0.64	c = 0.58	c = 0.54	c = 0.46	c = 0.42	c = 0.38
i= 8.10 in/hr	i= 7.40 in/hr	i= 6.80 in/hr	i= 6.00 in/hr	i= 5.40 in/hr	i= 4.70 in/hr
A= 6.74 acres	A= 6.74 acres	A= 6.74 acres	A= 6.74 acres	A= 6.74 acres	A= 6.74 acres

Drainage Basin 4

Q_{100} = 17.19 CFS	Q_{50} = 14.59 CFS	Q_{25} = 11.77 CFS	Q_{10} = 8.33 CFS	Q_5 = 6.60 CFS	Q_2 = 4.94 CFS
c = 0.64	c = 0.56	c = 0.51	c = 0.41	c = 0.36	c = 0.32
i= 9.10 in/hr	i= 8.80 in/hr	i= 7.70 in/hr	i= 6.90 in/hr	i= 6.10 in/hr	i= 5.20 in/hr
A= 2.97 acres	A= 2.97 acres	A= 2.97 acres	A= 2.97 acres	A= 2.97 acres	A= 2.97 acres
Total 78.22 CFS	64.78 CFS	54.57 CFS	40.87 CFS	33.35 CFS	25.82 CFS

Detention Volume

Pond-1
for Q100

Cundev=	0.52	
Iundev=	8.20	in/hr
Cdev=	0.59	
Idev=	8.20	in/hr
R=	0.592	
A=	2.79	acres
Tc=	10.00	minutes
	60	sec/min
Detention Volume=	991	cubic feet

Pond-2
for Q100

Cundev=	0.50	
Iundev=	7.50	in/hr
Cdev=	0.54	
Idev=	7.80	in/hr
R=	0.453	
A=	2.94	acres
Tc=	13.20	minutes
	60	sec/min
Detention Volume=	1056	cubic feet

Pond-3
for Q100

Cundev=	0.52	
Iundev=	8.10	in/hr
Cdev=	0.64	
Idev=	8.10	in/hr
R=	1.031	
A=	6.74	acres
Tc=	10.50	minutes
	60	sec/min
Detention Volume=	4,378	cubic feet

Pond-4
for Q100

Cundev=	0.51	
Iundev=	9.10	in/hr
Cdev=	0.64	
Idev=	9.10	in/hr
R=	1.146	
A=	2.97	acres
Tc=	7.70	minutes
	60	sec/min
Detention Volu	1,572	cubic feet

Stormwater Calcs - 23738 I-30 N
using Rational Method
Ditch Detention Volume

Required Detention Volume = 4378.204 cft

Ditch Bottom	1	ft
Ditch Height	3	ft
Ditch Slope	3	:1
Ditch Top	19	ft
Ditch Cross Sectional Area	30	sft

EAST Side

Ditch Length	320	ft
Ditch Volume	4800	cft

Total Volume = 4837.5 cft

Required Detention Volume = 0 cft

Ditch Bottom	0	ft
Ditch Height	0.5	ft
Ditch Slope	3	:1
Ditch Top	3	ft
Ditch Cross Sectional Area	0.75	sft

EAST Side

Ditch Length	100	ft
Ditch Volume	37.5	cft

Stormwater Calcs - 23738 I-30 N
using Rational Method
Weir-1 Sizing

Storm Event	Flow (cfs)
Q2 - Pre	10.27
Q10 - Pre	15.33
Q25 - Pre	18.64
Q100 - Pre	25.70
Q2 - Post	12.15
Q10 - Post	18.69
Q25 - Post	24.86
Q100 - Post	35.21

Rectangular Weir

Q100

Q (cfs)	**CLH^1.5**		
C	**2.5**		
L	**1.917**	23	INCHES
H	**3**		
Q (cfs)	**24.90**		

Q25

Q (cfs)	**CLH^1.5**		
C	**2.5**		
L	**1.917**	23	INCHES
H	**2.4**		
Q (cfs)	**17.82**		

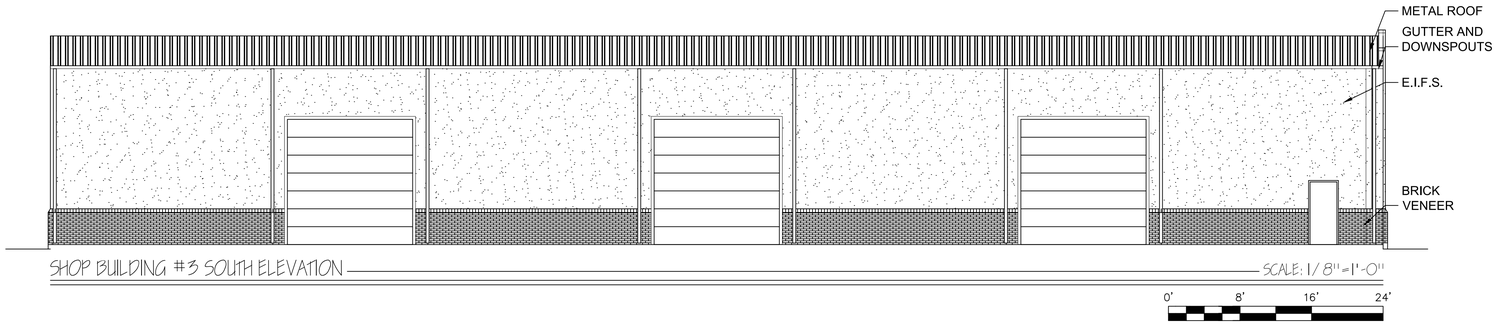
Q10

Q (cfs)	**CLH^1.5**		
C	**2.5**		
L	**1.917**	23	INCHES
H	**2.1**		
Q (cfs)	**14.58**		

Q2

Q (cfs)	**CLH^1.5**		
C	**2.5**		
L	**1.917**	23	INCHES
H	**1.6**		
Q (cfs)	**9.70**		

#2147



SHOP BUILDING #3 SOUTH ELEVATION — SCALE: 1/8"=1'-0"

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terry burruss Architect
11912 KANIS ROAD, SUITE F-8
LITTLE ROCK, ARKANSAS, 72211
(OFFICE) 501-376-3676
(FAX) 501-376-5166
tburrussarchitect@sbcglobal.net

SHEET TITLE: SHOP BUILDING #3

A NEW DEVELOPMENT FOR: CUSTOM ADVERTISING

BRYANT, ARKANSAS

PROJECT # 2267

DATE: 09/28/2022

SHEET # A1.0

PAGE # OF

Bryant Planning Commission

LARGE SCALE DEVELOPMENT
COMMERCIAL BUILDING
CHECKLIST

CITY OF BRYANT
210 SW 3RD STREET
BRYANT, AR 72022
501-943-0309

PC MEETING DATE:	SECOND MONDAY OF EACH MONTH
TIME:	6:00 P.M.
PLACE:	COURTROOM - BRYANT OFFICE COMPLEX
AGENDA DEADLINE:	5:00 P.M. THREE WEEKS PRIOR TO THE REGULARLY SCHEDULED MEETING DATE

REQUIREMENTS FOR SUBMISSION

LETTER TO PLANNING COMMISSION STATING YOUR REQUEST

COMPLETED CHECKLIST (SUBDIVISION OR BUILDING)

ADA/ABA FORM COMPLETED

TWO FULL SETS OF BUILDING PLANS

20 FOLDED COPIES OF SITE PLAN (MINIMUM SIZE 17" X 34") THAT INCLUDES THE FOLLOWING:
VICINITY MAP - LEGAL DESCRIPTION - LANDSCAPING PLAN

20 FOLDED COPIES OF FLOOR PLAN

20 COPIES OF FRONT AND REAR BUILDING ELEVATIONS

AN IBM COMPATIBLE DISKETTE IN PDF FORMAT

COPY OF ADEQ STORMWATER POLLUTION PREVENTION PLAN FOR PROPERTY PARCEL CONTAINING ONE ACRE OR LARGER.

COPY OF STORMWATER DETENTION APPROVAL BY ENGINEER

$250.00 FOR STORMWATER DETENTION AND DRAINAGE PLAN REVIEW

ALL REQUIREMENTS LISTED ABOVE MUST BE COMPLETED AND ATTACHED BEFORE SUBMITTING APPLICATION TO BE PLACED ON THE PLANNING COMMISSION AGENDA.

NOTE: WHEN MAKING CHANGES TO AN APPROVED SITE PLAN, A REVISED SITE PLAN MUST BE SUBMITTED TO THE BRYANT PLANNING COMMISSION FOR APPROVAL. THIS MUST BE DONE PRIOR TO IMPLEMENTATION. FAILURE TO COMPLY WILL RESULT IN PENALTIES/FINES BEING IMPOSED IN ACCORDANCE WITH CITY ORDINANCES.

I HAVE COMPLIED WITH THE REQUIREMENTS LISTED ABOVE AND HAVE CHECKED ALL OF THE BOXES ON THE CHECKLIST WHICH APPLY TO THIS PROJECT SUBMITTAL.

Vernon J Williams
SIGNATURE

10/05/2022
DATE

IV. Site Coverage Compliance with Requirements

(For your convenience we have listed the three commercial zoning site coverage requirements - choose the zoning for this project and complete only that section)

	YES	NO
1. C-1 Zoning - Neighborhood Commercial		
Lot area: minimum of 2,500 square feet; maximum 16,000 square feet	____	____
Front Yard: none required	____	____
Side Yard: minimum of 5 feet each side	____	____
Rear Yard: minimum of 55 feet	____	____
Maximum lot coverage of 70% of the total area of the site for all principal, accessory buildings, parking lots, sidewalks, private streets, or drives.	____	____
Parking: one space per each 200 sq. ft. of commercial use	____	____
Loading areas: physically separated from all streets with 10 ft grassy area	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____
2. C-2 Zoning - Lots fronting along roadways designated as Interstate 30 and frontage roads, State Highway 5 and 183		
Front Yard: not less than 50 feet from front property line	____	____
Side Yard: not required, except where they abut a street or a residential lot line then a minimum of 25 feet is required	____	____
Rear Yard: minimum of 15 feet, except where they abut residential area then a minimum of 55 feet is required	____	____
A maximum lot coverage of 35% of the total area of the site for all principal and accessory buildings	____	____
Parking: one space per each 300 sq. ft. of occupied space	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____
3. C-2 Zoning - Lots fronting along roadways designated as interior local.		
Front Yard: none required	____	____
Side Yard: not required, except where they abut a street or a residential lot line then a minimum of 25 percent of lot dimension	____	____
Rear Yard: minimum of 15 feet, except where they abut residential area then a minimum of 55 feet is required	____	____
A maximum lot coverage of 85% of the total area of the site for all principal, accessory buildings and parking	____	____
Parking: one space per each 300 sq. ft. of occupied space	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____

City of Bryant Commercial Building Checklist

Name of Development Custom Advertising Phase 2

Site Location 23738 I-30 N Current zoning C-3

Owner William Smith Phone 501-607-2677

I. Basic Information Needed On The Site Plan

- ▲ 1. Name of Development
- ▲ 2. Current zoning
- ▲ 3. Name and Address of owner of Record
- ▲ 4. Name and address of the architect, landscape architect, engineer, surveyor, or other person involved in the preparation of the plan
- ▲ 5. Date of preparation of the plan
- ▲ 6. Vicinity map locating streets, highways, section lines, railroad, schools, & parks within ½ mile
- ▲ 7. Legal description of the property with exact boundary lines
- ▲ 8. North arrow & Scale
- ▲ 9. Identification of any land areas within the 100 year floodplain and within the 100 year floodway
- ▲ 10. Lot area in square feet
- ▲ 11. Show scale (not less than 1" = 100') (paper size minimum 17" X 34")
- ▲ 12. Existing streams, drainage channels, and other bodies of water
- ▲ 13. Drainage easements for stormwater run-off and detention shown & labeled
- ▲ 14. Location and name of existing streets
- ▲ 15. Show source of water supply
- ▲ 16. Show location of waste water connection to municipal system & sanitary sewer layout
- ▲ 17. Fire Hydrant placement
- ▲ 18. Proposed location of buildings and other structures, parking areas, drives, loading areas, service areas, alleys, walks, screening, and public streets
- ▲ 19. Sufficient dimensions to indicate relationship between buildings, property lines, parking areas and other elements of the plan
- ▲ 20. Extent and character of proposed landscaping. Common and/or Botanical plant names and sizes of new vegetation must be clearly indicated.
- ▲ 21. Location, massing and pattern of existing vegetation to be retained
- ▲ 22. Existing structures on the site
- ▲ 23. Pedestrian and vehicular access points, sidewalks, crosswalks, etc.
- ▲ 24. Typical building elevations depicting the style, size and exterior construction materials of the buildings proposed. Where several building types are proposed on the plan, such as apartments and commercial buildings, a separate sketch shall be prepared for each type. The elevations shall be drawn at a minimum scale of 1/16" to a foot and must show adjoining context.
- ▲ 25. Any variance approvals

II. Additional Information Needed, But Not On The Site Plan

Commercial Building Worksheet

	Yes	No
Site is compatible with Master Street Plan		
Proposed improvement is within building line setbacks Front 50 ft. Side 25 ft. CNR Side N/A ft. Back 25 ft.	V	
Parking requirements can be satisfied Floor Space 8,000 sq.ft. divided by 300 = 26.6 (no. of parking spaces required)	V	
Improvement is outside 100 year flood plain (if answer is no - Provide 404 Permit for site)	V	
Lowest building floor level and all mechanical equipment are above FEMA 100 year flood elevation		
Will there be a dumpster located on the site?		
Will there be a construction site office?		V
Have you made "One Call"?		V
Structure and site complies with ADA (Americans with Disability Act) and ABA (Architectural Barriers Act) Accessibility Guidelines	V	
Design complies with ~~Arkansas Plumbing Code~~ and National Electric Code requirements	V	
Foundation and structure meet earthquake requirements for Zone 1.	V	
Structure meets Arkansas Energy Code for specified use.	V	
Complies with Arkansas Fire Prevention Code	V	
Complies with International Code Council regulations	V	
Will a Site Clearance Permit be required? (City Ordinance 2002-03)	V	
Are you granted any variances by the Board of Adjustment?		
If you have been granted a variance please explain in detail:		

III. Landscaping Compliance With Requirements

	YES	NO
No planting within 5 feet of a fire hydrant	V	
Spacing will be 40' between trees	V	
Tree must be a minimum 3" in diameter at the base and 12' + tall	V	
Existing trees meeting the minimum size can be counted to meet above criteria	V	
No trees can be planted within 30 feet of a property corner or driveway	V	
Shrubs along street right-of-way lines cannot exceed 30 inches in height	V	

V. Site Plan Attachments

(Application will not be accepted until all attachment requirements are met)

- ▲ 26. Letter to Planning Commission stating your request
- ▲ 27. Completed Checklist
- ▲ 28. Completed ADA/ABA Form
- ▲ 29. Two full sets of Building Plans
- ▲ 30. 20 copies of Site Plan (folded to no larger than 8 ½ X 14 size) that includes vicinity map and landscaping plan (minimum size 17" X 34" paper)
- ▲ 31. 20 copies of Landscaping Plan (folded to no larger than 8 ½ X 14 size)
- ▲ 32. 20 copies of building floor plan (folded to no larger than 8 ½ X 14 size)
- ▲ 33. Copy of Stormwater Detention approval
- ▲ 34. Copy of ADEQ Stormwater Pollution Prevention Plan for property containing one acre or larger.
- ▲ 35. IBM compatible diskette or CD with data in PDF format.
- ▲ 36. Receipt for $250.00 for Stormwater Detention and Drainage Plan review

I CERTIFY that the design of Custom Advertising Phase 2 in the City of Bryant, Arkansas complies with the above regulations, laws and codes.

Vernon J Williams	Vernon J Williams
Owner ~~Agent~~	Engineer/Architect
P.O. Box 91	501-408-4650
Mailing Address	Phone #
Alexander, AR, 72002	10/05/2022
City	Date

CITY USE

Action Taken:

_____

_____

_____

Special Conditions:

_____

_____

Permit Issued: Date _____ Sq.Ft. _____ Amount $_____

Construction Completed Certified For Occupancy: Date: _____

Inspector: _____

Permit No. _____

BUILDING PERMIT

ADA/ABA ACCESSIBILITY STANDARDS

The *Americans with Disability Act* and *Architectural Barriers Act* Accessibility Guidelines were prepared by the U.S. Access Board and mandated by the U. S. Department of Justice regulations implementing Title III as the official ADA/ABA accessibility guidelines. **All new construction, remodeling, and modifications must conform to these building standards** for places of public accommodation and commercial facilities. Residential is exempt.

The ADA/ABA accessibility guidelines contain general design standards for building and site elements, such as accessible entrances and routes, ramps, parking spaces, stairs, elevators, restrooms, signage, etc. Also included are specific standards for restaurants, medical care facilities, libraries and transportation facilities and vehicles, and places of lodging.

The guidelines also include "scoping" requirements that outline the necessary features or appropriate quantity for achieving ready access. For example, at least 50 percent of all public entrances to buildings must be accessible with an accessible path of travel. In public restrooms, at least one bathroom stall must be accessible unless there are more than six stalls, in which case the number increases.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the ADA Accessibility Guidelines. I further understand that a copy of the ADA/ABA Regulations are available for inspection during business hours of City Hall or I may obtain a copy by writing:

The Access Board
1331 F Street, NW, Suite 1000
Washington, DC 20004-1111
(202) 272-0080 (v) (202) 272-0082 (TTY) (202) 272-0081 (fax)
(800) 872-2253 (v) (800) 993-2822 (TTY)
email: info@access-board.gov

Signature of Contractor or Authorized Agent Vernon J Williams **Date** 10/05/2022

Signature of Owner (if owner-builder) _____ **Date** _____

Application of Permit Approved: _____ **Date** _____
Commission - Chairman

AFFIDAVIT

I, William Smith, Owner of Northside Center, LLC certify by my signature below that I hereby authorize Vernon Williams of GarNat Engineering, LLC to act as Northside Center, LLC's agent regarding the Large Scale Development Commercial Building for the Custom Advertising's Project.

William Smith
Owner
Northside Center, LLC

7-21-2021
Date

Subscribed and sworn to me a Notary Public on this 21 day of JULY, 2021.

Notary Public

My Commission Expires:
02-05-2031

GEORGE P. WOODEN
Notary Public-Arkansas
Saline County
My Commission Expires 02-05-2031
Commission # 12714343

GNE

GarNat Engineering, LLC

Designing our client's success

P.O. Box 116 (72018)
3825 Mt. Carmel Rd
Bryant, Arkansas 72022
PH: (501) 408-4650
FX: (888) 900-3068
garnatengineering@gmail.com

October 5, 2022

Mr. Truett Smith
Bryant Planning Coordinator/Planning Commission Secretary
210 SW 3rd Street
Bryant, AR 72022

Re: Large Scale Development Commercial Building – Custom Advertising Phase 2

Dear Mr. Smith:

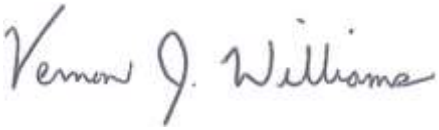
Please allow this letter and following list of enclosures to serve as my application for approval of the referenced site plan. It is my desire that this matter be included on the agenda for your November, 2022 City of Bryant planning Commission meeting.

List of Enclosures

- 2 Full Set Plans
- Affidavit
- 8 Copies of Site Plan
- 8 Copies of Final Plat
- 1 Copy of Shop Building Elevation
- Bryant Large Development Checklist
- ADA/ABA Accessibility Standards Form
- Drainage Study (Sent Separately by Email)
- Review fee of $250.00

If you have questions or need any additional information, please do not hesitate to contact me.

Sincerely,
GarNat Engineering, LLC



Vernon J. Williams, P.E., President

SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR

ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)

PERMITTED USES: RESTAURANTS PERMITTED

BUILDING COVERAGE: 35% MAXIMUM

HEIGHT: THREE STORIES OR 45' MAXIMUM

FRONT SETBACK: 50' MINIMUM

SIDE SETBACK: 0' UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 25' MINIMUM

REAR SETBACK: 15' MINIMUM UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 55' MINIMUM

REQUIRED PARKING: ONE SPACE PER 300 SF OF OCCUPIED SPACE=664/300=2 SPACES

PROPOSED PARKING: 7 STALLS INCLUDING 1 HANDICAP

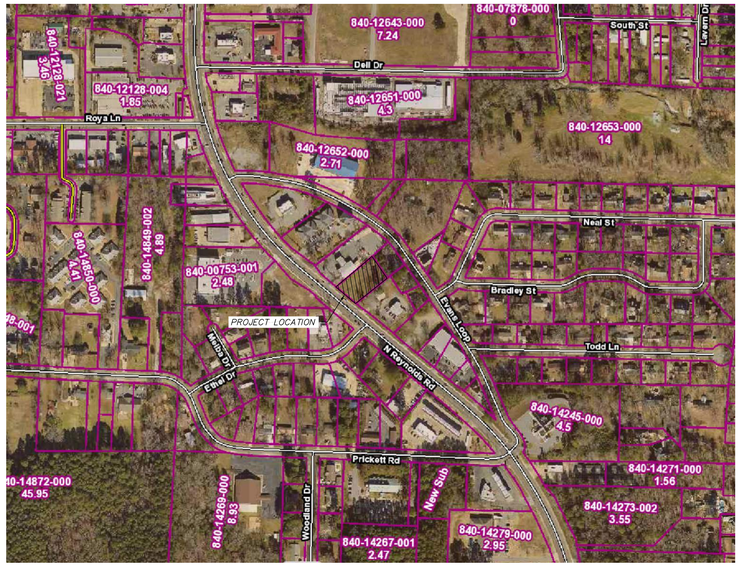
IMPERVIOUS AREA COVERAGE: 90% MAXIMUM

CONSTRUCTION DRAWINGS

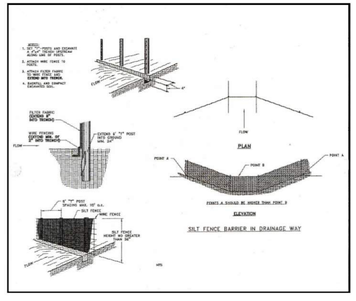
PROPOSED SCOOTER'S COFFEE
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

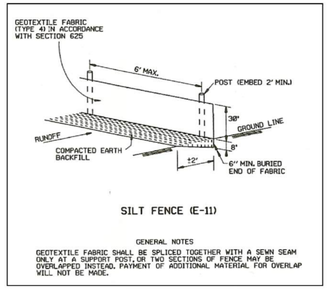
PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-016225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 662.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 269 AT PAGE 331, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 121.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 33 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.



VICINITY MAP (NTS)





CITY SILT FENCE DETAILS

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

SITE INFORMATION:
PARCEL: 840-14249-000
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PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
618-656-9251

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SURVEYOR:
MCALISTER ENGINEERING
4508 STADIUM BLVD, SUITE D
JONESBORO, AR 72404

DRAWING INDEX

C0.0 COVER SHEET
C1.0 PROPOSED SITE PLAN
C2.0 STORMWATER MANAGEMENT PLAN
C3.0 SEDIMENT AND EROSION CONTROL PLAN
C4.0 LANDSCAPE PLAN
C5.0 ALTA SURVEY

LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21001
WILSON D. WAGGONER

Title: COVER SHEET
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

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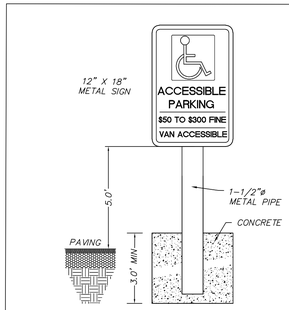
NO.	DATE	REVISION
1	10/12/22	CITY COMMENTS

PROJECT NO. 2235801

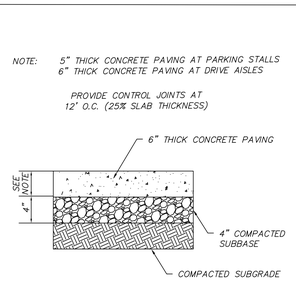
DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C0.0

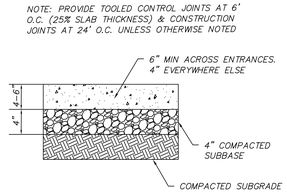
SHEET 1 OF 5



ACCESSIBLE PARKING SIGN
NOT TO SCALE



CONCRETE PAVING SECTION
NOT TO SCALE



CONCRETE SIDEWALK SECTION
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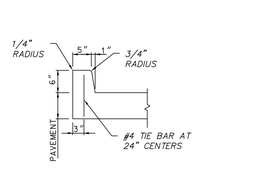
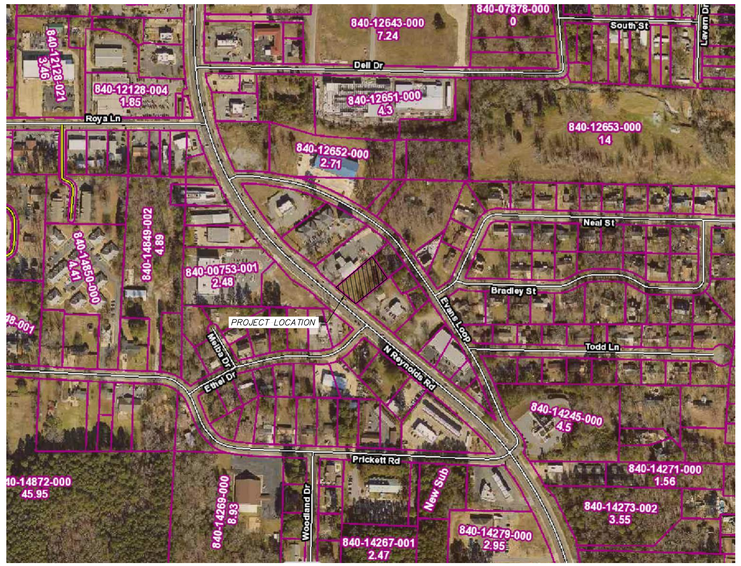


CONCRETE BARRIER CURB SECTION
NOT TO SCALE



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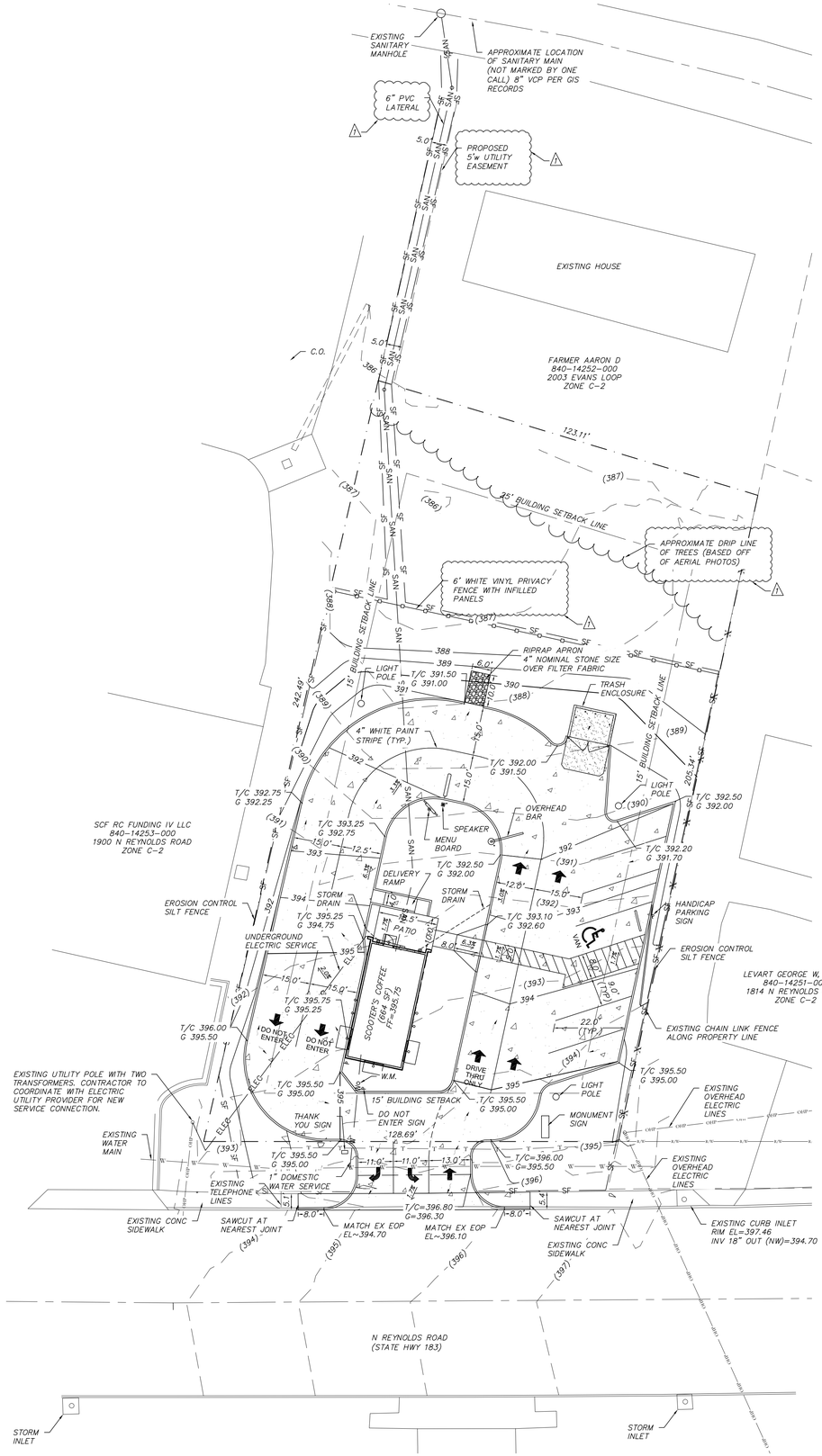
LEGEND

	PROPOSED CONCRETE PAVEMENT
ELEC	PROPOSED ELECTRIC SERVICE
W	PROPOSED WATER SERVICE
SAN	PROPOSED SANITARY SERVICE
ST	PROPOSED STORM DRAIN
SF	EROSION CONTROL SILT FENCE
T/C	TOP OF CURB
G	GRADE/BOTTOM OF FACE OF CURB
(XXX)	EXISTING GRADE ELEVATION
XXX	PROPOSED GRADE ELEVATION



0' 10' 20'
SCALE : 1"=20'

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118 VERONA CIRCLE
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316 N. MAIN STREET
EDWARDSVILLE, IL 62025
(618)656-9251

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SURVEYOR:
HOPE CONSULTING
117 S MARKET STREET
BENTON, ARKANSAS 72015
(501)315-2626

LOT AREA

27,806± SQ.FT.
0.64± AC.

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SEWER: CITY OF BRYANT
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LEGAL DESCRIPTION

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SUMMARY TABLE

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ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)
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FRONT SETBACK: 50' MINIMUM
SIDE SETBACK: 0' UNLESS ABUTS RESIDENTIAL DISTRICT, THENCE 25' MINIMUM
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ENGINEER'S CERTIFICATE

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10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21001
WILSON D. WAGGONER

Title: PROPOSED SITE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

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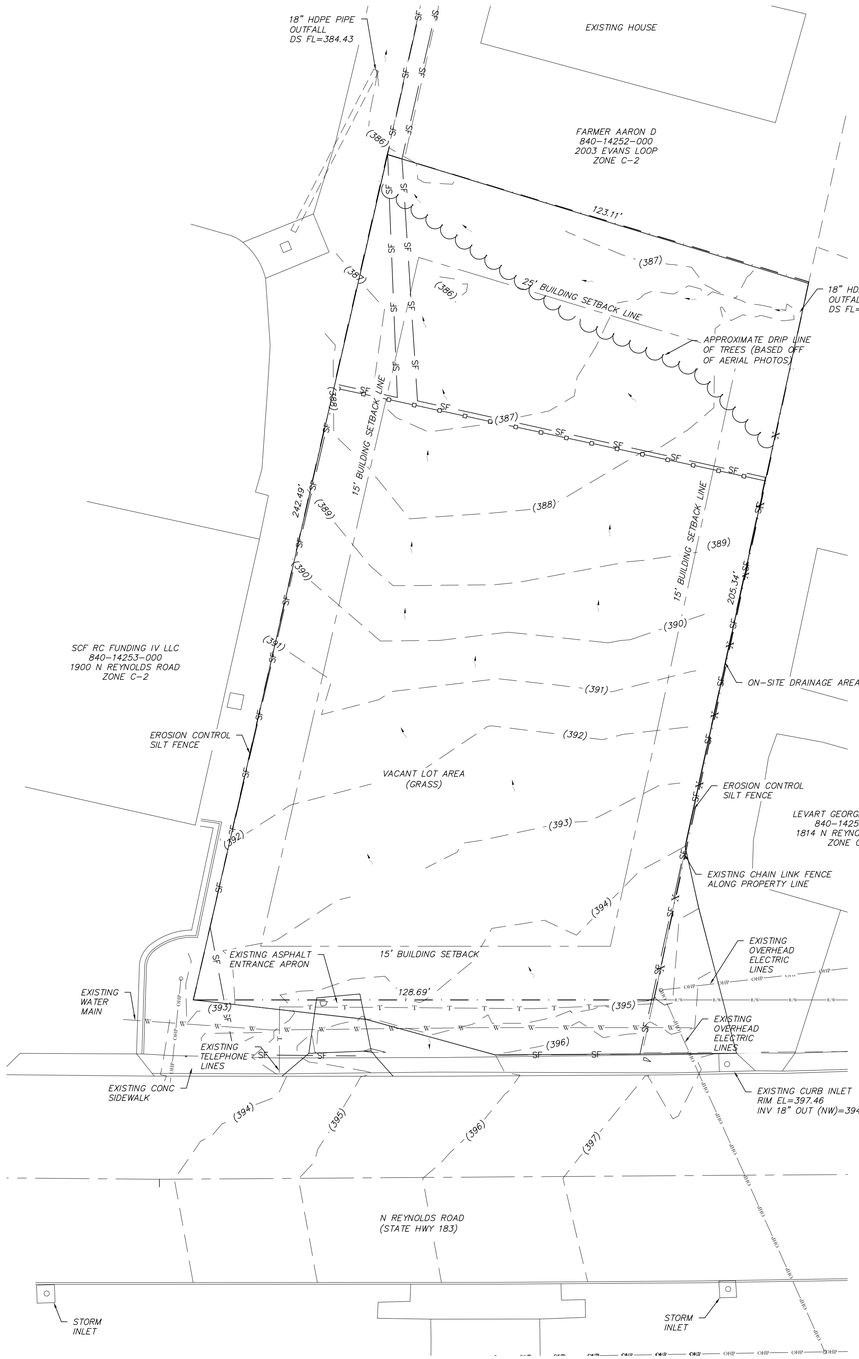
NO.	DATE	REVISION
1	10/12/22	CITY COMMENTS

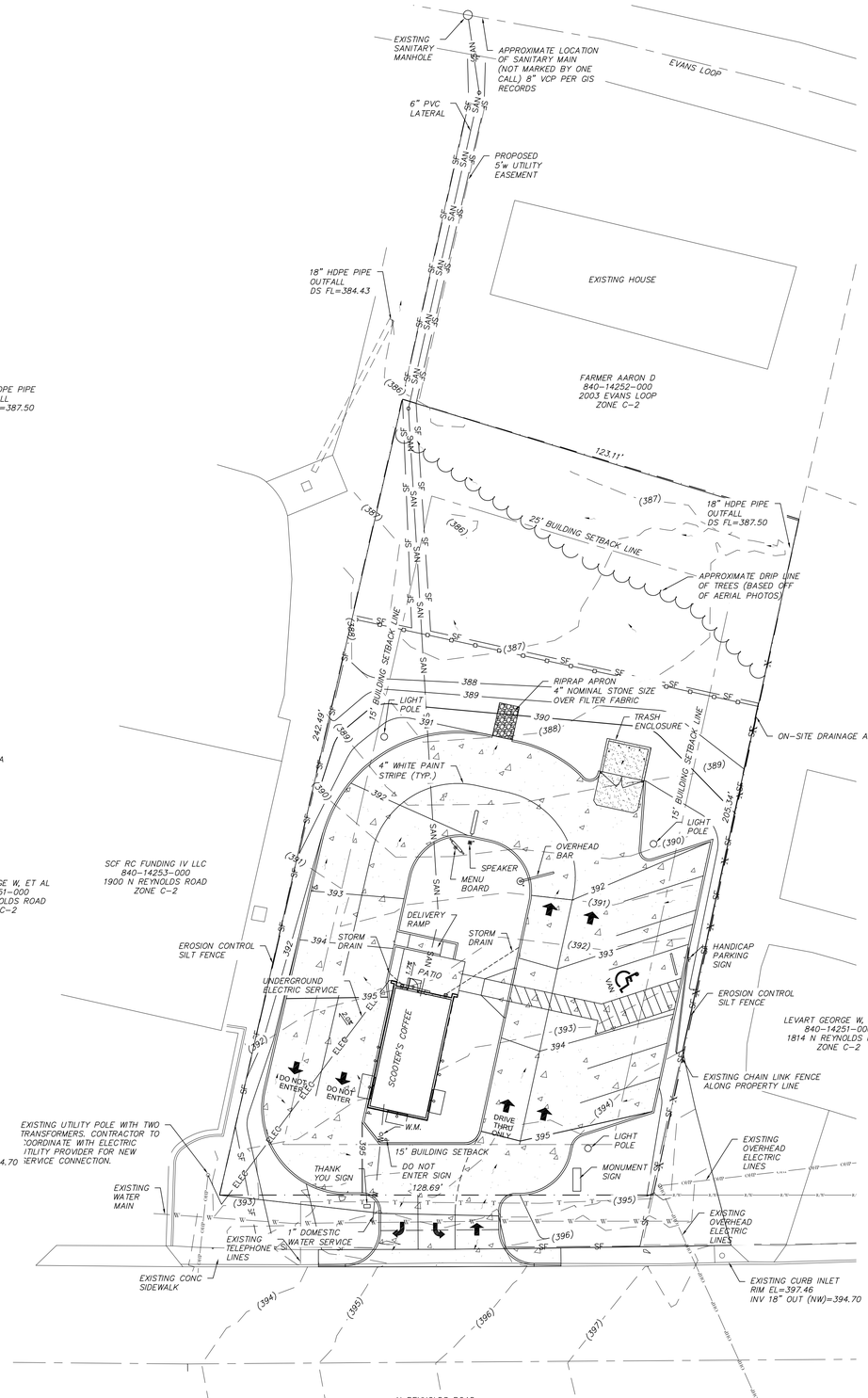
PROJECT NO. 2235801
DRAWN WDW | SCALE SEE PLAN
CHECKED WDW | DATE 8/17/2022

C1.0

SHEET 2 OF 6



EXISTING SITE PLAN



PROPOSED SITE PLAN

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0.64± AC.

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SUMMARY TABLE

JURISDICTION: CITY OF BRYANT, AR

ZONING: C-2 HIGHWAY COMMERCIAL DISTRICT (HCD)

FLOODZONE: NO PORTION OF EXISTING PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL #05119C0441G; DATED 7/6/2015

SOILS: GENERALLY CONSIST OF CLAYEY SANDS AND EXPANSIVE CLAY LAYERS.

IMPERVIOUS AREA CALCULATIONS

TOTAL AREA = 27,806 SF = 0.64± AC.

EXISTING IMPERVIOUS AREAS	
PAVEMENTS	14 SF
TOTAL =	14 SF

EXISTING PERVIOUS AREAS	
GRASS	27,792 SF

PROPOSED IMPERVIOUS AREAS	
BUILDING	664 SF
TRASH ENCLOSURE	133 SF
PAVEMENTS	12,850 SF
TOTAL =	13,647 SF

PROPOSED PERVIOUS AREAS	
LAWN/LANDSCAPING	14,159 SF

STORMWATER CALCULATIONS

RATIONAL METHOD (EXISTING)
EXISTING (2YR,15MIN)
Q=CIA=0.95*(0.88 IN/HR)(14 SF)/43,560+(0.35)(0.88 IN/HR)(27,792 SF)/43,560=0.20 CFS

EXISTING (10YR,15MIN)
Q=CIA=0.95*(0.88 IN/HR)(14 SF)/43,560+(0.35)(0.88 IN/HR)(27,792 SF)/43,560=0.30 CFS

EXISTING (10YR,15MIN)
Q=CIA=0.95*(1.70 IN/HR)(14 SF)/43,560+(0.35)(1.70 IN/HR)(27,792 SF)/43,560=0.38 CFS

RATIONAL METHOD (PROPOSED)
PROPOSED (2YR/15MIN)
Q=CIA=0.95*(0.88 IN/HR)(13,647 SF)/43,560+(0.35)(0.88 IN/HR)(14,159 SF)/43,560=0.36 CFS

PROPOSED (10YR/15MIN)
Q=CIA=0.95*(1.33 IN/HR)(13,647 SF)/43,560+(0.35)(1.33 IN/HR)(14,159 SF)/43,560=0.55 CFS

PROPOSED (25YR/15MIN)
Q=CIA=0.95*(1.57 IN/HR)(13,647 SF)/43,560+(0.35)(1.57 IN/HR)(14,159 SF)/43,560=0.65 CFS

PROPOSED (50YR/15MIN)
Q=CIA=0.95*(1.60 IN/HR)(13,647 SF)/43,560+(0.35)(1.60 IN/HR)(14,159 SF)/43,560=0.66 CFS

PROPOSED (100YR/15MIN)
Q=CIA=0.95*(1.70 IN/HR)(13,647 SF)/43,560+(0.35)(1.70 IN/HR)(14,159 SF)/43,560=0.70 CFS

DIFFERENTIAL RATES
2YR,15MIN=+0.16 CFS
10YR,15MIN=+0.25 CFS
100YR,15MIN=+0.32 CFS

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NO.	DATE	REVISION

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C2.0

SHEET 3 OF 6

(a) **Silt Fence.** This sediment barrier utilizes standard strength or extra strength synthetic fabric with wire backing. It is designed for situations in which only sheet or overland flows are expected. Non-wire backed silt fence is NOT ALLOWABLE with this ordinance.

(1) All silt fence shall be placed as close to the contour as possible. The bottom of the fabric should be buried in a 6-inch wide by 6-inch depth trench and it shall be backfilled and compacted to prevent underflow. The height of the silt fence shall be a minimum of 15 inches and shall not exceed 18 inches;

(2) Silt fence shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, fabric should be spliced together only at a support post, with a minimum 6-inch overlap and securely sealed;

(3) Post shall be spaced a maximum of 3-feet apart at the barrier location and driven securely into the ground a minimum of 6-inches;

(4) Trenches shall be excavated approximately 6-inches wide and 6-inches deep along the line of posts and unsloped from the barrier;

(5) Silt fence shall be properly installed and facing the correct direction or silt fence shall be removed and reinstalled;

(6) Silt fence shall be inspected immediately after each rainfall and daily during prolonged rainfall;

(7) If silt fence is not functional, it must be repaired or replaced within 48 hours. Immediate maintenance may be required by the Administrative Authority if the conditions of the site are deemed a public hazard or has the potential to cause environmental damage or pollution;

(8) When sediment reaches ½ the height of the silt fence as a perimeter or runoff control device, sediment must be removed within 48 hours;

(9) If a perimeter control device is not functional, it must be repaired or replaced within 48 hours;

(10) Silt fence(s) shall be removed once they have served their useful purposes, but not before disturbed area(s) has been permanently stabilized;

(11) No person shall willfully damage silt fencing at any time. If silt fence obstructs access to any point on a site it is to be removed and properly reinstalled. Any person found in violation of willfully running over or damaging silt fence shall be issued a citation for this act;

(c) **Construction entrance.** A rock construction entrance is a bed of rocks that helps to remove sediment from vehicle tires. Rock construction entrances should be placed at all site ingress/egress points.

(1) Entrance protection shall be no less than the width of all points of ingress/egress with a 20-foot minimum width and a minimum length of 50-feet;

(2) Rock used on entrance protection shall be a minimum of 2-inch with NO FINES at a minimum depth of 6-inches;

(3) The Administrative Authority may at any time require geotextile fabric to be placed under entrance protection to assist with longevity of the entrance protection and to assist with alleviation of offsite tracking;

(4) Residential entrance protection should be the width of all ingress and egress points. Entrance length shall be adequate for any vehicle or equipment to get one full tire rotation on the ingress/egress pad;

(5) If conditions on the site are such that the majority of the mud is not removed by the vehicle/equipment traveling over the entrance pad, then the tires of the vehicle/equipment must be washed before entering any roadway. Wash water must be directed away from the entrance to a settling area to remove sediment;

(6) The Administrative Authority shall have the ability to enforce street sweeping as a best management practice measure if the conditions of the site are deemed to be excessive, a public hazard, an environmental threat or the site has failed to comply with construction entrance guidelines;

(7) The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-ways or roadways. This may require periodic top dressing with additional aggregate as conditions demand;

(8) All sediment spilled, dropped, washed, or tracked onto public-right-of-way or roadways must be removed immediately;

(d) **Storm drain inlet protection.** The purpose of storm drain inlet protection is to prevent sediment from entering storm drainage systems prior to permanent stabilization of disturbed areas.

(1) Storm drain inlet protection shall be used at sites:

(a) Where ponding will not encroach into traffic;

(b) Where sediment laden surface runoff may enter an inlet;

(c) Where disturbed drainage areas have not yet been permanently stabilized;

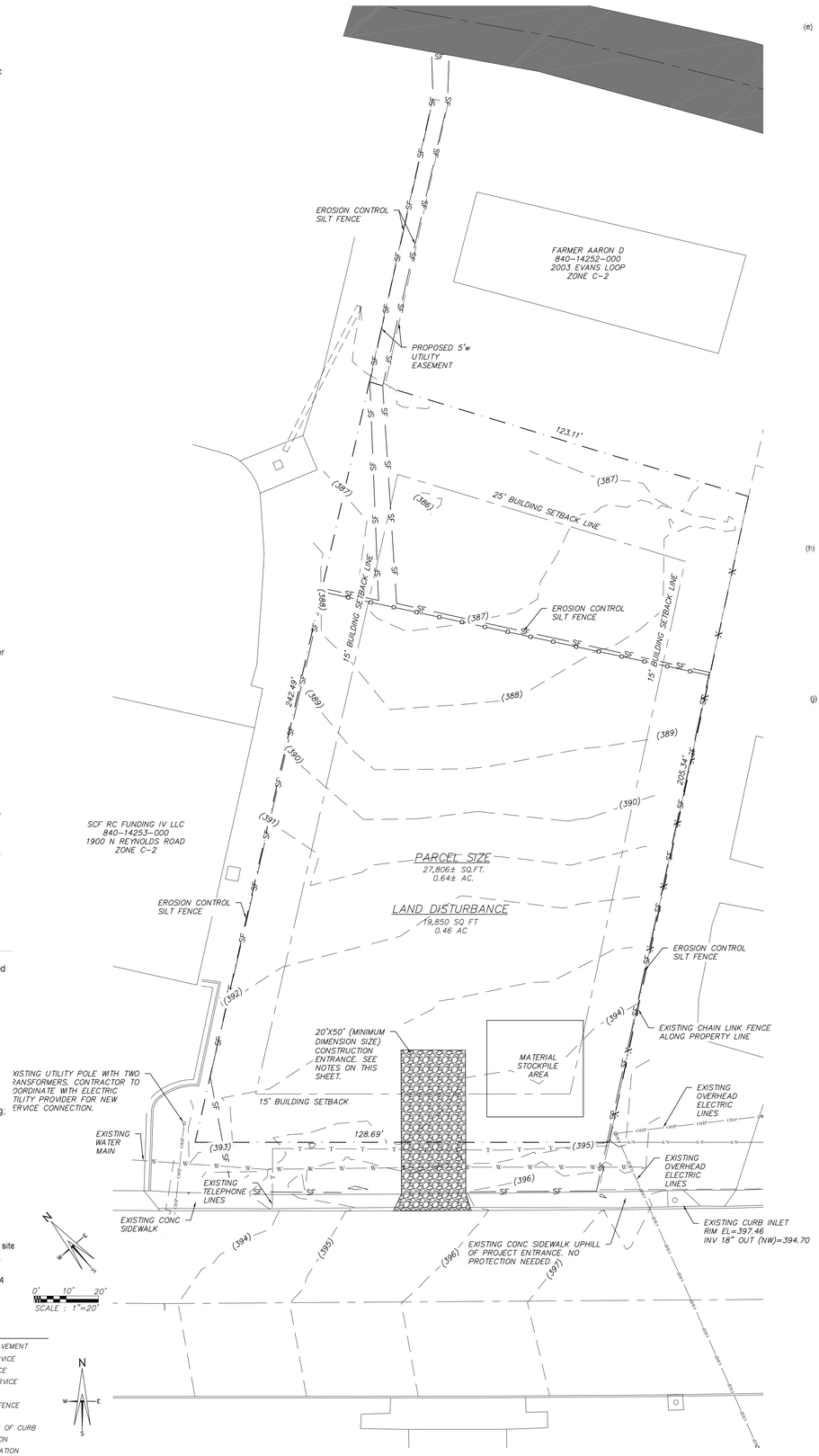
(d) Where soil disturbance or continual soil disturbance activities are occurring;

(e) Appropriate during wet and snow-melt seasons;

(2) There are several inlet filters, traps and inlet protection designs which have different applications dependent upon site conditions and the type of inlet. These types and designs can be found in the City of Bryant Stormwater Management Manual, this manual can be found on the City of Bryant website http://www.cityofbryant.com/895/Stormwater.

(3) If inlet protection is not functional, it must be replaced within 48 hours. Immediate maintenance may be required by the Administrative Authority if the conditions of the site are a public hazard or has the potential to cause environmental damage or pollution.

(4) If inlet protection is not in place as listed in the above section (d)(1) site shall have 24 hours to have storm drain inlet protection in place.



UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

LEGEND

	PROPOSED CONCRETE PAVEMENT
ELEC	PROPOSED ELECTRIC SERVICE
W	PROPOSED WATER SERVICE
SAN	PROPOSED SANITARY SERVICE
ST	PROPOSED STORM DRAIN
SF	EROSION CONTROL SILT FENCE
T/C	TOP OF CURB
G	GRADE/BOTTOM OF FACE OF CURB
(XXX)	EXISTING GRADE ELEVATION
XXX	PROPOSED GRADE ELEVATION

(e) **Concrete waste management.** Proper concrete waste management prevents the discharge of pollutants to stormwater, drainage ditches, storm drain inlets, storm drain systems, creeks, streams, water bodies and roadways. Concrete waste washout shall be performed on-site in a designated area using a proper concrete waste management pit and/or other approved concrete waste management devices. A concrete waste management pit or other approved concrete waste management device shall be in place before any concrete is poured on-site.

(1) All small, large, special and commercial construction sites are required to have a labeled concrete waste management device on-site;

(2) All residential lots are required to have a proper concrete waste management device. No concrete washout shall leave the lot at any time;

(3) Concrete waste management devices may at no time be placed within 50' of a basin, water body, street, roadway, storm drain inlet, drainage ditch, surface inlet, stormwater infrastructure, drainage easement or in a floodplain;

(4) All concrete waste management devices shall have proper entrance protection leading to them at all times. Concrete waste management entrance protection shall be a minimum of 2-inch rock with NO FINES at a minimum depth of 6-inches. Entrance protection shall be sized at an adequate length and width;

(5) Concrete waste management devices shall be lined with plastic so that no concrete washout runoff occurs. Concrete waste management devices shall also be labeled on the site map;

(6) When concrete reaches ½ the height of the concrete waste management device, the device shall be cleaned out and relined with plastic;

(7) Alternative types of concrete waste management devices may be approved by the Administrative Authority;

(8) No person shall place, washout, discharge or empty concrete in/onto a roadway, right-of-way, drainage easement, drainage ditch, storm drain inlet, storm system, basin, pond or water body. No person shall discharge onto another person's property or use another persons concrete waste management device unless written consent was given by the property owner. Any person found in violation shall receive an illicit discharge citation and be held responsible for the clean-up process and damages caused. If dirt is disturb during the clean-up process the person in violation will be responsible for stabilization of the area disturbed;

(9) Any concrete washout or concrete piles placed outside of a concrete waste management pit or approved concrete waste management device shall be removed immediately;

(10) Concrete or mortar residue discharges into a street, roadway, storm drain inlet or curb and gutter by way of incidentals, machine malfunction or washout shall be removed immediately. No person shall at any time use a watering source to wash down the concrete or mortar residue into a storm drain inlet. Failure to removed residue will be cause for an illicit discharge citation and restoration cost;

(h) **Stockpile Management.** Procedures and practices that are designed to reduce or eliminate stormwater pollution from stockpiles of soil, sand, aggregates, etc.

(1) Stockpiles shall never exceed the maximum height of 16-feet;

(2) Storage of stockpiles shall not exceed beyond 12 months. Once a project is complete all piles must be removed. Areas where stockpile sat shall be stabilized;

(3) Stockpiles shall be covered, stabilized or have some form of best management practices (BMPs) surrounding them to prevent runoff during rain events;

(4) Stockpiles shall never be placed in a street, easement or within 15-feet of a street, drainage ditch, waterbody, basin or stormwater infrastructure, etc;

(j) **Stabilization.** Process of implementing specific BMPs for the purpose of preventing soil from eroding. BMPs utilized for this purpose involve establishing a cover of some type over exposed soils such as mulch, sod, riprap, seed and straw, erosion control blankets, or other material that prevents soil from eroding.

(1) A description of initial, interim, and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed areas are stabilized. Stabilization practices may include: mulching, temporary seeding, permanent seeding, geotextiles, sod stabilization, natural buffer strips, protection of trees, and preservation of mature vegetation and other appropriate measures.

(2) Requires that a natural buffer zone be established between the top of the stream bank and the disturbed area. The SWPPP shall contain a description of how the site will maintain natural buffer zones. For construction projects where clearing and grading activities will occur, SWPPP shall provice at least (25) feet of natural buffer zone from any named or unnamed streams, creeks, rivers, lakes or other water bodies. The plan shall also provide at least fifty (50) feet of natural buffer zone from established TMDL water bodies, streams listed on the 303(d) list, an Extraordinary Resource Water (ERW), Ecologically Sensitive Waterbody (ESW), Natural and Scenic Waterway (NSW). If the site will be disturbed within the recommended buffer zone, then the buffer zone area shall be stabilized as soon as possible.

(3) **Deadlines for stabilization after construction activity temporarily ceases.** Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily ceased, but in no case more than fourteen (14) days after the construction activity in that portion of the site has temporarily ceased.

(4) **Deadline for stabilization after construction activity permanently ceases.** Stabilization measures shall be initiated immediately in portions of the site where construction activities have permanently ceased.

(5) **Rill erosion** is the removal of soil by concentrated water running through little streamlets, or headcuts. Detachment in a rill occurs if the sediment in the flow is below the amount the load can transport and if the flow exceeds the soil's resistance to detachment.

(a) Erosion rills must be reworked, filled and compacted before final stabilization occurs on any disturbed area of land;

(6) The Administrative Authority on a case by case basis may require any new or existing drainage ditches that are being constructed or have been disturbed during construction activities to be stabilized with solid sod to ensure the integrity of the drainage ditches. This will prevent future erosion and protect City of Bryant Stormwater Infrastructure.

(7) A site can be considered finally stabilized when all soil disturbing activities at the site have been completed, and a uniform perennial vegetative cover with a density of 80% for unpaved areas and areas not covered by permanent structures has been established, or equivalent permanent stabilization measures have been employed.

PROJECT INFORMATION

OWNER/FRANCHISEE:
MEAN BEAN COFFEE LLC
118 VERONA CIRCLE
SHERWOOD, AR 72120

PREPARED BY:
SHERRILL ASSOCIATES, INC.
316 N. MAIN STREET
EDWARDSVILLE, IL 62025
(618)656-9251

ARCHITECT:
GERDES, HENRICHSON & ASSOCIATES
14901 QUORUM DRIVE, SUITE 300
DALLAS, TX 75254

ENGINEER:
SHERRILL ASSOCIATES, INC.
WILSON D. WAGGONER, P.E.

SITE INFORMATION:
PARCEL: 840-14249-000
1816 N REYNOLDS ROAD
BRYANT, ARKANSAS 72022

SURVEYOR:
HOPE CONSULTING
117 S MARKET STREET
BENTON, ARKANSAS 72015
(501)315-2626

LOT AREA

27,806± SQ.FT.
0.64± AC.

UTILITIES

WATER: CITY OF BRYANT
SEWER: CITY OF BRYANT
ELECTRIC: ENTERGY

3. **City responsibilities.**

(a) Administration of these regulations shall be by the Administrative Authority who shall review to determine approval, disapproval or modification of stormwater management plans as provided herein.

(b) All areas and/or structures dedicated to the city must be dedicated by plat or separate instrument and accepted by a formal letter from the Mayor, pursuant to resolution duly-adopted by the City Council.

(c) Operation and maintenance of publicly owned facilities. The Administrative Authority shall be responsible, after written approval and acceptance, for the operation and maintenance of all drainage structures and improved courses which are part of the drainage structures and improved courses which are part of the stormwater runoff management system under public ownership and which are not constructed and maintained by or under the jurisdiction of any state or federal agency.

4. **Private responsibilities.**

(a) Each developer or property owner of land within the corporate limits of the City of Bryant has a responsibility to provide that all approved stormwater runoff management facilities ensure adequate drainage and control of stormwater in the developer's or owner's property both during and after construction of such facilities.

(b) Each developer, property owner, property owners association and improvement district has a responsibility and duty before and after construction to properly operate and maintain any on-site stormwater runoff control facility which has not been accepted for maintenance by the City of Bryant. Such responsibility is to be transmitted to subsequent owners through appropriate covenants.

(c) All private systems not dedicated to the city shall have adequate easement to permit the Administrative Authority to inspect and, if necessary, to take any corrective enforcement action permitted by law should the responsible entity fails to properly maintain the system.

(d) All private stormwater facilities shall be maintained by the owner in proper condition consistent with the performance standards for which they were originally designed.

(e) All private systems must be designed to discharge at pre-developed rates unless approved by the Administrative Authority. New stormwater drainage system(s) cannot tie into existing systems of lesser capacity. In other words, a larger pipe cannot discharge into smaller pipe of lesser capacity.

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS ★ LICENSED PROFESSIONAL ENGINEER ★ No. 21001 ★ WILSON D. WAGGONER

Title: SEDIMENT AND E.C. PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

NO.	DATE	REVISION

PROJECT NO. 2235801

DRAWN	SCALE
WDW	SEE PLAN
CHECKED WDW	DATE 8/17/2022

C3.0

SHEET 4 OF 6

LANDSCAPE CODE

SECTION IV: MINIMUM LANDSCAPING CRITERIA

	Residential Subdivision	C-1	C-2	PUD
Trees	N/A	1/each 1/3 acre or Fraction	1/each ½ acre or Fraction	X
Evergreens	N/A	1/2,000 SF	1/2,000 SF	X
Bedding Plants Or Ground Cover in Containment	Primary Entrance Must be Landscaped	100 Square Foot Minimum	100 Square Foot Minimum	X
Lawn (Grass)	N/A	Options	Options	X
Open Space Natural or Landscaping	100 SF/lot	N/A	N/A	X

(X=Landscape design must be approved)

No Planting within 5 foot of a fire hydrant.
Spacing will be 40' between trees.
Tree must be a minimum 3" in diameter @ the base and 12'+ tall.
Existing trees meeting the minimum size can be counted to meet the criteria.
No trees can be planted within thirty-foot (30') of a property corner or driveway.
Shrubs along street right-of-way lines cannot exceed thirty inches (30") in height.
Separations noted in the zoning regulations must be bermed or screened with landscaping and ground cover or grass.

SECTION V. PLANT MATERIAL SELECTION

A. The following list of trees are those which have been found to be best suited to the central Arkansas area. There are many more trees that are strong growth trees but the ones in the following lists require the least amount of maintenance. Additional trees may be selected for use in required landscape areas when proven to be hearty in this area.

1. **Primary List:**

Common Name	Scientific Name
Bald Cypress	Taxodium distichum
Chinese Elm	Ulmus parvifolia
Flowering Bradford Pear	Pyres Calleryana 'Bradford'
Shumard Oak	Quercus shumardi
Ginkgo (male)	Ginkgo biloba
Honey Locust	Gleditsia triacanthos
Loblolly Pine*	Pinus Taeda
Pin Oak	Quercus palustris
Sawtooth Oak	Quercus acutissima
Sugar Hackberry	Celtis laevigata
Willow Oak	Quercus phellos

*Evergreen trees

2. **Secondary List:**

Common Name	Scientific Name
American Holly*	Ilex opaca
Crab Apple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Dogwood	Cornus florida
Hawthorn	Crataegus opaca
Redbud	Cercis Canadensis
River Birch	Betula nigra
Southern Magnolia*	Magnolia grandiflora
Swamp Red Maple	Acer reburm
Water Oak	Quercus nigra
Weeping Willow	Salix babylonica

*Evergreen Trees

2. The Grasses listed in subsection (1) above are the more commonly used grasses adjacent to vehicular use areas.

E. Ground Covers

1. The following primary list of ground covers are recommended for use to comply with this ordinance.

Common Name	Scientific Name
Dwarf Nandina	N. domestica "Harbour Dwarf"
Junipers	Juniperus species
Liriope	Liriope Muscari
Memorial Rose	Rosa Wichcraiana
Mondo Grass	Ophiopogon japonicus
Periwinkle	Vinca minor
Spreading Euonymus	E. fortunei "Radicans"

2. Secondary List: (This list can be used but must be confined to a bed.)

Common Name	Scientific Name
Carolina Jessamine	Gelsemium sempervirens
Dwarf Bamboo	Arundinaria pygmaea
English Ivy	Hedera Helix
Honeysuckle	Lonicera sempervirens

SECTION VI. MAINTENANCE

1. The developer, his successor and the property owner shall be responsible for regular weeding, irrigating, fertilizing, pruning and other maintenance of all planting on private property of a development. Plant materials which are installed for compliance with this ordinance, both on private property and the public right-of-way, which exhibit evidence of insect pests, disease and/or damage, shall be appropriately treated and dead plant materials shall be replaced.

2. The owner of land abutting a constructed public right-of-way shall be responsible for the tree planting strip lying between the private property line and the curbline or backslope line and shall be required to regularly weed, mow, prune and maintain plantings in compliance with good horticultural practices.

3. If the owner of land thus situated as in (2) above, neglects or refuses to maintain the areas as prescribed, after having been given ten (10) days notice in writing to maintain by the City, the owner shall be guilty of a misdemeanor.

SECTION VII. PLANNING COMMISSION APPROVAL

The City of Bryant Planning Commission will review and act on all landscaping

B. Trees/shrubs on public right-of-way

All tree/shrub species listed in A, 1-2 and C, 1-2 may be used in the public right-of-way.

C. Shrub Species

The following list of shrubs are those which have been found to be best suited to this area and yet requiring the least amount of maintenance. This list along with the secondary list are those shrubs which may be planted in the required landscape area. Additional selective shrubs may be substituted when proven to be hearty in this region.

1. Primary List:

Common Name	Scientific Name
Evergreen Hollies	Ilex species
Nandina	Nandina domestica

2. Secondary List:

Common Name	Scientific Name
Abelia	Abelia grandiflora
Boxwood	Buxus sempervirens
Chinese Photinia	Photinia serrulata

Note: Secondary listed shrubs require increased maintenance

D. Grasses

1. The following grasses may be used to comply with this ordinance:

Mayer Z-52	Zoysia	Fescue
Bermuda Grass	Bermuda Grass hybrids	
Centipede	St. Augustine	

GENERAL NOTES

THE OWNER MAY CONTRACT WITH A LOCAL LANDSCAPER TO SUBSTITUTE SPECIES AND LOCATIONS OF THE PLANTINGS BUT THE CODE SHALL BE FOLLOWED FOR THE BUFFERS AND INTERNAL PLANTINGS PER CITY CODE.

LOT AREA

27,806± SQ.FT.
0.64± AC.

PLANTING SUMMARY

EVERGREEN TREES

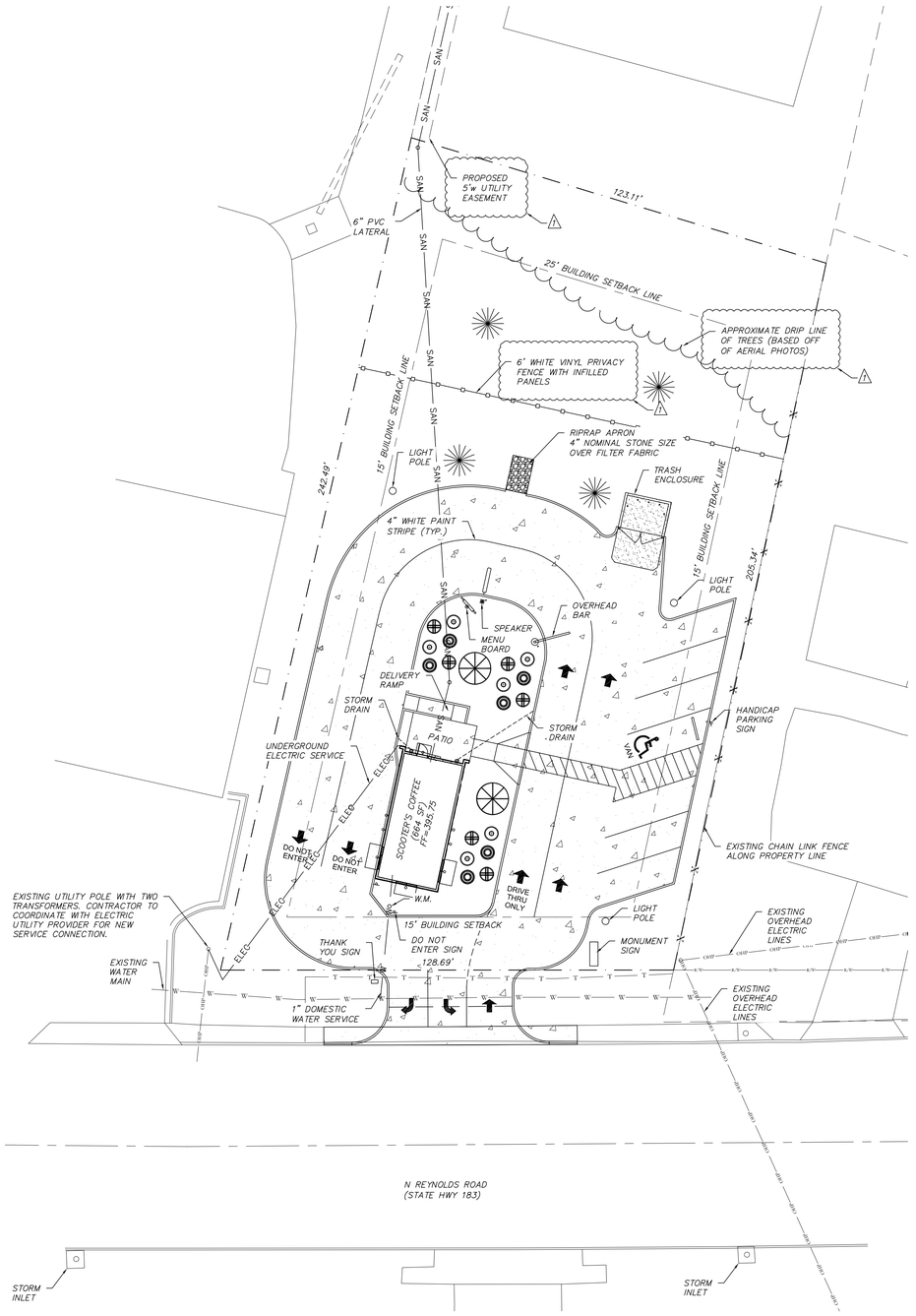
NAME	QTY.	SIZE	COMMENTS
LLEX OPACA AMERICAN HOLLY	14	24" BOX	8' HT. 2" CAL. MIN.

CANOPY TREES

NAME	QTY.	SIZE	COMMENTS
BETULA NIGRA RIVER BIRCH	2	24" BOX	8' HT. 2" CAL. MIN.

SHRUBS

NAME	QTY.	SIZE	COMMENTS
BUSUS SEMPERVIRENS BOXWOOD	6	5 GAL	24"–30" HT.
NANDINA DOMESTICA NANDINA	6	5 GAL	24"–30" HT.
LLEX SPECIES EVERGREEN HOLLY	6	5 GAL	24"–30" HT.



LEGEND

- PROPOSED CONCRETE PAVEMENT
- ELEC — PROPOSED ELECTRIC SERVICE
- W — PROPOSED WATER SERVICE
- SAN — PROPOSED SANITARY SERVICE
- ST — PROPOSED STORM DRAIN
- SF — EROSION CONTROL SILT FENCE

0' 10' 20'
SCALE : 1"=20'

UTILITIES NOTE

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10/12/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
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STATE OF ARKANSAS ★ LICENSED PROFESSIONAL ENGINEER ★ No. 21001 ★ WILSON D. WAGGONER

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NO.	DATE	REVISION
1	10/12/22	CITY COMMENTS

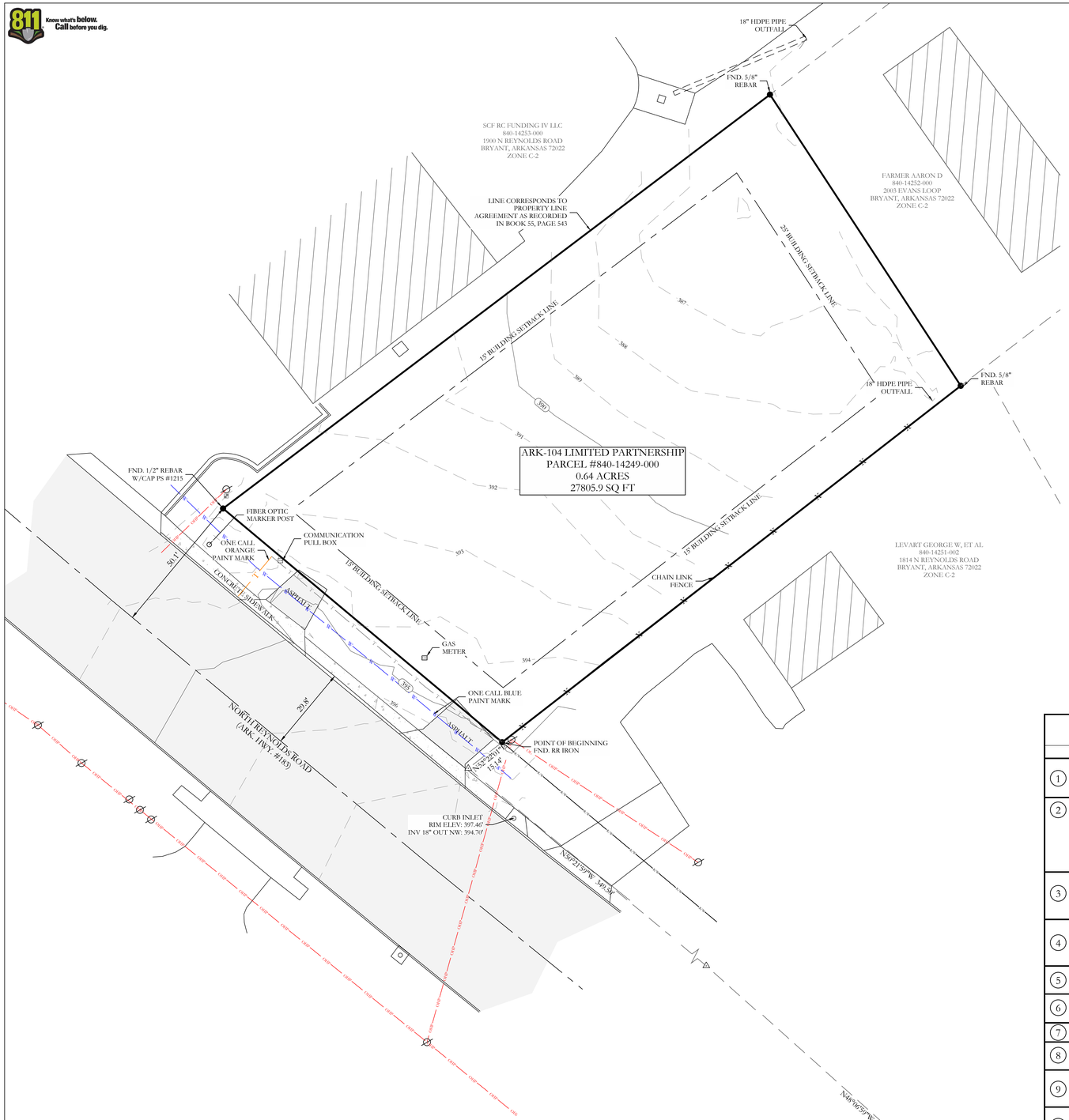
PROJECT NO. 2235801

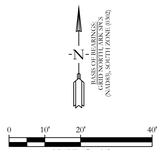
DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C4.0

SHEET 5 OF 6

811 Know what's below. Call before you dig.





PROPERTY DESCRIPTION

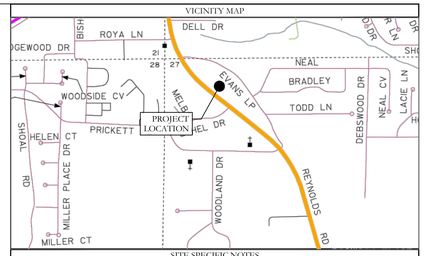
LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-006225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 205 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

TITLE COMMITMENT PROVIDED BY: CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NO. 22-022518-475, EFFECTIVE DATE: JUNE 12, 2022, 8:00AM

	SCHEDULE B PART II - EXCEPTIONS	EFFECT ON SURVEY
1	ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET.	NOT SURVEY RELATED
2	STANDARD EXCEPTIONS: (A)RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. (B)EASEMENTS OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. (C)ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES AND ANY MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY AND INSPECTION OF THE PREMISES. (D)ANY LIEN OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS.	AS SHOWN
3	LOSS ARISING FROM ANY OIL, GAS OR MINERAL INTERESTS, CONVEYED, RETAINED, ASSIGNED OR ANY ACTIVITY ON OR DAMAGE TO THE INSURED LAND CAUSED BY THE EXERCISE OF SUB-SURFACE RIGHTS OR OWNERSHIP, INCLUDING BUT NOT LIMITED TO THE RIGHT OF INGRESS AND EGRESS FOR SAID SUB-SURFACE PURPOSES.	NOT SURVEY RELATED
4	LOSS ARISING FROM ANY JUDGMENT LIENS OR OTHER LIENS OF RECORD IN ANY UNITED STATES DISTRICT COURT OR BANKRUPTICY COURT IN THE STATE OF ARKANSAS AS OF THE EFFECTIVE DATE HEREOF THAT ARE NOT REFLECTED IN THE REAL PROPERTY RECORDS OF THE COUNTY IN WHICH THE PROPERTY IS LOCATED.	NOT SURVEY RELATED
5	TAXES AND ASSESSMENTS FOR THE YEAR(S) 2022 AND THEREAFTER, WHICH ARE NOT YET DUE AND PAYABLE, PLUS ANY PENALTIES AND INTEREST WHICH MAY ACCRUE.	NOT SURVEY RELATED
6	FUTURE ASSESSMENTS OF SALEM FIRE PROTECTION DISTRICT NO. 1 (AKA SALEM FIRE PROTECTIONDISTRICT NO. 59).	NOT SURVEY RELATED
7	FUTURE ASSESSMENTS OF THE SALINE WATERSHED REGIONAL WATER DISTRIBUTION DISTRICT.	NOT SURVEY RELATED
8	ANY INACCURACY IN THE AREA, SQUARE FOOTAGE, OR ACREAGE OF LAND DESCRIBED IN SCHEDULE A. THE COMPANY DOES NOT INSURE THE AREA, SQUARE FOOTAGE, OR ACREAGE OF THE LAND.	ACREAGE AS SHOWN
9	EASEMENT IN FAVOR OF SOUTHWESTERN BELL TELEPHONE AS SET FORTH IN EASEMENT DATED FEBRUARY 24, 1979, AND RECORDED ON FEBRUARY 26, 1979, IN BOOK 56 AT PAGE 353 IN THE RECORDS OF SALINE COUNTY, ARKANSAS.	EASEMENT DESCRIPTION IS AMBIGUOUS AND CANNOT BE PLOTTED ACCURATELY
10	PROPERTY LINE BY AND BETWEEN RAYMOND E EVANS AND SHIRLEY M EVANS AND JAMES ELLIOT AND LOIS A ELLIOTT, DATED DECEMBER 8, 1978, RECORDED JANUARY 3, 1979, IN BOOK 55, PAGE 543 OF THE CONVEYANCE RECORDS OF SALINE COUNTY, ARKANSAS	PERTAINS TO THE NORTH WESTERLY PROPERTY LINE AS SHOWN

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M)- Measured
(P) - Plat/Deed
- Fence

VICINITY MAP



SITE SPECIFIC NOTES

OWNER(S) OF RECORD:
ARK-104 LIMITED PARTNERSHIP

STREET ADDRESS:
1816 NORTH REYNOLDS ROAD, BRYANT, ARKANSAS 72022

COUNTY PARCEL ID:
840-14249-000

ZONING DISTRICT:
C-2 GENERAL COMMERCIAL DISTRICT

BUILDING SETBACKS PER CITY REGULATIONS*:
FRONT: 15 FEET
REAR: 25 FEET
SIDE: 15 FEET

MAX LOT COVERAGE: 40%

MAX HEIGHT: 4 STORIES

LOCAL UTILITY PROVIDERS:
WATER SERVICE: CITY OF BRYANT
SEWER SERVICE: CITY OF BRYANT
ELECTRIC SERVICE: ENTERGY
GAS SERVICE: CENTERPOINT ENERGY

GENERAL NOTES

GENERAL SURVEYOR'S NOTES:
ALL LISTED MEASUREMENTS ARE AS MEASURED IN THE FIELD. FOR RECORD MEASUREMENTS, SEE DEED(S) OR PLAT(S) OF RECORD.

ADJACENT OWNERSHIP IS LISTED AS FILED IN THE SALINE COUNTY TAX ASSESSOR'S OFFICE AND IS SHOWN FOR REFERENCE ONLY.

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- Clean Out
- Water Meter
- Power Pole
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- Light Pole
- Telephone Pedestal
- Overhead Power
- Fence
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- Grate

FLOOD STATEMENT

NO PORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO FLOOD INSURANCE RATE MAP, PANEL # 05119C0441G , DATED: 07/06/2015 .

ALTA/NSPS CERTIFICATION

TO CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP; AN ARKANSAS LIMITED PARTNERSHIP

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6 (A), 6(B), 7(A), 8, 11(A), 11(B), 13, 14, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 20, 2022.

WM. CORBITT R. SHOFFNER
ARKANSAS PS #1664
CORBITT@HOPECONSULTING.COM

DATE

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

REGISTERED
STATE OF ARKANSAS
No. 1664
SIGNATURE
WILLIAM CORBITT R. SHOFFNER
PROFESSIONAL LAND SURVEYOR

ORIGINAL SIGNATURE ON FILE

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

ALTA/NSPS LAND TITLE SURVEY

PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS

DATE: 07/25/2022		C.A.D. BY: JPP					DRAWING NUMBER:	
REVISED:		CHECKED BY:					22-0882	
SHEET:		SCALE: 1" = 20'						
500	01S	14W	0	27	400	62	1664	

© Land Design Solutions, LLC 2022 | 117 S. Market St. | Benton, AR 72015 | 501.315.2626 | Hope Consulting, Inc. | 117 S. Market St. | Benton, AR 72015 | 501.315.2626

LANDSCAPE CODE

SECTION IV: MINIMUM LANDSCAPING CRITERIA

	Residential Subdivision	C-1	C-2	PUD
Trees	N/A	1/each 1/3 acre or Fraction	1/each ½ acre or Fraction	X
Evergreens	N/A	1/2,000 SF	1/2,000 SF	X
Bedding Plants Or Ground Cover in Containment	Primary Entrance Must be Landscaped	100 Square Foot Minimum	100 Square Foot Minimum	X
Lawn (Grass)	N/A	Options	Options	X
Open Space Natural or Landscaping	100 SF/lot	N/A	N/A	X

(X=Landscape design must be approved)

No Planting within 5 foot of a fire hydrant.
Spacing will be 40' between trees.
Tree must be a minimum 3" in diameter @ the base and 12'+ tall.
Existing trees meeting the minimum size can be counted to meet the criteria.
No trees can be planted within thirty-foot (30') of a property corner or driveway.
Shrubs along street right-of-way lines cannot exceed thirty inches (30") in height.
Separations noted in the zoning regulations must be bermed or screened with landscaping and ground cover or grass.

SECTION V. PLANT MATERIAL SELECTION

A. The following list of trees are those which have been found to be best suited to the central Arkansas area. There are many more trees that are strong growth trees but the ones in the following lists require the least amount of maintenance. Additional trees may be selected for use in required landscape areas when proven to be hearty in this area.

1. Primary List:

Common Name	Scientific Name
Bald Cypress	Taxodium distichum
Chinese Elm	Ulmus parvifolia
Flowering Bradford Pear	Pyres Calleryana 'Bradford'
Shumard Oak	Quercus shumardi
Ginkgo (male)	Ginkgo biloba
Honey Locust	Gleditsia triacanthos
Loblolly Pine*	Pinus Taeda
Pin Oak	Quercus palustris
Sawtooth Oak	Quercus acutissima
Sugar Hackberry	Celtis laevigata
Willow Oak	Quercus phellos

*Evergreen trees

2. Secondary List:

Common Name	Scientific Name
American Holly*	Ilex opaca
Crab Apple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Dogwood	Comus florida
Hawthorn	Crataegus opaca
Redbud	Cercis Canadensis
River Birch	Betula nigra
Southern Magnolia*	Magnolia grandiflora
Swamp Red Maple	Acer reburm
Water Oak	Quercus nigra
Weeping Willow	Salix babylonica

*Evergreen Trees

2. The Grasses listed in subsection (1) above are the more commonly used grasses adjacent to vehicular use areas.

E. Ground Covers

1. The following primary list of ground covers are recommended for use to comply with this ordinance.

Common Name	Scientific Name
Dwarf Nandina	N. domestica "Harbour Dwarf"
Junipers	Juniperus species
Liriope	Liriope Muscari
Memorial Rose	Rosa Wichcraiana
Mondo Grass	Ophiopogon japonicus
Periwinkle	Vinca minor
Spreading Euonymus	E. fortunei "Radicans"

2. Secondary List: (This list can be used but must be confined to a bed.)

Common Name	Scientific Name
Carolina Jessamine	Gelsemium sempervirens
Dwarf Bamboo	Arundinaria pygmaea
English Ivy	Hedera Helix
Honeysuckle	Lonicera sempervirens

SECTION VI. MAINTENANCE

1. The developer, his successor and the property owner shall be responsible for regular weeding, irrigating, fertilizing, pruning and other maintenance of all planting on private property of a development. Plant materials which are installed for compliance with this ordinance, both on private property and the public right-of-way, which exhibit evidence of insect pests, disease and/or damage, shall be appropriately treated and dead plant materials shall be replaced.

2. The owner of land abutting a constructed public right-of-way shall be responsible for the tree planting strip lying between the private property line and the curbline or backslope line and shall be required to regularly weed, mow, prune and maintain plantings in compliance with good horticultural practices.

3. If the owner of land thus situated as in (2) above, neglects or refuses to maintain the areas as prescribed, after having been given ten (10) days notice in writing to maintain by the City, the owner shall be guilty of a misdemeanor.

SECTION VII. PLANNING COMMISSION APPROVAL

The City of Bryant Planning Commission will review and act on all landscaping

B. Trees/shrubs on public right-of-way

All tree/shrub species listed in A, 1-2 and C, 1-2 may be used in the public right-of-way,

C. Shrub Species

The following list of shrubs are those which have been found to be best suited to this area and yet requiring the least amount of maintenance. This list along with the secondary list are those shrubs which may be planted in the required landscape area. Additional selective shrubs may be substituted when proven to be hearty in this region.

1. Primary List:

Common Name	Scientific Name
Evergreen Hollies	Ilex species
Nandina	Nandina domestica

2. Secondary List:

Common Name	Scientific Name
Abelia	Abelia grandiflora
Boxwood	Busus sempervirons
Chinese Photinia	Photinia serrulata

Note: Secondary listed shrubs require increased maintenance

D. Grasses

1. The following grasses may be used to comply with this ordinance:

Mayer Z-52	Zoysia	Fescue
Bermuda Grass	Bermuda Grass hybrids	
Centipede	St. Augustine	

GENERAL NOTES

THE OWNER MAY CONTRACT WITH A LOCAL LANDSCAPER TO SUBSTITUTE SPECIES AND LOCATIONS OF THE PLANTINGS BUT THE CODE SHALL BE FOLLOWED FOR THE BUFFERS AND INTERNAL PLANTINGS PER CITY CODE.

LOT AREA

27,806± SQ.FT.
0.64± AC.

PLANTING SUMMARY

EVERGREEN TREES

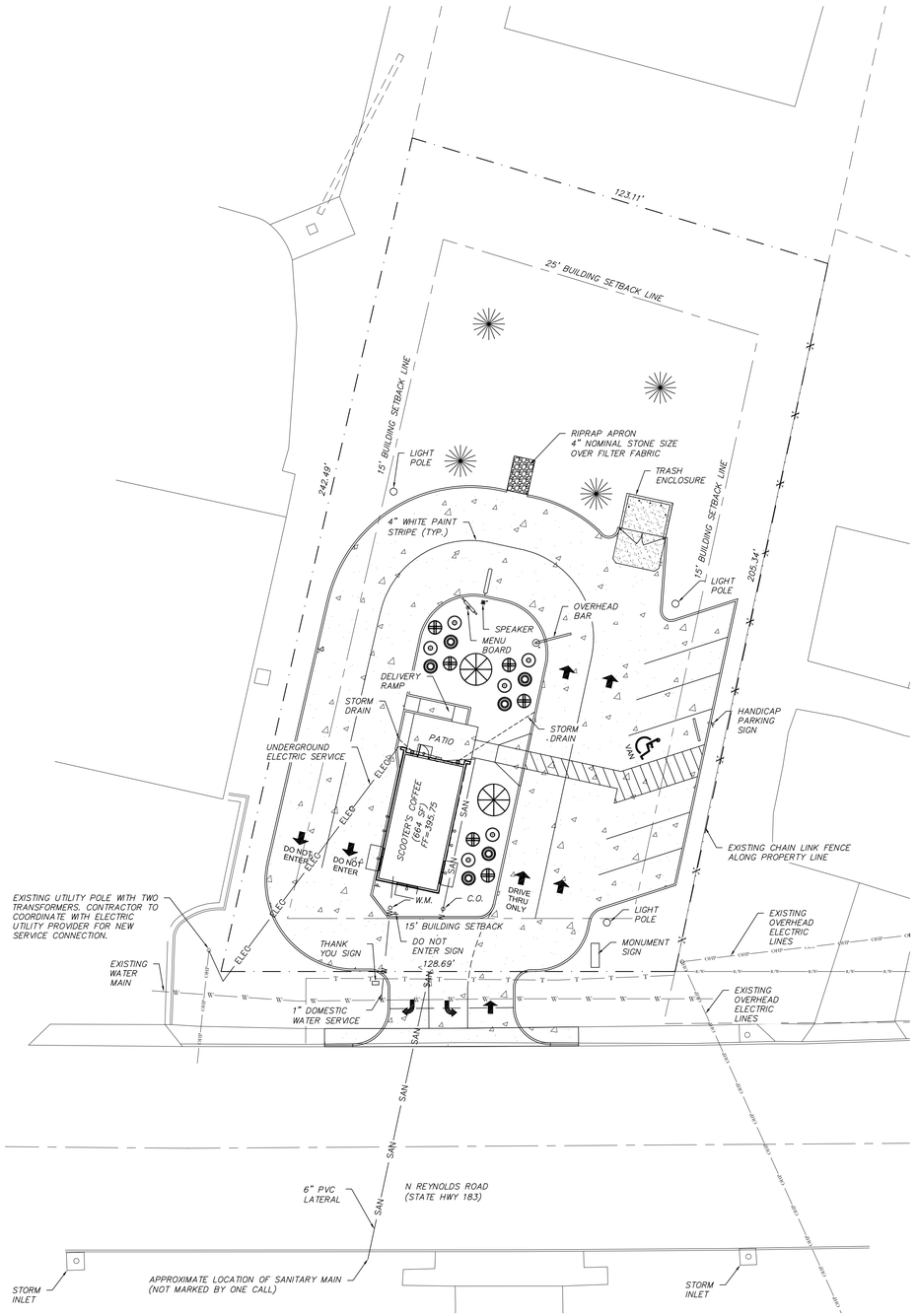
NAME	QTY.	SIZE	COMMENTS
LLEX OPACA AMERICAN HOLLY	14	24" BOX	8' HT. 2" CAL. MIN.

CANOPY TREES

NAME	QTY.	SIZE	COMMENTS
BETULA NIGRA RIVER BIRCH	2	24" BOX	8' HT. 2" CAL. MIN.

SHRUBS

NAME	QTY.	SIZE	COMMENTS
BUSUS SEMPERVIRENS BOXWOOD	6	5 GAL	24"–30" HT.
NANDINA DOMESTICA NANDINA	6	5 GAL	24"–30" HT.
LLEX SPECIES EVERGREEN HOLLY	6	5 GAL	24"–30" HT.



LEGEND

- PROPOSED CONCRETE PAVEMENT
- ELEC — PROPOSED ELECTRIC SERVICE
- W — PROPOSED WATER SERVICE
- SAN — PROPOSED SANITARY SERVICE
- ST — PROPOSED STORM DRAIN
- SF — EROSION CONTROL SILT FENCE

0' 10' 20'
SCALE : 1"=20'

UTILITIES NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN.

811 Know what's **below.** **811** before you dig.

ENGINEER'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF MEAN BEAN COFFEE LLC HAS PREPARED THIS SHEET FROM RECORD SOURCES AND ACTUAL FIELD SURVEY DURING THE MONTH OF JULY 2022.

Wilson D. Waggoner 9/14/22

WILSON D. WAGGONER, P.E. 21001
IN THE STATE OF ARKANSAS
EXPIRES 12-31-2022

STATE OF ARKANSAS
WILSON D. WAGGONER
NUMBER PE-21001
PROFESSIONAL ENGINEER

Title: LANDSCAPE PLAN
1816 N REYNOLDS RD
BRYANT, AR 72022

Client: MEAN BEAN COFFEE LLC
8118 S 193RD STREET
GRENA, NE 68028

EST. 1998 SCOOTER'S COFFEE

SHERRILL ASSOCIATES
Surveyors – Engineers – Planners
ILLINOIS DESIGN FIRM #184-001238
MISSOURI DESIGN FIRM #001332
316 N Main Street
Edwardsville, IL 62025
TEL: (618) 656-9251

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other Documents or instruments relating to or intended to be used for any part or parts of the engineering project or survey.

REVISION	DATE	NO.

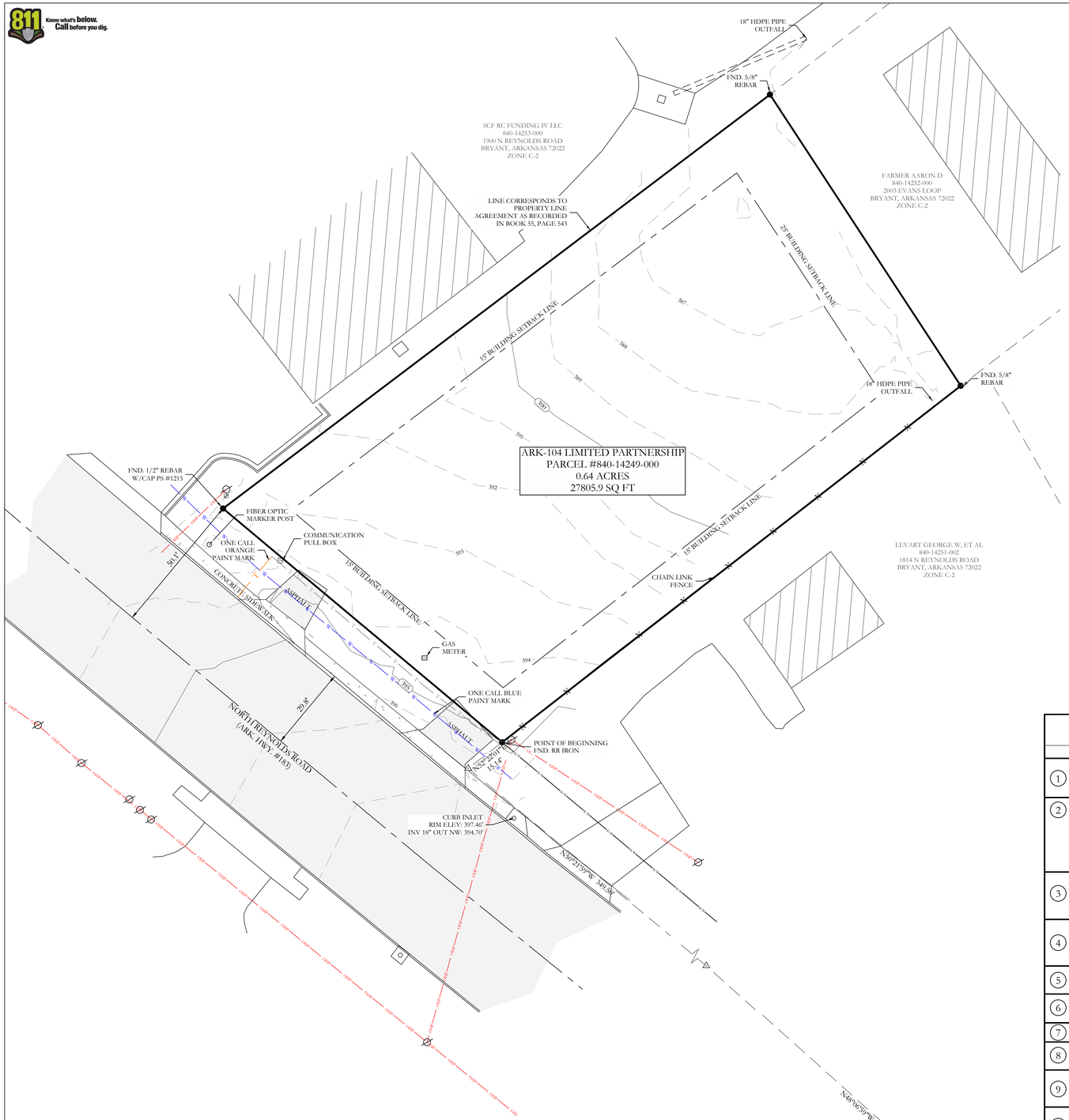
PROJECT NO. 2235801

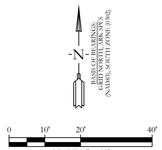
DRAWN	SCALE
WDW	SEE PLAN
CHECKED	DATE
WDW	8/17/2022

C2.0

SHEET 3 OF 4

811 Know what's below. Call before you dig.





PROPERTY DESCRIPTION

LEGAL DESCRIPTION OF RECORD SALINE COUNTY INSTRUMENT #2017-006225:
PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID N 1/2 OF THE NW 1/4, SECTION 27, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE WEST, ALONG THE SOUTH LINE OF SAID N 1/2 OF THE NW 1/4, 962.0 FEET TO THE EAST RIGHT OF WAY LINE OF REYNOLDS ROAD (35 FEET FROM CENTERLINE OF PAVEMENT); THENCE NORTH 50 DEG. 15 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, FOR 764.5 FEET; THENCE NORTH 52 DEG. 30 MIN. WEST, ALONG SAID ROAD RIGHT OF WAY, 349.5 FEET; THENCE NORTH 50 DEG. EAST 14.1 FEET TO REYNOLDS ROAD RIGHT OF WAY AS OF JUNE 7, 1993 AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 50 DEG EAST, ALONG THE NORTH LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 205 AT PAGE 351, FOR 206.21 FEET TO THE SOUTHWEST CORNER OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORDS BOOK 265 AT PAGE 704; THENCE NORTH 35 DEG. 55 MIN. WEST 124.32 FEET, ALONG THE WEST LINE OF LANDS DESCRIBED IN SALINE COUNTY DEED RECORD BOOK 265 AT PAGE 704 TO A FENCE, SAID FENCE BEING THE PROPERTY LINE AS SET FORTH IN PROPERTY LINE AGREEMENT DATED DECEMBER 8, 1978 AND FILED JANUARY 3, 1979 IN SALINE COUNTY MISCELLANEOUS RECORD BOOK 55 AT PAGE 543; THENCE SOUTH 50 DEG. 16 MIN. 31 SEC. WEST, ALONG SAID FENCE, 242.8 FEET TO THE RIGHT OF WAY OF REYNOLDS ROAD AS OF JUNE 7, 1993; THENCE SOUTH 52 DEG. 30 MIN. EAST, ALONG SAID ROAD RIGHT OF WAY, 128.28 FEET TO THE POINT OF BEGINNING, CONTAINING 0.68 ACRES, MORE OR LESS.

TITLE COMMITMENT PROVIDED BY: CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NO. 22-022518-475, EFFECTIVE DATE: JUNE 12, 2022, 8:00AM

	SCHEDULE B PART II - EXCEPTIONS	EFFECT ON SURVEY
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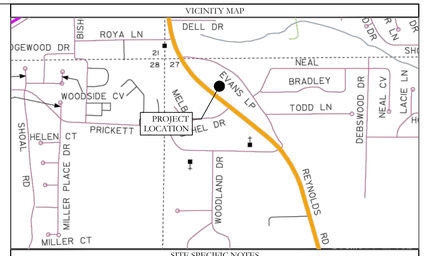

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WM. CORBITT R. SHOFFNER
ARKANSAS PS #1664
CORBITT@HOPECONSULTING.COM

DATE

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

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No. 1664
SIGNATURE
WILLIAM CORBITT R. SHOFFNER
PROFESSIONAL LAND SURVEYOR

ORIGINAL SIGNATURE ON FILE

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
CHICAGO TITLE INSURANCE COMPANY; LAMONTIA, LLC; ARK-104 LIMITED PARTNERSHIP, AN ARKANSAS LIMITED PARTNERSHIP

ALTA/NSPS LAND TITLE SURVEY

PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE14 WEST, SALINE COUNTY, ARKANSAS

DATE: 07/25/2022		C.A.D. BY: JPP					DRAWING NUMBER:	
REVISED:		CHECKED BY:					22-0882	
SHEET:		SCALE: 1" = 20'						
500	01S	14W	0	27	400	62	1664	

© Land Design Solutions, LLC 2022 | 117 S. Market St. | Benton, AR 72015 | 501.315.2626 | Hope Consulting, Inc. | 117 S. Market St. | Benton, AR 72015 | 501.315.2626

SPRINGFIELD SIGN
design | build | install | service

ADDRESS
4825 E Kearney St
Springfield, MO 65803

CONTACT US
800.845.9927
springfieldsign.com

11/1/2022

City of Bryant Zoning Board of Appeals
210 SW 3rd St
Bryant, AR 72022

RE: Scooter's Coffee -Sign Exception Request

Scooters Coffee located at 2745 Union Lake Road would like to respectfully request 2 additional wall signs which would include 2 wall signs located on our Drive Through and side elevation totaling 130.12 square feet to allow our standard branding of Scooter Sign.

Per code, a business in C-2 is only allowed one façade sign.

Our request for the additional wall signage will provide proper business identification as well as proper wayfinding to traffic traveling along North Reynolds. With regards of traveling Northwest or East on Reynolds, our visibility is very limited without signage on our side elevations due to tree lines and setback of the building. Without proper identification the potential for traffic congestion increases causing traffic concerns along North Reynolds. Without our brand of Standard Scooters signs located on side elevations, our business could lose potential customers. Allowing these variances, we believe, leads to an efficient and concise way to decreasing the traffic congestion and improving public safety. A large percentage of business is impulse by motorist and customers. The granting of this will provide visual knowledge to the public to provide them with property way finding which will decrease potential traffic congestion and improve public safety. The granting of these request would not be in anyway detrimental to the public's welfare, or injurious. The Brand Standard format for Scooter's Coffee is to be consistent with branding, public identity, public way finding, marketing and visual imaging throughout the entire chain. properties in our neighborhood and zoning district

Scooter's Coffee is a nationally recognized restaurant, and with that comes a Brand Standard consistency. The brand Standard format for Scooter's Coffee is to be consistent with branding, public identity, public way finding, public safety, marketing, visual imaging throughout the entire chain and providing a positive impact on the community. We believe this variance request is consistent with the spirit, purpose and intent of the sign ordinance governing Bryant city while offering some new advantages. This proposal is consistent with many other communities that we have been involved in around the country and believe that this minor adjustment is necessary as far as the Brand of Scooter's Coffee and will have a positive impact on the community.

SPRINGFIELD SIGN
design | build | install | service

ADDRESS
4825 E Kearney St
Springfield, MO 65803

CONTACT US
800.845.9927
springfieldsign.com

We respectfully are asking you to review our request, see our need, and approve our request.

Thank you,

Alicia Walton
Springfield Sign
4825 E Kearney St.
Springfield, MO 65803
417-862-2454
aliciaw@springfieldsign.com

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 10/20/2022

Sign Co. or Sign Owner

Name Alicia Walton
Address 4825 E. Kearney St
City, State, Zip Springfield MO 65803
Phone 417-862-2454
Email Address aliciaw@springfieldsign.com

Property Owner

Name Lamontia LLC
Address 118 vernona Circle
City, State, Zip Sherwood, AR 72120
Phone _____
Email Address _____

GENERAL INFORMATION

Name of Business Scooter's Coffee
Address/Location of sign 1816 N Reynolds Rd
Zoning Classification C-1

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted**. Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

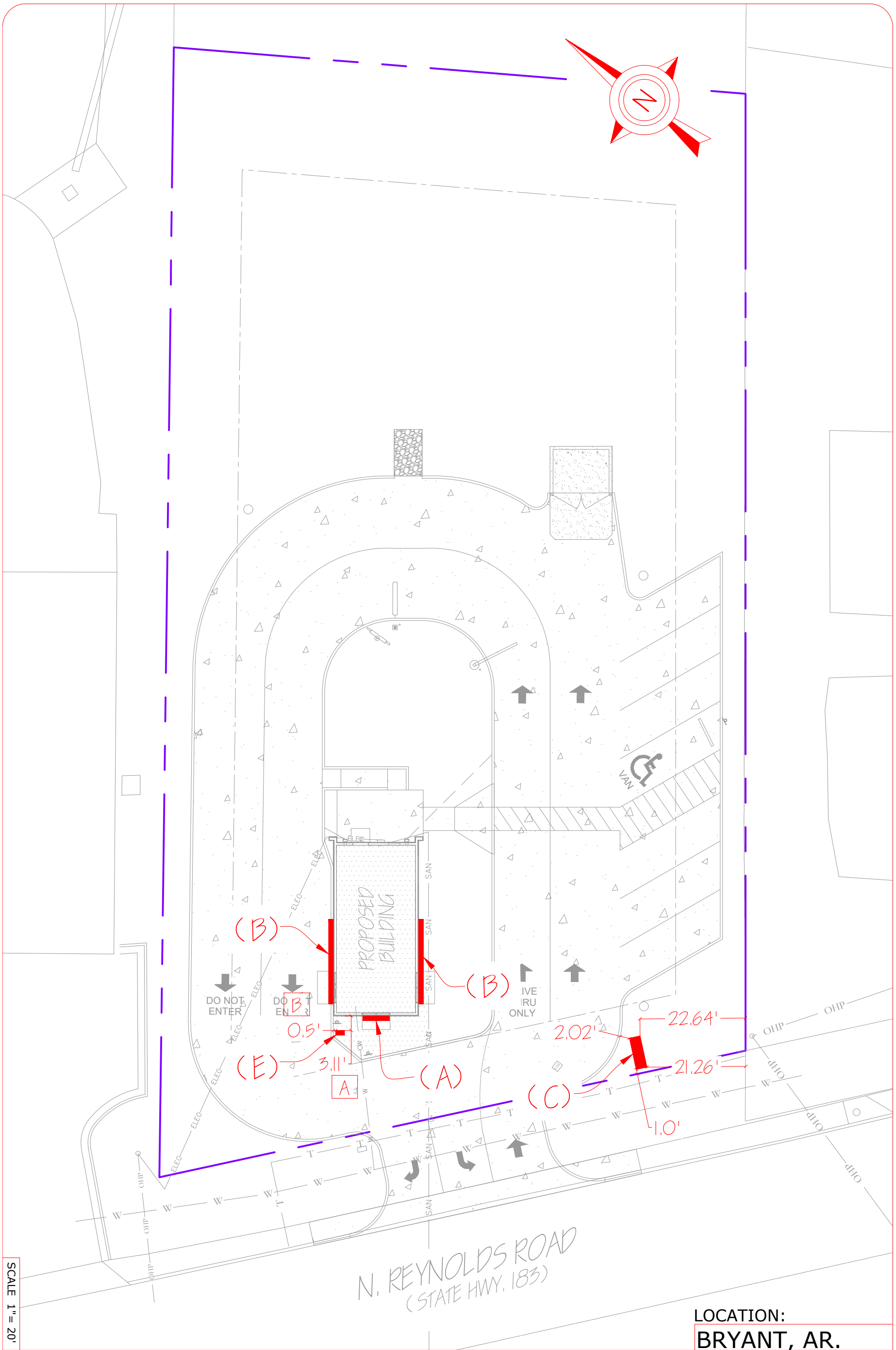
READ CAREFULLY BEFORE SIGNING

I Alicia Walton, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

SIGN	**Type** (Façade, Pole, Monument, other)	**Dimensions** (Height, Length, Width)	**Sqft** (Measured in whole as rectangle)	**Height of Sign** (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
A	Facade Front	5' 8 1/2 x 5'	28.54			
B	Facade side	48" x 218.25"	65.06			
C	Facade side	48" x 218.25"	65.06			
E						
F	Ground	72" x 82.25"	41.1	144"	72"	
G	Ground EMC	24" x 56"	9.3	68"	44"	



SCALE 1" = 20'

LOCATION:
BRYANT, AR.

Project No.:	38745
Drawn By:	CLH
Reviewed By:	MW
Date:	10-15-22

Sheet Number:
1 OF 1

SCOOTER'S COFFEE
NEW-SIGNAGE
1816 N. REYNOLDS RD.
BRYANT, AR. 72022
SIGN PLACEMENT PLAN

SPRINGFIELD SIGN
4825 E. Kearney St.
Springfield, MO 65803
(417) 862-2454

DRAWING SCALE: 1/2" = 1'0"	DATE CREATED: 00/00/22	DATE REVISED: N/A	REV_0	SALES: Shaun Crawford	800.845.9927	CLIENT: Scooter's Coffee # 2055	DRAWING #: ao38745-6
				DESIGN: R HICKS		LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022	

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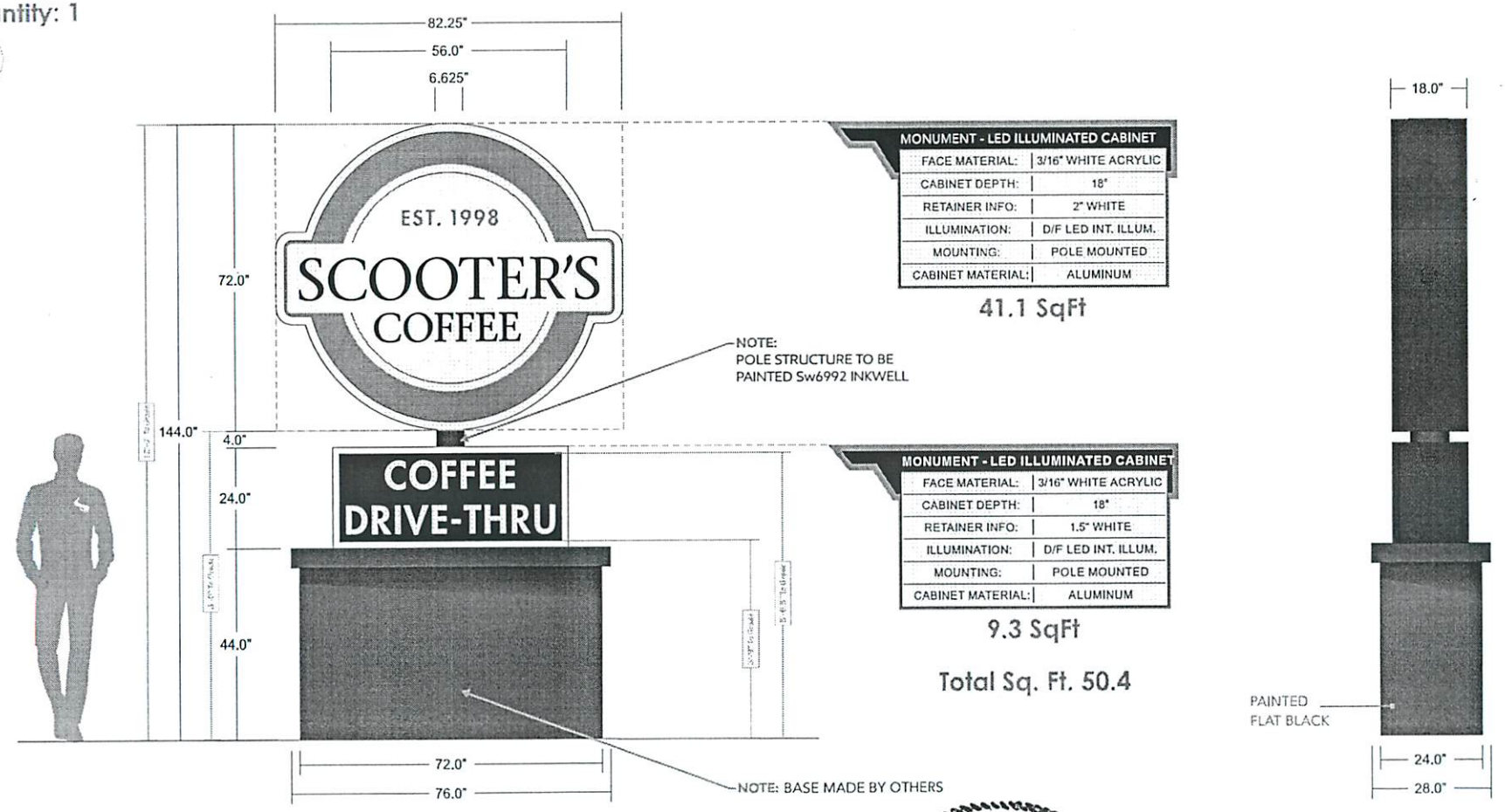
3M Lt. Tomato Red Translucent Film (3630-43) 3M Black Opaque Film (7725-12)

MON72

DETAIL VIEW - D/F MONUMENT

Quantity: 1

C



MONUMENT - LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16" WHITE ACRYLIC
CABINET DEPTH:	18"
RETAINER INFO:	2" WHITE
ILLUMINATION:	D/F LED INT. ILLUM.
MOUNTING:	POLE MOUNTED
CABINET MATERIAL:	ALUMINUM

41.1 SqFt

MONUMENT - LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16" WHITE ACRYLIC
CABINET DEPTH:	18"
RETAINER INFO:	1.5" WHITE
ILLUMINATION:	D/F LED INT. ILLUM.
MOUNTING:	POLE MOUNTED
CABINET MATERIAL:	ALUMINUM

9.3 SqFt

Total Sq. Ft. 50.4

CERTIFICATE OF AUTHORIZATION
CROCKER CONSULTING ENGINEERS, INC
No. COA # 1755
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PATRICK CROCKER
PE 8360

2022.10.15

SPRINGFIELDSIGN.com

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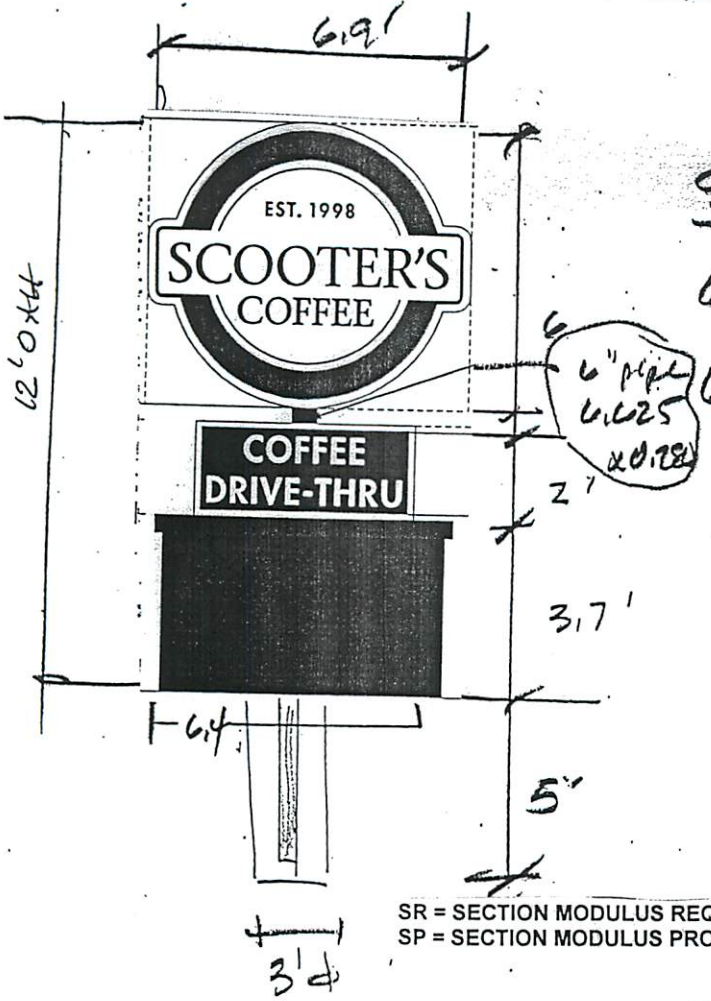
CROCKER
3211 E. SHADY GLEN ST.
SPRINGFIELD, MO 65804
417-883-4056

1-POLE, 12' OAH | SPRINGFIELD SIGN SCOOTERS | 1816 N. REYNOLDS BLVD BRYANT, AR 1

1-POLE 12'0 AH	SPRINGFIELD SIGN SCOOTERS	1816 N. REYNOLDS BLVD BRYANT, AR	2



SR = SECTION MODULUS REQUIRED
SP = SECTION MODULUS PROVIDED

, 115 mph

Steel

	P	M
$6.9 \times 6.9 \times 20 = 752 \times 9 =$		8570
$6.4 \times 5.7 \times 20 = 730 \times 3 =$	2189	
	1682	10,759

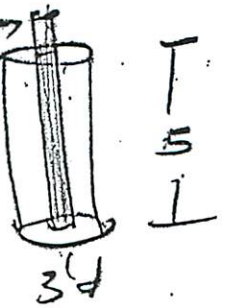
$$S_R = \frac{10,759 \times 12}{23,450} = 5.51 \text{ in}^3$$

S_p 6" pipe $= 8.50 \text{ in}^3$

6.625 x 0.280

$S_p > S_R$ OK

Concrete



$P = 1682$

$M = 10,759$

$h = 6.4$

$b = 3$

$S_t = (150)(2)\left(\frac{1}{3}\right)\left(\frac{5}{3}\right) = 667$

$$d = \frac{(1.17)(1682)}{(3)(667)}\left(1 + \sqrt{1 + \frac{1.86(667)(3)6.4}{1682}}\right)$$

$d = 4.8'$ req'd ; base is 3' x 5' deep

OK

Know what's below. Call before you dig. 811

CERTIFICATE OF AUTHORIZATION
CROCKER CONSULTING ENGINEERS, INC
No. COA # 1755
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PE 8360
PATRICK CROCKER

2022.10.15

CROCKER
3211 E. SHADY GLEN ST.
SPRINGFIELD, MO 65804
417-883-4056

1-POLE, 12' OAH | SPRINGFIELD SIGN SCOOTERS | 1816 N. REYNOLDS BLVD BRYANT, AR

3.

WIND @ 20 PSF
SNOW @ 20 PSF
SOILS AT 1500 PSF (ASSUMED)
LATERAL SOIL LOADING AT 150
FOOTING/FOUNDATION 3'4 x 5' deep

POUR CONCRETE AGAINST UNDISTURBED SOILS, NOT BACKFILL
ALL DESIGN, DETAILING, FABRICATION, AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:
- IBC 2018 EXP "C" (3-SEC GUST) — used as base reference for wind loading
- CURRENT INTL. BLDG CODE (IBC)
- AMERICAN SOCIETY OF TEST'G MAT'LS (ASTM)
- BLDG CODE REQMNT - REINF CONC (ACI 318-83).
- CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY.
- CURRENT SPECS - AMERICAN INST OF STEEL CONST (ASIC) - DESIGN, FAB, & ERECTION.

CONCRETE 3000 P.S.I. @ 28 DAYS COMPR STR, (145 P.C.F.)
REINF ST'L - ASTM1-615, GR 60, (IF REQD). WELDED WIRE FABRIC (WWF) - ASTM A185
- ALL REINF SHALL BE FREE FROM MUD, OIL, RUST OR COATINGS THAT WOULD REDUCE OR DESTROY BOND
- ALL REINF BARS SHALL LAP 30 DIAMETERS OR 12" MINIMUM, EXCEPT AS NOTED.
- MIN CONC COVER ON TIES, STIRRUPS AND MAIN BARS SHALL BE 1 INCH FOR SLAB, WALL AND SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND± 3 INCHES FOR UNFORMED SURFACES DEPOSITED AGAINST GROUND EXCEPT AS NOTED.
- TIE RE-BARS. DO NOT WELD RE-BAR.

STRUCTURAL STEEL AND PLATES - A-36.
STRUCTURAL TUBING - ASTM A-500, GR B, FY=50 KSI.
STRUCT PIPE- ASTM A-53, GR B, FY=35 KSI.
ANCHOR BOLTS ASTM A-307, EXCEPT AS NOTED.
HI STRGTH BOLTS - CONNNECTIONS - ASTM A-325, U.N.O.
WELDING ELECTRODES - AWS D1.1-85, E70xx.
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE ERECTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
NO CABINET ENGINEERING PROVIDED. IF CABINET ENGRG IS REQ'D, CONTACT THE ENGINEER FOR ADD'TL SVCS.
6" OF CONCRETE OR GRAVEL PLACED IN BOTTOM OF FOUNDATION PRIOR TO MAIN POUR.
ISOLATE ALUMINUM FROM STEEL.
ALL BOLT HOLES TO BE DRILLED OR PUNCHED.
ALL PIPE SIZES SHOWN ARE MINIMUM SIZES. PIPE WITH A LARGER DIAMETER, GREATER YIELD STRENGTH, AND/OR GREATER SECTION MODULUS MAY BE SUBSTIUTED.
ALL STRUCTURAL LENGTHS REQUIRED ARE APPROXIMATIONS ONLY. ACTUAL LENGTH MAY SLIGHTLY VARY DEPENDING ON SIGN CABINET CONDITIONS.
ALL WORK PERFORMED ON SITE SHALL BE DONE ACCORDING TO APPLICABLE OSHA REGULATIONS
WATER SHOULD NOT BE ALLOWED TO POND IN THE EXCAVATION PRIOR TO CONCRETE PLACEMENT OR ABOVE CONCRETE AFTER THE FDTN IS COMPLETED
EXERCISE CARE DURING EXCAVATION OF THE FOUNDATION TO MINIMIZE DISTRUBANCE TO THE SURROUNDING SOILS.

CALCULATIONS SHOWN ON THESE SHEETS ARE ONLY FOR THE BASE POLE(S) AND CONCRETE BASE-FOUNDATION

SR = SECTION MODULUS REQUIRED
SP = SECTION MODULUS PROVIDED

CROCKER
3211 E. SHADY GLEN ST.
SPRINGFIELD, MO 65804
417-883-4056

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PE 8360
PATRICK CROCKER
2022.10.15

CERTIFICATE OF AUTHORIZATION
CROCKER CONSULTING ENGINEERS, INC
No. COA# 1755
ARKANSAS

JOB TITLE Spfld Sign Scooters 12 ft OAH

JOB NO. _____ SHEET NO. _____
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____

Wind Loads - Other Structures:

ASCE 7- 10 use IBC 2018 Nominal Wind Pressures

Wind Factor =	0.60		
Gust Effect Factor (G) =	0.85	Ultimate Wind Speed =	115 mph
Kzt =	1.00	Exposure =	C

A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

use 20psf

		s/h =	1.00	Case A & B	
Dist to sign top (h)	12.0 ft	B/s =	0.57	C_f =	1.54
Height (s)	12.0 ft	Lr/s =	0.00	F = qz G Cf As =	**19.1 As**
Width (B)	6.8 ft	Kz =	0.849	As =	10.0 sf
Wall Return (Lr) =		qz =	14.7 psf	F =	191 lbs
Directionality (Kd)	0.85				
Percent of open area to gross area	0.0%	Open reduction factor =	1.00		

Case C reduction factors
Factor if s/h>0.8 = 0.80
Wall return factor for Cf at 0 to s = 1.00

CaseC

Horiz dist from windward edge	Cf	F=qzGCfAs (psf)
0 to s	1.80	22.4 **As**
s to 2s	1.20	15.0 **As**

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CROCKER CONSULTING ENGINEERS, INC
No. COA# 1755
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PE 8360
PATRICK CROCKER
2022.10.15

CROCKER
3211 E. SHADY GLEN ST.
SPRINGFIELD, MO 65804
417-883-4056



SPRINGFIELD SIGN

Scooter's Coffee | Bryant, AR

Presented by Shaun Crawford

800.845.9927 springfieldsign.com

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DRAWING SCALE: Various	DATE CREATED: 08/01/22	DATE REVISED: N/A	REV_0

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter's Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-1

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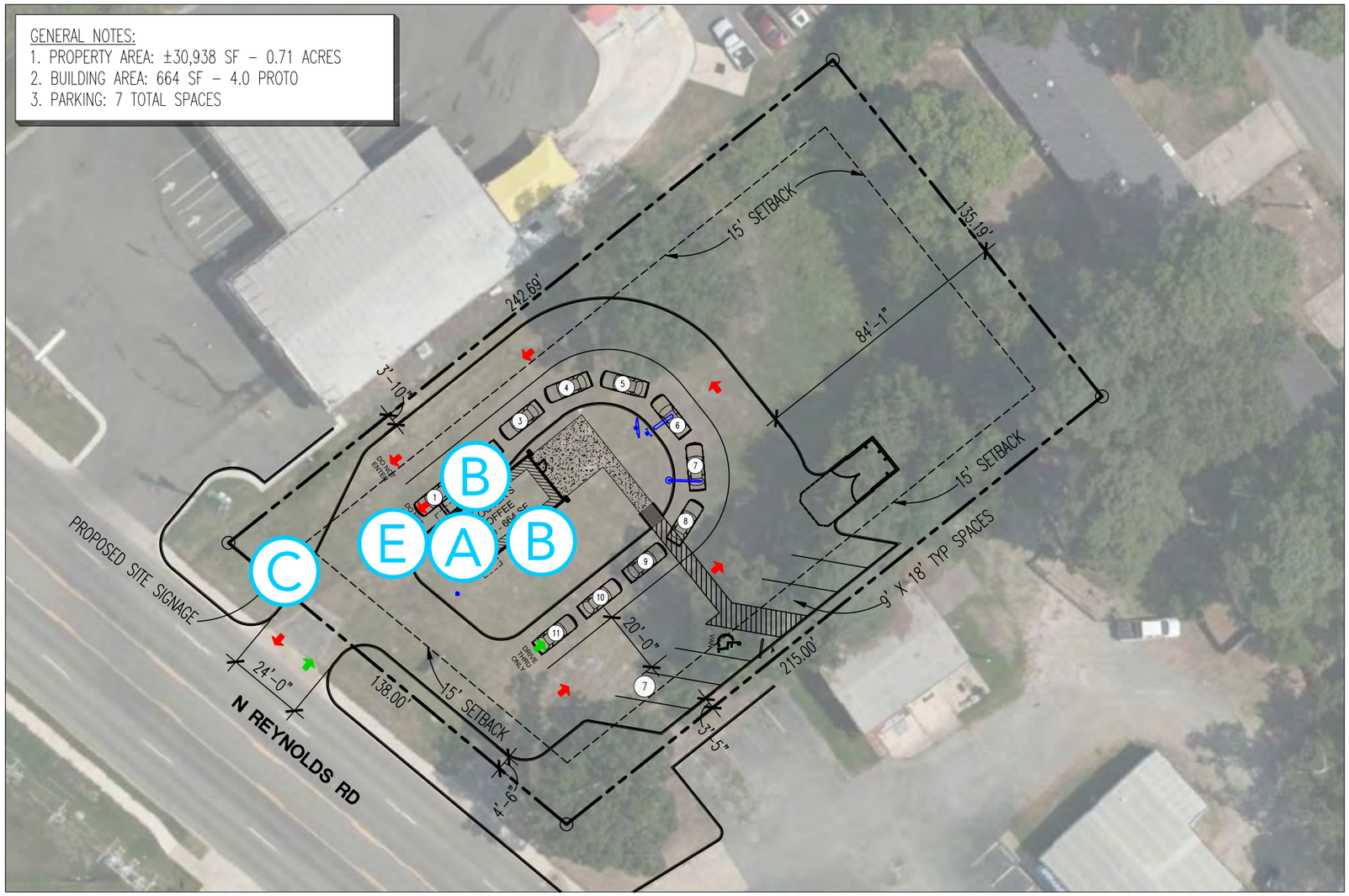
PRELIMINARY SITE PLAN, NOT FOR PERMITTING



SITE PLAN-SIGN TYPE KEY

CHANNEL CABINET:	A-(FRONT)
CHANNEL LETTERS:	B-(SIDE)
CHANNEL LETTERS:	B-(DRIVE-THRU)
MONUMENT:	C
DIRECTIONAL 1:	E

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

N
TRUE NORTH
SCALE: 1"=40'-0"

Job No. 221065-306
Date 06/16/22
Sheet No. SCHEME: 1
Project SCOOTER'S SITE PLAN

1816 N REYNOLDS RD
BRYANT, AR

NORTH

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DRAWING SCALE:	DATE CREATED:	DATE REVISED:	REV_1
3/16” = 1’-0”	08/01/22	10/5/2022	

SALES: Shaun Crawford | 800.845.9927

DESIGN: R HICKS / DAVID SAMPLES

CLIENT: Scooter’s Coffee # 2055

LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022

DRAWING #: ao38745-2

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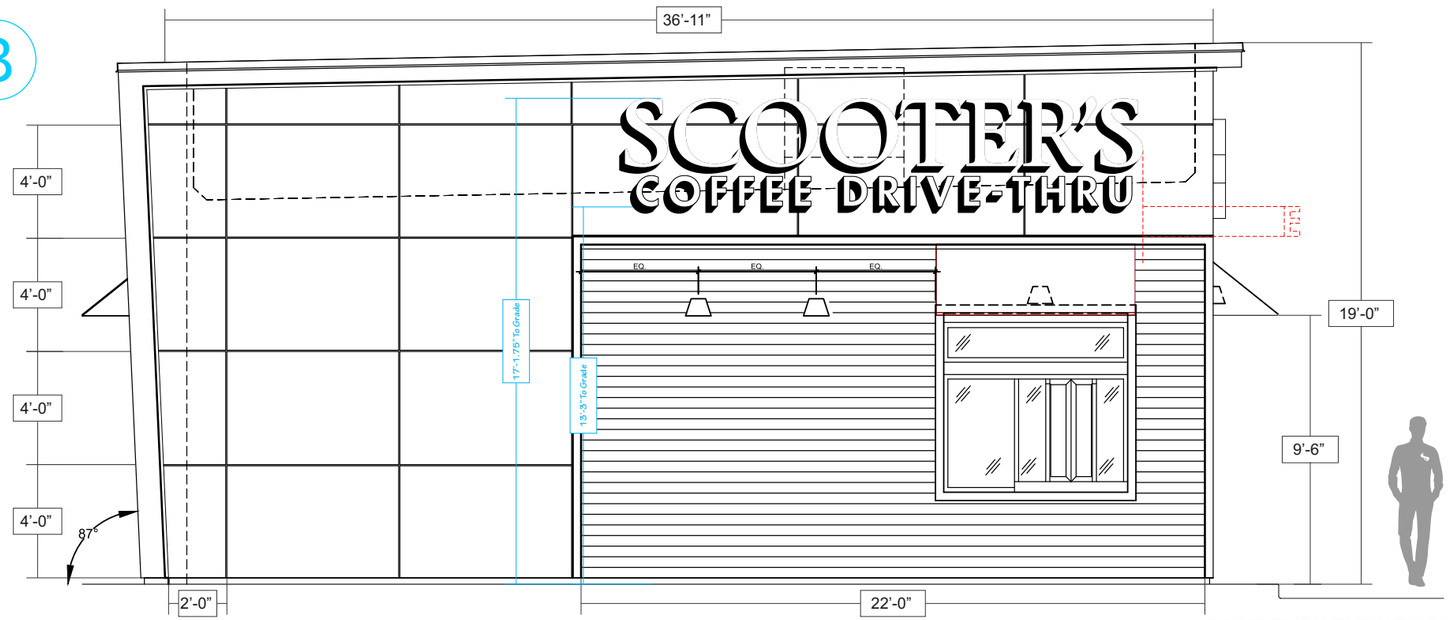
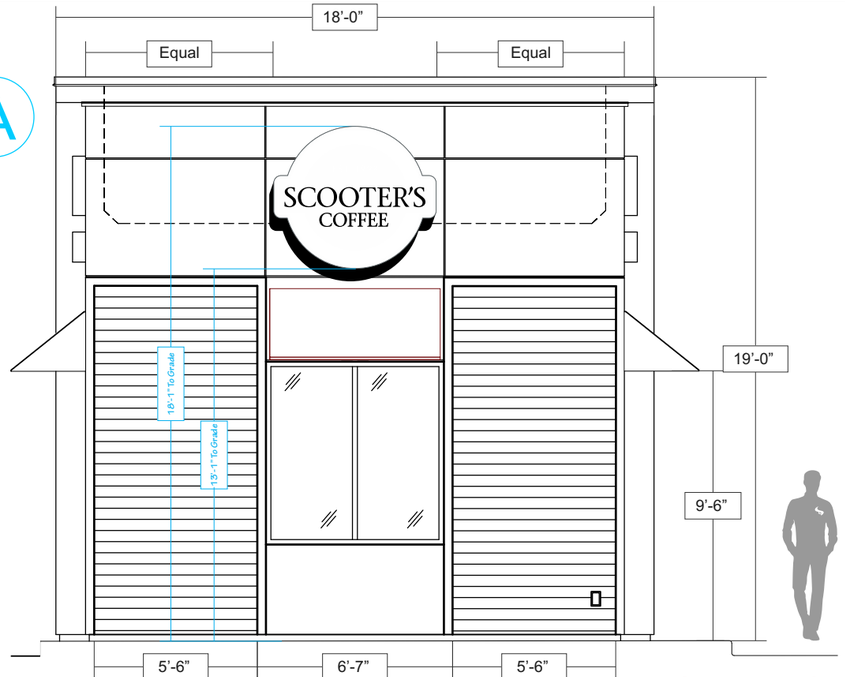
ELEVATION DETAILS

B



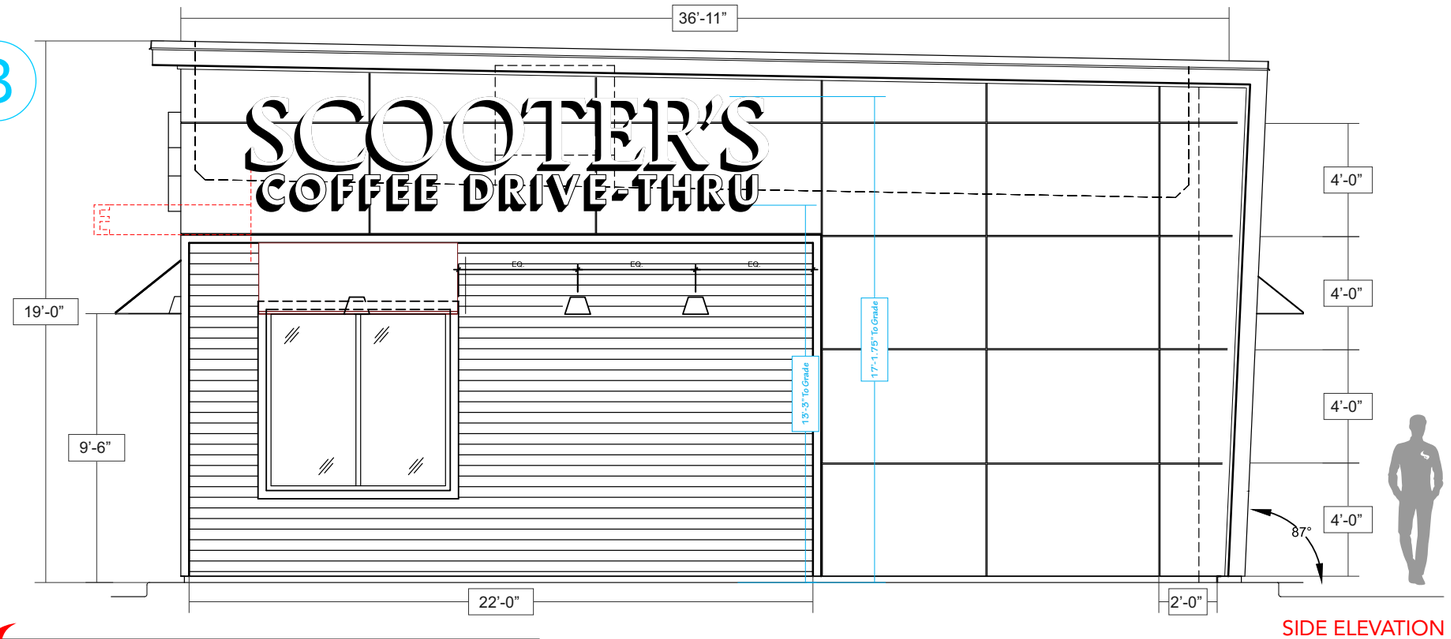
DRIVE-THRU ELEVATION

A

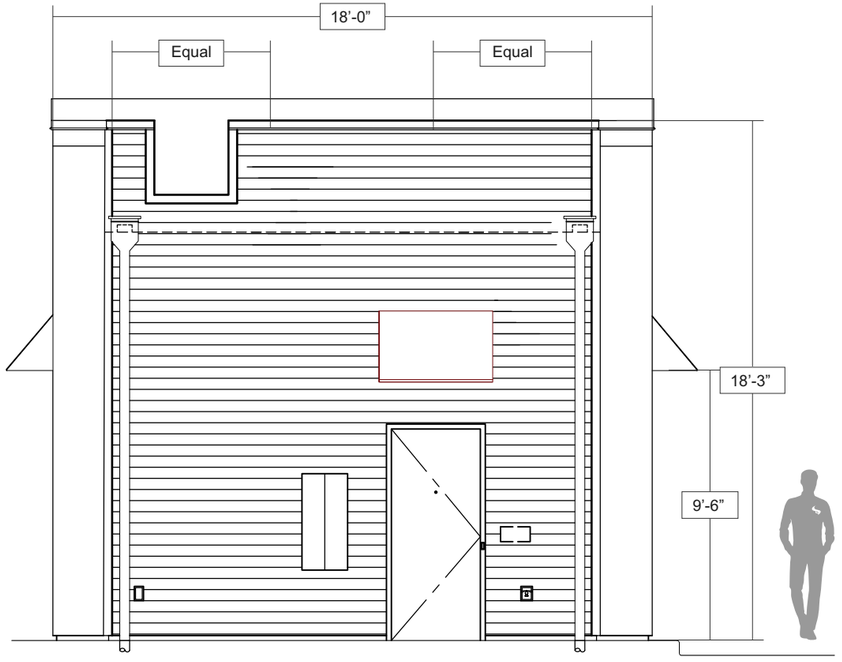


FRONT ELEVATION

B



SIDE ELEVATION



REAR ELEVATION

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DRAWING SCALE:	DATE CREATED:	DATE REVISED:	REV_0
3/4" = 1'-0"	08/01/22	N/A	

SALES: Shaun Crawford | 800.845.9927

DESIGN: R HICKS

CLIENT: Scooter's Coffee # 2055

LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022

DRAWING #: ao38745-3

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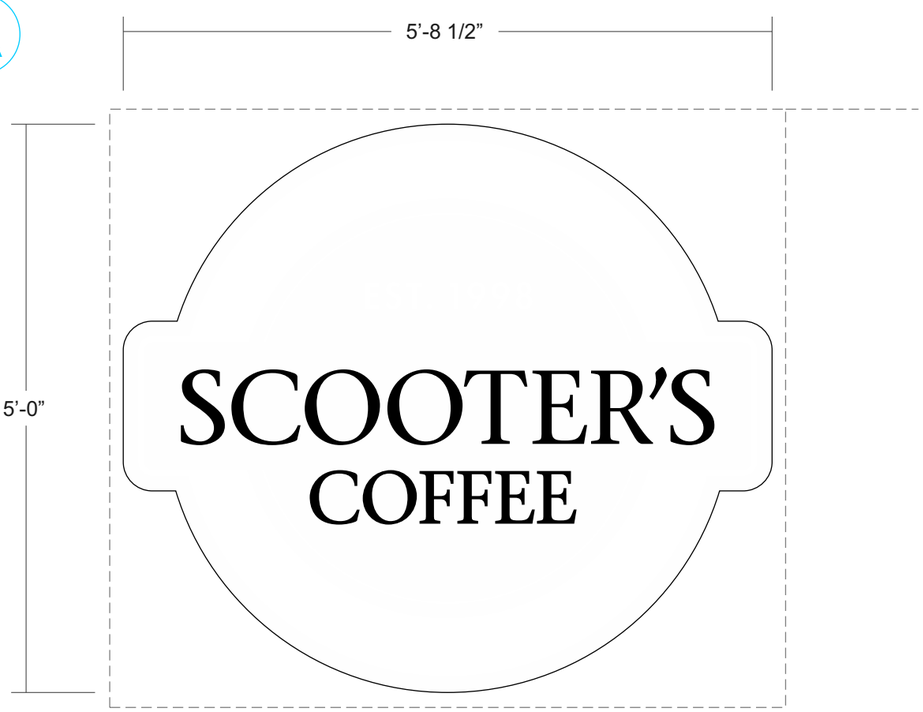
3M Lt. Tomato Red Translucent Film (3630-43) 3M Black Opaque Film (7725-12)

DETAIL VIEW - CHANNEL CABINET

CAB5

Quantity: 1

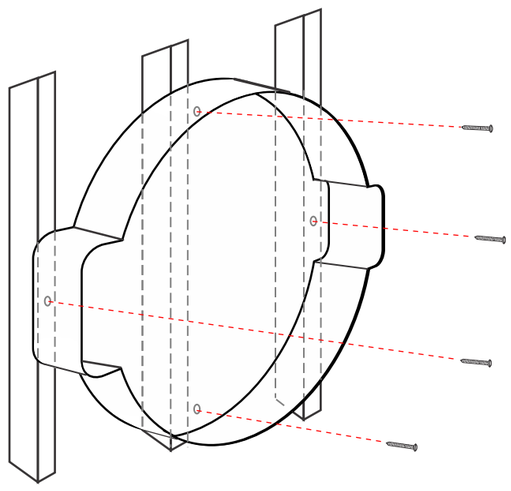
A



LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16" WHITE ACRYLIC
CABINET DEPTH:	5" RETURNS
RETAINER INFO:	1" BLACK TRIM CAP
ILLUMINATION:	S/F LED INT. ILLUM.
MOUNTING:	FLUSH MOUNTED
CABINET MATERIAL:	ALUM. PAINTED BLACK
KEYLINE:	1.5" WHITE

Total Sq. Ft. 28.54



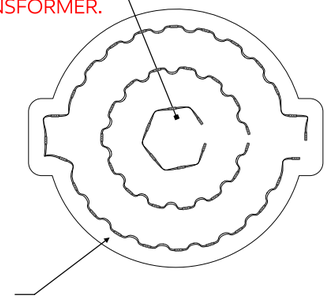


NOTE: CHANNEL LETTERs/LOGOs FLUSH MOUNTED TO WALL w/#14 TEK (O.R. WOOD/METAL) FASTENERS. NUMBER OF PENETRATIONS DEPENDENT ON STUD PLACEMENT.

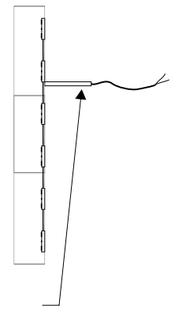


NOTE:
6' WHIP TO EXIT TOP CENTER, REAR OF CHANNEL LOGO (ON ROOF TOP).

NOTE:
SELF CONTAINED TRANSFORMER.



LED MODULES
Aglight-LS-U650-71K-B200-A



POWER TO EXIT REAR OF CHANNEL LOGO DISPLAY.

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DRAWING SCALE:	DATE CREATED:	DATE REVISED:	REV_0
3/8” = 1’0”	08/01/22	N/A	

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter’s Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-4

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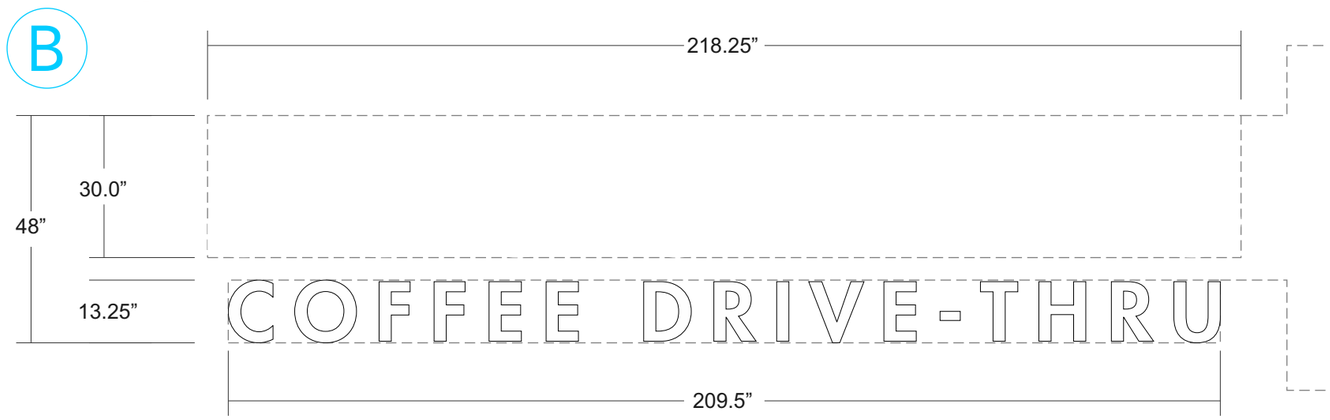
3M Lt. Tomato Red Translucent Film (3630-43) 3M Black Opaque Film (7725-12)

DETAIL VIEW - CHANNEL LETTERS

CHAN48

Quantity: 2 SETS

B



Total Sq. Ft. 65.06

“TOP” FRONT-LIT CHANNEL LETTERS

FACE MATERIAL:	3/16” WHITE ACRYLIC
RETURN COLOR:	BLACK
TRIMCAP COLOR:	1” BLACK
ILLUMINATION:	LED RED INT. ILLUM.
MOUNTING:	REMOTE RACEWAY
DEPTH:	3”

45.68 SqFt

“BOTTOM” FRONT-LIT CHANNEL LETTERS

FACE MATERIAL:	3/16” WHITE ACRYLIC
RETURN COLOR:	BLACK
TRIMCAP COLOR:	1” BLACK
ILLUMINATION:	LED WHITE INT. ILLUM.
MOUNTING:	FLUSH MOUNTED
DEPTH:	3”

19.38 SqFt



ONE (1) 100watt POWER SUPPLY

POWER TO EXIT AT TOP AREA OF “SCOOTER’S”



ALUMINUM REVERSE RACEWAY LOCATED ON ROOF BEHIND PARAPET WALL.

ONE (1) 60watt POWER SUPPLY

POWER TO EXIT AT LOWEST POINT OF “COFFEE DRIVE-THRU”

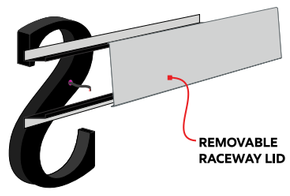
NOTE:

“COFFEE DRIVE-THRU ” WILL BE WIRED INSIDE DROP CEILING.

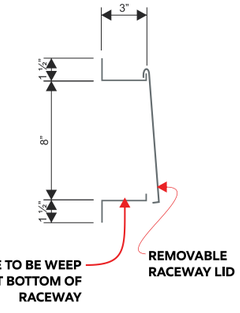
LED MODULES A
Aglight-LS-U650-RED-B200-A



LED MODULES
Aglight-LS-U650-71K-B200-A



NOTE:
INVERTED RACEWAY TO BE SEALED BY ROOTER AFTER INSTALLATION.





POWER TO EXIT LOWER LETTERS AND ENTER STORE.

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DRAWING SCALE:	1/2” = 1’-0”	DATE CREATED:	08/01/22	DATE REVISED:	10/5/2022	REV_1

SALES: Shaun Crawford | 800.845.9927

DESIGN: R HICKS

CLIENT: Scooter’s Coffee # 2055

LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022

DRAWING #: ao38745-5

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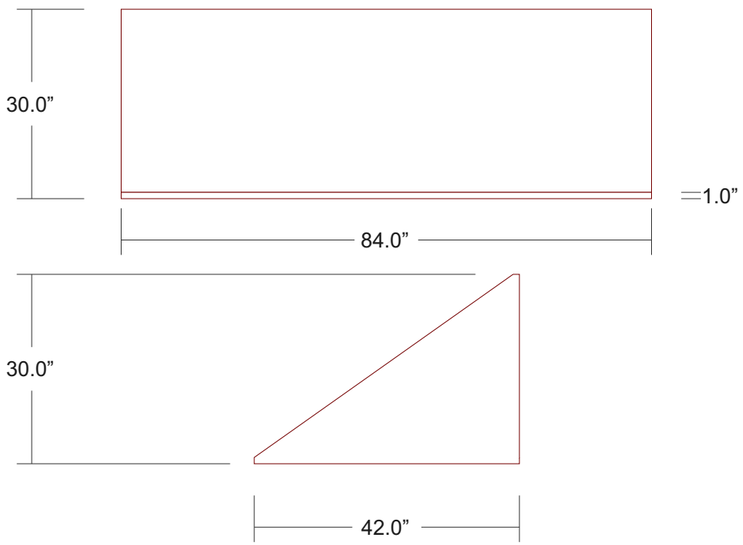
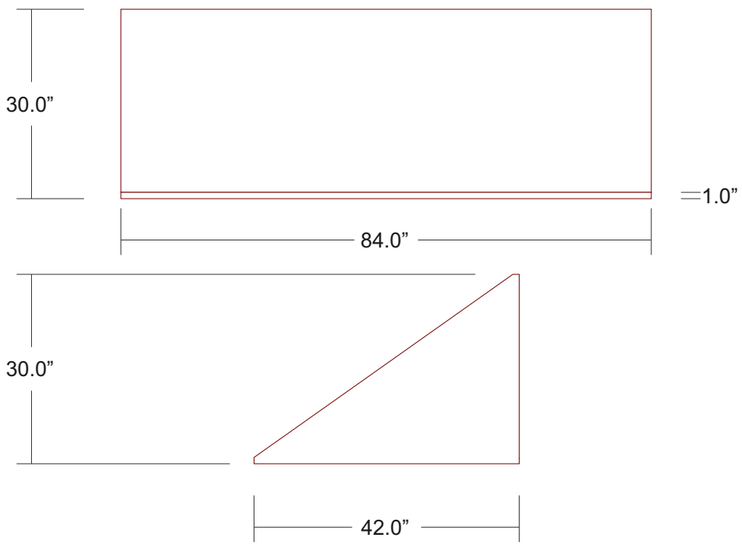
DETAIL VIEW - AWNINGS

AWNING4

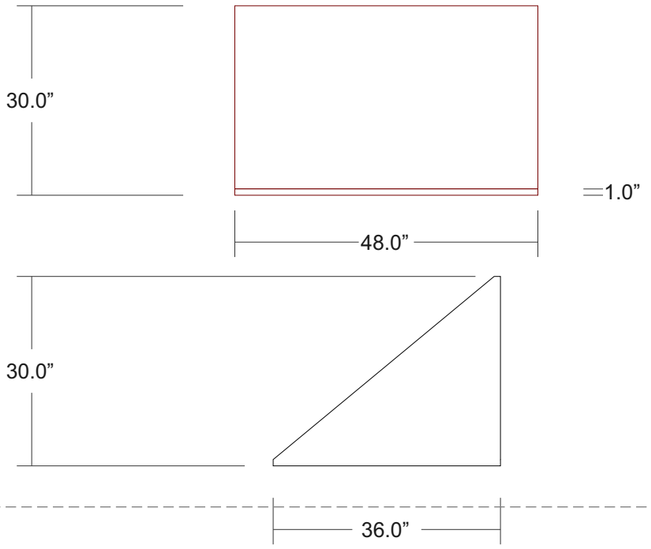
DRIVE-THRU SET:



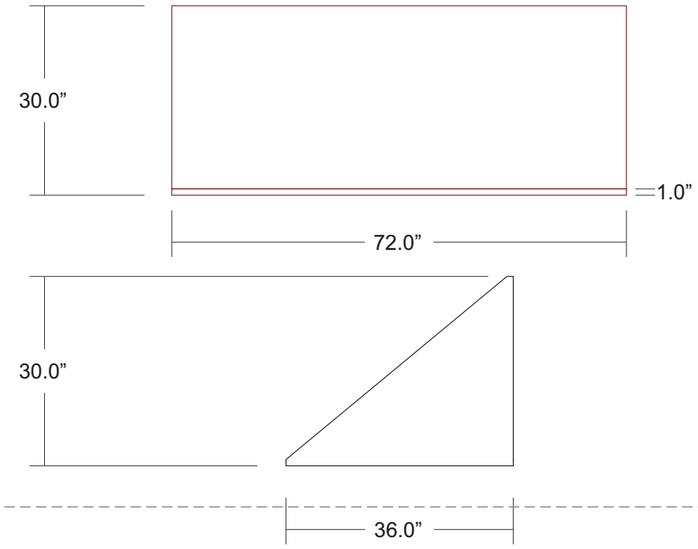
SIDE SET:



REAR SET:

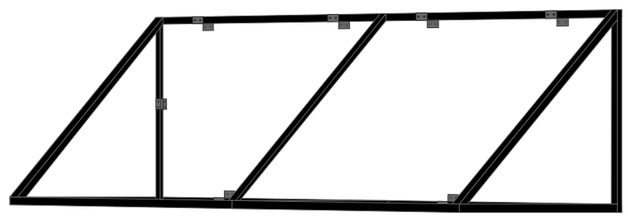


FRONT SET:

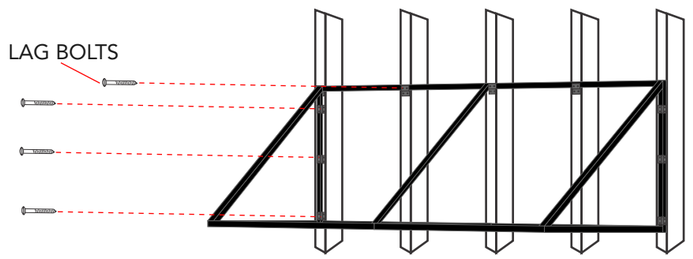


AWNING DISPLAY	
FRAME MATERIAL:	1”X1” ALUMINUM SQUARE TUBE
FRAME COLOR :	BLACK
MATERIAL:	LOGO RED SUNBRELLA #6066-0000
MOUNTING:	PANEL MOUNTED TO FASCIA

FRAME



ATTACHMENT DETAIL



NOTE: AWNING FRAMES MOUNTED TO WALL
WITH LAG BOLTS AND SIGN TECH “Z” CLIPS.
NUMBER OF PENETRATIONS DEPENDENT ON STUD PLACEMENT.

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DRAWING SCALE:	DATE CREATED:	DATE REVISED:	REV_0
1/2” = 1’0”	00/00/22	N/A	

SALES: Shaun Crawford | 800.845.9927

DESIGN: R HICKS

CLIENT: Scooter’s Coffee # 2055

LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022

DRAWING #: ao38745-6

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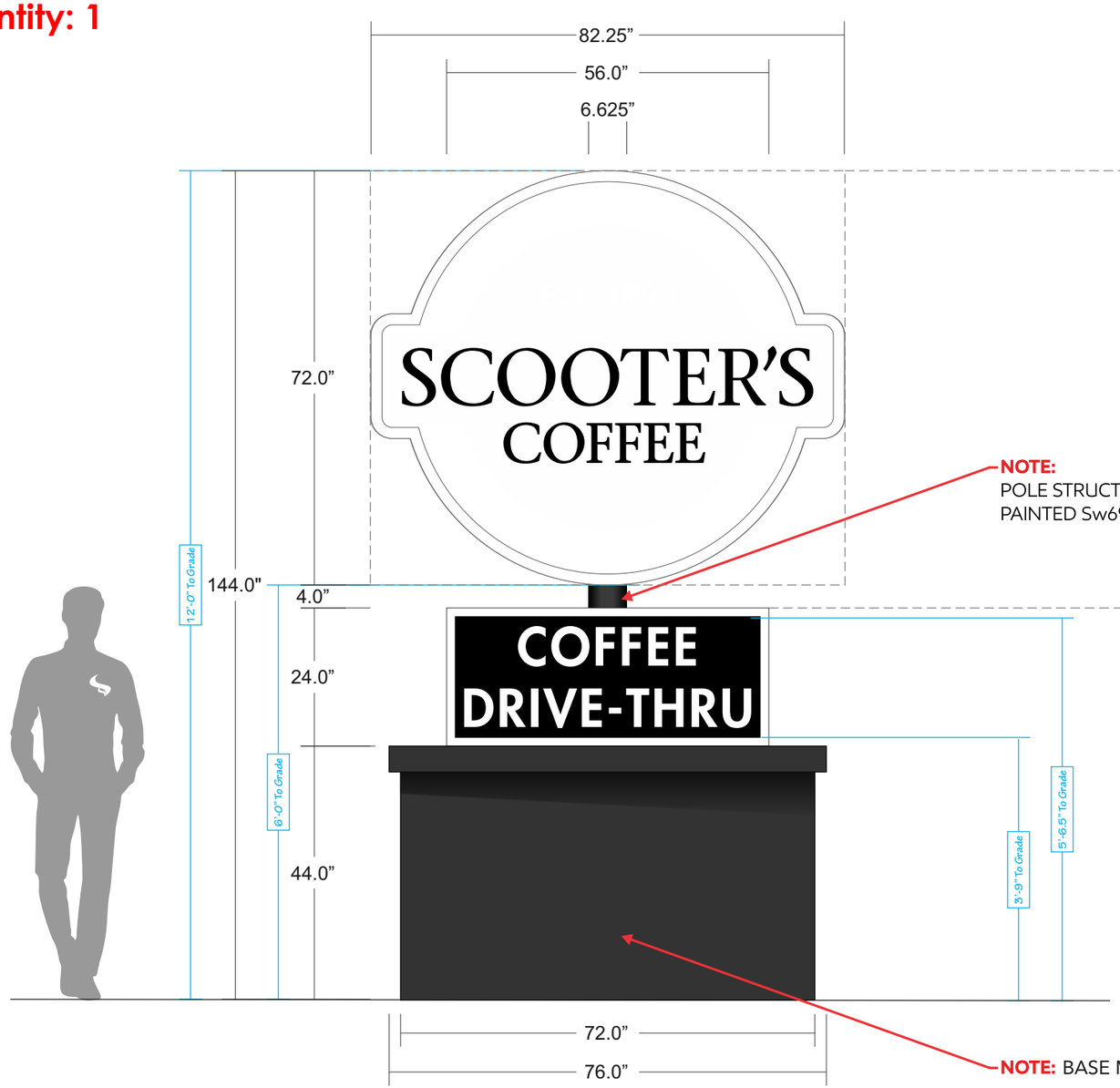
3M Lt. Tomato Red Translucent Film (3630-43) 3M Black Opaque Film (7725-12)

DETAIL VIEW - D/F MONUMENT

MON72

Quantity: 1

C



NOTE:
POLE STRUCTURE TO BE
PAINTED Sw6992 INKWELL

NOTE: BASE MADE BY OTHERS

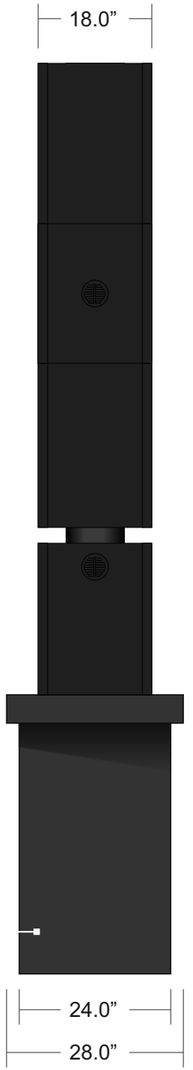
MONUMENT - LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16” WHITE ACRYLIC
CABINET DEPTH:	18”
RETAINER INFO:	2” WHITE
ILLUMINATION:	D/F LED INT. ILLUM.
MOUNTING:	POLE MOUNTED
CABINET MATERIAL:	ALUMINUM

41.1 SqFt

MONUMENT - LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16” WHITE ACRYLIC
CABINET DEPTH:	18”
RETAINER INFO:	1.5“ WHITE
ILLUMINATION:	D/F LED INT. ILLUM.
MOUNTING:	POLE MOUNTED
CABINET MATERIAL:	ALUMINUM

9.3 SqFt

Total Sq. Ft. 50.4



PAINTED
FLAT BLACK

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DRAWING SCALE:	DATE CREATED:	DATE REVISED:	REV_0
1-1/2” = 1’0”	00/00/22	N/A	

SALES:	Shaun Crawford	800.845.9927	CLIENT:	Scooter’s Coffee	# 2055	DRAWING #:	ao38745-7
DESIGN:	R HICKS		LOCATION:	1816 N REYNOLDS RD, BRYANT, AR 72022			

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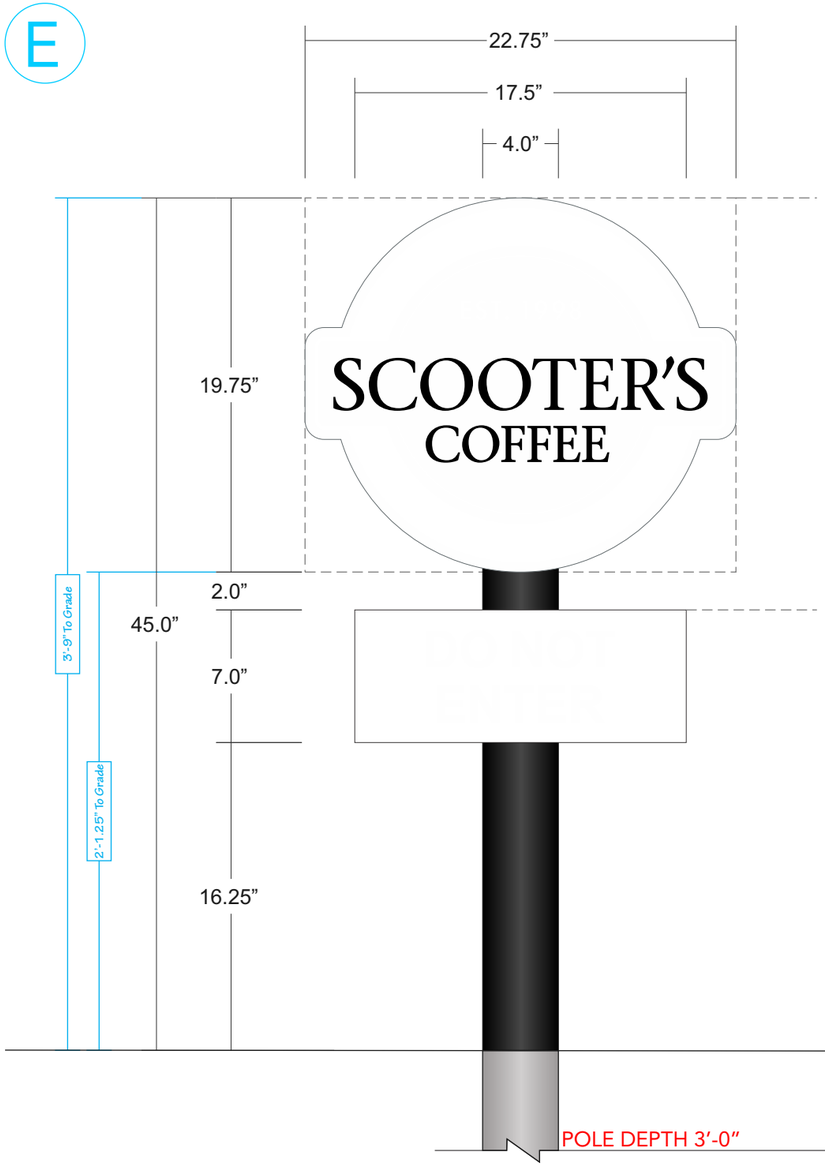
3M Lt. Tomato Red Translucent Film (3630-43) 3M Black Opaque Film (7725-12)

DETAIL VIEW - D/F DIRECTIONAL

Quantity: 1

E



DIRECTIONAL - LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16” WHITE ACRYLIC
CABINET DEPTH:	1’-0”
RETAINER INFO:	1“ BLACK TRIMCAP
ILLUMINATION:	D/F LED INT. ILLUM.
MOUNTING:	POLE MOUNTED
CABINET MATERIAL:	ALUMINUM
KEYLINE:	0.5” WHITE

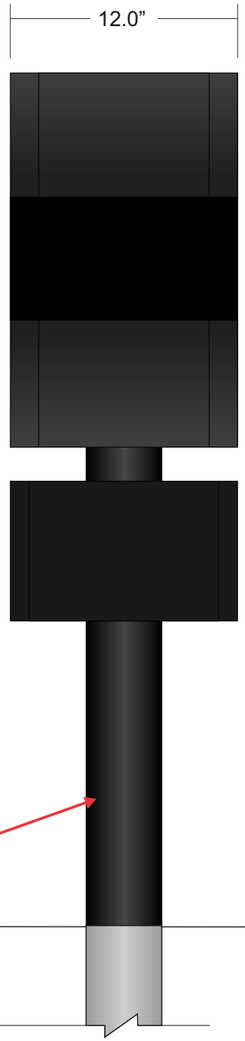
3.1 SqFt

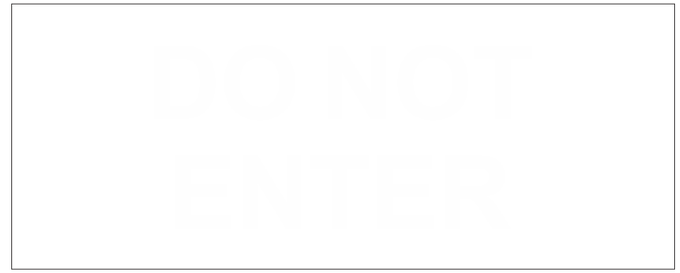
DIRECTIONAL - LED ILLUMINATED CABINET	
FACE MATERIAL:	3/16” WHITE ACRYLIC
CABINET DEPTH:	1’-0”
RETAINER INFO:	1“ BLACK TRIMCAP
ILLUMINATION:	D/F LED INT. ILLUM.
MOUNTING:	POLE MOUNTED
CABINET MATERIAL:	ALUMINUM

0.9 SqFt

Total Sq. Ft. 4

NOTE:
POLE STRUCTURE TO BE
PAINTED Sw6992 INKWELL





SIDE A



SIDE B

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DRAWING SCALE: NTS	DATE CREATED: 00/00/22	DATE REVISED: N/A	REV_0

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter's Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-8

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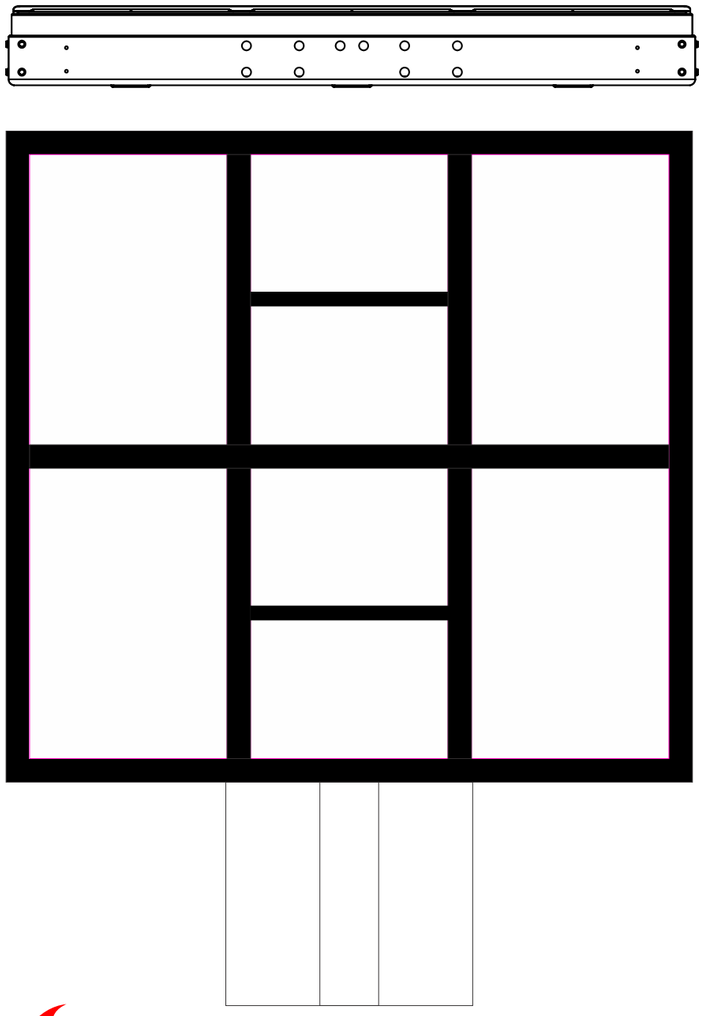
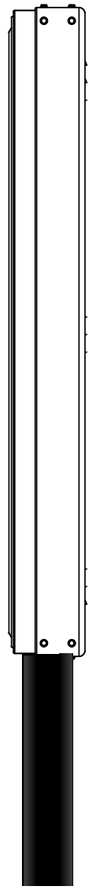
DETAIL VIEW - MENU BOARD DISPLAY

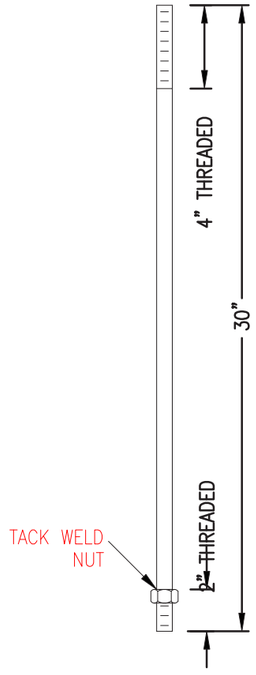
ILLUMINATED DRIVE-THRU SYSTEM:

- **LED LIGHTING**
- **MOUNTED TO EXISTING PIPE AND FOOTING AS SHOWN**
- **GRAPHICS ARE CHANGEABLE**

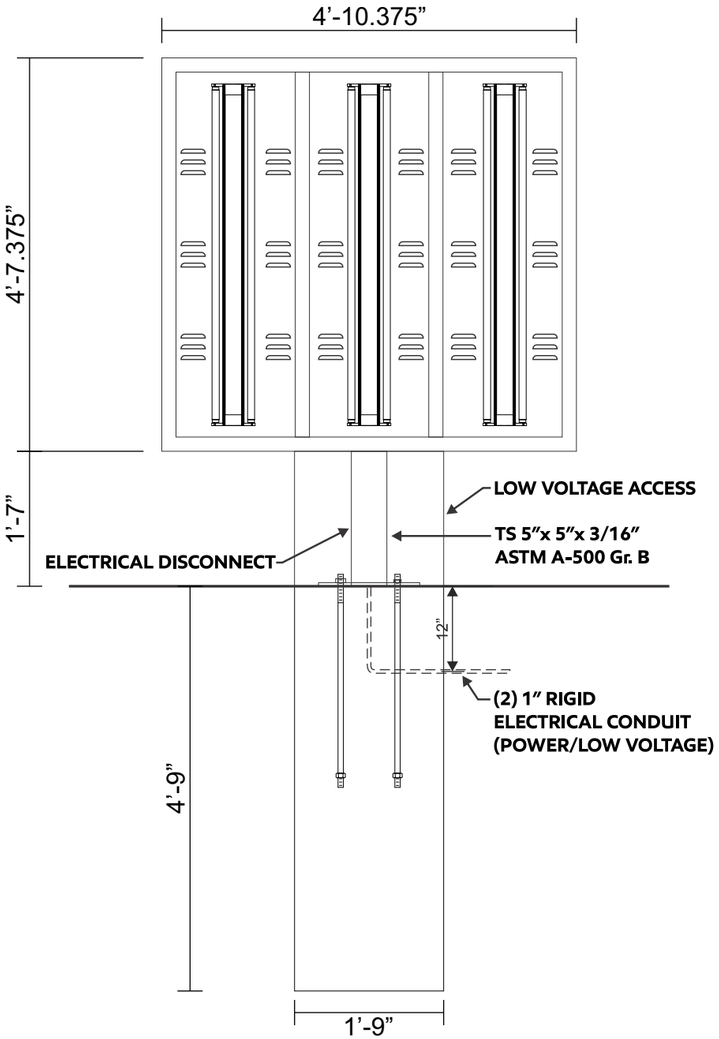
Installation Only

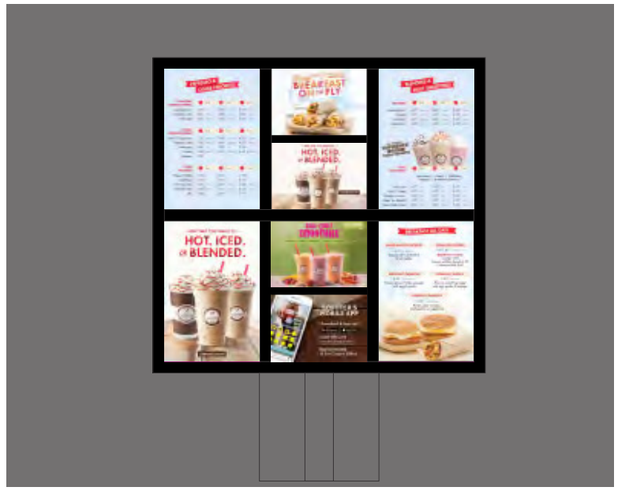


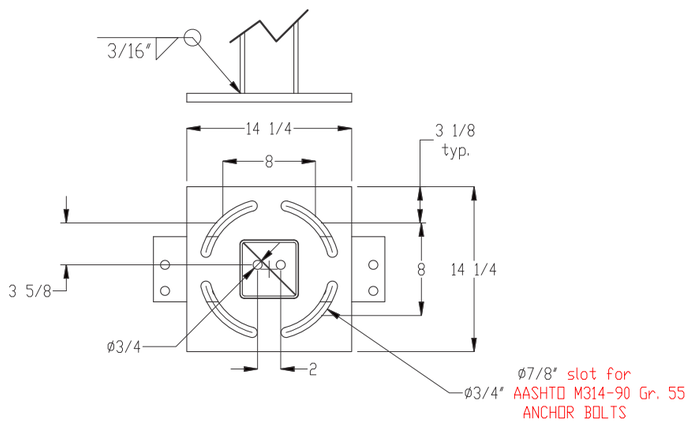




ANCHOR BOLT DETAIL
ø3/4" AASHTO M314-90 Gr. 2 STEEL
CAN USE EITHER STYLE ANCHOR BOLT







BASE PLATE DETAIL
3/4" ASTM A-36 STEEL

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DRAWING SCALE: 3/8”=1’-0”	DATE CREATED: 00/00/22	DATE REVISED: N/A	REV_0

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter’s Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-9

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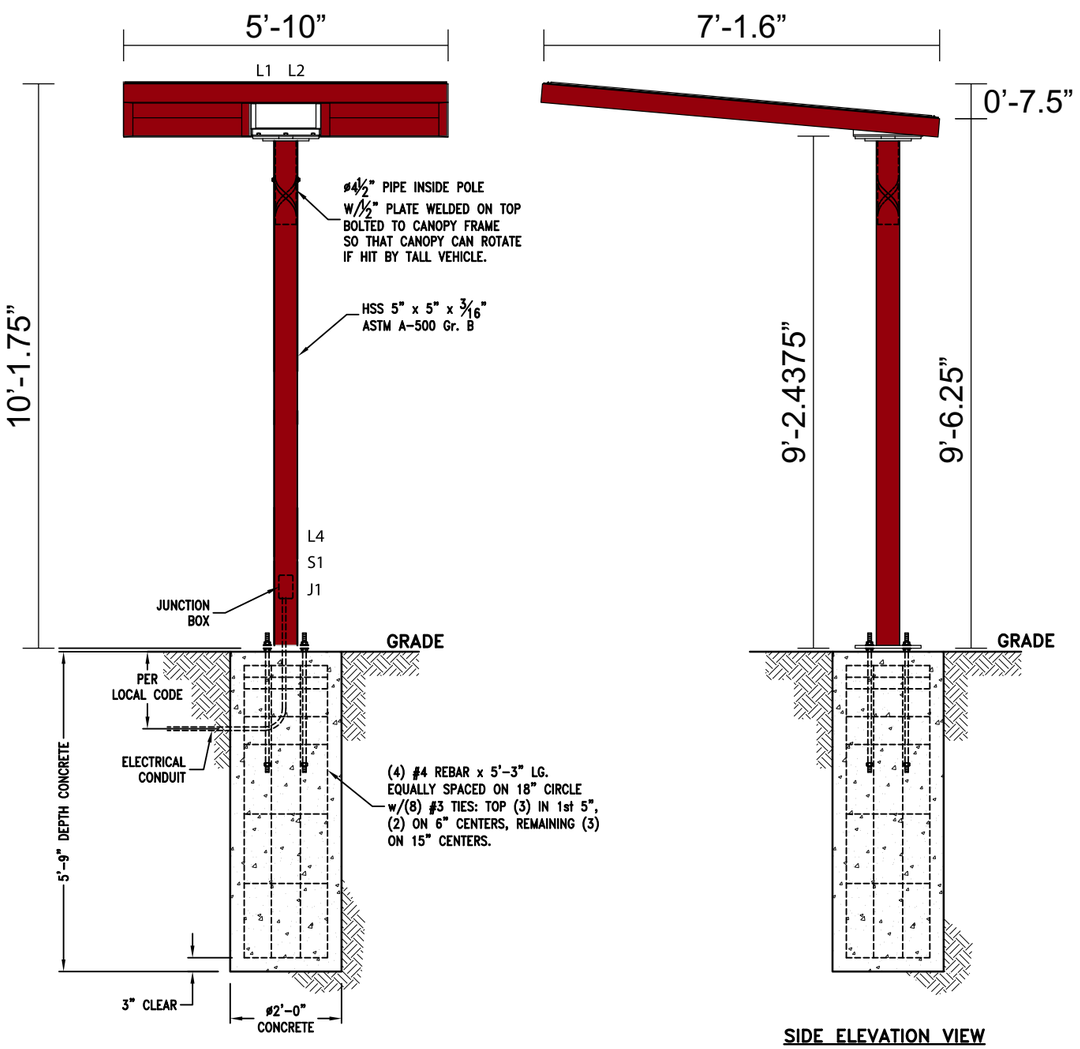
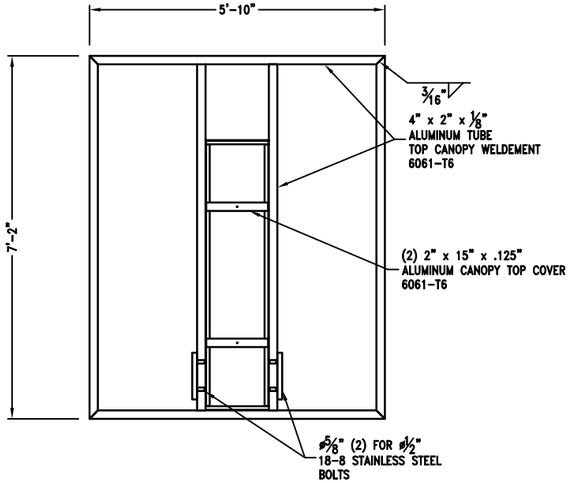
DETAIL VIEW - CLEARANCE BAR & MENU CANOPY

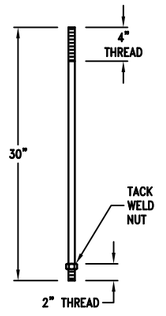
Installation Only



ELEVATION VIEW

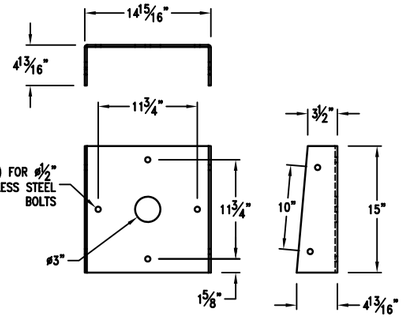
SIDE ELEVATION VIEW



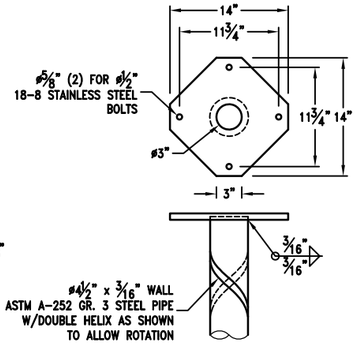


ANCHOR BOLT DETAIL
ø¾” ASTM F-1554 Gr. 36 STEEL

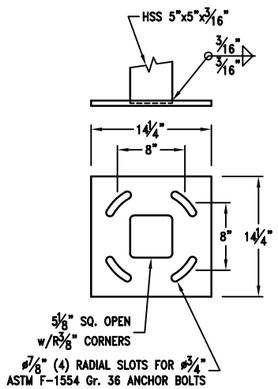




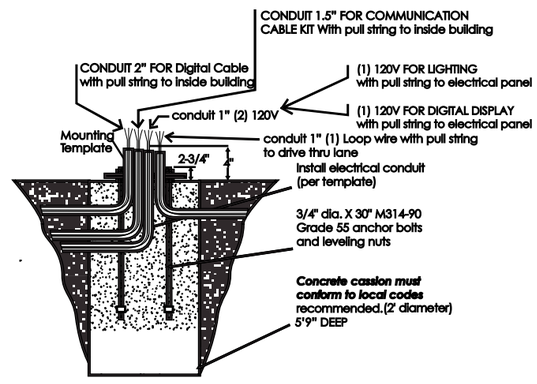
CANOPY TOP PIPE DETAIL
¼” ASTM A-36 STEEL



HELIX PIPE TOP PIPE DETAIL
½” ASTM A-36 STEEL



BASE PLATE DETAIL
⅝” ASTM A-36 STEEL



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DRAWING SCALE:	DATE CREATED:	DATE REVISED:	REV_0
Various	00/00/22	N/A	

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter's Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-10

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LED INTERNALLY ILLUMINATED CHANNEL LETTER/CABINET

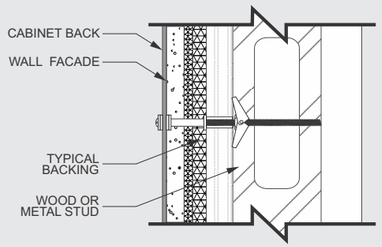
Quantity: 1

A

CHANNEL LETTER/CABINET: ATTACHMENT METHOD

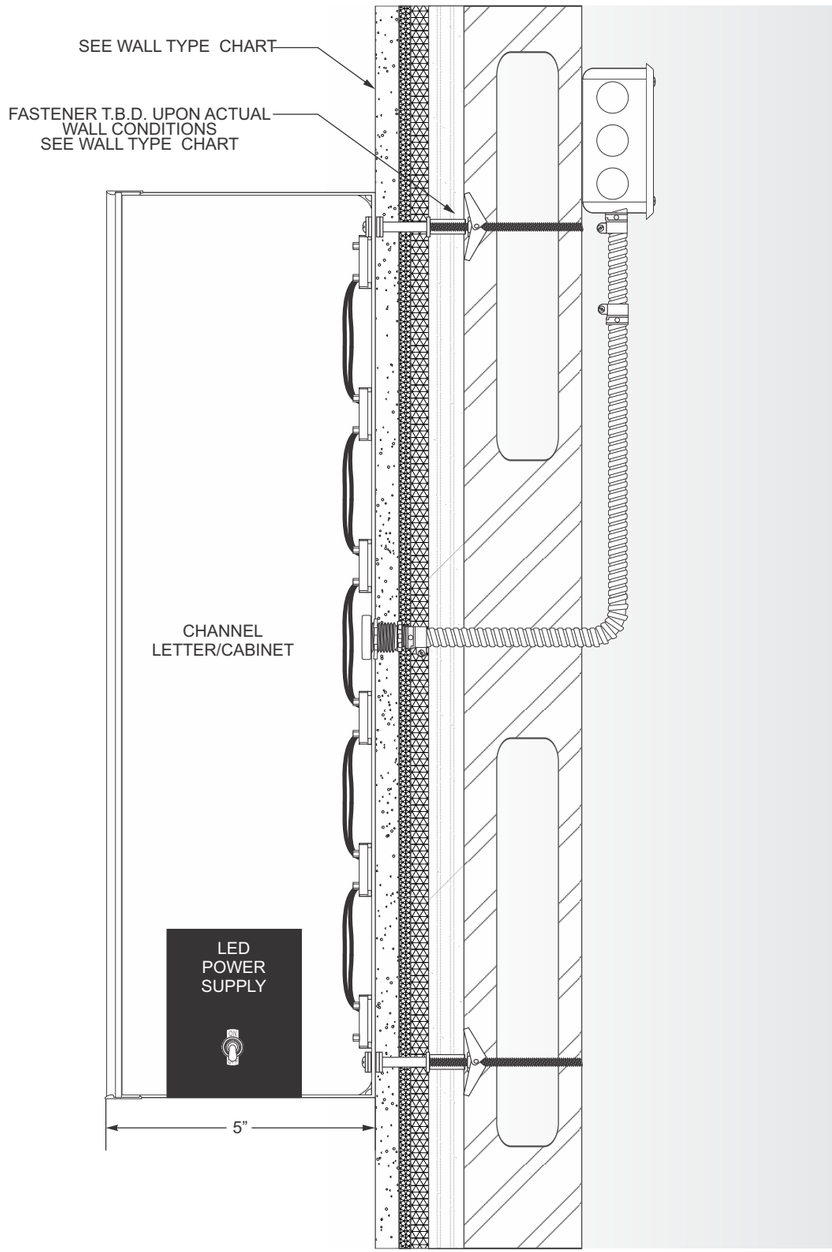
EST. 1998
SCOOTER'S
COFFEE

FASTENER SCHEDULE:
QTY-8 FASTENERS (SEE WALL TYPE CHART)
TYPICAL 8 PLACES

WALL TYPE	INSTALLS ON EIFS, WOOD, OR METAL FACADE
DETAIL SECTION	
FASTENER TYPE	APPROX. 3/8" X 5" TOGGLE BOLT

WEIGHT CALCULATIONS
28.54 SF x 5.0 lbs =
142.7 lbs

SQUARE FOOTAGE CALCULATIONS
5'-0" x 5'-8.5" =
28.54 SF



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DRAWING SCALE: Various	DATE CREATED: 00/00/22	DATE REVISED: N/A	REV_0

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter's Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-11

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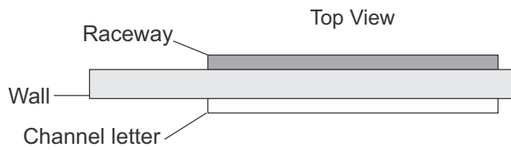
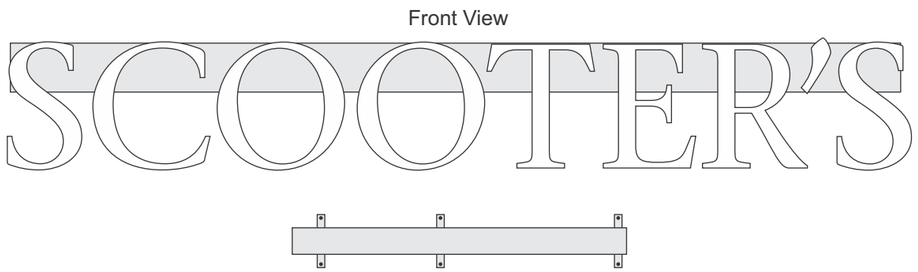
LED INTERNALLY ILLUMINATED CHANNEL LETTER/CABINET - RACEWAY MOUNT

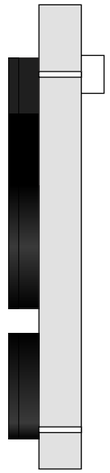
Quantity: 2

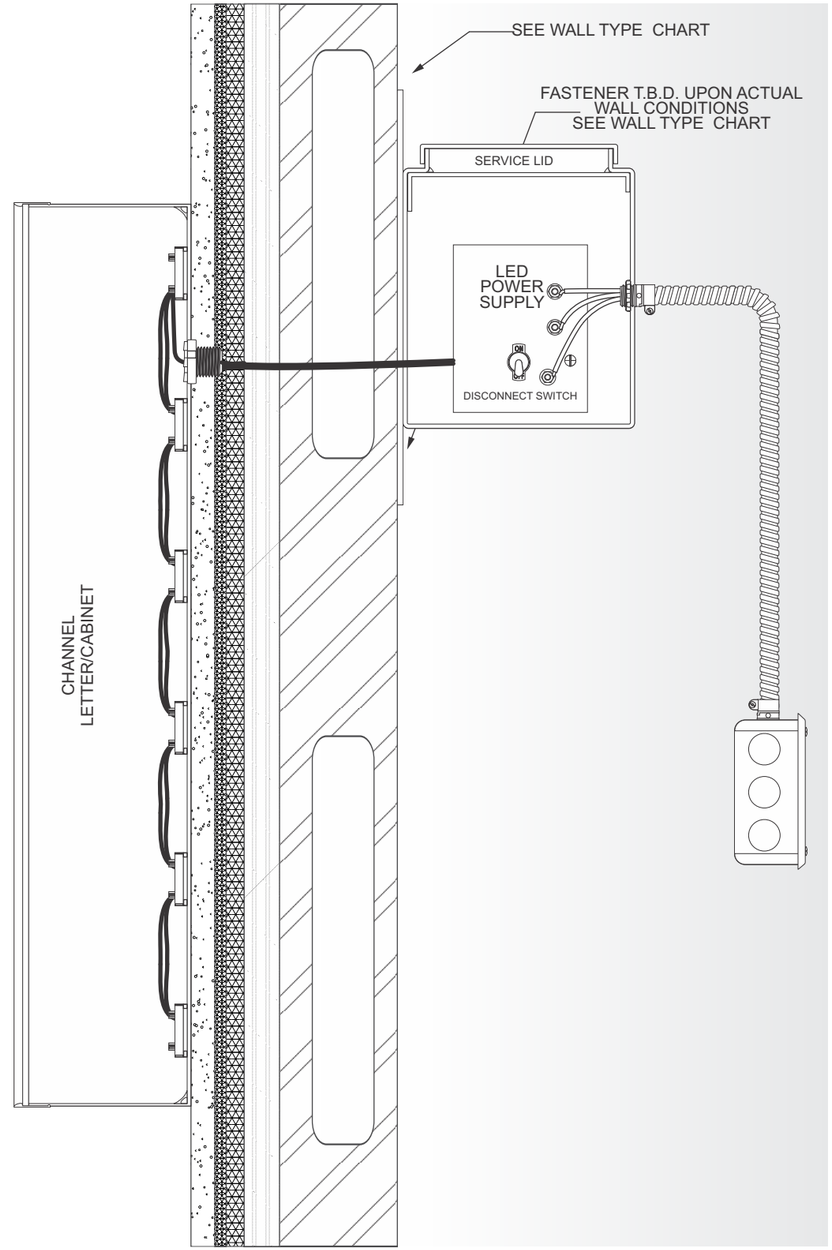
B

RACEWAY MOUNT CHANNEL LETTER/CABINET: ATTACHMENT METHOD



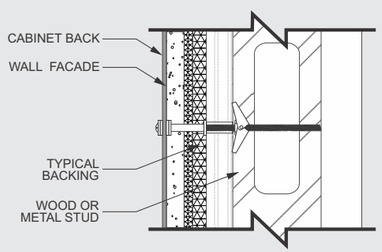






FASTENER SCHEDULE:
QTY-3 STRAPS WITH 2-EA FASTENERS (SEE WALL TYPE CHART)
TYPICAL 3 PLACES
MINIMUM (1) STRAP PER 8' SECTION

FASTENERS T.B.D. UPON ACTUAL WALL CONDITIONS

WALL TYPE	INSTALLS ON EIFS, WOOD, OR METAL FACADE
DETAIL SECTION	
FASTENER TYPE	APPROX. 3/8" X 5" TOGGLE BOLT

WEIGHT CALCULATIONS

45.68 SF x 2.22 lbs =
101.41 lbs

SQUARE FOOTAGE CALCULATIONS

2'-6" x 18'-3.25" =
46.68 SF

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This is an artistic rendition and final colors/sizes may vary from that depicted herein.

DRAWING SCALE: Various	DATE CREATED: 00/00/22	DATE REVISED: N/A	REV_0

SALES: Shaun Crawford | 800.845.9927
DESIGN: R HICKS
CLIENT: Scooter's Coffee # 2055
LOCATION: 1816 N REYNOLDS RD, BRYANT, AR 72022
DRAWING #: ao38745-12

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LED INTERNALLY ILLUMINATED CHANNEL LETTER/CABINET

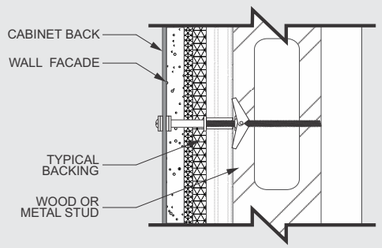
Quantity: 2

B

CHANNEL LETTER/CABINET: ATTACHMENT METHOD

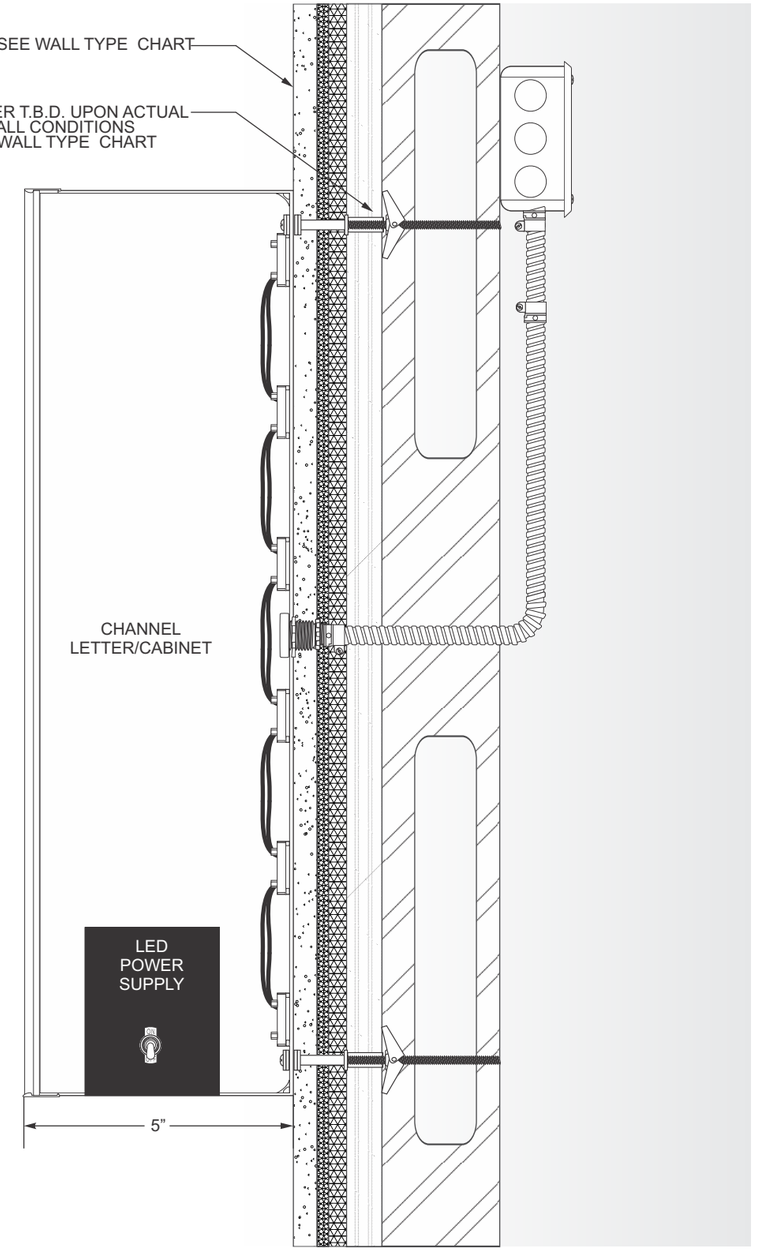
COFFEE DRIVE-THRU

FASTENER SCHEDULE:
QTY-38 FASTENERS (SEE WALL TYPE CHART)
TYPICAL 38 PLACES

WALL TYPE	**INSTALLS ON EIFS, WOOD, OR METAL FACADE**
DETAIL SECTION	
FASTENER TYPE	**APPROX. 3/8" X 5" TOGGLE BOLT**

WEIGHT CALCULATIONS
19.38 SF x 2.0 lbs =
38.76 lbs

SQUARE FOOTAGE CALCULATIONS
1'-1.25" x 17'-5.5" =
19.38 SF



SPRINGFIELDSIGN.com

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SPRINGFIELDSIGN

SIGN PURCHASE AGREEMENT

800.845.9927 springfieldsign.com

DESCRIPTION

This agreement, made and entered into this _____ day of _____ (month), 20 ___ (year), by and between Springfield Sign & Graphics, INC. d/b/a Springfield Sign (herein after referred to as Seller), and Buyer (as outlined below and labeled as Buyer) witnesseth, that the Seller agrees to manufacture for Buyer the sign(s) and/or other sign products/services as outlined in a separate E2 document as follows, QUOTE Number: _____ or other such unique document of description as follows:

CONTACT

BUYER:

COMPANY NAME: D/B/A:

BILLING ADDRESS: CITY: STATE:

JOB DETAILS:

COMPANY NAME: D/B/A:

BILLING ADDRESS: CITY: STATE:

FINE PRINT

All wiring on the premises to the site of the signs· installed location, including the connection of the sign to such primary wiring source is to be the responsibility of the Buyer, at additional cost to the Buyer, at the direction of the Buyer. as designed by the Buyer or Buyer's agents and, as necessary, all other aspects and expenses, as required, to bring primary electrical wiring to the sign's location for energizing of such signs. All voltages to be 120 Volt at 60 Hertz unless otherwise specified. Any damages caused by the energizing circuit to the sign or sign products due to improper design (including but not limited to improper voltages), improper connection thereof or any other causes related to the energizing primary circuitry will be solely and completely at the Buyer's risk and expense. Any additional work, trouble shooting in the field, by phone, by internet or otherwise required on behalf of Seller will be bi/Jed in addition to Buyer on a Time and Materials basis, at additional expense. All Permit fees/Engineering fees and labor/drawing costs for the acquisition thereof will be billed in addition to prices stated herein at additional expense unless specifically outlined in this document to be bi fled in another manner as described herein. Any required sales/use taxes are the responsibility of the Buyer, now and in the future as so levied by applicable governing authorities. All taxes are due and payable upon demand by Seller at or any time subsequent to the execution of this SIGN PURCHASE AGREEMENT. It is understood that taxes are in addition to the prices outlined in the SIGN PURCHASE AGREEMENT, E2 Quote or any other document outlining the signs, products or services for stated Job Location unless specifically and clearly outlined otherwise. It is expressly and undeniably understood by both Buyer (or Buyer's agents, subcontractors, salespersons, etc.) and Seller that no verbal agreement has been entered into. Both parties are to adhere to the terms and conditions of this SIGN PURCHASE AGREEMENT and related attachments as properly executed and initialed. Any governing entity outside the control of Seller, such as but not limited to, any applicable City/Municipalities, County Office/Agent, national codes (such as but not limited to NEC, BOCA, ETC.) with jurisdiction or control upon the product, labor (manufacturing or installation) or any issues, procedures or otherwise related to the execution of the terms, signs, sign products, services or otherwise, foreseen or unforeseen, may affect the costs and timely delivery of such products/services herein NOTICE: THIS IS A LEGAL DOCUMENT WITH BINDING OBLIGATIONS READ BOTH SIDES OF THIS INSTRUMENT BEFORE SIGNING, AS THE TERMS OF THIS SIGN PURCHASE AGREEMENT ARE SET OUT THEREON, The specific terms for payment may vary based on product types or other reasons, but it is expressly understood that PAYMENT IN FULL as outlined by this Agreement is due and must be paid PRIOR TO INSTALLATION OF SIGN PRODUCT, PARTS OR SERVICES. All outstanding balances over 30 days due are subject to a 2% per month (collectively compounding) Late Fee.

AGREEMENT

☐ Buyer's Guarantee to Build _____ (initials)

☐ Rejection of Buyer's Guarantee to Build _____ (initials)

BUYER:

I/We have read this entire agreement and agree to defend and hold harmless Seller as stated herein. ACCEPTED:

By: _____

PRINTED NAME: TITLE: DATE:

SELLER:

ACCEPTED:

By: _____

Mark Wessell, CEO
Springfield Sign
4825 E Kearney St
Springfield, MO 65803

1. DOCUMENT ATTACHMENT As allowed by this contract, other documents such as but not limited to E2 quotes, product specifications, manufacturer's specifications, etc. may be referenced in the area in the beginning of this Sign Purchase Agreement. These documents may have additional terms, conditions, pricing, restrictions, limitations or otherwise as describe by those written instruments, such as but not limited to LED (or other types) of electronic displays.

2. LIMITED WARRANTY Seller warrants all new materials and/or services delivered herein to be at time of completion of job and time of delivery, to Buyer, to be free from defects of material and/or workmanship. Seller agrees to repair or replace, solely at Seller's discretion, any products or parts thereof, which are found defective in material or workmanship within 90 days from time of installation of sign or sign product. Seller's obligation with respect to such products or parts shall be STRICTLY LIMITED to replacement or repair and in NO event shall Seller be liable for consequential, incidental or special damages, or for transportation, installation, adjustment or any other expenses which may arise in connection with such products or parts, including but not limited to loss of business or loss of trade. THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO OTHER WARRANTIES. Seller's obligations hereunder shall extend only to defects for which Buyer shall have given Seller written notice thereof within ninety (90) days after date of delivery or installation, as applicable. Buyer is NOT authorized to make independent arrangements for warranty work. All warranty work on said signs, products, parts, services, as described herein, shall be arranged or subcontracted by Seller or be done by Seller's employees or representatives, solely at the discretion of the Seller. In the event that Buyer does not permit Seller to inspect product, access property or in any other way directly or indirectly inhibits the Seller to arrange for or conduct necessary repair work required under this Agreement, or Buyer makes independent arrangements for such repair work, Buyer agrees that Buyer will be solely responsible for the costs of such repairs. In the event Buyer does not comply with the above, Seller hereby EXCLUDES ALL WARRANTIES, EXPRESS AND/OR IMPLIED, AND BUYER PURCHASES THE SIGN, SIGN PRODUCT AND/OR SERVICES "AS IS" and WITH ALL FAULTS, WAIVING ALL WARRANTIES HEREUNDER. Additional limitations include but are not limited to, acts of God, acts of nature, vandalism, acts of War or Terrorism and/or accidental damages.

3. INSURANCE As long as any amount of monies is due and owing to Seller, Buyer shall insure sign, sign products or services, in an amount no less than monies due Seller, and NAME SELLER in the loss payable clause of such insurance policy, strictly for the benefit of the Seller. Buyer further agrees to not limit the insured causes allowing for fire or any other casualty. Buyer shall furnish Seller with evidence of such certification of insurance, in writing from Buyer's insurance agent or agency, upon Seller's demand. Seller's certificate of insurance for liability/workers compensation shall be provided by Seller to buyer upon request from Buyer.

4. TAXES Buyer shall be responsible for and pay all taxes including but not limited to Sales, Use, Personal Property or any other municipal, county, state or federal taxes that may be levied, imposed or assessed by law on the sign product, parts or services or improvements thereon, or uses of such. Buyer agrees to reimburse Seller for any amount for such taxes, that may be billed to and paid by Seller. Any interests or penalties associated with any taxes as outlined herein will also be due and owing to Seller if so paid by Seller. These taxes, as allowed by law, may or may not be assessed at time of initial sale or delivery of sign product, parts or services and may continue forward in time without end.

5. PERMITS/LICENSES Seller shall not be obligated to commence fabrication of sign product, parts or services until all necessary permits have been issued. If permits are denied after reasonable effort by both parties to secure same, then this Sign Purchase Agreement shall terminate without liability to either Buyer or Seller, except that Buyer shall pay Seller for reasonable compensation for labor and costs expended until the time permits are denied. Buyer shall be responsible for securing and maintaining in effect written consent from the owner of record of the premises upon which sign product, parts or services is to be installed and for all other private permissions, consents or licenses, including but not limited to, the use of registered trademarks or copyrights used on the sign product, parts or services, necessary for the manufacture, the installation, maintenance and use of such. The only exception to this will be if the **Buyer's Guarantee to Build** check box at the beginning of this Sign Purchase Agreement is checked. The terms and conditions for this, briefly being stated herein, shall GUARANTEE FULL PAYMENT TO SELLER with no guarantee to Buyer that the sign product, parts or services will be utilized to any benefit of the Buyer. Buyer will be obligated to pay the full contract price, including installation and will have to make arrangements for receipt of, off loading of and storage of sign product, parts or services with no future claims for installation, service or maintenance of such from Seller. The **Buyer's Guarantee to Build** is strictly offered to allow manufacturing of sign product, parts or services to proceed WITHOUT the proper permits obtained. It in no way obligates Seller to be adverse to the law for installation (without permits) of sign product, parts or service.

6. INSTALLATION OF SIGN PRODUCT Buyer agrees to and stipulates that Buyer has designated the location for the sign product, parts or services and subsequent installation of such and is responsible for all required materials, labor and any other associated expense, at Buyer's risk, for the necessary requirements for proper, obstruction free and/or lawful installation. Obstructions, obstacles or other encumbrances, includes but is not limited to building reinforcement, building or site alterations, all obstacles as required for successful, safe, lawful installation including but not limited to overhead (power lines, buildings, trees or other encumbrances), underground (such as utilities, easements, rocks, buried objects natural, man made or otherwise), landscaping, sidewalks, planters, asphalt, concrete or any other such improvements, construction crews other that Seller's or Seller's agents or Buyer's normal business traffic, Seller will not be responsible for any damages for such items during the normal installation process. Any return trips or delays or overtime charges incurred will be passed on to Buyer at Buyer's expense.

7. ASSIGNMENT This Agreement shall be binding and inure to the benefit of the parties hereto, their respective successors, executors, administrators, assigns and legal representatives; provided, however that the interests of Buyer herein shall be assigned only with the expressed, written consent and approval of Seller. No transfer or assignment of this Agreement or any interest hereunder shall release Buyer from their obligations herein.

8. DEFAULT OR BREECH OF AGREEMENT The parties stipulate that the sign product, parts or services is(are) not an article of general trade or utility but is uniquely designed and is to be constructed and/or installed at the request and for the sole and special purposes of Buyer. The sign product, parts or services is of no value to Seller, and therefore, has no resale or other value to anyone other than Buyer, this Agreement is not cancelable except with expressed written permission of the Seller. Buyer shall be deemed to have breached this Agreement by insolvency, default in payment amounts or schedules as set forth herein, abandonment of the sign product, parts or services or vacating the premises where such is located, termination or transfer of Buyer's interest in the premises or business, appointment of a receiver for Buyer's business, the filing of a voluntary or involuntary petition of bankruptcy with respect to Buyer, or any act or omission of Buyer in contravention to this Agreement. In addition to Buyer's other obligations hereunder, in the event Seller shall institute any action or lawsuit for the enforcement of the obligations of Buyer herein, Buyer shall pay and indemnify Seller for all costs of court, reasonable attorney's fees expended, interest expenses of 2% per month or as allowed by law whichever is more, collection fees, administration fees, and, pay Seller all amounts awarded by the court as a result of such proceedings. Buyer's breach of any provision in any other Sign Purchase Agreement or other instruments as put forth by Seller or Confirmation of Order with Seller shall also be deemed to be a breach hereunder, and Seller may suspend its performance and delivery under this and all other agreements with Buyer until Buyer provides Seller with adequate assurance of performance within a reasonable time, not exceeding ten (10) days, after Seller has informed Buyer orally or in writing, of its grounds for insecurity.

9. COPYRIGHTS, TITLE & CONVEYANCE OF OWNERSHIP Seller specifically retains ownership and/or title of sign product, parts or services until Buyer has performed and fulfilled all terms and conditions required by Seller, herein, or as otherwise allowed by law to Seller's benefit. Buyer also, conveys to Seller the absolute right to access property to remove sign product or parts from said property, should any default arise on Buyer's behalf, and, to pay for all necessary costs for removal and possible subsequent re-installation of said product at expense in addition to that outlined herein, solely at Buyer's risk and expense. Buyer agrees and will defend same that Seller shall at all times have title to all original drawings, designs and specifications relating to the work hereunder, which were developed or created by or on behalf of Seller, and Seller hereby claims copyrights, where applicable, of all such drawings, designs and specifications. Payment of all or part of any amounts hereunder does not pass title to the "original drawings, designs, specifications" of said sign product, parts or services, although the same may be reproduced with the expressed written consent of Seller. Buyer shall, upon request of Seller, promptly return all such drawings, designs and specifications, and copies thereof, to Seller during all times which Buyer owes Seller any amounts hereunder. Buyer agrees that Seller has specific legal rights in the form of Copyrights or other instruments given by law to Protect and does hereby declare Seller's ownership of all drawings artwork and the like during and after the terms of the Agreement herein.

10. MANUFACTURING SPECIFICATIONS/INDUSTRY STANDARDS Buyer understands and agrees to allow Seller, solely at Seller's discretion to make modifications for and conforming to Seller's standard manufacturing practices. It is also understood by Buyer, that no color, shape, dimension or any other specific feature of said sign product, parts or services is guaranteed absolute. As practical examples absolute color matches or dimensions are not guaranteed and will be allowed reasonable differences within industry standards. Buyer agrees that Seller may mark and label sign for legal, national code, electrical, manufacturing, advertising or other requirements and purposes as is reasonably necessary to conduct day-to-day business as allowed or required in the industry and for Seller's own satisfaction and benefit.

12. SUBJECT TO PRIOR SALE Used sign products, new or used products offered for resale from other manufacturers, such as but not limited to electronic displays may be subject to prior sale affecting price and or delivery times to Buyer. Seller will not be responsible for any consequences related to such issues. This includes promotional or sales or any other type of proposal made to customer, Seller has no authority or control over other manufacturers and Seller employ's numerous sales agents all of whom may be promoting the same sale item, thus depleting any available inventory.

13. CHANGE ORDERS Any alteration, deviation and/or reasonably significant variance from the scope of work, construction or labor or otherwise from the sign(s) or products or services as outlined herein, including all extra costs, hereafter called Change Order, will be executed only upon written orders and may become an additional charge over and above the price stated herein. Any such Change Order requested by Buyer must be agreed to by Seller, in writing and solely at the discretion of the Seller. It is understood that any Change Order could necessitate the need for a price increase, an extension in the time required to complete the work outlined herein or any other reasonable and necessary charges, terms, conditions, equipment or the like as so required to execute the Change Order.

14. SUSPENSION OF MANUFACTURING Any request or event or otherwise required by Buyer to delay, suspend, cancel or otherwise impede the manufacture, delivery and/or installation of said sign product, parts or services, for any reason or occurrence out of the control of Seller, then Buyer shall immediately pay the full purchase price or any amount remaining and due to Seller. Furthermore, upon such request, Buyer shall be solely responsible for storage charges and any increases in labor and/or material costs incurred by Seller in the manufacturing process. Buyer's failure to comply with this provision will be deemed and construed as an anticipatory breach of this Agreement. In the event Buyer complies with the foregoing, Seller will complete the manufacturing, delivery and/or installation within a reasonable period of time upon reasonable request of Buyer.

15. SECURITY INTEREST Buyer grants Seller a SECURITY INTEREST in the sign product, parts and/or services until all obligations to Seller, hereunder are fully paid. Seller may file and record this Agreement as a financing statement under Chapter 400 of the Missouri Uniform Commercial Code Section 400.9-521, in addition to any other permitted standard or nonstandard forms. If Buyer shall fail to pay as agreed to herein, Seller (or Seller's agents or representatives) shall have the right, and will be defended by Buyer, and is hereby authorized and empowered to take and resume possession of and remove into Seller's possession, with or without process of law, the sign product, parts or services and all other property described herein, wherever found, and remove and sell the same at either public or private sale, or by any other viable method, as deemed solely by Seller, at such time and place as Seller shall choose, and as allowed by law. Seller shall apply the proceeds of such sale as a credit upon the obligations of Buyer hereunder. In such event, Seller is entitled to recover all expenses of sale, including any reasonable attorney's fees necessary in handling the matter, without prejudice to Seller to the further enforcement of any balance of such obligation due Seller by Buyer, or expenses remaining due from such sale. In the event the proceeds of such sale exceed the balance of Buyer' obligation to Seller and the expenses of such sale, Seller shall forward any such excess to Buyer. Buyer shall not use said sign products as to lessen the value of Seller's SECURITY INTEREST or impair the operation of said sign product, and in the event the sign product is damaged through the intentional acts or willful negligence of Buyer, Buyer's customers, its agents or employees, contractors or third parties, or by wind, hail, earthquake, fire, war, tornado, hurricane, flood, labor dispute, vandalism, acts of God or acts of nature, Buyer agrees to pay for the necessary expenses to restore said sign product, part or services in operable condition. After delivery and/or installation, whichever is contracted for, in the event the sign product is lost, stolen, destroyed, or otherwise impaired, Buyer shall remain liable to Seller for all amounts hereunder, UNTIL BUYER'S OBLIGATIONS TO SELLER ARE FULLY SATISFIED HEREUNDER, THE PROPERTY DESCRIBED HEREIN WILL REMAIN PERSONAL PROPERTY OF SELLER WHETHER THE SAME IS ATTACHED IN ANY MANNER TO THE REALTY OR NOT. SAID PROPERTY SHALL NOT, BY REASON OF ATTACHMENT OR CONNECTION TO THE REALTY, BECOME OR BE DEEMED A FIXTURE OR APPURTENANT TO SUCH REALTY. No transfer, renewal, extension, or assignment of the Agreement or of any interest hereunder, and no loss, damage or destruction shall release Buyer or any Guarantor from the obligations assumed hereunder. During all times in which Buyer is obligated for any amounts to Seller hereunder, Buyer shall keep said property free from all tax liens and other encumbrances, and any sum of money that may be paid by Seller to release any such liens or encumbrances shall be paid on demand by Buyer in addition to the obligations secured hereunder.

16. WAIVER OF CONSUMER RIGHTS

17. DELIVERY AND PERFORMANCE Seller shall not be held responsible for, and the period of time required for completion of any project or maintenance or repairs, shall be tolled during any time when Seller is delayed or prevented from completing the obligations hereunder because of strikes, equipment breakage, fire, war, terrorism, labor disputes, commercial delays, acts of God/nature, regulations or restrictions of any government entity or public authority, or any accidents or forces, conditions, or circumstances beyond Seller's control, and Seller shall not be liable for any loss whatsoever suffered by Buyer, directly or indirectly, as a result of any such events or occurrences. Buyer agrees to examine and inspect all installations, repairs, and maintenance, and within ten (10) days, notify Seller in writing of any complaints about work performed under this Agreement. The failure of Buyer to give such written notice shall constitute acceptance of the work performed. The provisions of the paragraph shall not be limited by any provision in which time is made of the essence. Notwithstanding anything in this Agreement to the contrary, if at any time prior to completion of this Agreement Seller's prospects for payment are, in Seller's sole discretion, impaired, Seller may require payment in advance before permitting delivery or any installation or services hereunder, and may demand Buyer's immediate performance of Buyer's obligations hereunder. If requested by Seller, Buyer shall furnish evidence, satisfactory to Seller, prior to commencement of Seller's work hereunder or at any time thereafter, that sufficient funds are available and committed to pay the full amount owing by Buyer under this Agreement.

18. STATE OF JURISDICTION/SEVERABILITY/MISCELLANEOUS All representatives of Seller are stipulated and specified in this Agreement. No modifications hereof shall be valid unless made in writing AND agreed to, AND signed by both Seller and Buyer. No waiver by either party hereto shall be a waiver of any subsequent breach of or failure to perform the same or any other term, condition, or obligation hereof. It is agreed by both parties hereto that venue of any action arising under the Agreement shall be in Greene County, Missouri and the laws of the State of Missouri shall govern this Agreement. Should any part of this Agreement contravene public policy or laws of the jurisdiction in which it is sought to enforce the same, then such part shall be considered null and void and have no force and effect, and the balance of the terms and conditions of this Agreement shall remain valid and in full force and effect. Buyer expressly grants Seller the right to use photographs, drawings or other replicas of the sign product specified herein in its brochures, pamphlets, displays, sales documents or other advertising or promotional media in the ordinary course of business of Seller. Seller may place on the sign product its name, telephone number and location of such information, as shall be determined by Seller and solely by the Seller. Buyer agrees that Buyer is purchasing said sign product for business or commercial purposes or use and not for personal, family or household use or purposes. In regard to payment of any amount due hereunder, time is of the essence.

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October 12, 2022

City of Bryant
Community Development
210 SW 3rd Street
Bryant, AR 72022

RE: ***Target Building Signage and Drive Up Parking Variance Application***

Mr. Leonard:

Please accept this justification letter in response to the City of Bryant's sign variance application, revised parking layout, and front walk/site sustainability improvements.

Building Signage and Exterior Improvements

The applicant is seeking a variance in the number of signs allowed per street frontage (Section 3.04 – Signs in Commercial C-2 District). The building is situated on a corner lot, allowing for one additional sign on the east frontage of the building, facing Mt. Carmel Road.

Target is proposing 4 signs on the frontage of the building facing northwest toward Mt. Carmel Road. The store currently has one large bullseye sign with "Target" underneath and a CVS Pharmacy sign. The proposed signage on the front of the building includes the following:

- 13'-0" bullseye	132.73 sf
- 1'-2" "Order Pickup" sign	24.59 sf
- "Drive Up" sign with 24" letters	77.10 sf
- CVS Pharmacy sign (existing to remain)	36.62 sf
	271.04 sf total

Section 3.04 of the signage code for Commercial C-2 districts allows for two square feet per one linear foot of building façade. The front of the building is approximately 404' in width, allowing for 808 square feet of total sign area. The proposed sign area is well below this threshold at approximately 271 square feet. The additional "Drive Up" sign is intended to be used as a wayfinding sign to direct customers utilizing the drive-up service to the correct location within the parking lot. The proposed "Order Pickup" sign near the entrance of the building is intended to direct customers to the front entrance for order pickup. Target has found that including these signs reduces customer confusion and circulating the parking lot, reducing the potential for collisions or other incidents. The existing CVS Pharmacy sign is intended to remain in place. All signs are of high quality and are intended to maintain a subtle but effective presence.

The east side of the store will also include one bullseye with "Target" sign (195.7 sf). The street frontage along the eastern side of the building is 347'-5" yielding an allowable signage area of approximately 695 square feet; the proposed signage area is well within the limits at approximately 196 sf. This sign is allowable as stated in Section 3.04 of the signage code for buildings fronting multiple streets.

In addition to the building signage, the proposed façade improvements include the installation of EIFS panelling along the front and east side of the store frontage.

Drive Up Parking Modifications

Target is proposing relocating and expanding the existing Drive-Up area including wayfinding signage. Wayfinding signage on the building is desired to give Target patrons an easy and identifiable location to pick up their online orders. As part of Target's "Drive Up" program, they are expanding the number of stalls at this store location. Along with expanding the total number of stalls, the drive up location is being relocated and a curb ramp installed to align with a proposed doorway from the building utilized by team members (doorway under separate permit). The relocation is proposed to provide a safer and more direct route for team members.

Exterior Site Sustainability and Front Walk Modifications

The existing parking lot islands contain mostly mulch and an unsustainable sod mix. Target is proposing to improve the planting materials within the parking lot islands, replacing the existing planting material with groundcover plant material to reduce urban heat island effect, amend soil in landscape area near critical root zone to create a healther environment for tree species, and encourage pollinators prosperity. The design impact is anticipated to reduce CO2 with site vegetation and intercept additional rainwater runoff.

In addition to the revised planting within the parking lot, Target is proposing to improve a portion of the front entry walk with the installation of cart storage, bike racks, and benches with planter walls and plantings. Plans and a narrative for the site sustainability are provided with this submittal.

Additional Site Lighting – Drive Up Area

As part of the Drive Up expansion, the applicant is proposing to install two additional site lights for employee and customer safety in the drive up area. The proposed site lights will match existing site lights on site in type, size, color, and finish. Preliminary lighting plans are provided with this submittal.

Should you have any questions or require additional information, please do not hesitate to contact me at christian.jones@kimley-horn.com

Sincerely,



Christian Jones, P.E.
KIMLEY-HORN AND ASSOCIATES, INC

T2204 Bryant, AR

09.23.2022 | Exterior Site Sustainability | Haley Maitre

Summary:
The Bryant design focuses on promoting biodiversity, while stewarding in the natural heritage of the central Arkansas region and maintaining a high-level of guest experience. With the implantation of native vegetation, pollinators are supported through the supply of additional food and shelter. Native plants are the best foundation for diversity and ecological growth within a community. Native plants are also more likely to establish quickly and provide year-round beauty. Cleaner air is also a byproduct of species restoration, as plants absorb the carbon dioxide emitted by cars. These native species showcase horticultural appeal at the front of each store and add economic value through the transformation of a parking area.

Site Challenges:
- Existing plant material lacks diversity and abundance within the parking islands
- The reoccurrence of plant species creates a mono-culture and the subsequent lack of bio-diversity is not beneficial to pollinator species
- Existing parking islands consist of mostly mulch and an unsustainable sod mix

Design Response:
- Add groundcover plant material to reduce urban heat island effect and encourage pollinators prosperity
- Amended soil in landscape areas near critical root zone to create a healthier environment for the tree species
- Convert the turf area in the large linear landscape island to a regenerative landscape area.

Design Impact:
- Total Amended Soil Area: 18,276 SF
- Total Number of Parking Island Modified: 28
- Total Amount of CO2 Sequestered Annually by Site Vegetation: 7,780 lbs of CO2
- Runoff Intercepted by Site Vegetation: 57,800 gallons/year

Recommendations & Future Opportunities: Low to Medium Scope
- Utilize areas within landscape islands as potential rain gardens and stormwater filtration efforts
- Install additional landscape islands to minimize existing paving field and reduce the urban heat island effect
- Increase pollinator garden species in sodded perimeter areas to increase sustainability, biodiversity, and aesthetic qualities
- Add landscape islands at catch basins to mitigate stormwater and improve water quality.

FRONT WALK AND EXTERIOR SITE SUSTAINABILITY PLANS
FOR
T-2204 BRYANT, AR

PROJECT TEAM:

LANDSCAPE ARCHITECT / LANDSCAPE ARCHITECT OF RECORD
KIMLEY-HORN AND ASSOCIATES, INC.

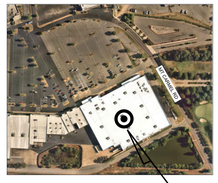
PREPARED BY: RYAN A. HYLLESTED, PLA, ASLA / LEAH CAMPBELL, PLA
767 EUSTIS STREET, SUITE 100
ST. PAUL, MN 55114
TELEPHONE (651) 645-4197

CONTACT: HALEY MAITRE, PLA
817 W PEACHTREE STREET, SUITE 601
ATLANTA, GA 30308
TELEPHONE (470) 681-6496

ARCHITECT
THOM LASLEY ASSOCIATE AIA
ASSOCIATE PRINCIPAL
TELEPHONE: (882) 200-0349
FAX: (651) 587-7614

OWNER / DEVELOPER
TARGET

CONTACT: ALLYSSA KUSESKE, PE, LEED AP
50 S 10TH STREET, STE 400, TP3-1110
MINNEAPOLIS, MN 5540
TELEPHONE: (612) 322-1872



VICINITY
N.T.S.



Sheet List Table

Sheet Number	Sheet Title
L000	COVER SHEET
L001	GENERAL NOTES
L100	DEMO PLAN - FRONT WALK
L101	DEMO PLAN - EXTERIOR SITE
L200	SITE - FURNITURE PLAN
L201	SITE - FURNITURE DETAILS
L300	LANDSCAPE PLAN - FRONT WALK
L301	LANDSCAPE PLAN - EXTERIOR SITE
L302	LANDSCAPE NOTES AND DETAILS
L400	IRRIGATION PLAN - FRONT WALK

NOTES:

1. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
2. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A ARCH full bleed E (36.00 x 48.00 Inches) SHEET.
3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

ULTRA-LOW SCOPE DEFINITION:

- ENHANCE EXISTING LANDSCAPE AREA - APPROXIMATELY 8,000 - 10,000 SQFT
- ASSESS EXISTING VEGETATION HEALTH
- DEMOLITION OF NON-NATIVE AND/OR UNHEALTHY PLANTS
- ADD GROUND LEVEL PLANT MATERIAL TO REDUCE HEAT ISLAND EFFECT AND ENCOURAGE POLLINATORS AND BIRD HABITAT
- ADD CANOPY TREES WITHIN THE EXISTING PARKING LOT MEDIANS
- PROVIDE IRRIGATION PERFORMANCE SPECIFICATION TO EVALUATE ADEQUATE WATER FOR NEW LANDSCAPE MATERIAL
- CREATE CURB CUTS TO FACILITATE STORMWATER MITIGATION WHERE APPLICABLE

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

COVER SHEET

L000

9/23/2022

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS FROM AVAILABLE RECORD PLANS PROVIDED BY THE OWNER. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT AT THE TIME OF PLAN PREPARATION AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE LANDSCAPE ARCHITECT. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE LANDSCAPE ARCHITECT.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

10. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT AND OWNER.

EROSION CONTROL NOTES

1. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

2. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

3. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

4. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

6. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

7. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS IS PRACTICABLE.

8. ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.

10. EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT.

11. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE AUTHORITY HAVING JURISDICTION (AHJ) ENGINEERING DIVISION.

GRADING AND DRAINAGE NOTES

1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY LANDSCAPE ARCHITECT IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT.

3. CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.

4. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.

5. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

6. THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.

9. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.

10. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.

11. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

12. ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.

13. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

14. CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

PAVING AND STRIPING NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR WISDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND CITY STANDARDS.

3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, SIGNS, AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS.

4. ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.

5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.

7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.

8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.

9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.

10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.

11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

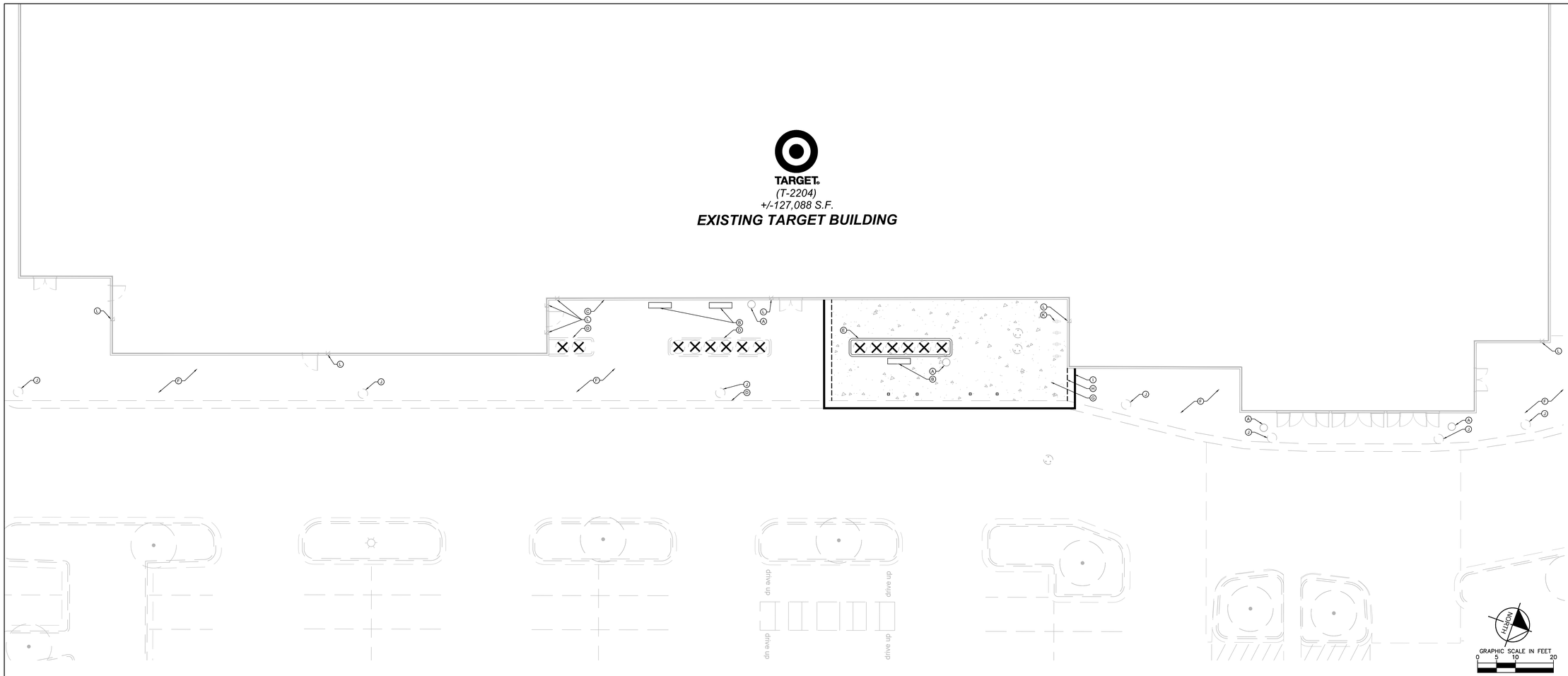
TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

GENERAL NOTES

L001



1 DEMO PLAN

SCALE: 1"=10'

L100

DEMOLITION PLAN NOTES

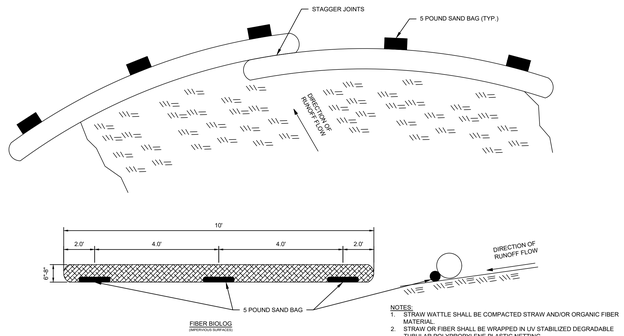
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES WITHIN ALL AREAS OF PROPOSED WORK.
4. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS ANY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PRECEDING WITH THE WORK.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH THE CITY OF MANSFIELD, RICHLAND COUNTY AND O/DOT.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ALL PROPERTIES IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING CONSTRUCTION.
8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
9. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. ALL UTILITIES SHOWN ARE EXISTING UTILITIES.
11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ANY EXISTING DRAINTILE IS ENCOUNTERED ON SITE. NO ACTIVE DRAINTILE SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.

KEYNOTE LEGEND

- (A) REMOVE TRASH RECEPTACLE (TYP.)
- (B) REMOVE BENCH (TYP.)
- (C) BUILDING CURB TO REMAIN (TYP.)
- (D) CONCRETE CURB TO REMAIN (TYP.)
- (E) REMOVE CONCRETE CURB (TYP.)
- (F) CONCRETE SIDEWALK TO REMAIN (TYP.)
- (G) REMOVE CONCRETE SIDEWALK (TYP.)
- (H) SAWCUT LINE (TYP.)
- (J) FIBER BIO-LOG
- (J) SPHERICAL BOLLARD TO REMAIN (TYP.)
- (K) REMOVE BIKE RACK (TYP.)
- (L) SECURITY CAMERA TO REMAIN (TYP.)

LEGEND

EXISTING	REMOVALS	
		PROPERTY LINE (TYP.)
		CONCRETE SURFACE (TYP.)
		FULL DEPTH SAWCUT (TYP.)
		TREE (TYP.)
		LIMITS OF CONSTRUCTION (TYP.)
		CURB & GUTTER (TYP.)
		WATERMAIN (TYP.)
		SIGN (TYP.)
		STORM MANHOLE (TYP.)
		STORM CATCHBASIN (TYP.)
		ROOF DRAIN (TYP.)
		HYDRANT (TYP.)
		LIGHT POLE (TYP.)
		SPHERICAL BOLLARD (TYP.)
		CYLINDRICAL BOLLARD (TYP.)
		BENCH (TYP.)
		TRASH RECEPTACLE (TYP.)
		BIKE RACK (TYP.)
		BUILDING CURB (TYP.)
		TABLE (TYP.)
		CART STORAGE (TYP.)



NOTES:
1. STRAW WATTLE SHALL BE COMPACTED STRAW AND/OR ORGANIC FIBER MATERIAL.
2. STRAW OR FIBER SHALL BE WRAPPED IN UV STABILIZED DEGRADABLE TUBULAR POLYPROPYLENE PLASTIC NETTING.

2 FIBER BIO-LOG

SCALE: N.T.S.

L100

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Date	No.	Description
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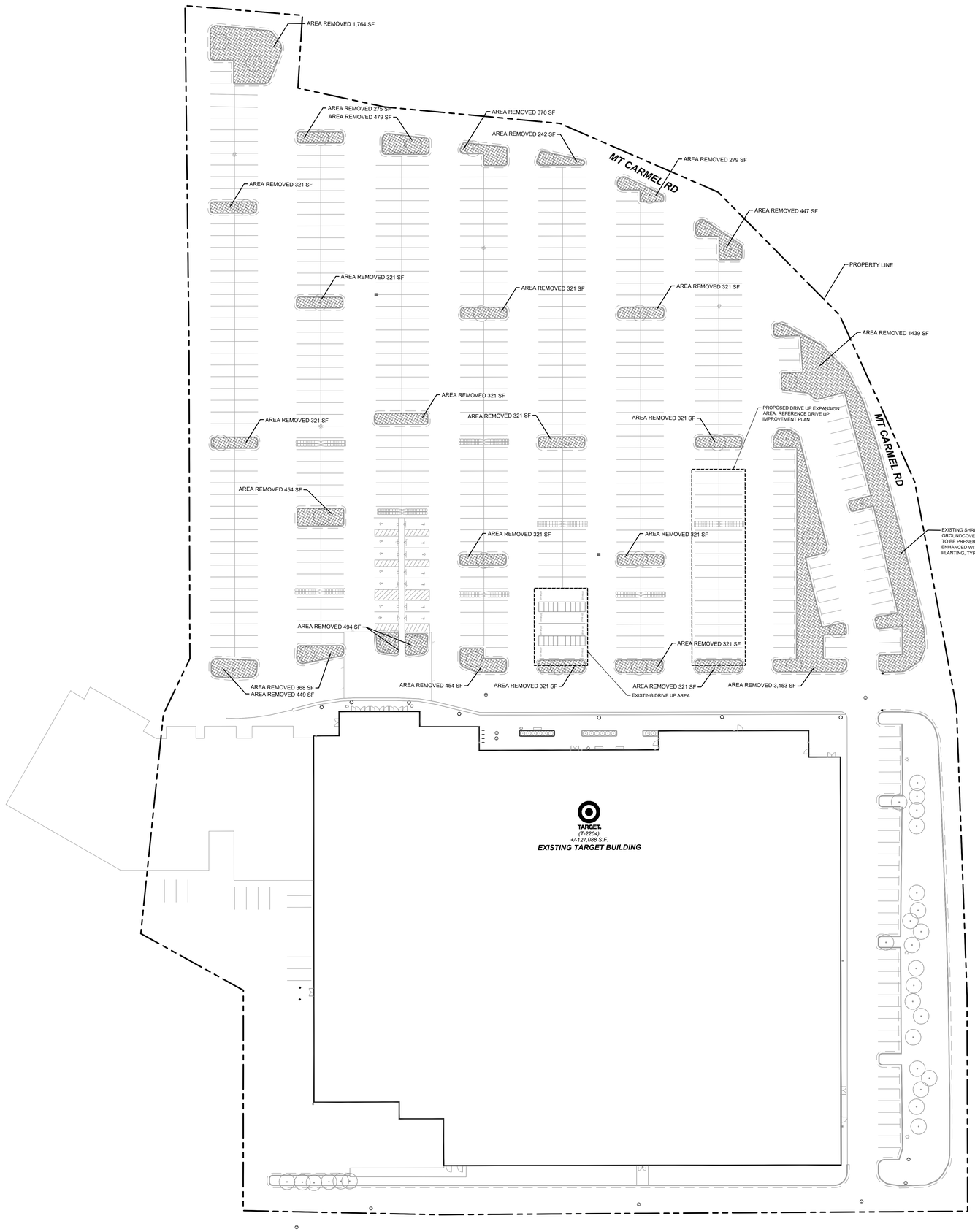
TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

DEMO PLAN
FRONT WALK

L100



TARGET
(T-2204)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER PLANTS TO BE REMOVED = **18,276 SF**
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

GRAPHIC SCALE IN FEET
0 15 30 60

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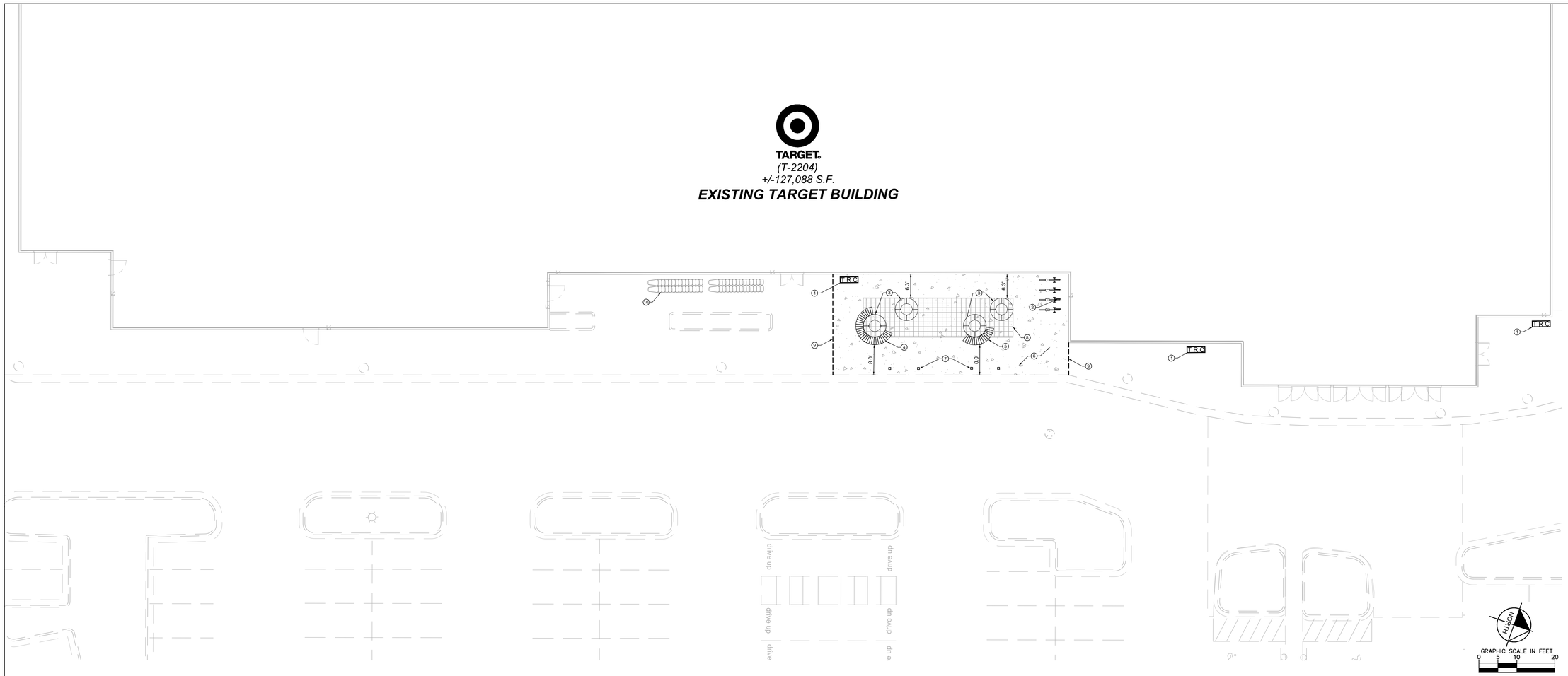
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	OS
CHECKED BY: EIW	KSS/HM

DEMO PLAN - EXTERIOR SITE

L101

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 SITE FURNITURE PLAN
SCALE: 1"=10'

L200

MATERIALS SCHEDULE

KEYNOTE	QUANTITY	SYMBOL	ELEMENT	PRODUCTS/MANUFACTURER	COLOR/FINISH	DETAIL
1	3	T.R.C	OUTDOOR LITTER RECEPTACLE - SURFACE MOUNTED (TYP.)	MODEL: SELECT, STYLE 3 MANUFACTURER: LANDSCAPE FORMS	METALLIC STEEL/ POWDER COAT	1 / L201
2	4 (INDIV.)		BIKE RACK - SURFACE MOUNTED (TYP.)	MODEL: RING MANUFACTURER: LANDSCAPE FORMS	STAINLESS STEEL/ POWDER COAT	2 / L201
3	2		PLANTER WALL (TYP.)	MODEL: KITSAP MODULAR PLANTER WALLS - LARGE (72" DIA.) MANUFACTURER: TOURNESOL SITE WORKS	POWDER COAT WHITE	3 / L201
4	1		CUSTOM BENCH 1 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 1 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
5	1		CUSTOM BENCH 2 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 2 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
6	1,655 SQ. FT		CONCRETE SIDEWALK (TYP.)			5 / L201
7	4		PROFILE BOLLARD (TYP.)			4 / L201
8	409 SQ. FT		STRUCTURAL SOIL (TYP.)			DETAIL TO COME
9	35 FT.		SAWCUT LINE (TYP.)			
10	30 FT.		CART STORAGE			

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
4. NO PROPOSED LANDSCAPING SUCH AS TREES OR SHRUBS, ABOVE AND UNDERGROUND STRUCTURES, OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN EXISTING OR PROPOSED UTILITY EASEMENTS AND RIGHTS OF WAY UNLESS SPECIFICALLY NOTED ON PLANS OTHERWISE.

811 Know what's below. Call 811 before you dig.

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
401 B STREET, SUITE 600
SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

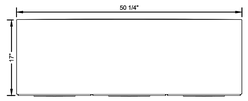
PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

SITE FURNITURE PLAN FRONT WALK

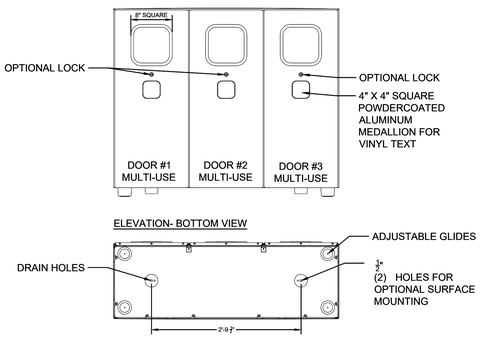
L200

Know what's below. Call before you dig.

PLAN- TOP VIEW

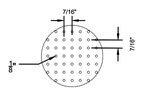


ELEVATION- FRONT VIEW

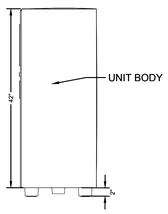


ELEVATION- BOTTOM VIEW

OPTIONAL PERFORATED DETAIL



ELEVATION- SIDE VIEW



*IT IS NOT RECOMMENDED TO DRILL HOLES FOR ANCHORING UNTIL UNIT IS ON SITE.

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

FINISH: METALLIC STEEL/ POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

1 TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

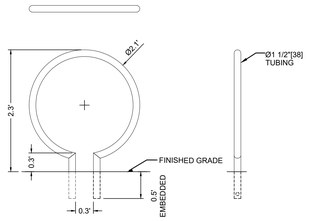
SCALE: N.T.S. L201

MANUFACTURER: LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: RING BIKE RACK

FINISH: POWDER COAT METALLIC STEEL

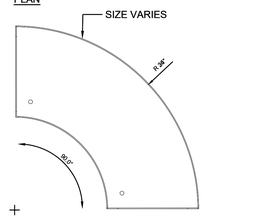
NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

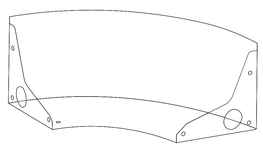


2 RING BIKE RACK

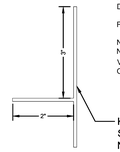
SCALE: N.T.S. L201

PLAN





TOP LIP OPTION



MANUFACTURER: TOURNESOL SITE WORKS

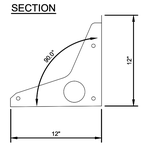
MODEL: KITSAP MODULAR PLANTER WALLS - SMALL (5' DIA.)

FINISH: POWDER COAT WHITE

NOTES: ALL DIMENSIONS ARE NOMINAL, ACTUAL SIZE MAY VARY +/- 1" UNLESS SPECIFIED OTHERWISE

KP- S
STRAIGHT EDGE
NO TOP LIP

SECTION



3 TOURNESOL PLANTER WALL

SCALE: N.T.S. L201

PLAN- TOP VIEW

BASE PLATE DETAIL

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(630) 430-6209

MODEL: PROFILE UNLIT PERIMETER BOLLARD

FINISH: METALLIC STEEL/POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

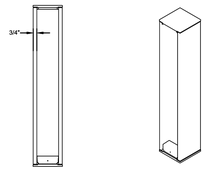
ELEVATION- FRONT



ELEVATION- BACK

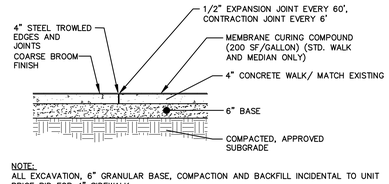


SIDE SECTION



4 PROFILE BOLLARD

SCALE: N.T.S. L201



NOTE:
ALL EXCAVATION, 6" GRANULAR BASE, COMPACTION AND BACKFILL INCIDENTAL TO UNIT PRICE BID FOR 4" SIDEWALK.

5 CONCRETE SIDEWALK

SCALE: N.T.S. L201

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TARGET
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MINNEAPOLIS, MN 55403

Kimley»Horn

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SAN DIEGO, CA 92101
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204

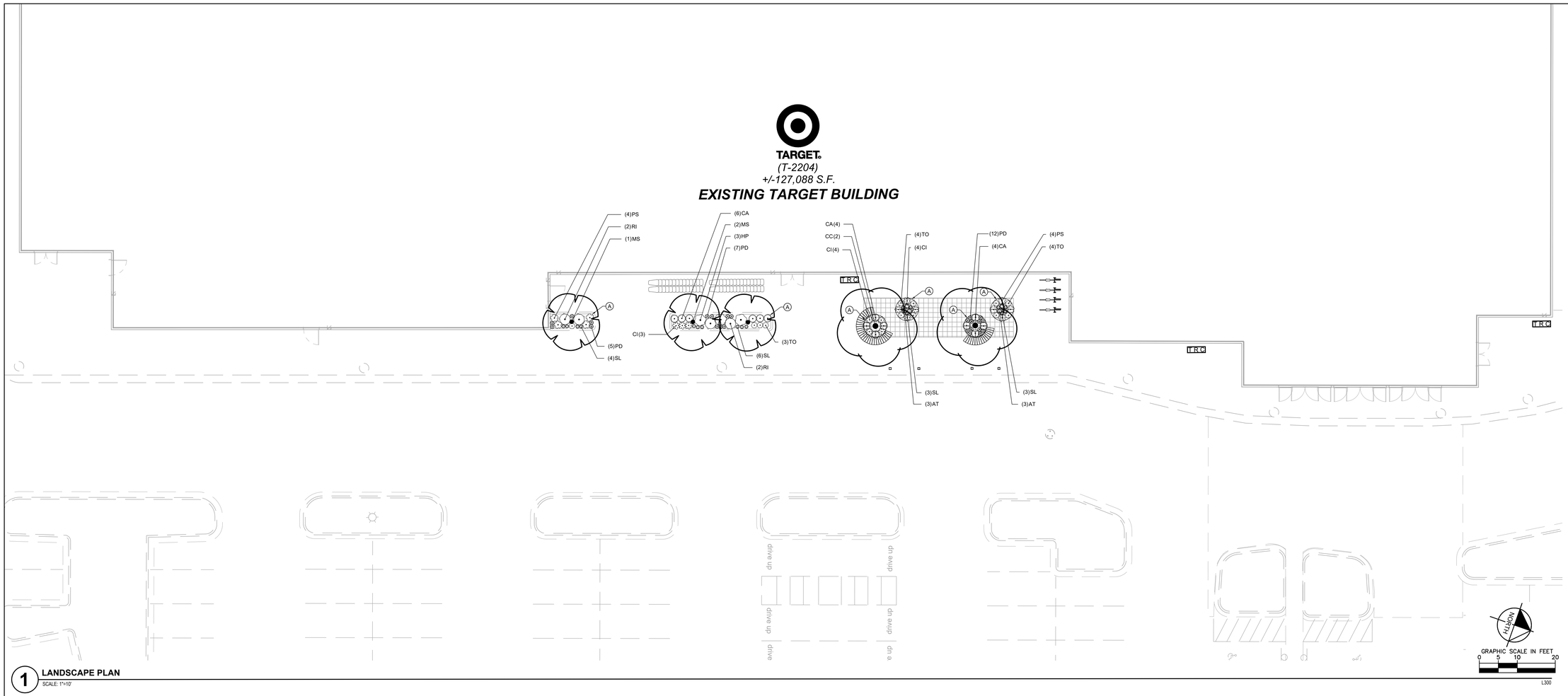
CONFIG:

DRAWN BY: CDE

CHECKED BY: EIW

SITE FURNITURE DETAILS FRONT WALK

L201



1 **LANDSCAPE PLAN**
SCALE: 1"=10'

L300

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, PROJECT STATE-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
   CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. CONTRACTOR TO VERIFY PLANTS REQUIRED AS REFLECTED ON PLAN. NOTIFY LANDSCAPE ARCHITECT IF PLAN AND SCHEDULE DO NOT MATCH. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND COLORED RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK, COLOR BLACK, SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
19. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD PROJECT STATE-GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED.
20. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
21. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
22. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
23. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
24. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

LANDSCAPE KEYNOTES

Ⓐ DOUBLE SHREDDED HARDWOOD MULCH (TYP.)

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
	CC	2	CERCIS CANADENSIS	EASTERN REDBUD	B & B	2.5" CAL MIN
ORNAMENTAL TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**
	MS	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B & B	2" CAL MIN
DECIDUOUS SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CA	14	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#5 CONT.	2` OC
	HP	3	HYPERICUM PROLIFICUM	SHRUBBY ST. JOHN'S WORT	#5 CONT.	3` OC
	RI	4	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	#5 CONT.	3` OC
ORNAMENTAL GRASSES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	AT	6	ANDROPOGON TERNARIUS	SPLITBEARD BLUESTEM	#1 CONT.	2` OC
	SL	16	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 CONT.	1` OC
PERENNIALS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CI	11	CALLIRHOE INVOLUCRATA	PURPLE POPPYMALLOW	#1 CONT.	2` OC
	PD	24	PENSTEMON DIGITALIS	BEARDTONGUE	#1 CONT.	1` OC
	PS	8	PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAIN MINT	#1 CONT.	2` OC
	TO	12	TRADESCANTIA OCCIDENTALIS	PRAIRIE SPIDERWORT	#1 CONT.	1` OC

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

LANDSCAPE PLAN
FRONT WALK

L300



TARGET
(T-xxxx)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CAL	HT	
	2	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	B & B	8'GAL	
	2	NYSSA SYLVATICA / BLACK GUM	B & B	8'GAL	
SHRUBS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT.**		
	47	ARONIA ARBUTIFOLIA / RED CHOKEBERRY	3 GAL		
	154	ILEX GLABRA / INKBERRY HOLLY	3 GAL		
	57	ITEA VIRGINICA / VIRGINIA SWEETSPIRE	3 GAL		
	51	RHUS AROMATICA / FRAGRANT SUMAC	3 GAL		
GROUND COVERS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	326	CALYPTOCARPUS VIALIS / HORSEHERB	1 GAL		24" o.c.
	1,278	IRIS VERSICOLOR / BLUE FLAG	1 GAL		12" o.c.
	1,912	RUDBECKIA X 'AMERICAN GOLD RUSH' / AMERICAN GOLD RUSH CONEFLOWER	1 GAL		12" o.c.
	619	SOLIDAGO RUGOSA / WRINKLELEAF GOLDENROD	1 GAL		24" o.c.
	1,261	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL		30" o.c.
GROUNDCOVER AREAS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	204	SHREDDED HARDWOOD MULCH	MULCH		

NOTE:

TOTAL SOIL AREA TO BE AMENDED : **18,276 SF**

AMENDED SOIL PROFILE FROM TOP TO BOTTOM:

- 3" DEPTH SHREDDED HARDWOOD MULCH
- 18"-24" DEPTH AMENDED SOIL PER SPECIFICATIONS
- FILTER FABRIC WRAPPING FREE DRAINING AGGREGATE
- 4" DEPTH FREE DRAINING AGGREGATE BASE
- 3" WIDE PERFORATED PIPE WITH DRAIN AND SOCK FOR SOIL AERATION THROUGH DEPTH OF AMENDED SOIL PROFILE. PIPE LOCATIONS TO BE DETERMINE BY LANDSCAPE ARCHITECT IN CONSTRUCTION DOCUMENT SET.

PROPOSED PLANT LOCATIONS IN EXISTING SHRUB AND GROUNDCOVER AREAS TO REMAIN ARE APPROXIMATE. THESE PROPOSED PLANTS SHALL BE LOCATED WITHIN OPEN SPACES BETWEEN EXISTING SHRUB AND GROUNDCOVER PLANTS TO ENHANCE THE AREA AND PLANTED IN THE FIELD AS DIRECTED BY THE LANDSCAPE ARCHITECT.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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Know what's **below.** Call before you dig.

OS

TARGET®
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn

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SAN DIEGO, CA 92101
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

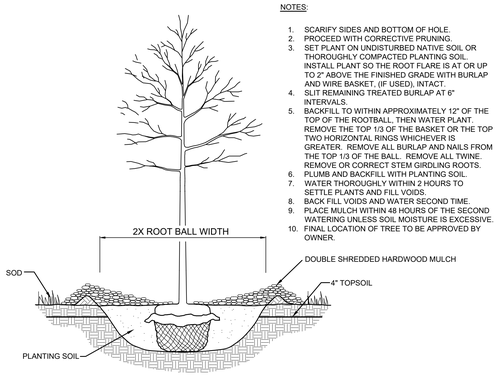
PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY:	OS
CHECKED BY:	KSS/HM

LANDSCAPE PLAN EXTERIOR SITE

L301

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE, (800) 242-8511 OR DIGGERSHOTLINE.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, WISCONSIN-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO WISDOT STANDARD SPECIFICATION 625 (TOPSOIL AND SALVAGED TOPSOIL) AND BE LOCAL FERTILE AGRICULTURAL SOIL FREE OF SUBSOILS, ROCKS, CLAYS, PLANTS, WEEDS, ROOTS, AND OTHER IMPURITIES. PH VALUE SHALL BE BETWEEN 5.4 AND 7.0. REMOVE DEBRIS AND WEEDS FROM SUBSOIL. SCARIFY SUBSOIL DEPTH OF 2" PRIOR TO PLACING TOPSOIL. SPREAD TOPSOIL TO A MINIMUM DEPTH OF 6" IN SOD/SEED AREAS, 18" FOR PLANTING BEDS, AND 36" FOR TREE AREAS. TOPSOIL PLACEMENT SHALL TAKE PLACE DURING DRY WEATHER. PREPARE TOPSOIL SO THAT IT IS FREE OF DEBRIS AND GRADED TO DRAIN AS INDICATED ON GRADING PLANS. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT AND PROHIBIT CONSTRUCTION TRAFFIC FROM AREAS WITH TOPSOIL
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR/DYE-FREE RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. MODIFY EXISTING IRRIGATION SYSTEM TO PROVIDE A COMPLETE, WORKING SYSTEM. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
19. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
20. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
21. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD: 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

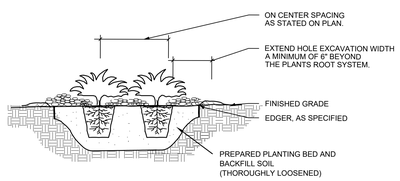


NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

14 TREE PLANTING DETAIL

SCALE: N.T.S. L302



NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

15 SHRUB / PERENNIAL PLANTING DETAIL

SCALE: N.T.S. L302

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

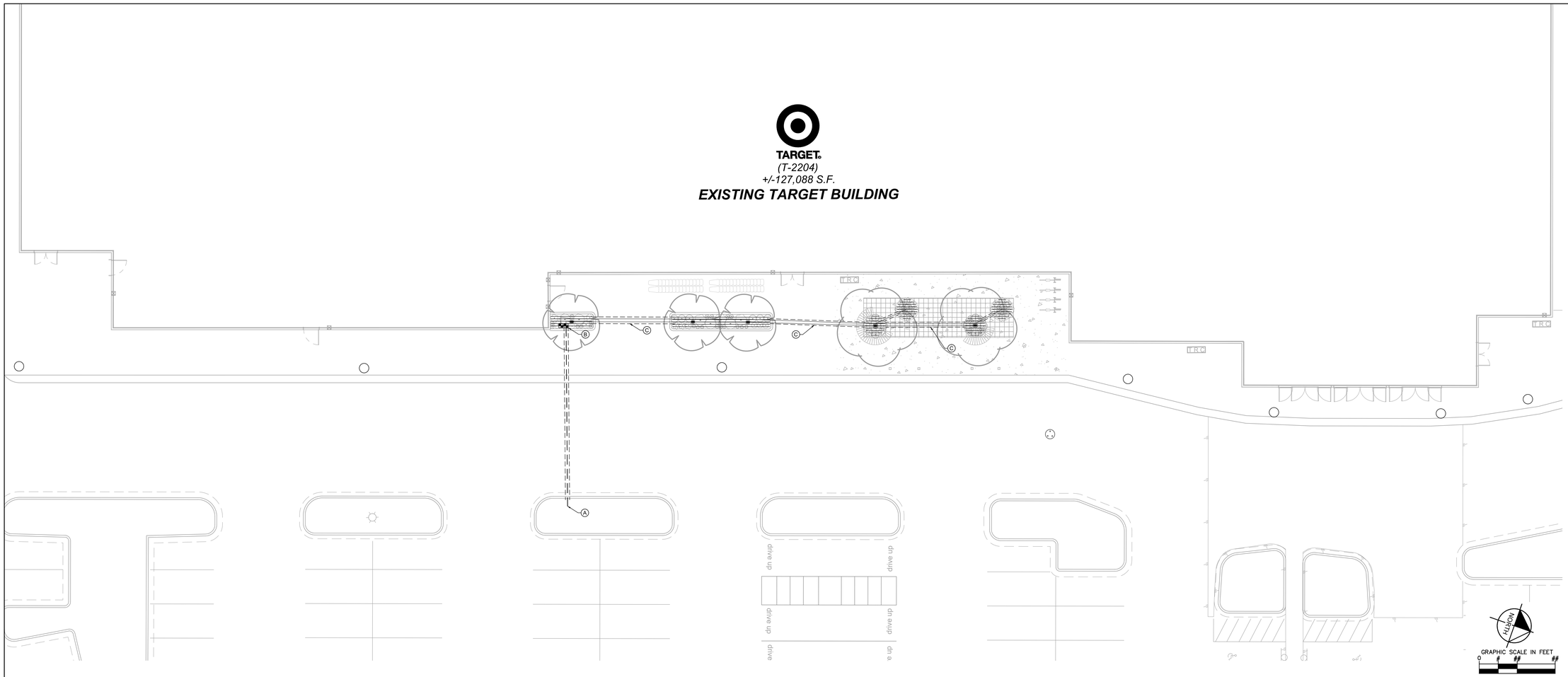
TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	
CHECKED BY: EIW	

LANDSCAPE NOTES AND DETAILS

L302

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 IRRIGATION PLAN
SCALE: 1"=10'

L400

IRRIGATION NOTES

1. IRRIGATION SYSTEM IS DIAGRAMMATIC. CONTRACTOR TO VERIFY AND DESIGN PER ACTUAL PRESSURE, PER LOCAL CODES, AND PER SITE REQUIREMENTS. FIELD VERIFY LOCATION OF COMPONENTS WITH ACTUAL CONDITIONS PRIOR TO INSTALLATION, ADJUST AS NEEDED FOR COMPLETE COVERAGE. SYSTEM TO INCLUDE ALL PLUMBING AND ELECTRICAL, INCLUDING CONDUIT, SLEEVING, AND WEATHER-PROOF ENCLOSURES. SYSTEM SHALL BE COMPLETE. CONTRACTOR TO PROVIDE SHOP DRAWINGS, DESIGN PRESSURE DESIGN CALCULATIONS, AND RELATED PRODUCT SHEETS FOR OWNER OR LANDSCAPE ARCHITECT APPROVAL. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS OF IRRIGATION SYSTEM AT THE COMPLETION OF THE PROJECT. SYSTEM SHALL HAVE A ONE-YEAR WARRANTY ON PARTS AND LABOR. THE IRRIGATION SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION. SEE SITE IRRIGATION SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS, IF APPLICABLE. ZONE PARAMETERS: TURF AREAS SHALL HAVE SPRAYS/ROTORS, SHRUB/ PERENNIAL AREAS SHALL HAVE DRIP, AND TREES SHALL HAVE BUBBLERS.
2. ALL PIPE 1.5" OR GREATER SHALL BE SDR 26 CLASS 200 FOR MAINLINE AND CLASS 160 FOR LATERLINE PVC PIPE(DO NOT EXCEED 35 GPM FOR 1.5" AND 58 GPM FOR 2"). ALL PIPE 1.25" OR 1" SHALL BE 100 POLY PIPE OR CLASS 160 PVC PIPE, AS INDICATED(DO NOT EXCEED 13 GPM FOR 1" AND 22 GPM FOR 1.25"). PIPE SIZE TO BE IDENTIFIED BY CONTRACTOR PER ZONE REQUIREMENTS. DEPTH OF PIPE TO BE APPROXIMATELY 18" FOR MAINLINE AND 12" FOR LATERAL LINES, OR AS REQUIRED, FIELD VERIFY. LOCATE IRRIGATION PIPE AWAY FROM PLANT MATERIAL.
3. ALL WIRING, BACKFLOW PREVENTOR, AND PLUMBING AS PER LOCAL CODE. WATER CONNECTION BY MECHANICAL AND UTILITY CONTRACTOR. VERIFY AND ADD BOOSTER PUMP AS REQUIRED. VERIFY POWER CONNECTION WITH ELECTRICAL.
4. ALL VALVES, FLOW SENSORS, AND QUICK COUPLERS SHALL BE LOCATED IN VALVE BOXES(SIZED FOR NORMAL MAINTENANCE, FLUSH WITH FINAL GRADE. PROVIDE (2) QUICK COUPLER KEYS AND HOSE SWIVELS. PROVIDE DECODERS FOR 2-WIRE SYSTEM AT EACH VALVE. FOR DRIP ZONES, PROVIDE DRIP KIT OF VALVE, PRESSURE REDUCER, AND FILTER WITHIN ONE VALVE BOX. DRIP ZONE AIR RELIEF VALVE AND FLUSH VALVE TO BE IN SEPARATE VALVE BOXES.
5. CONTROLLER TO BE COMMERCIAL TYPE, SIZED FOR NUMBER OF ZONES, CAPABLE OF 2-WIRE TECHNOLOGY, INCLUDING DECODER MODULE AND SURGE PROTECTION. SYSTEM TO BE 2-WIRE TECHNOLOGY WITH REQUIRED GROUNDING(LIGHTING PROTECTION). MOUNT AND CONNECT CONTROLLER AND OTHER CONTROLLER ACCESSORIES, SUCH AS HAND HELD REMOTE, WEATHER/RAIN/FREEZE SENSOR, FLOW SENSOR, AND OTHER RELATED ITEMS. THIS ALSO INCLUDES PAINTED CONDUIT AND MOUNTING BOARDS AND HARDWARE FOR ALL EXPOSED AREA, AS DIRECTED BY OWNER. INSTALL WEATHER/RAIN/FREEZE SENSOR ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S) PER OWNER'S APPROVAL.
6. FIRST YEAR WINTERIZATION AND SPRING START UP OF SYSTEM SHALL BE PERFORMED BY IRRIGATION CONTRACTOR, UNLESS INDICATED OTHERWISE.
7. MINIMUM 4" PVC SCHEDULE 40 SLEEVING SHALL BE REQUIRED UNDER ALL WALKS AND PAVEMENTS FOR IRRIGATION PIPE AND WIRES. PROVIDE 12" LENGTH OF #3 REBAR AT EACH TEMPORARILY SEALED END, STAND PIPE, OR OTHER APPROVED METHODS FOR FUTURE LOCATING. EXTEND SLEEVING AT LEAST 1 FOOT BEYOND EDGE OF PAVEMENT. PROVIDE PVC STAND PIPE FOR LOCATING ENDS OF SLEEVING. PROVIDE MINIMUM TWO SIZES LARGER THAN PIPE SIZE. PROVIDE ADDITIONAL SLEEVING FOR WIRING, AS NEEDED. SLEEVE DEPTH IS PRIMARILY 18 INCHES, OR AS REQUIRED. COORDINATE AND PLACE SLEEVING PRIOR TO PAVEMENT INSTALLATION. DIRECTIONAL BORE UNDER PAVEMENT IN EXISTING CONDITIONS TO REMAIN.
8. BIDDING CONTRACTORS SHOULD BECOME THOROUGHLY FAMILIAR WITH ALL FACETS OF THE PROPOSED IRRIGATION SYSTEM. FAILURE TO CLARIFY MISUNDERSTANDINGS, OR INTENT OF THESE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTAL OF BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE IRRIGATION CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB UTILITIES OR EXISTING CONDITIONS. CONTRACTOR SHALL REPAIR/RESTORE ANY DAMAGE INVOLVING IRRIGATION INSTALLATION.
10. INSTALL WEATHER/RAIN/FREEZE SENSOR(S) ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S). COORDINATE WITH OWNER'S AUTHORIZED REPRESENTATIVE AS TO FINAL LOCATION.
11. CONTROL WIRE WILL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN GROUND, MINIMUM GAUGE: MINIMUM #14 U.F. FOR EITHER MULTI-STRAND OR TWO-WIRE. COMMON GROUND WIRE, IF APPLICABLE, SHALL BE MINIMUM #12 GAUGE WHITE. FOR MULTI-STRAND SYSTEMS, PROVIDE TWO EXTRA CIRCUIT WIRES AND ONE EXTRA COMMON GROUND WIRE FOR ENTIRE MAINLINE LENGTH, MARK AS APPROPRIATE. 24 VAC WIRE SPLICING MATERIAL WILL BE DIRECT BURIAL SPLICE KIT AS MANUFACTURED BY 3M.
12. SOME AREAS MAY REQUIRE RISER EXTENSIONS FOR SPRINKLERS OR A FIXED RISER WITH A SHRUB HEAD OR SHRUB ADAPTER TO OBTAIN PROPER COVERAGE. ROTOR NOZZLES TO PROVIDE PROPER COVERAGE AND MATCH PRECIPITATION, AS REQUIRED. FIELD ADJUST AS NEEDED. SPRAY HEADS IN TURF AREAS TO BE 6" POP-UPS AND IN LANDSCAPE BEDS TO BE 12" POP-UPS. INSTALL ROTOR AND SPRAY HEADS TO LATERAL LINE WITH FLEX TUBING OR SWING JOINTS. BUBBLERS TO BE ON 6" POP-UP.
13. VERIFY AND COORDINATE FINAL LOCATION OF WATER SOURCE AND ELECTRICAL POWER CONNECTION.
14. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH OTHER IMPROVEMENTS.
15. PROVIDE 1" VALVES FOR SPRAY AND ROTOR ZONES FOR 30 GPM OR LESS, AND 1.5" VALVE FOR ZONES GREATER THAN 31 GPM. DRIP ZONES PROVIDE 3/4" OR 1" VALVES PER DEMAND OF ZONE.
16. CONTRACTOR TO SCHEDULE AND PROGRAM CONTROLLER AND VALVES FOR APPROPRIATE LANDSCAPE WATER REQUIREMENTS. VERIFY WITH OWNER AS TO TIME AND SPECIFIC REQUIREMENTS.
17. DRIP IRRIGATION TO FOLLOW MANUFACTURERS RECOMMENDATION FOR TYPE, SIZE, AND LOCATION PER LANDSCAPE CONDITION. EACH DRIP ZONE SHALL HAVE ZONE VALVE, PRESSURE REDUCER, AND FILTER, AIR RELIEF VALVE, FLUSH VALVE, SUPPLY LATERAL LINES, DRIP TUBING WITH EMBEDDED EMITTERS, AND OTHER RELATED ITEMS. DRIP TUBING SHALL BE ANCHORED AND UNDER LANDSCAPE MULCH, HIDDEN FROM VIEW, WITH EMITTERS LOCATED AT PLANT LOCATIONS. DRIP TUBING SHALL ALSO BE LOOPED AND INTERCONNECTED, WITH NO DEAD-ENDS. ANY ADDITIONAL EMITTERS, AS NOTED ON PLAN.

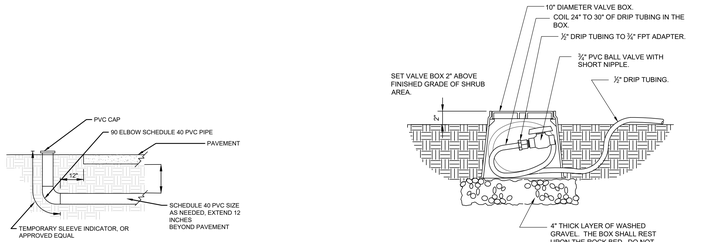
IRRIGATION KEYNOTES

- (A) POINT OF CONNECTION, VERIFY LOCATION WITH OWNER
- (B) MAINLINE & VALVES SHOWN FOR CLARITY. INSTALL MAINLINE AND VALVE WITHIN THE PROPERTY LINE, 6" FROM B.O.C WHEN POSSIBLE, AND IN GREEN SPACE. COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS (TYP.)
- (C) ALL DRIP ZONES TO HAVE MINIMUM 12" SETBACK (CLEAR ZONE) BETWEEN DRIPLINE AND SOD EDGE OR PAVEMENT EDGE. (TYP.)

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1401 1402	RAIN BIRD RWS-M-B-C W/ RWS-SOCK 1401 MINI ROOT WATERING SYSTEM WITH 4" DIAMETER X 18" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE AND RAIN BIRD 1401 0.25 GPM OR 1402 0.5 GPM BUBBLER AS INDICATED. WITH CHECK VALVE, AND SAND SOCK FOR SANDY SOIL.	5	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER, 0.3 GPM-20 GPM	2	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-04-12 XFS-CV SUB-SURFACE AND ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.9 PSI CHECK VALVE, 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.	215.6 L.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	237.6 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	48.9 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	120.1 L.F.	

Valve Callout
Valve Number
Valve Flow
Valve Size

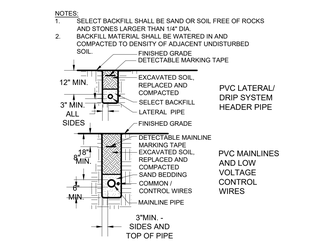


3 DRIP FLUSH VALVE
SCALE: 1 1/2" = 1'-0"

L400

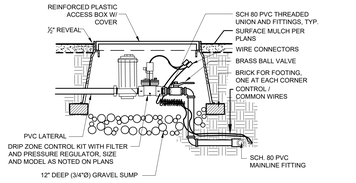
2 TYPICAL SLEEVE DETAIL
SCALE: NTS

L400

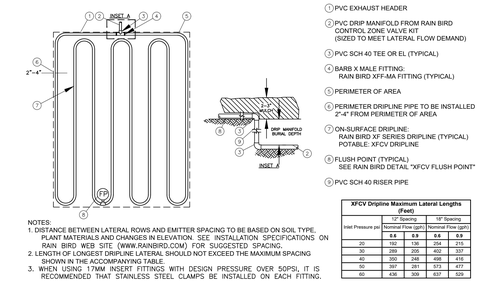


4 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE
SCALE: N.T.S.

L400



5 DRIP ZONE CONTROL KIT
SCALE: N.T.S.



NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFCV Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9
20	192	136	264	215
30	288	205	402	337
40	352	248	498	416
50	397	281	573	477
60	436	309	637	529

6 XFCV ON-SURFACE DRIPLINE - QUICK LAYOUT
SCALE: NTS

L400

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PHONE: 619-234-9411
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

IRRIGATION PLAN
FRONT WALK

L400

TARGET®

DRIVE UP EXPANSION
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

SCOPE OF WORK

PARKING LOT RE-STRIPING, STALL PARKING SIGNAGE AND WAYFINDING DRIVE UP BEACONS WHERE SHOWN ON THE PLAN.

ZONING

C-2 - GENERAL COMMERCIAL DISTRICT

OFF-STREET PARKING LOT CODE REQUIREMENTS

- DRIVE AISLE = 20' MIN. WIDTH
- STANDARD PARKING STALL = 10' X 20' MIN.

OWNER

TARGET CORP.
CONTACT: MATTHEW FLANSBURG
50 SOUTH 10TH ST, SUITE 400
MINNEAPOLIS, MN, 55403
MATTHEW.FLANSBURG@TARGET.COM

CIVIL ENGINEER

KIMLEY-HORN
CONTACT: JUSTIN BECKER P.E.
401 B ST, SUITE 600
SAN DIEGO, CA, 92101
619-234-9411
JUSTIN.BECKER@KIMLEY-HORN.COM



VICINITY MAP
NTS

NORTH

SHEET INDEX

COVER SHEET.....C0.0

OVERALL SITE PLAN.....C0.1

IMPROVEMENT PLAN.....C1.0

DETAILS.....C2.0 - C2.1

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901-374-9109
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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

COVER SHEET

C0.0

Plotted By: Schlueter, Noble Sheet Set: Kha Layout: C0.0 May 06, 2022 10:17:06am C:\Users\Noble.Schlueter\OneDrive - KHA\Documents_T-Stores\2204 Bryant, AR\CAD\T2204 DriveUp Expansion_NonCompy.dwg
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OVERALL SITE PLAN
1" = 40'

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

OVERALL SITE PLAN

C0.1

Plotted By:Schuster, Noble Sheet Set:Kha Layout:C0.1 May 06, 2022 10:17:25am C:\Users\NobleSchuster\OneDrive - KH\Documents_T-Stores\T-2204 Bryant AR\CAD\T2204 DriveUp Expansion_NonCanopy.dwg
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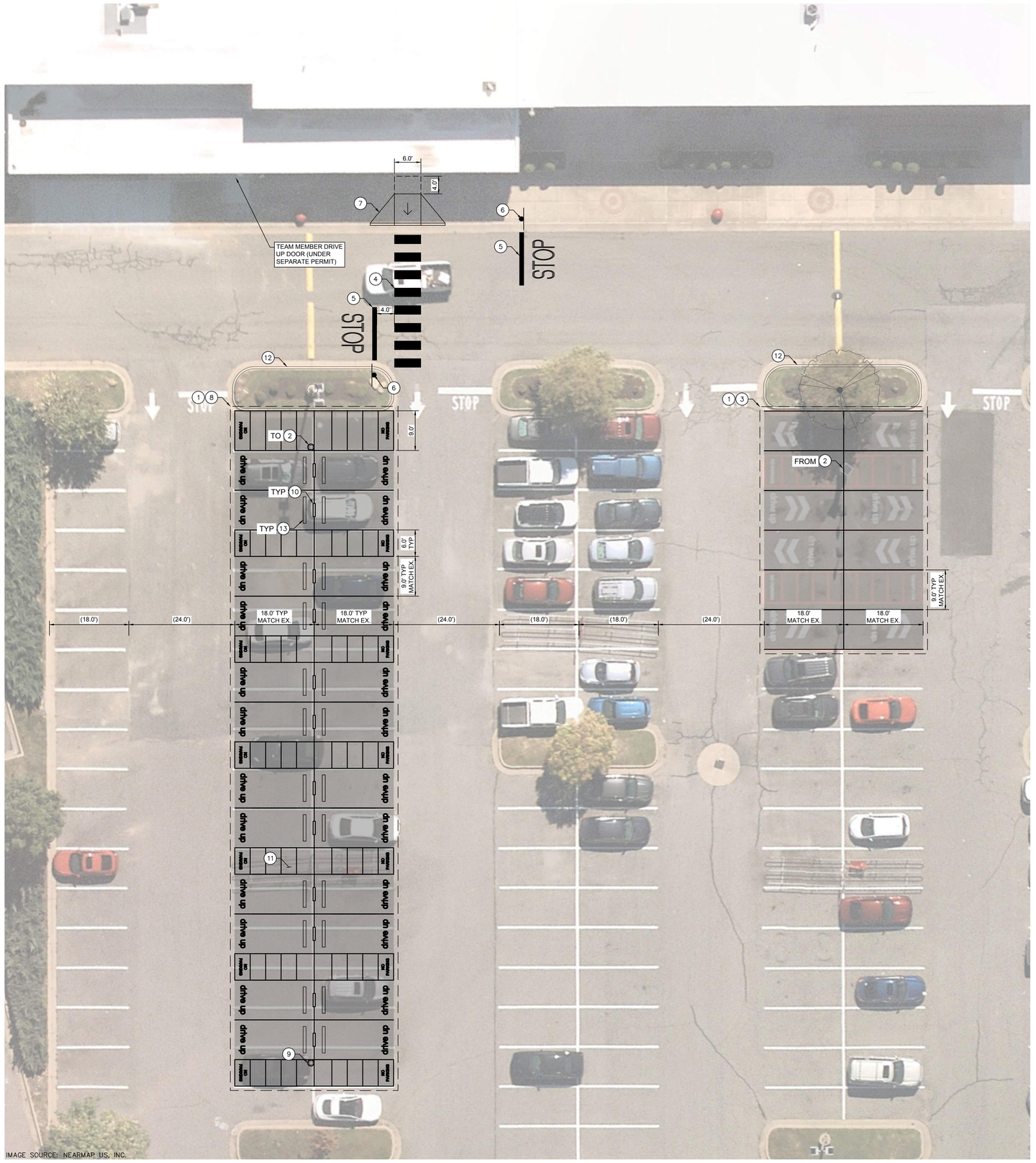

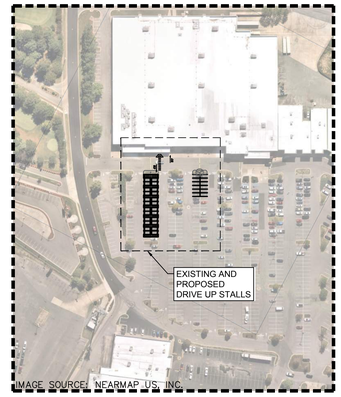

KEY MAP
1" = 150'

CONSTRUCTION NOTES

1. REMOVE EXISTING STRIPING AND DRIVE UP SIGNAGE.
2. REMOVE AND RELOCATE EXISTING DRIVE UP BEACON.
3. RESTRIPE STANDARD PARKING STALLS USING 4" WIDE WHITE STRIPING.
4. INSTALL CROSSWALK PER DETAILS SHEET.
5. INSTALL STOP BAR AND MARKING PER DETAILS SHEET.
6. INSTALL STOP SIGN PER DETAILS SHEET.
7. INSTALL CURB RAMP PER DETAILS SHEET.
8. INSTALL DRIVE UP STRIPING AND SIGNAGE PER DETAILS SHEET.
9. INSTALL DRIVE UP BEACON PER DETAILS SHEET.
10. INSTALL STANCHION SIGN AND BASE PER DETAILS SHEET.
11. REMOVE AND SALVAGE EXISTING CART CORRALS. CONTRACTOR TO COORDINATE RELOCATION WITH TARGET.
12. PROTECT IN PLACE EXISTING LANDSCAPE ISLAND.
13. INSTALL WHEEL STOP PER DETAILS SHEET.

IMPROVEMENT PLAN FOR EXISTING AND PROPOSED DRIVE UP STALLS
1" = 10'

GRAPHIC SCALE IN FEET
0 5 10 20

811 Know what's **below.** **Call** before you dig.

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn
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6750 POPLAR AVE., STE 600
MEMPHIS, TN 38138
901-374-9109
WWW.KIMLEY-HORN.COM

Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

IMPROVEMENT PLAN

C1.0

Plotted By:Schuster, Noble Sheet Set:Kha Layout:C1.0 May 06, 2022 10:17:46am C:\Users\NobleSchuster\OneDrive - KH\Documents\T-Stores\T2204 Bryant ARK\CAD\T2204 DriveUp Expansion_NonConcept.dwg
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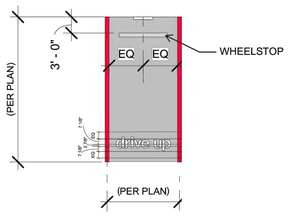
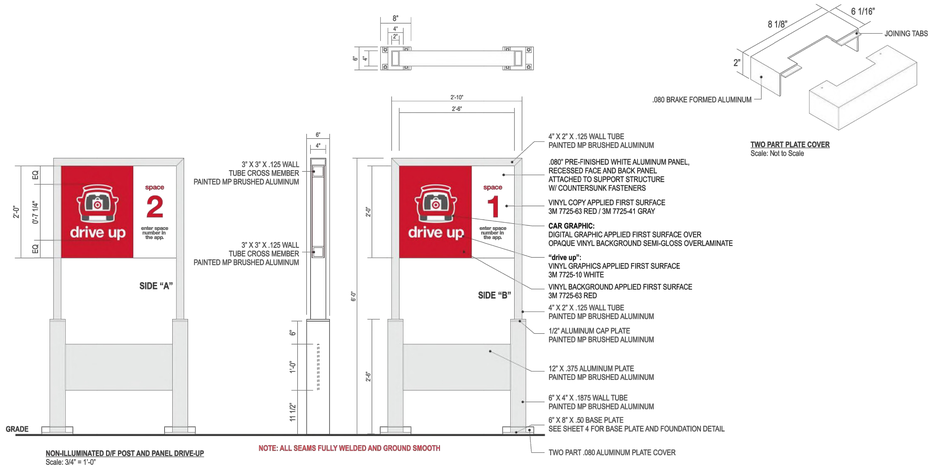


NOTES:

1. ALL RED STRIPING IS 6" WIDE
2. TARGET TO PROVIDE GC WITH "drive up" AND "NO PARKING" TEMPLATES
3. SEE PLAN VIEW DIMENSIONS FOR EXACT LAYOUT OF SITE
4. REFER TO C1.0 FOR EXACT DIMENSIONS

DRIVE UP STRIPING
N.T.S.



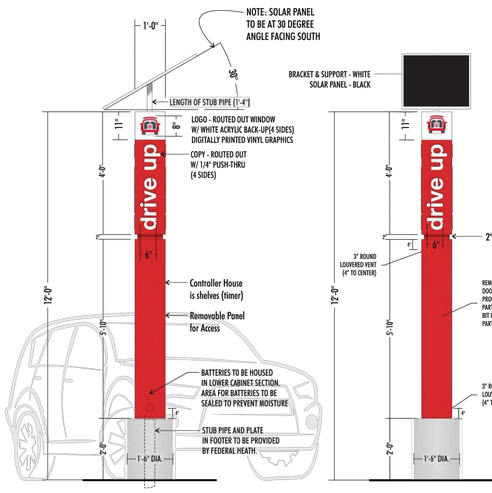
STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY THOMPSON ENGINEERING SERVICES, LLC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

CAR LOGO COLORS
Target Red PMS 186 | DARK RED PMS 188 | DARK GRAY PMS 425 | LIGHT GRAY PMS 421

STANCHION SIGN POST AND BASE - DOUBLE SIDE
N.T.S.

NOTE:
-FOR SOUTHERN SOLAR ZONES SIGNS TO HAVE 70 WATT SOLAR PANEL (DIMENSIONS 2'3" X 2'6").
-FOR NORTHERN SOLAR ZONES SIGNS TO HAVE 100 WATT SOLAR PANEL (DIMENSIONS 2'3" X 3'6").

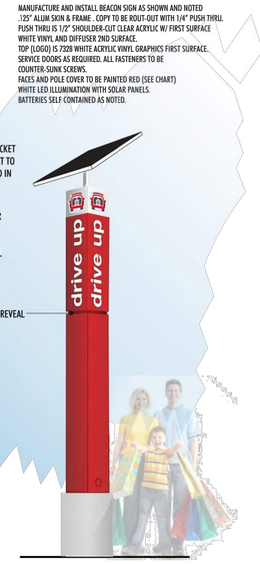
MATERIAL FINISH COLORS
Target Red 0 SCHEME#20 (FULL GLOSS) Cabinets | #020 (100% WHITE (FULL GLOSS)) Header/Supports | 7328 WHITE Acrylic Logo Face | CLEAR Acrylic W/ DIFFUSER Push-Thru Copy



DESCRIPTION OF WORK
MANUFACTURE AND INSTALL BEACON SIGN AS SHOWN AND NOTED
.125" ALUM.SKIN & FRAME . COPY TO BE ROUT-OUT WITH 1/4" PUSH THRU.
PUSH THRU IS 1/2" SHOULDER-CUT CLEAR ACRYLIC W/ FIRST SURFACE WHITE VINYL AND DIFFUSER 2ND SURFACE.
TOP (LOGO) IS 7328 WHITE ACRYLIC VINYL GRAPHICS FIRST SURFACE.
SERVICE DOORS AS REQUIRED. ALL FASTENERS TO BE COUNTER-SUNK SCREWS.
FACES AND POLE COVER TO BE PAINTED RED (SEE CHART)
WHITE LED ILLUMINATION WITH SOLAR PANELS.
BATTERIES SELF-CONTAINED AS NOTED.

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"



12'(FT) DRIVE-UP BEACON w/ SOLAR PANEL

STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY MBI, INC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

SOLAR DRIVE UP BEACON
N.T.S.

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DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

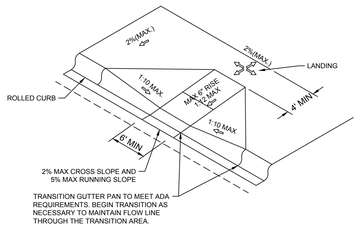
Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

DETAILS

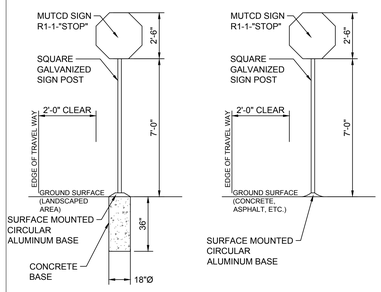
C2.0

NOTES:

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT- OF -WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
3. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
4. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 2500 PSI.
5. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
6. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
7. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
8. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
9. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
10. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

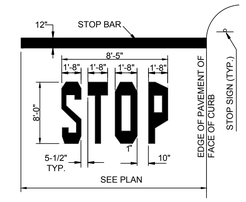


CURB RAMP DETAIL - DIAGONAL RAMP
N.T.S.



CASE 1: LANDSCAPED AREA CASE 2: HARDSCAPE AREA

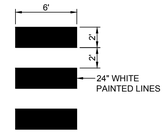
STOP SIGN DETAIL
N.T.S.



NOTES:

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. THESE WORDS AND BAR ARE TO BE PAINTED WHITE.

STOP BAR
N.T.S.



6' WIDE CROSSWALK DETAIL
N.T.S.

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TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

DETAILS

C2.1

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GENERAL NOTES:

1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED THEMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.
3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
4. THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.
5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING REVIEWED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER. ALL SHUTDOWNS SHALL REQUIRE WRITTEN APPROVAL FROM THE OWNER.
7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.
12. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK. THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
14. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
15. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR REVIEW PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER REVIEWED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
16. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.
17. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER REVIEWED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS
18. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
19. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
20. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
21. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
22. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.
23. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.
24. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."
25. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.
26. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.
27. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.
28. WIRING: WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES.
29. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.
30. GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.
31. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.
32. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT ALL EXISTING EQUIPMENT OR INFRASTRUCTURE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING EQUIPMENT OR INFRASTRUCTURE SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL LIGHTING NOTES:

1. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
4. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
5. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
6. EACH LIGHT POLE SHALL HAVE 3/4" X 10' COPPER GROUND ROD WITH #6 CU TO GROUND LUG IN LIGHT POLE HANDHOLE. CABLE CONNECTION TO GROUND ROD SHALL BE AN EXOTHERMIC CONNECTION, MINIMUM 12" BELOW FINISHED GRADE.
7. FOR MATERIAL INSTALLED AND/OR WORK PERFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST, IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
10. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.
11. TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER TARGET STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.
12. CIRCUIT CONDUCTORS #2 AWG OR SMALLER TO BE COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION OR COPPER TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE "XHHW-2" STRANDED COPPER. MINIMUM CONDUCTOR SIZE TO BE #10 AWG WITH #10 GND, UNLESS OTHERWISE NOTED.
13. UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
14. HORIZONTAL DIRECTIONAL DRILLED (HDD) CONDUITS TO BE SCHEDULE 40 HDPE, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
15. EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL (GRS), MINIMUM SIZE 1", UNLESS OTHERWISE NOTED ON THE PLANS. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN.

ABBREVIATIONS:

AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
DIA	DIAMETER
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
FVNR	FULL VOLTAGE NON-REVERSING STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
IEEE	INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
KW	KILOWATT
KVA	KILOVOLT AMPERES
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MH	MOUNTING HEIGHT
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PVC	POLYVINYL CHLORIDE
SCCR	SHORT CIRCUIT CURRENT RATING
SES	SERVICE ENTRANCE SECTION
SS	STAINLESS STEEL
TSP	TWISTED SHIELDED PAIR
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
WP	WEATHERPROOF
WWTP	WASTE WATER TREATMENT PLANT
XFMR	TRANSFORMER
3P	THREE PHASE

*GENERAL LIST OF ABBREVIATIONS; SOME MAY OR MAY NOT APPLY.

SUMMARY OF BUILDING CODES:

ARKANSAS NATIONAL ELECTRICAL CODE 2011
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL EXISTING BUILDING CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE

LEGEND:

— — —	PROPOSED UNDERGROUND ELECTRICAL CONDUIT
—— UGE —— OR — — —	EXISTING UNDERGROUND ELECTRICAL CONDUIT
OR	PROPOSED SITE LIGHTING LED POLE FIXTURE SEE PLANS FOR ARRANGEMENT AND QUANTITY
OR	EXISTING SITE LIGHTING LED POLE FIXTURE SEE PLANS FOR ARRANGEMENT AND QUANTITY
X	CONSTRUCTION NOTE
	SOLAR DRIVE UP BEACON

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Date	No	Description

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number T-2204
Config:
Drawn By CF
Checked By PMS

SITE LIGHTING
GENERAL NOTES

E1.0

Plotted By:Frogget, Christopher Sheet Set:Kha Layout:E1.0 September 28, 2022 05:30:19pm Y:_T-Stores\2204 Bryant AR\CADD\T2204 DriveUp Expansion (Site Lighting-Electrical).dwg
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LOAD CALCULATION	
LOAD DESCRIPTION	WATTS
PROPOSED LOADS	
PROPOSED LED FIXTURES (ALL)	1,496
+25% PER NEC	374
TOTAL PROPOSED LOAD	1,870

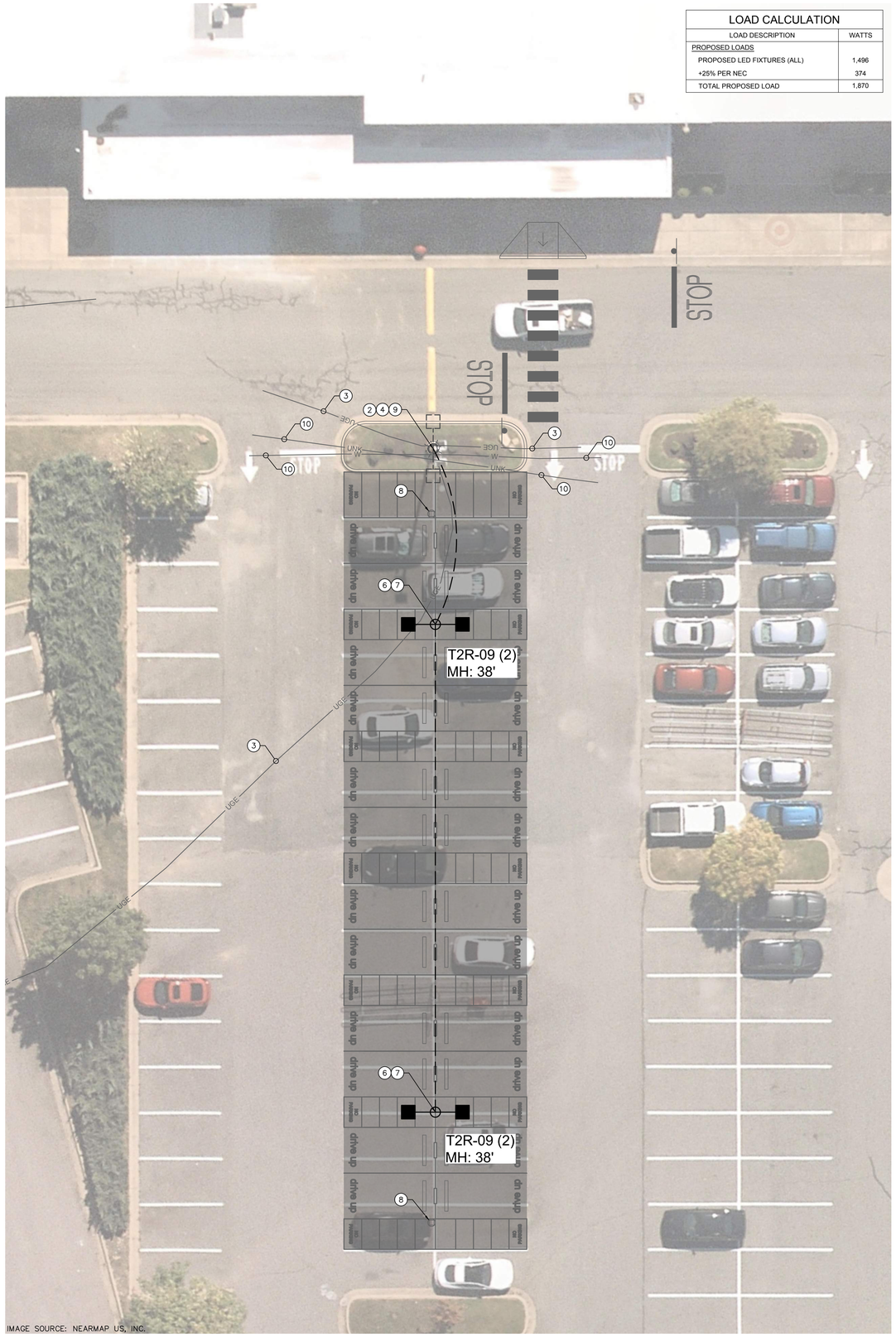


IMAGE SOURCE: NEARMAP US, INC.

PROPOSED DRIVE UP STALLS
1" = 10'

811 Know what's **below.** **Call** before you dig.

KEYED LIGHTING CONSTRUCTION NOTES

1. COORDINATE SITE ELECTRICAL WORK WITH OWNER, SITE MANAGER AND ALL APPROPRIATE TRADES. EXISTING CONDUITS TO BE MANDRELLED AND REUSED; REPLACE IF COLLAPSED OR BLOCKED. INTERCEPT AND EXTEND CONDUITS AND CONDUCTORS AS REQUIRED. RE-USE EXISTING SAME SIZE OR LARGER WIRE AFTER TESTING EXISTING WIRE AND INSULATION PER NEC STANDARDS.
2. EXISTING SITE LIGHTING POLE, FIXTURES, AND FOUNDATION TO REMAIN. PROTECT IN PLACE.
3. EXISTING ELECTRICAL SITE LIGHTING CONDUIT. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.
4. FURNISH AND INSTALL 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PENETRATE EXISTING POLE SIDEWALL AND SEAL ALL PENETRATIONS UPON COMPLETION. SEE DETAIL E2 FOR ADDITIONAL INFORMATION.
5. PROVIDE (1) 3/4" SCHEDULE 40 HDPE CONDUIT VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD. PROVIDE (2) #10 AWG CU XHHW CONDUCTORS AND (1) #10 AWG CU GROUND FOR SITE LIGHTING AND CONNECT FOR A COMPLETE SYSTEM. ENSURE THAT ALL EXISTING CIRCUITS AND CONNECTIONS ARE MAINTAINED.
6. FURNISH AND INSTALL NEW FOUNDATION FOR PROPOSED SITE LIGHTING POLE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR NEW SITE LIGHTING POLE FOUNDATIONS. FOUNDATIONS SHALL PROVIDE MOUNTING HEIGHT(S) FOR FIXTURES AS DESIGNATED IN THE PLANS. FOUNDATIONS SHALL PROVIDE BOLT PATTERNS TO MATCH THE FLANGE BOLT PATTERN. SEE DETAIL E1.
7. FURNISH AND INSTALL (2) NEW LED SITE LIGHTING FIXTURES COOPER GLEON LUMINAIRE LIGHT MODEL # GLEON-SA6B-740-8-T2R-DP-DIM10-PERTN-MS/DC-L40W AT 38' MOUNTING HEIGHT WITH NEW MAST ARMS ON NEW POLE AND FOUNDATION. PROVIDE (2) #12 AWG CU CONDUCTORS AND (1) #12 AWG CU GROUND FROM POLE HAND HOLE TO EACH FIXTURE AND CONNECT FOR COMPLETE SYSTEM. COORDINATE WITH OWNER TO VERIFY ALL PREVIOUS CIRCUITS AND CONNECTIONS HAVE BEEN REESTABLISHED.
8. SOLAR BEACON. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL IDENTIFY EXISTING LIGHTING CIRCUIT TO UTILIZE FOR CONNECTING NEW SITE LIGHTING FIXTURES. IDENTIFY THE EXISTING LIGHTING CIRCUIT'S SOURCE PANEL, CIRCUIT NUMBER AND CIRCUIT BREAKER SIZE. VERIFY EXISTING CAPACITY BY PERFORMING 30-DAY LOAD STUDY OR NEC 220.87 APPROVED METHOD. IF THE TOTAL NEW LOAD (EXISTING PLUS PROPOSED) EXCEEDS THE ALLOWABLE LOADS OF THE CIRCUIT BREAKER OR PANEL, DO NOT CONNECT THE NEW LOADS WITHOUT ADEQUATE CAPACITY. PROVIDE UPDATED PANEL SCHEDULES AS NEEDED.
10. EXISTING UNDERGROUND UTILITIES. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.

GENERAL CONSTRUCTION NOTES

A. ALL EXISTING ELECTRICAL INFORMATION INCLUDING LUMINAIRE TYPES, PANEL NAMES, CIRCUIT NUMBERS, CONDUIT/CONDUCTOR SIZES AND ROUTING, ETC. ARE UNKNOWN AND BASED ON EXISTING DOCUMENTS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY INFORMATION DURING CONSTRUCTION AND PROVIDE UPDATED AS-BUILTS UPON COMPLETION.

B. ALL CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE SCHEMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE BEST ROUTING PATH BASED ON FIELD CONDITIONS WITH OWNER APPROVAL.

C. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER(S) FOR DETAILED CONNECTIONS REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.

D. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

E. ALL NEW EQUIPMENT SHALL BE CONNECTED TO AN APPROPRIATELY SIZED CIRCUIT IN AN EXISTING PANEL AND/OR LIGHTING CONTROLLER. CONTRACTOR SHALL VERIFY CIRCUITING PRIOR TO ROUGH-IN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

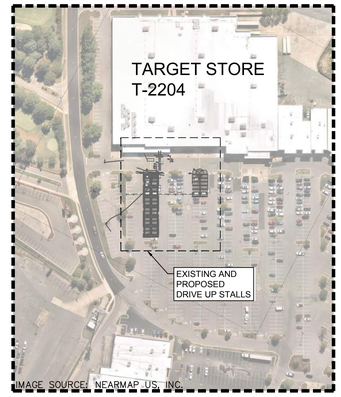
F. CONTRACTOR SHALL VERIFY EXISTING CIRCUITS ARE ADEQUATELY SIZED FOR ANY EQUIPMENT THAT IS TO BE REPLACED PRIOR TO CONNECTING NEW EQUIPMENT.

G. ALL CIRCUITING THAT IS INDICATED SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS CONNECTED TO ADEQUATELY SIZED CIRCUIT BREAKERS AND CONDUCTORS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

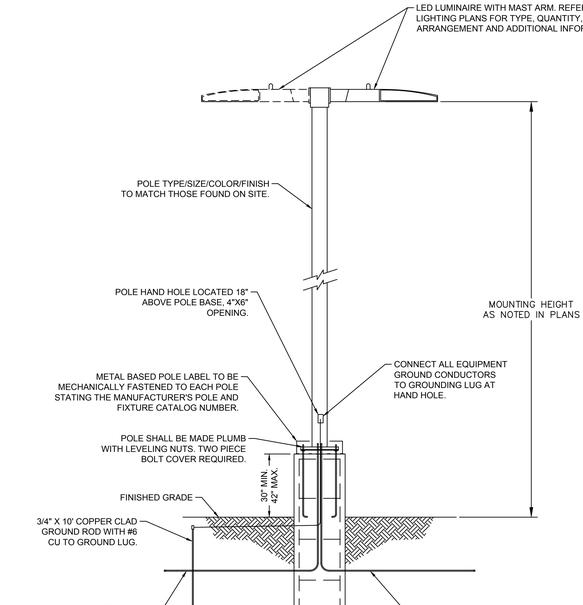
H. CONTRACTOR SHALL ENSURE EXISTING PANELS/LIGHTING CONTROLLERS HAVE ADEQUATE CAPACITY FOR NEW ELECTRICAL LOADS PRIOR TO ANY NEW OR REPLACED EQUIPMENT BEING CONNECTED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

I. CONTRACTOR SHALL RESTORE AND REPAIR ALL DISTURBED LANDSCAPE, HARDSCAPE, ASPHALT, CURB AREAS ETC. TO ORIGINAL STATE OR BETTER.

J. EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNER AND FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY EXISTING SYSTEMS (I.E. IRRIGATION, WATER, GAS, SEWER, ETC.) IMPACTED, SHALL BE REPAIRED/RESTORED TO ORIGINAL STATE OR BETTER.

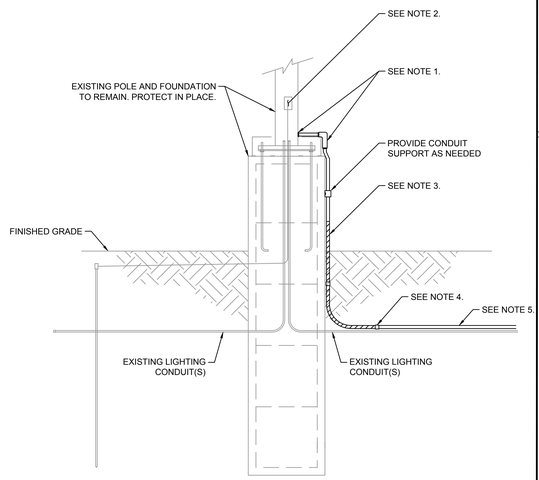


KEY MAP
1" = 150'



NOTES:
1. THIS DETAIL IS FOR REFERENCE ONLY. CONTRACTOR SHALL INSPECT EXISTING SITE POLES AND FOOTERS AND PROVIDE SIMILAR TYPES/SIZES TO MATCH.
2. POLE FOUNDATION SHALL BE PROVIDED IN DEFERRED SUBMITTAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO BE INCLUDED IN FINAL AS-BUILTS. SHOP DRAWINGS SHALL BE STAMPED/SIGNED/SEALED BY STATE REGISTERED ENGINEER.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
4. POLES, FIXTURES, ARMS AND FIXTURE COMPONENTS TO BE FACTORY PAINTED TO MATCH THOSE FOUND ON SITE.

E1 / E2.0 LIGHT POLE
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PENETRATE EXISTING POLE AND CONNECT 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PROVIDE ALL NECESSARY CONDUIT HARDWARE/FITTINGS FOR A WATERPROOF CONNECTION TO POLE.
2. FURNISH AND INSTALL (2) #10 AWG CU CONDUCTORS AND (1) #10 AWG CU GROUND AND SPLICE WITH EXISTING LIGHTING CONDUCTORS AND CONNECT TO EXISTING GROUNDING IN POLE. COORDINATE WITH OWNER FOR CIRCUIT IDENTIFICATION AND DE-ENERGIZING PRIOR TO INSTALLATION. MAINTAIN ALL EXISTING CIRCUIT CONNECTIONS UPON COMPLETION AND VERIFY FUNCTIONALITY WITH OWNER.
3. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE.
4. GRS CONDUIT TRANSITION TO HDPE CONDUIT BELOW GRADE.
5. FURNISH AND INSTALL (1) 3/4" SCHEDULE 40 HDPE CONDUIT FOR SITE LIGHTING. CONDUIT SHALL BE INSTALLED IN LOCATIONS USING METHODS AS INDICATED IN THE PROJECT PLANS.

E2 / E2.0 EXISTING POLE CONDUIT TIE IN
NOT TO SCALE

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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Date	No	Description

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

LIGHTING PLAN

E2.0

Plotted By:Froggett, Christopher Sheet Set:Kha Layout:E2.0 September 28, 2022 05:30:37pm N:\A_T-Stores\2204 Bryant ARK\ADD\T2204 DriveUp Expansion (Site Lighting_Electrical).dwg
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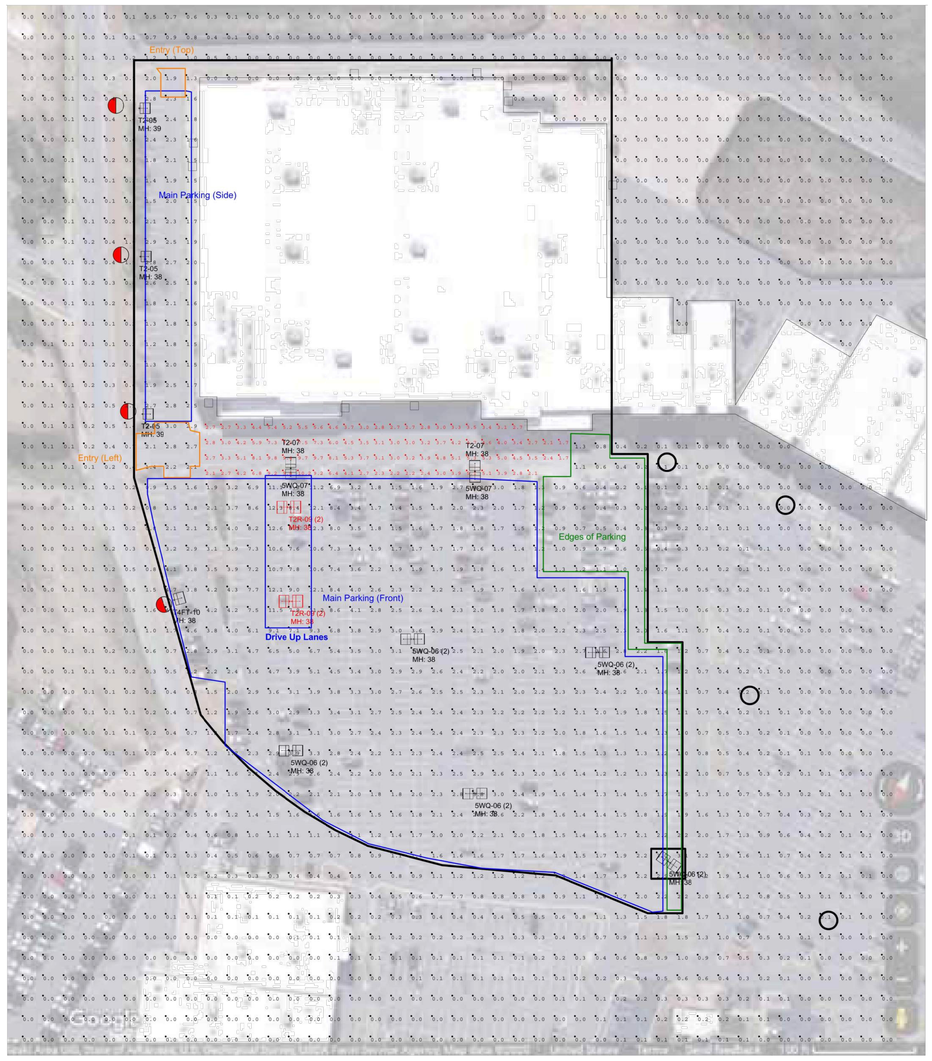

Luminaire Schedule

Symbol	Qty	Label	Lum. Watts	Lum. Lumens	LLF	BUG Rating	IES Class	Filename	Description
	5	5WQ-06 (2)	249	36001	0.900	B5-U0-G4	Type VS	GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	2	5WQ-07	295	42575	0.900	B5-U0-G5	Type VS	GLEON-SA7B-740-U-5WQ.ies	TAR-GLEON-SA7B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	3	T2-05	210	28029	0.900	B3-U0-G4	Type III	GLEON-SA5B-740-U-T2.ies	TAR-GLEON-SA5B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2-07	295	39667	0.900	B3-U0-G5	Type III	GLEON-SA7B-740-U-T2.ies	TAR-GLEON-SA7B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2R-09 (2)	374	53224	0.900	B3-U0-G5	Type II	GLEON-SA9B-740-U-T2R.ies	TAR-GLEON-SA9B-740-8-T2R-DP-DIM10-PER7N-MS/DC-L40W
	1	T4FT-10	419	56904	0.900	B4-U0-G5	Type IV	GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W

Calculation Summary

Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
Store Entrance Drive	Illuminance	4.47	10.2	1.7	2.63	6.00
Drive Up Lanes	Illuminance	10.27	12.6	7.1	1.45	1.77
Edges of Parking	Illuminance	1.06	3.1	0.1	10.60	31.00
Entry (Left)	Illuminance	2.40	3.0	1.4	1.71	2.14
Entry (Top)	Illuminance	2.10	2.3	1.9	1.11	1.21
Main Parking (Front)	Illuminance	3.06	12.6	1.1	2.78	11.45
Main Parking (Side)	Illuminance	2.01	2.9	1.2	1.68	2.42

NOTES:

RED CALC POINTS = BUILDING ENTRANCE DRIVE
BLUE = MAIN PARKING AREAS
GREEN = EDGES OF PARKING
ORANGE = ENTRY DRIVES

□ = WALL MOUNT LOCATIONS

○ = POLE LOCATIONS BY OTHERS

□ = POLE LOCATIONS DO NOT TURN ON WITH OVERRIDE

◒ = OCC SENSOR MASKING (RED IS AREA TO MASK)

T2204 - DESIGN LEVEL 1
BRYANT, AR
Pole Color & Shape Per Survey - BLACK / SQUARE
Fixture Voltage Per Survey - 480V

GRAPHIC SCALE IN FEET
0 30 60 120

NOTES

1. THE EXISTING ON-SITE LIGHTING WAS MODELED BASED OFF THE LATEST AERIAL IMAGERY FROM GOOGLE MAPS. CONTRACTOR TO VERIFY FIELD CONDITIONS AND BRING TO THE ATTENTION OF THE DESIGNER ANY DISCREPANCIES FROM THE PLANS.
2. THIS PHOTOMETRIC PLAN PREPARED BY OTHERS IS TO BE UTILIZED FOR REFERENCE PURPOSES ONLY.
3. EXISTING PARKING LOT LIGHTING, OUTSIDE OF THE LIMITS OF LIGHTING ANALYSIS, WAS NOT CALCULATED FOR THIS PROJECT.
4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT-CANDLES.
5. THIS PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. CONTRACTOR MUST BRING TO THE DESIGNERS'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH THE INFORMATION PROVIDED IN THIS PLAN.
6. NO BUILDING LUMINAIRES WERE INCLUDED IN THE CALCULATIONS FOR THE DRIVE UP AISLE.

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Date	No	Description

FOR REFERENCE ONLY

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
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Drawn By	CF
Checked By	PMS

PHOTOMETRIC PLAN

E3.0

Plotted By: Frogatt, Christopher - Sheet Set: Xha Layout: E3.0 September 28, 2022 05:30:37pm Y:_T-Stores\T-2204 Bryant AR\CAD\T2204 Drivetu Expansion (Site Lighting-Electrical).dwg
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October 12, 2022

City of Bryant
Community Development
210 SW 3rd Street
Bryant, AR 72022

RE: ***Target Building Signage and Drive Up Parking Variance Application***

Mr. Leonard:

Please accept this justification letter in response to the City of Bryant's sign variance application, revised parking layout, and front walk/site sustainability improvements.

Building Signage and Exterior Improvements

The applicant is seeking a variance in the number of signs allowed per street frontage (Section 3.04 – Signs in Commercial C-2 District). The building is situated on a corner lot, allowing for one additional sign on the east frontage of the building, facing Mt. Carmel Road.

Target is proposing 4 signs on the frontage of the building facing northwest toward Mt. Carmel Road. The store currently has one large bullseye sign with "Target" underneath and a CVS Pharmacy sign. The proposed signage on the front of the building includes the following:

- 13'-0" bullseye	132.73 sf
- 1'-2" "Order Pickup" sign	24.59 sf
- "Drive Up" sign with 24" letters	77.10 sf
- CVS Pharmacy sign (existing to remain)	36.62 sf
	271.04 sf total

Section 3.04 of the signage code for Commercial C-2 districts allows for two square feet per one linear foot of building façade. The front of the building is approximately 404' in width, allowing for 808 square feet of total sign area. The proposed sign area is well below this threshold at approximately 271 square feet. The additional "Drive Up" sign is intended to be used as a wayfinding sign to direct customers utilizing the drive-up service to the correct location within the parking lot. The proposed "Order Pickup" sign near the entrance of the building is intended to direct customers to the front entrance for order pickup. Target has found that including these signs reduces customer confusion and circulating the parking lot, reducing the potential for collisions or other incidents. The existing CVS Pharmacy sign is intended to remain in place. All signs are of high quality and are intended to maintain a subtle but effective presence.

The east side of the store will also include one bullseye with "Target" sign (195.7 sf). The street frontage along the eastern side of the building is 347'-5" yielding an allowable signage area of approximately 695 square feet; the proposed signage area is well within the limits at approximately 196 sf. This sign is allowable as stated in Section 3.04 of the signage code for buildings fronting multiple streets.

In addition to the building signage, the proposed façade improvements include the installation of EIFS panelling along the front and east side of the store frontage.

Drive Up Parking Modifications

Target is proposing relocating and expanding the existing Drive-Up area including wayfinding signage. Wayfinding signage on the building is desired to give Target patrons an easy and identifiable location to pick up their online orders. As part of Target's "Drive Up" program, they are expanding the number of stalls at this store location. Along with expanding the total number of stalls, the drive up location is being relocated and a curb ramp installed to align with a proposed doorway from the building utilized by team members (doorway under separate permit). The relocation is proposed to provide a safer and more direct route for team members.

Exterior Site Sustainability and Front Walk Modifications

The existing parking lot islands contain mostly mulch and an unsustainable sod mix. Target is proposing to improve the planting materials within the parking lot islands, replacing the existing planting material with groundcover plant material to reduce urban heat island effect, amend soil in landscape area near critical root zone to create a healther environment for tree species, and encourage pollinators prosperity. The design impact is anticipated to reduce CO2 with site vegetation and intercept additional rainwater runoff.

In addition to the revised planting within the parking lot, Target is proposing to improve a portion of the front entry walk with the installation of cart storage, bike racks, and benches with planter walls and plantings. Plans and a narrative for the site sustainability are provided with this submittal.

Additional Site Lighting – Drive Up Area

As part of the Drive Up expansion, the applicant is proposing to install two additional site lights for employee and customer safety in the drive up area. The proposed site lights will match existing site lights on site in type, size, color, and finish. Preliminary lighting plans are provided with this submittal.

Should you have any questions or require additional information, please do not hesitate to contact me at christian.jones@kimley-horn.com

Sincerely,



Christian Jones, P.E.
KIMLEY-HORN AND ASSOCIATES, INC

T2204 Bryant, AR

09.23.2022 | Exterior Site Sustainability | Haley Maitre

Summary:
The Bryant design focuses on promoting biodiversity, while stewarding in the natural heritage of the central Arkansas region and maintaining a high-level of guest experience. With the implantation of native vegetation, pollinators are supported through the supply of additional food and shelter. Native plants are the best foundation for diversity and ecological growth within a community. Native plants are also more likely to establish quickly and provide year-round beauty. Cleaner air is also a byproduct of species restoration, as plants absorb the carbon dioxide emitted by cars. These native species showcase horticultural appeal at the front of each store and add economic value through the transformation of a parking area.

Site Challenges:
- Existing plant material lacks diversity and abundance within the parking islands
- The reoccurrence of plant species creates a mono-culture and the subsequent lack of bio-diversity is not beneficial to pollinator species
- Existing parking islands consist of mostly mulch and an unsustainable sod mix

Design Response:
- Add groundcover plant material to reduce urban heat island effect and encourage pollinators prosperity
- Amended soil in landscape areas near critical root zone to create a healthier environment for the tree species
- Convert the turf area in the large linear landscape island to a regenerative landscape area.

Design Impact:
- Total Amended Soil Area: 18,276 SF
- Total Number of Parking Island Modified: 28
- Total Amount of CO2 Sequestered Annually by Site Vegetation: 7,780 lbs of CO2
- Runoff Intercepted by Site Vegetation: 57,800 gallons/year

Recommendations & Future Opportunities: Low to Medium Scope
- Utilize areas within landscape islands as potential rain gardens and stormwater filtration efforts
- Install additional landscape islands to minimize existing paving field and reduce the urban heat island effect
- Increase pollinator garden species in sodded perimeter areas to increase sustainability, biodiversity, and aesthetic qualities
- Add landscape islands at catch basins to mitigate stormwater and improve water quality.

FRONT WALK AND EXTERIOR SITE SUSTAINABILITY PLANS
FOR
T-2204 BRYANT, AR

PROJECT TEAM:

LANDSCAPE ARCHITECT / LANDSCAPE ARCHITECT OF RECORD
KIMLEY-HORN AND ASSOCIATES, INC.

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OWNER / DEVELOPER
TARGET

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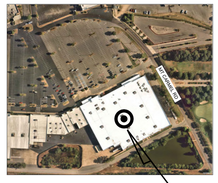
50 S 10TH STREET, STE 400, TP3-1110
MINNEAPOLIS, MN 5540
TELEPHONE: (612) 322-1872



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Sheet List Table

Sheet Number	Sheet Title
L000	COVER SHEET
L001	GENERAL NOTES
L100	DEMO PLAN - FRONT WALK
L101	DEMO PLAN - EXTERIOR SITE
L200	SITE - FURNITURE PLAN
L201	SITE - FURNITURE DETAILS
L300	LANDSCAPE PLAN - FRONT WALK
L301	LANDSCAPE PLAN - EXTERIOR SITE
L302	LANDSCAPE NOTES AND DETAILS
L400	IRRIGATION PLAN - FRONT WALK

NOTES:

1. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
2. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A ARCH full bleed E (36.00 x 48.00 Inches) SHEET.
3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

ULTRA-LOW SCOPE DEFINITION:

- ENHANCE EXISTING LANDSCAPE AREA - APPROXIMATELY 8,000 - 10,000 SQFT
- ASSESS EXISTING VEGETATION HEALTH
- DEMOLITION OF NON-NATIVE AND/OR UNHEALTHY PLANTS
- ADD GROUND LEVEL PLANT MATERIAL TO REDUCE HEAT ISLAND EFFECT AND ENCOURAGE POLLINATORS AND BIRD HABITAT
- ADD CANOPY TREES WITHIN THE EXISTING PARKING LOT MEDIANS
- PROVIDE IRRIGATION PERFORMANCE SPECIFICATION TO EVALUATE ADEQUATE WATER FOR NEW LANDSCAPE MATERIAL
- CREATE CURB CUTS TO FACILITATE STORMWATER MITIGATION WHERE APPLICABLE

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

COVER SHEET

L000

9/23/2022

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS FROM AVAILABLE RECORD PLANS PROVIDED BY THE OWNER. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT AT THE TIME OF PLAN PREPARATION AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE LANDSCAPE ARCHITECT. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE LANDSCAPE ARCHITECT.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

10. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT AND OWNER.

EROSION CONTROL NOTES

1. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

2. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

3. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

4. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

6. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

7. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS IS PRACTICABLE.

8. ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.

10. EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT.

11. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE AUTHORITY HAVING JURISDICTION (AHJ) ENGINEERING DIVISION.

GRADING AND DRAINAGE NOTES

1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY LANDSCAPE ARCHITECT IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT.

3. CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.

4. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.

5. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

6. THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.

9. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.

10. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.

11. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

12. ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.

13. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

14. CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

PAVING AND STRIPING NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR WISDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND CITY STANDARDS.

3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, SIGNS, AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS.

4. ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.

5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.

7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.

8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.

9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.

10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.

11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

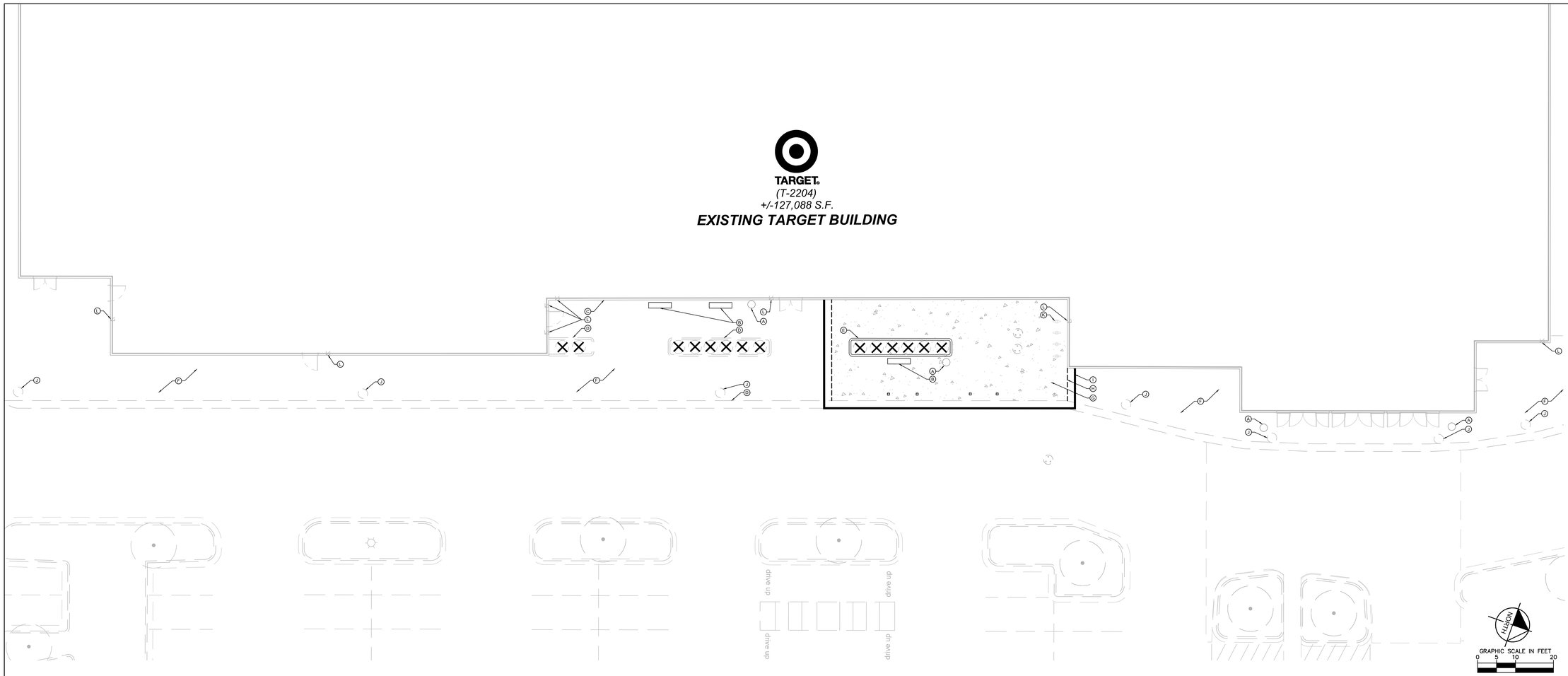
TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

GENERAL NOTES

L001



1 DEMO PLAN

SCALE: 1"=10'

L100

DEMOLITION PLAN NOTES

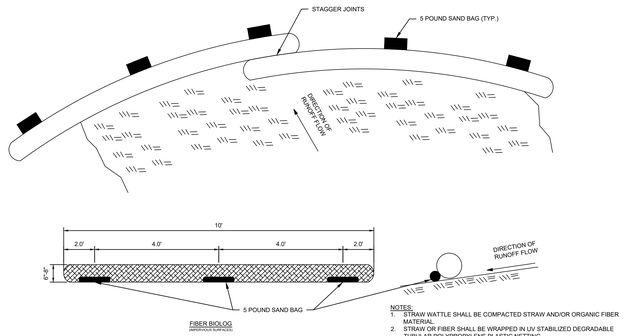
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES WITHIN ALL AREAS OF PROPOSED WORK.
4. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS ANY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PRECEDING WITH THE WORK.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH THE CITY OF MANSFIELD, RICHLAND COUNTY AND O/DOT.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ALL PROPERTIES IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING CONSTRUCTION.
8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
9. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. ALL UTILITIES SHOWN ARE EXISTING UTILITIES.
11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ANY EXISTING DRAINTILE IS ENCOUNTERED ON SITE. NO ACTIVE DRAINTILE SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.

KEYNOTE LEGEND

- (A) REMOVE TRASH RECEPTACLE (TYP.)
- (B) REMOVE BENCH (TYP.)
- (C) BUILDING CURB TO REMAIN (TYP.)
- (D) CONCRETE CURB TO REMAIN (TYP.)
- (E) REMOVE CONCRETE CURB (TYP.)
- (F) CONCRETE SIDEWALK TO REMAIN (TYP.)
- (G) REMOVE CONCRETE SIDEWALK (TYP.)
- (H) SAWCUT LINE (TYP.)
- (J) FIBER BIO-LOG
- (J) SPHERICAL BOLLARD TO REMAIN (TYP.)
- (K) REMOVE BIKE RACK (TYP.)
- (L) SECURITY CAMERA TO REMAIN (TYP.)

LEGEND

EXISTING	REMOVALS	
		PROPERTY LINE (TYP.)
		CONCRETE SURFACE (TYP.)
		FULL DEPTH SAWCUT (TYP.)
		TREE (TYP.)
		LIMITS OF CONSTRUCTION (TYP.)
		CURB & GUTTER (TYP.)
		WATERMAIN (TYP.)
		SIGN (TYP.)
		STORM MANHOLE (TYP.)
		STORM CATCHBASIN (TYP.)
		ROOF DRAIN (TYP.)
		HYDRANT (TYP.)
		LIGHT POLE (TYP.)
		SPHERICAL BOLLARD (TYP.)
		CYLINDRICAL BOLLARD (TYP.)
		BENCH (TYP.)
		TRASH RECEPTACLE (TYP.)
		BIKE RACK (TYP.)
		BUILDING CURB (TYP.)
		TABLE (TYP.)
		CART STORAGE (TYP.)



NOTES:
1. STRAW WATTLE SHALL BE COMPACTED STRAW AND/OR ORGANIC FIBER MATERIAL.
2. STRAW OR FIBER SHALL BE WRAPPED IN UV STABILIZED DEGRADABLE TUBULAR POLYPROPYLENE PLASTIC NETTING.

2 FIBER BIO-LOG

SCALE: N.T.S.

L100

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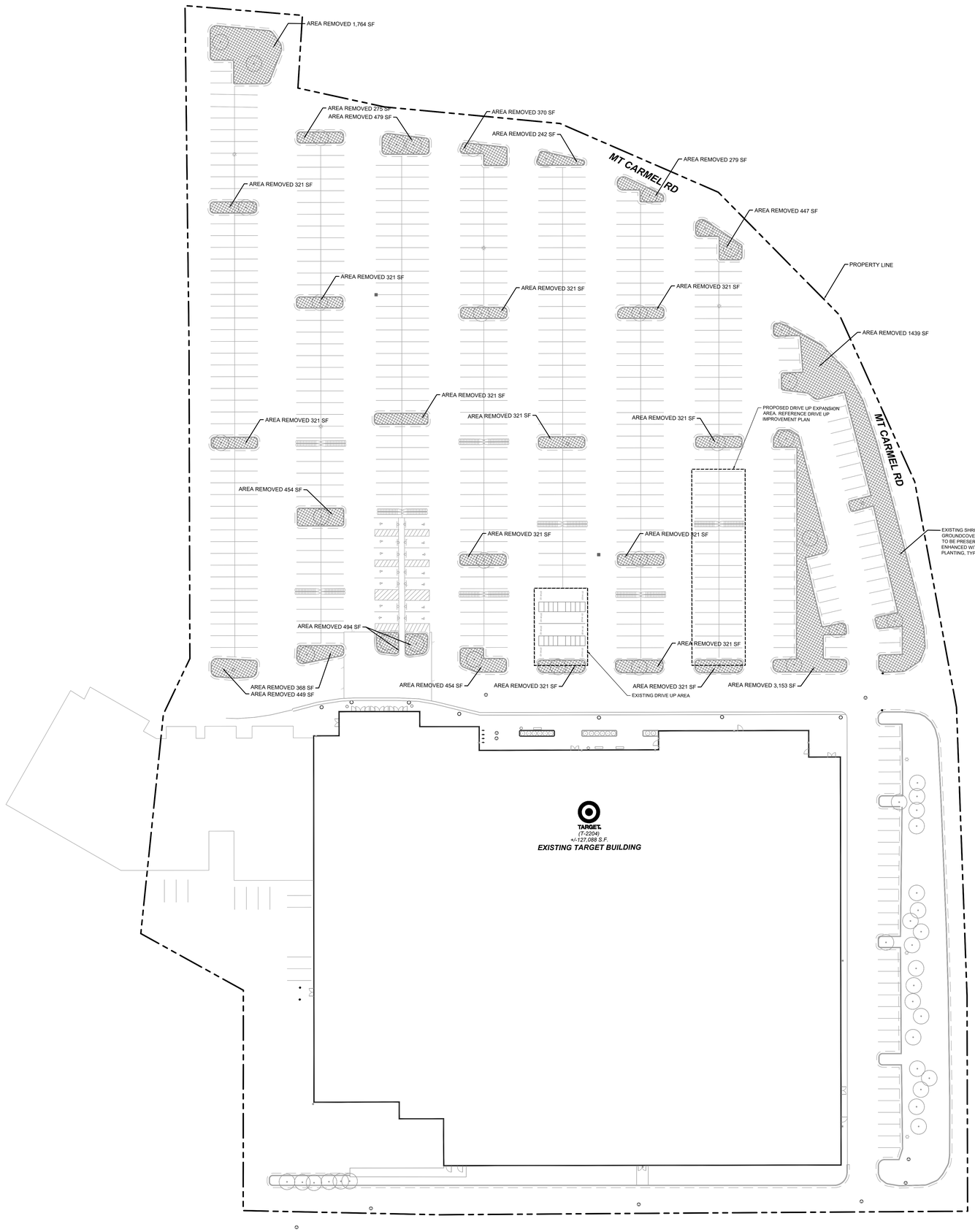
Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

DEMO PLAN
FRONT WALK

L100



TARGET
(T-2204)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER PLANTS TO BE REMOVED = **18,276 SF**
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

GRAPHIC SCALE IN FEET
0 15 30 60

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TARGET

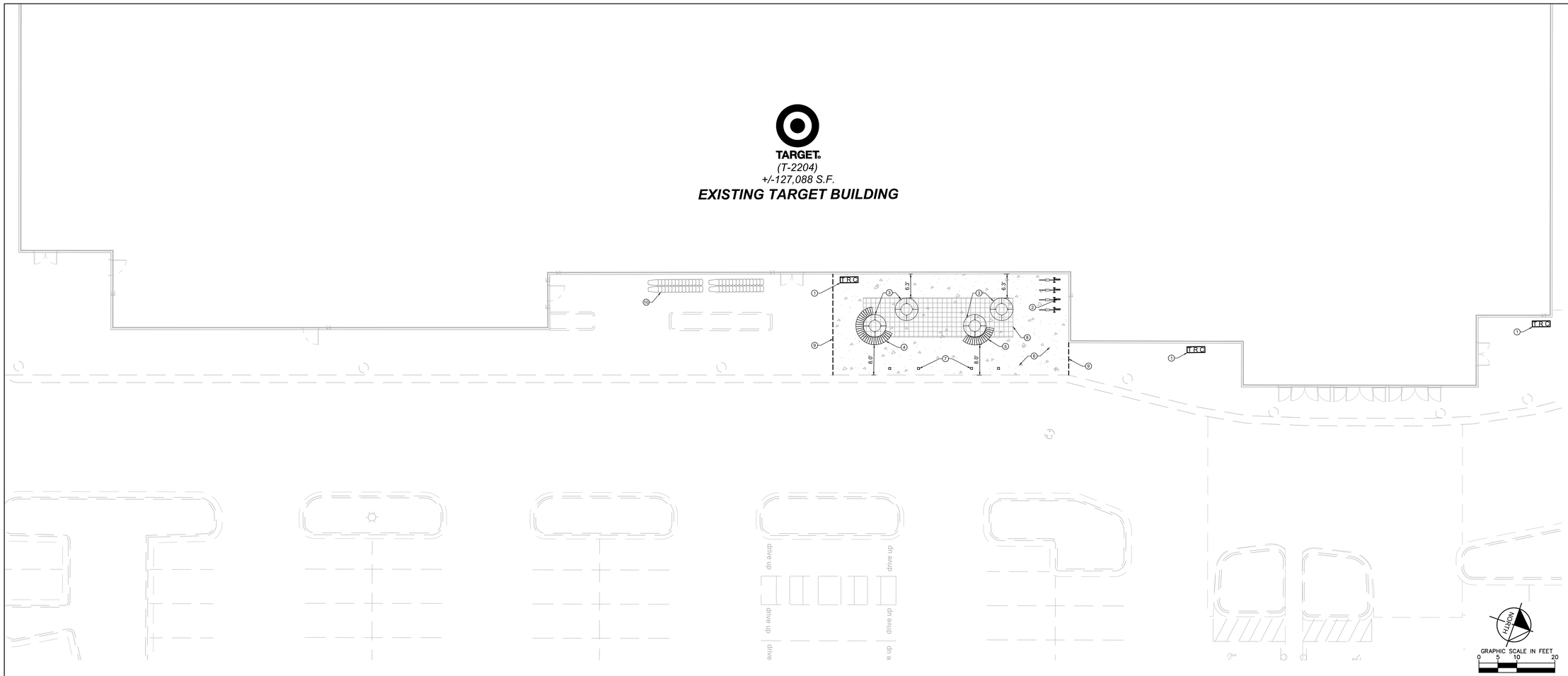
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	OS
CHECKED BY: EIW	KSS/HM

DEMO PLAN - EXTERIOR SITE

L101

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 SITE FURNITURE PLAN
SCALE: 1"=10'

L200

MATERIALS SCHEDULE

KEYNOTE	QUANTITY	SYMBOL	ELEMENT	PRODUCTS/MANUFACTURER	COLOR/FINISH	DETAIL
1	3	T.R.C	OUTDOOR LITTER RECEPTACLE - SURFACE MOUNTED (TYP.)	MODEL: SELECT, STYLE 3 MANUFACTURER: LANDSCAPE FORMS	METALLIC STEEL/ POWDER COAT	1 / L201
2	4 (INDIV.)		BIKE RACK - SURFACE MOUNTED (TYP.)	MODEL: RING MANUFACTURER: LANDSCAPE FORMS	STAINLESS STEEL/ POWDER COAT	2 / L201
3	2		PLANTER WALL (TYP.)	MODEL: KITSAP MODULAR PLANTER WALLS - LARGE (72" DIA.) MANUFACTURER: TOURNESOL SITE WORKS	POWDER COAT WHITE	3 / L201
4	1		CUSTOM BENCH 1 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 1 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
5	1		CUSTOM BENCH 2 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 2 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
6	1,655 SQ. FT		CONCRETE SIDEWALK (TYP.)			5 / L201
7	4		PROFILE BOLLARD (TYP.)			4 / L201
8	409 SQ. FT		STRUCTURAL SOIL (TYP.)			DETAIL TO COME
9	35 FT.		SAWCUT LINE (TYP.)			
10	30 FT.		CART STORAGE			

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
4. NO PROPOSED LANDSCAPING SUCH AS TREES OR SHRUBS, ABOVE AND UNDERGROUND STRUCTURES, OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN EXISTING OR PROPOSED UTILITY EASEMENTS AND RIGHTS OF WAY UNLESS SPECIFICALLY NOTED ON PLANS OTHERWISE.

811 Know what's below. Call 811 before you dig.

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn
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401 B STREET, SUITE 600
SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

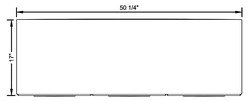
PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

SITE FURNITURE PLAN FRONT WALK

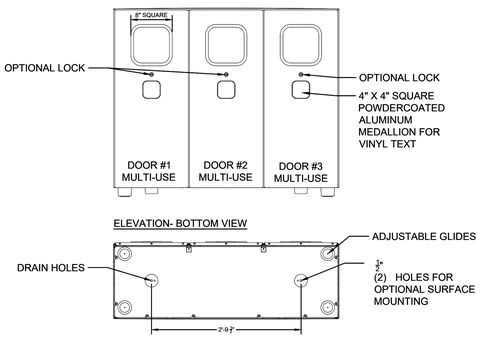
L200

Know what's below. Call before you dig.

PLAN- TOP VIEW

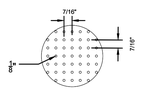


ELEVATION- FRONT VIEW

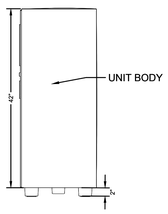


ELEVATION- BOTTOM VIEW

OPTIONAL PERFORATED DETAIL



ELEVATION- SIDE VIEW



*IT IS NOT RECOMMENDED TO DRILL HOLES FOR ANCHORING UNTIL UNIT IS ON SITE.

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

FINISH: METALLIC STEEL/ POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

1 TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

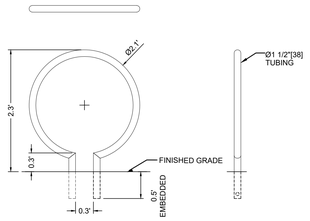
SCALE: N.T.S. L201

MANUFACTURER: LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: RING BIKE RACK

FINISH: POWDER COAT METALLIC STEEL

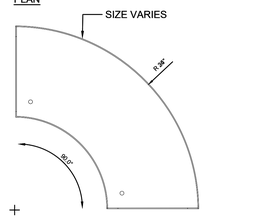
NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

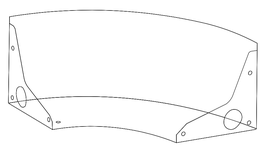


2 RING BIKE RACK

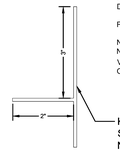
SCALE: N.T.S. L201

PLAN





TOP LIP OPTION



MANUFACTURER: TOURNESOL SITE WORKS

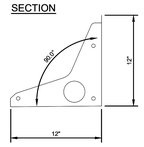
MODEL: KITSAP MODULAR PLANTER WALLS - SMALL (5' DIA.)

FINISH: POWDER COAT WHITE

NOTES: ALL DIMENSIONS ARE NOMINAL, ACTUAL SIZE MAY VARY +/- 1" UNLESS SPECIFIED OTHERWISE

KP- S
STRAIGHT EDGE
NO TOP LIP

SECTION



3 TOURNESOL PLANTER WALL

SCALE: N.T.S. L201

PLAN- TOP VIEW

BASE PLATE DETAIL

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(630) 430-6209

MODEL: PROFILE UNLIT PERIMETER BOLLARD

FINISH: METALLIC STEEL/POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

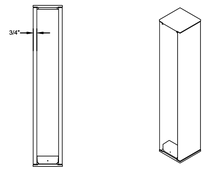
ELEVATION- FRONT



ELEVATION- BACK

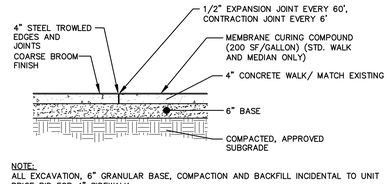


SIDE SECTION



4 PROFILE BOLLARD

SCALE: N.T.S. L201



NOTE:
ALL EXCAVATION, 6" GRANULAR BASE, COMPACTION AND BACKFILL INCIDENTAL TO UNIT PRICE BID FOR 4" SIDEWALK.

5 CONCRETE SIDEWALK

SCALE: N.T.S. L201

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TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn

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401 B STREET, SUITE 600
SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204

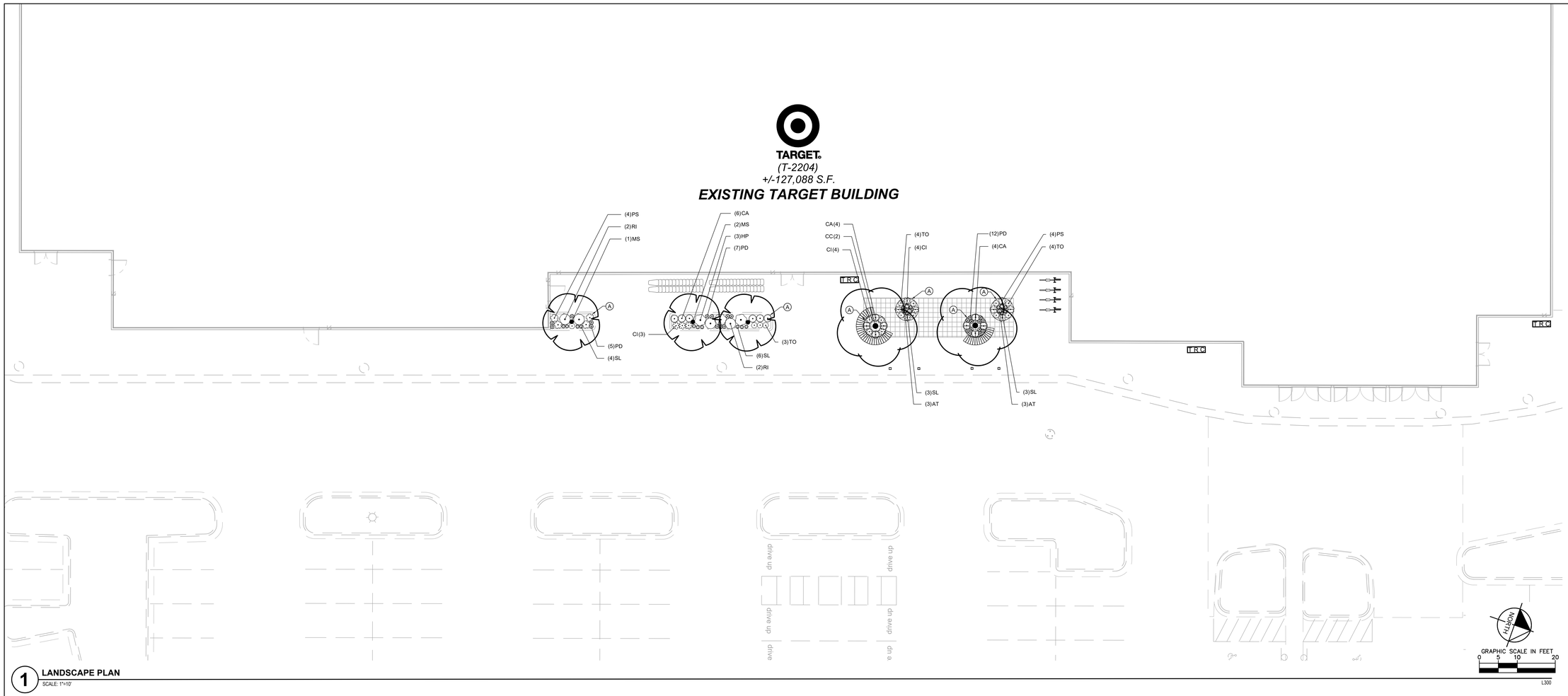
CONFIG:

DRAWN BY: CDE

CHECKED BY: EIW

SITE FURNITURE DETAILS FRONT WALK

L201



1 **LANDSCAPE PLAN**
SCALE: 1"=10'

L300

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, PROJECT STATE-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
   CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. CONTRACTOR TO VERIFY PLANTS REQUIRED AS REFLECTED ON PLAN. NOTIFY LANDSCAPE ARCHITECT IF PLAN AND SCHEDULE DO NOT MATCH. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND COLORED RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK, COLOR BLACK, SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
19. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD PROJECT STATE-GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED.
20. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
21. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
22. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
23. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
24. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

LANDSCAPE KEYNOTES

Ⓐ DOUBLE SHREDDED HARDWOOD MULCH (TYP.)

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
	CC	2	CERCIS CANADENSIS	EASTERN REDBUD	B & B	2.5" CAL MIN
ORNAMENTAL TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**
	MS	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B & B	2" CAL MIN
DECIDUOUS SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CA	14	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#5 CONT.	2` OC
	HP	3	HYPERICUM PROLIFICUM	SHRUBBY ST. JOHN'S WORT	#5 CONT.	3` OC
	RI	4	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	#5 CONT.	3` OC
ORNAMENTAL GRASSES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	AT	6	ANDROPOGON TERNARIUS	SPLITBEARD BLUESTEM	#1 CONT.	2` OC
	SL	16	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 CONT.	1` OC
PERENNIALS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CI	11	CALLIRHOE INVOLUCRATA	PURPLE POPPYMALLOW	#1 CONT.	2` OC
	PD	24	PENSTEMON DIGITALIS	BEARDTONGUE	#1 CONT.	1` OC
	PS	8	PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAIN MINT	#1 CONT.	2` OC
	TO	12	TRADESCANTIA OCCIDENTALIS	PRAIRIE SPIDERWORT	#1 CONT.	1` OC

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MINNEAPOLIS, MN 55403

Kimley»Horn
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

LANDSCAPE PLAN
FRONT WALK

L300



TARGET
(T-xxxx)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CAL	HT	
	2	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	B & B	8'GAL	
	2	NYSSA SYLVATICA / BLACK GUM	B & B	8'GAL	
SHRUBS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT.**		
	47	ARONIA ARBUTIFOLIA / RED CHOKEBERRY	3 GAL		
	154	ILEX GLABRA / INKBERRY HOLLY	3 GAL		
	57	ITEA VIRGINICA / VIRGINIA SWEETSPIRE	3 GAL		
	51	RHUS AROMATICA / FRAGRANT SUMAC	3 GAL		
GROUND COVERS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	326	CALYPTOCARPUS VIALIS / HORSEHERB	1 GAL		24" o.c.
	1,278	IRIS VERSICOLOR / BLUE FLAG	1 GAL		12" o.c.
	1,912	RUDBECKIA X 'AMERICAN GOLD RUSH' / AMERICAN GOLD RUSH CONEFLOWER	1 GAL		12" o.c.
	619	SOLIDAGO RUGOSA / WRINKLELEAF GOLDENROD	1 GAL		24" o.c.
	1,261	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL		30" o.c.
GROUNDCOVER AREAS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	204	SHREDDED HARDWOOD MULCH	MULCH		

NOTE:

TOTAL SOIL AREA TO BE AMENDED : **18,276 SF**

AMENDED SOIL PROFILE FROM TOP TO BOTTOM:

- 3" DEPTH SHREDDED HARDWOOD MULCH
- 18"-24" DEPTH AMENDED SOIL PER SPECIFICATIONS
- FILTER FABRIC WRAPPING FREE DRAINING AGGREGATE
- 4" DEPTH FREE DRAINING AGGREGATE BASE
- 3" WIDE PERFORATED PIPE WITH DRAIN AND SOCK FOR SOIL AERATION THROUGH DEPTH OF AMENDED SOIL PROFILE. PIPE LOCATIONS TO BE DETERMINE BY LANDSCAPE ARCHITECT IN CONSTRUCTION DOCUMENT SET.

PROPOSED PLANT LOCATIONS IN EXISTING SHRUB AND GROUNDCOVER AREAS TO REMAIN ARE APPROXIMATE. THESE PROPOSED PLANTS SHALL BE LOCATED WITHIN OPEN SPACES BETWEEN EXISTING SHRUB AND GROUNDCOVER PLANTS TO ENHANCE THE AREA AND PLANTED IN THE FIELD AS DIRECTED BY THE LANDSCAPE ARCHITECT.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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Know what's **below.** Call before you dig.

OS

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1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn

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SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

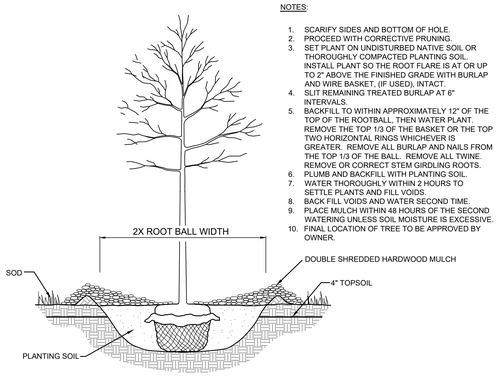
PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY:	OS
CHECKED BY:	KSS/HM

LANDSCAPE PLAN EXTERIOR SITE

L301

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE, (800) 242-8511 OR DIGGERSHOTLINE.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, WISCONSIN-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO WISDOT STANDARD SPECIFICATION 625 (TOPSOIL AND SALVAGED TOPSOIL) AND BE LOCAL FERTILE AGRICULTURAL SOIL FREE OF SUBSOILS, ROCKS, CLAYS, PLANTS, WEEDS, ROOTS, AND OTHER IMPURITIES. PH VALUE SHALL BE BETWEEN 5.4 AND 7.0. REMOVE DEBRIS AND WEEDS FROM SUBSOIL. SCARIFY SUBSOIL DEPTH OF 2" PRIOR TO PLACING TOPSOIL. SPREAD TOPSOIL TO A MINIMUM DEPTH OF 6" IN SOD/SEED AREAS, 18" FOR PLANTING BEDS, AND 36" FOR TREE AREAS. TOPSOIL PLACEMENT SHALL TAKE PLACE DURING DRY WEATHER. PREPARE TOPSOIL SO THAT IT IS FREE OF DEBRIS AND GRADED TO DRAIN AS INDICATED ON GRADING PLANS. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT AND PROHIBIT CONSTRUCTION TRAFFIC FROM AREAS WITH TOPSOIL
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR/DYE-FREE RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. MODIFY EXISTING IRRIGATION SYSTEM TO PROVIDE A COMPLETE, WORKING SYSTEM. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
19. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
20. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
21. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD: 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

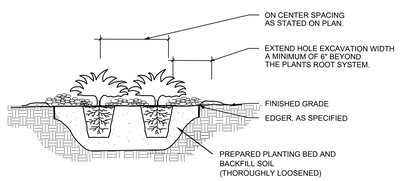


NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

14 TREE PLANTING DETAIL

SCALE: N.T.S. L302



NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

15 SHRUB / PERENNIAL PLANTING DETAIL

SCALE: N.T.S. L302

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SAN DIEGO, CA 92101
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

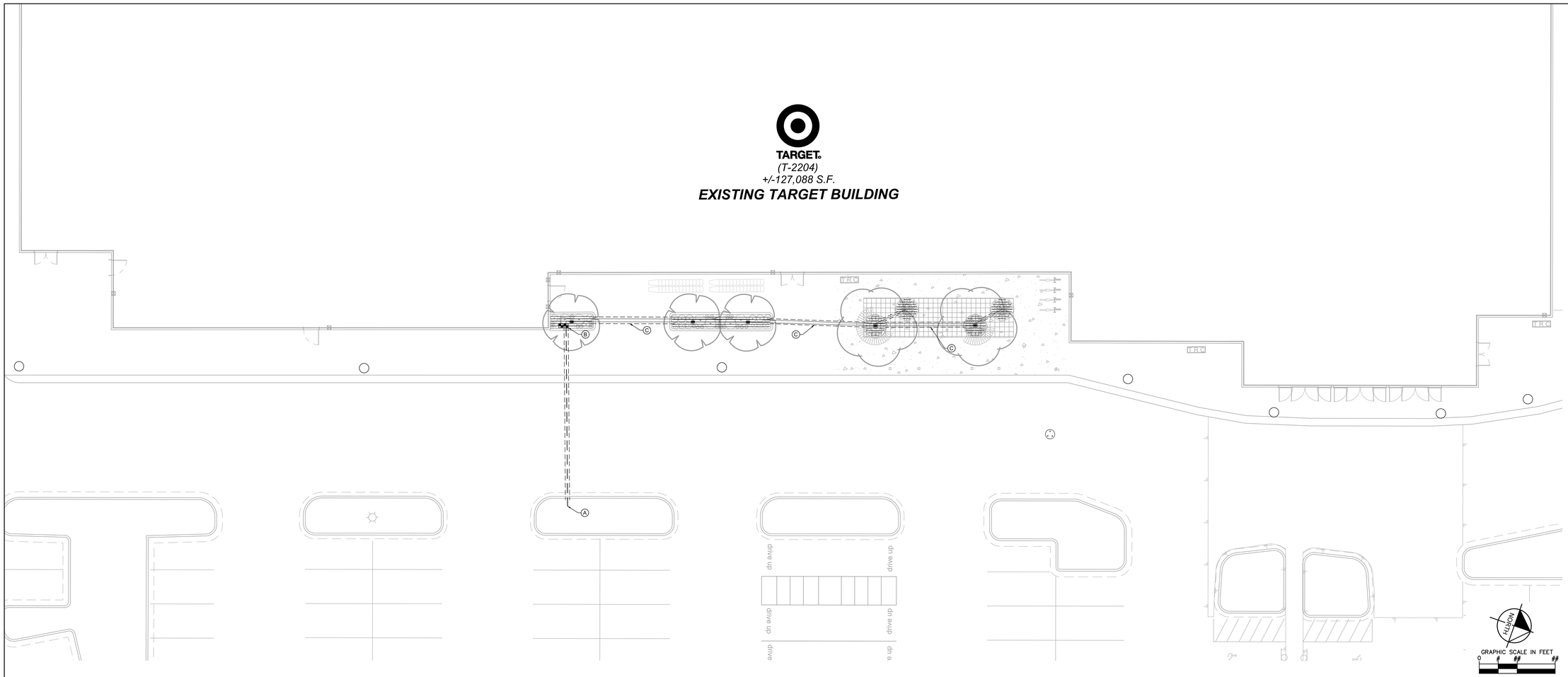
TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	
CHECKED BY: EIW	

LANDSCAPE NOTES AND DETAILS

L302

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 IRRIGATION PLAN
SCALE: 1"=10'

L400

IRRIGATION NOTES

1. IRRIGATION SYSTEM IS DIAGRAMMATIC. CONTRACTOR TO VERIFY AND DESIGN PER ACTUAL PRESSURE, PER LOCAL CODES, AND PER SITE REQUIREMENTS. FIELD VERIFY LOCATION OF COMPONENTS WITH ACTUAL CONDITIONS PRIOR TO INSTALLATION, ADJUST AS NEEDED FOR COMPLETE COVERAGE. SYSTEM TO INCLUDE ALL PLUMBING AND ELECTRICAL, INCLUDING CONDUIT, SLEEVING, AND WEATHER-PROOF ENCLOSURES. SYSTEM SHALL BE COMPLETE. CONTRACTOR TO PROVIDE SHOP DRAWINGS, DESIGN PRESSURE DESIGN CALCULATIONS, AND RELATED PRODUCT SHEETS FOR OWNER OR LANDSCAPE ARCHITECT APPROVAL. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS OF IRRIGATION SYSTEM AT THE COMPLETION OF THE PROJECT. SYSTEM SHALL HAVE A ONE-YEAR WARRANTY ON PARTS AND LABOR. THE IRRIGATION SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION. SEE SITE IRRIGATION SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS, IF APPLICABLE. ZONE PARAMETERS: TURF AREAS SHALL HAVE SPRAYS/ROTORS, SHRUB/ PERENNIAL AREAS SHALL HAVE DRIP, AND TREES SHALL HAVE BUBBLERS.
2. ALL PIPE 1.5" OR GREATER SHALL BE SDR 26 CLASS 200 FOR MAINLINE AND CLASS 160 FOR LATERLINE PVC PIPE(DO NOT EXCEED 35 GPM FOR 1.5" AND 58 GPM FOR 2"). ALL PIPE 1.25" OR 1" SHALL BE 100 POLY PIPE OR CLASS 160 PVC PIPE, AS INDICATED(DO NOT EXCEED 13 GPM FOR 1" AND 22 GPM FOR 1.25"). PIPE SIZE TO BE IDENTIFIED BY CONTRACTOR PER ZONE REQUIREMENTS. DEPTH OF PIPE TO BE APPROXIMATELY 18" FOR MAINLINE AND 12" FOR LATERAL LINES, OR AS REQUIRED, FIELD VERIFY. LOCATE IRRIGATION PIPE AWAY FROM PLANT MATERIAL.
3. ALL WIRING, BACKFLOW PREVENTOR, AND PLUMBING AS PER LOCAL CODE. WATER CONNECTION BY MECHANICAL AND UTILITY CONTRACTOR. VERIFY AND ADD BOOSTER PUMP AS REQUIRED. VERIFY POWER CONNECTION WITH ELECTRICAL.
4. ALL VALVES, FLOW SENSORS, AND QUICK COUPLERS SHALL BE LOCATED IN VALVE BOXES(SIZED FOR NORMAL MAINTENANCE, FLUSH WITH FINAL GRADE. PROVIDE (2) QUICK COUPLER KEYS AND HOSE SWIVELS. PROVIDE DECODERS FOR 2-WIRE SYSTEM AT EACH VALVE. FOR DRIP ZONES, PROVIDE DRIP KIT OF VALVE, PRESSURE REDUCER, AND FILTER WITHIN ONE VALVE BOX. DRIP ZONE AIR RELIEF VALVE AND FLUSH VALVE TO BE IN SEPARATE VALVE BOXES.
5. CONTROLLER TO BE COMMERCIAL TYPE, SIZED FOR NUMBER OF ZONES, CAPABLE OF 2-WIRE TECHNOLOGY, INCLUDING DECODER MODULE AND SURGE PROTECTION. SYSTEM TO BE 2-WIRE TECHNOLOGY WITH REQUIRED GROUNDING(LIGHTING PROTECTION). MOUNT AND CONNECT CONTROLLER AND OTHER CONTROLLER ACCESSORIES, SUCH AS HAND HELD REMOTE, WEATHER/RAIN/FREEZE SENSOR, FLOW SENSOR, AND OTHER RELATED ITEMS. THIS ALSO INCLUDES PAINTED CONDUIT AND MOUNTING BOARDS AND HARDWARE FOR ALL EXPOSED AREA, AS DIRECTED BY OWNER. INSTALL WEATHER/RAIN/FREEZE SENSOR ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S) PER OWNER'S APPROVAL.
6. FIRST YEAR WINTERIZATION AND SPRING START UP OF SYSTEM SHALL BE PERFORMED BY IRRIGATION CONTRACTOR, UNLESS INDICATED OTHERWISE.
7. MINIMUM 4" PVC SCHEDULE 40 SLEEVING SHALL BE REQUIRED UNDER ALL WALKS AND PAVEMENTS FOR IRRIGATION PIPE AND WIRES. PROVIDE 12" LENGTH OF #3 REBAR AT EACH TEMPORARILY SEALED END, STAND PIPE, OR OTHER APPROVED METHODS FOR FUTURE LOCATING. EXTEND SLEEVING AT LEAST 1 FOOT BEYOND EDGE OF PAVEMENT. PROVIDE PVC STAND PIPE FOR LOCATING ENDS OF SLEEVING. PROVIDE MINIMUM TWO SIZES LARGER THAN PIPE SIZE. PROVIDE ADDITIONAL SLEEVING FOR WIRING, AS NEEDED. SLEEVE DEPTH IS PRIMARILY 18 INCHES, OR AS REQUIRED. COORDINATE AND PLACE SLEEVING PRIOR TO PAVEMENT INSTALLATION. DIRECTIONAL BORE UNDER PAVEMENT IN EXISTING CONDITIONS TO REMAIN.
8. BIDDING CONTRACTORS SHOULD BECOME THOROUGHLY FAMILIAR WITH ALL FACETS OF THE PROPOSED IRRIGATION SYSTEM. FAILURE TO CLARIFY MISUNDERSTANDINGS, OR INTENT OF THESE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTAL OF BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE IRRIGATION CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB UTILITIES OR EXISTING CONDITIONS. CONTRACTOR SHALL REPAIR/RESTORE ANY DAMAGE INVOLVING IRRIGATION INSTALLATION.
10. INSTALL WEATHER/RAIN/FREEZE SENSOR(S) ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S). COORDINATE WITH OWNER'S AUTHORIZED REPRESENTATIVE AS TO FINAL LOCATION.
11. CONTROL WIRE WILL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN GROUND, MINIMUM GAUGE: MINIMUM #14 U.F. FOR EITHER MULTI-STRAND OR TWO-WIRE. COMMON GROUND WIRE, IF APPLICABLE, SHALL BE MINIMUM #12 GAUGE WHITE. FOR MULTI-STRAND SYSTEMS, PROVIDE TWO EXTRA CIRCUIT WIRES AND ONE EXTRA COMMON GROUND WIRE FOR ENTIRE MAINLINE LENGTH, MARK AS APPROPRIATE. 24 VAC WIRE SPLICING MATERIAL WILL BE DIRECT BURIAL SPLICE KIT AS MANUFACTURED BY 3M.
12. SOME AREAS MAY REQUIRE RISER EXTENSIONS FOR SPRINKLERS OR A FIXED RISER WITH A SHRUB HEAD OR SHRUB ADAPTER TO OBTAIN PROPER COVERAGE. ROTOR NOZZLES TO PROVIDE PROPER COVERAGE AND MATCH PRECIPITATION, AS REQUIRED. FIELD ADJUST AS NEEDED. SPRAY HEADS IN TURF AREAS TO BE 6" POP-UPS AND IN LANDSCAPE BEDS TO BE 12" POP-UPS. INSTALL ROTOR AND SPRAY HEADS TO LATERAL LINE WITH FLEX TUBING OR SWING JOINTS. BUBBLERS TO BE ON 6" POP-UP.
13. VERIFY AND COORDINATE FINAL LOCATION OF WATER SOURCE AND ELECTRICAL POWER CONNECTION.
14. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH OTHER IMPROVEMENTS.
15. PROVIDE 1" VALVES FOR SPRAY AND ROTOR ZONES FOR 30 GPM OR LESS, AND 1.5" VALVE FOR ZONES GREATER THAN 31 GPM. DRIP ZONES PROVIDE 3/4" OR 1" VALVES PER DEMAND OF ZONE.
16. CONTRACTOR TO SCHEDULE AND PROGRAM CONTROLLER AND VALVES FOR APPROPRIATE LANDSCAPE WATER REQUIREMENTS. VERIFY WITH OWNER AS TO TIME AND SPECIFIC REQUIREMENTS.
17. DRIP IRRIGATION TO FOLLOW MANUFACTURERS RECOMMENDATION FOR TYPE, SIZE, AND LOCATION PER LANDSCAPE CONDITION. EACH DRIP ZONE SHALL HAVE ZONE VALVE, PRESSURE REDUCER, AND FILTER, AIR RELIEF VALVE, FLUSH VALVE, SUPPLY LATERAL LINES, DRIP TUBING WITH EMBEDDED EMITTERS, AND OTHER RELATED ITEMS. DRIP TUBING SHALL BE ANCHORED AND UNDER LANDSCAPE MULCH, HIDDEN FROM VIEW, WITH EMITTERS LOCATED AT PLANT LOCATIONS. DRIP TUBING SHALL ALSO BE LOOPED AND INTERCONNECTED, WITH NO DEAD-ENDS. ANY ADDITIONAL EMITTERS, AS NOTED ON PLAN.

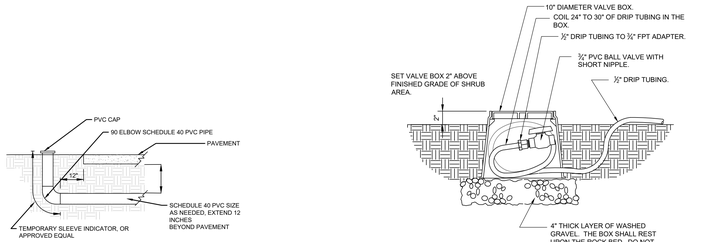
IRRIGATION KEYNOTES

- (A) POINT OF CONNECTION, VERIFY LOCATION WITH OWNER
- (B) MAINLINE & VALVES SHOWN FOR CLARITY. INSTALL MAINLINE AND VALVE WITHIN THE PROPERTY LINE, 6" FROM B.O.C WHEN POSSIBLE, AND IN GREEN SPACE. COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS (TYP.)
- (C) ALL DRIP ZONES TO HAVE MINIMUM 12" SETBACK (CLEAR ZONE) BETWEEN DRIPLINE AND SOD EDGE OR PAVEMENT EDGE. (TYP.)

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1401 1402	RAIN BIRD RWS-M-B-C W/ RWS-SOCK 1401 MINI ROOT WATERING SYSTEM WITH 4" DIAMETER X 18" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE AND RAIN BIRD 1401 0.25 GPM OR 1402 0.5 GPM BUBBLER AS INDICATED. WITH CHECK VALVE, AND SAND SOCK FOR SANDY SOIL.	5	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER, 0.3 GPM-20 GPM	2	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-04-12 XFS-CV SUB-SURFACE AND ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.9 PSI CHECK VALVE, 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.	215.6 L.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	237.6 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	48.9 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	120.1 L.F.	

Valve Callout
Valve Number
Valve Flow
Valve Size

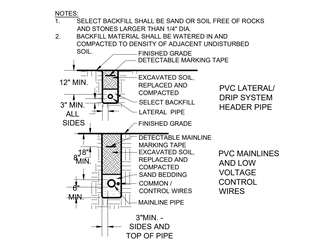


3 DRIP FLUSH VALVE
SCALE: 1 1/2" = 1'-0"

L400

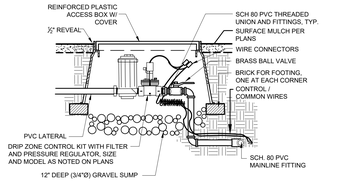
2 TYPICAL SLEEVE DETAIL
SCALE: NTS

L400

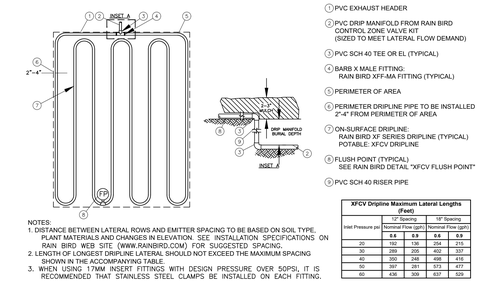


4 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE
SCALE: N.T.S.

L400



5 DRIP ZONE CONTROL KIT
SCALE: N.T.S.



NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFCV Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9
20	192	136	264	215
30	288	205	402	337
40	352	248	498	416
50	397	281	573	477
60	436	309	637	529

6 XFCV ON-SURFACE DRIPLINE - QUICK LAYOUT
SCALE: NTS

L400

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SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

IRRIGATION PLAN
FRONT WALK

L400

TARGET®

DRIVE UP EXPANSION
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

SCOPE OF WORK

PARKING LOT RE-STRIPING, STALL PARKING SIGNAGE AND WAYFINDING DRIVE UP BEACONS WHERE SHOWN ON THE PLAN.

ZONING

C-2 - GENERAL COMMERCIAL DISTRICT

OFF-STREET PARKING LOT CODE REQUIREMENTS

- DRIVE AISLE = 20' MIN. WIDTH
- STANDARD PARKING STALL = 10' X 20' MIN.

OWNER

TARGET CORP.
CONTACT: MATTHEW FLANSBURG
50 SOUTH 10TH ST, SUITE 400
MINNEAPOLIS, MN, 55403
MATTHEW.FLANSBURG@TARGET.COM

CIVIL ENGINEER

KIMLEY-HORN
CONTACT: JUSTIN BECKER P.E.
401 B ST, SUITE 600
SAN DIEGO, CA, 92101
619-234-9411
JUSTIN.BECKER@KIMLEY-HORN.COM



VICINITY MAP
NTS

NORTH

SHEET INDEX

COVER SHEET.....C0.0

OVERALL SITE PLAN.....C0.1

IMPROVEMENT PLAN.....C1.0

DETAILS.....C2.0 - C2.1

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MEMPHIS, TN 38138
901-374-9109
WWW.KIMLEY-HORN.COM

Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

COVER SHEET

C0.0

Plotted By: Schlueter, Noble Sheet Set: Kha Layout: C0.0 May 06, 2022 10:17:06am C:\Users\Noble.Schlueter\OneDrive - KHA\Documents_T-Stores\2204 Bryant, AR\CAD\T2204 DriveUp Expansion_NonCompy.dwg
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OVERALL SITE PLAN
1" = 40'

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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MINNEAPOLIS, MN 55403

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MEMPHIS, TN 38138
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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

OVERALL SITE PLAN

C0.1

Plotted By:Schuster, Noble Sheet Set:Kha Layout:C0.1 May 06, 2022 10:17:25am C:\Users\NobleSchuster\OneDrive - KH\Documents_T-Stores\T-2204 Bryant AR\CAD\T2204 DriveUp Expansion_NonCanopy.dwg
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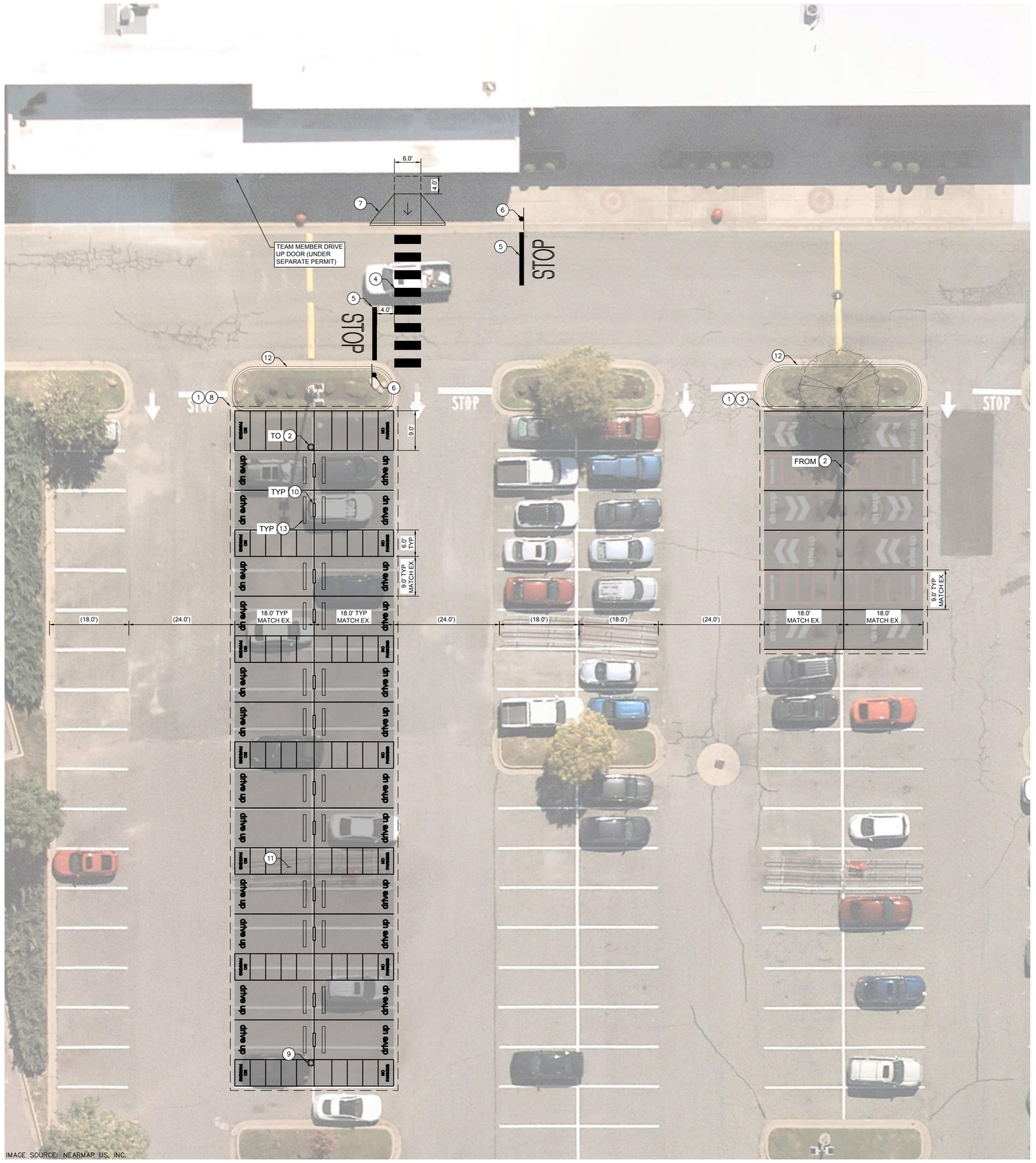

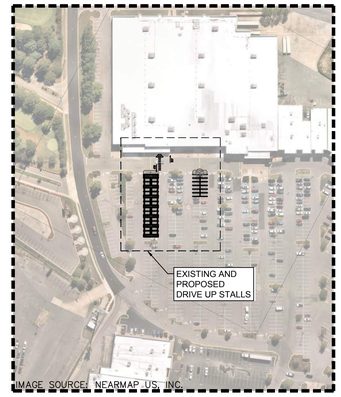

KEY MAP
1" = 150'

CONSTRUCTION NOTES

1. REMOVE EXISTING STRIPING AND DRIVE UP SIGNAGE.
2. REMOVE AND RELOCATE EXISTING DRIVE UP BEACON.
3. RESTRIPE STANDARD PARKING STALLS USING 4" WIDE WHITE STRIPING.
4. INSTALL CROSSWALK PER DETAILS SHEET.
5. INSTALL STOP BAR AND MARKING PER DETAILS SHEET.
6. INSTALL STOP SIGN PER DETAILS SHEET.
7. INSTALL CURB RAMP PER DETAILS SHEET.
8. INSTALL DRIVE UP STRIPING AND SIGNAGE PER DETAILS SHEET.
9. INSTALL DRIVE UP BEACON PER DETAILS SHEET.
10. INSTALL STANCHION SIGN AND BASE PER DETAILS SHEET.
11. REMOVE AND SALVAGE EXISTING CART CORRALS. CONTRACTOR TO COORDINATE RELOCATION WITH TARGET.
12. PROTECT IN PLACE EXISTING LANDSCAPE ISLAND.
13. INSTALL WHEEL STOP PER DETAILS SHEET.

IMPROVEMENT PLAN FOR EXISTING AND PROPOSED DRIVE UP STALLS
1" = 10'

GRAPHIC SCALE IN FEET
0 5 10 20

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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

IMPROVEMENT PLAN

C1.0

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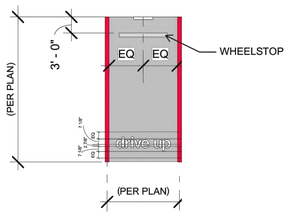
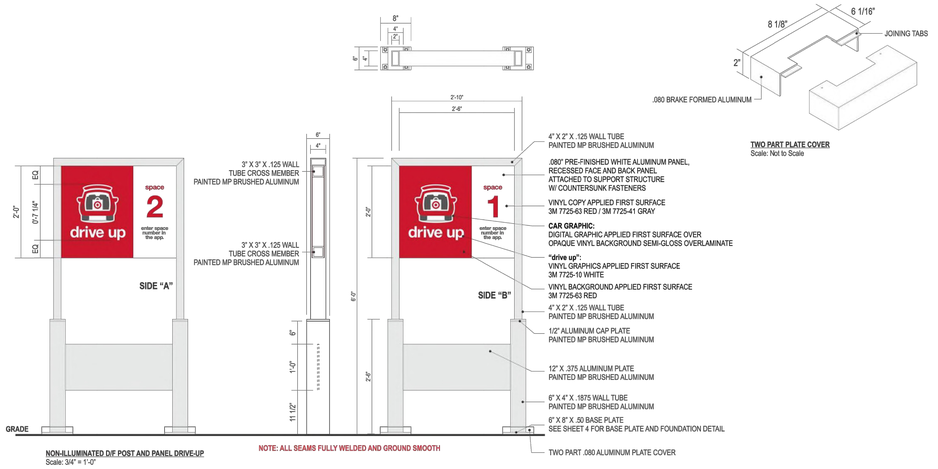


NOTES:

1. ALL RED STRIPING IS 6" WIDE
2. TARGET TO PROVIDE GC WITH "drive up" AND "NO PARKING" TEMPLATES
3. SEE PLAN VIEW DIMENSIONS FOR EXACT LAYOUT OF SITE
4. REFER TO C1.0 FOR EXACT DIMENSIONS

DRIVE UP STRIPING
N.T.S.



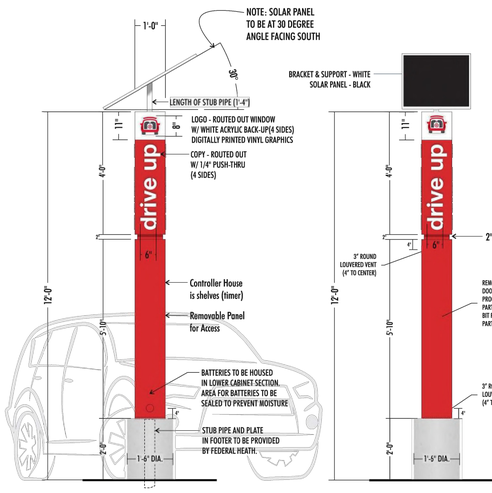
STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY THOMPSON ENGINEERING SERVICES, LLC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

CAR LOGO COLORS
Target Red PMS 186 | DARK RED PMS 188 | DARK GRAY PMS 425 | LIGHT GRAY PMS 421

STANCHION SIGN POST AND BASE - DOUBLE SIDE
N.T.S.

NOTE:
-FOR SOUTHERN SOLAR ZONES SIGNS TO HAVE 70 WATT SOLAR PANEL (DIMENSIONS 2'3" X 2'6").
-FOR NORTHERN SOLAR ZONES SIGNS TO HAVE 100 WATT SOLAR PANEL (DIMENSIONS 2'3" X 3'6").

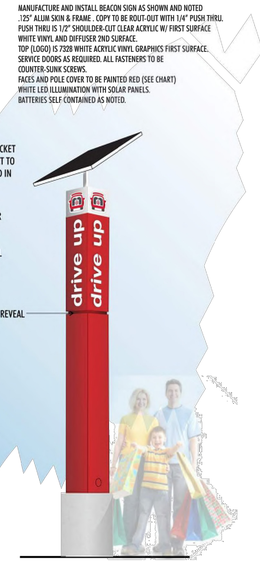
MATERIAL FINISH COLORS
Target Red 0 SCHEME#20 (FULL GLOSS) Cabinets | #020 (100% WHITE (FULL GLOSS)) Header/Supports | 7328 WHITE Acrylic Logo Face | CLEAR Acrylic W/ DIFFUSER Push-Thru Copy



DESCRIPTION OF WORK
MANUFACTURE AND INSTALL BEACON SIGN AS SHOWN AND NOTED
.125" ALUM.SKIN & FRAME . COPY TO BE ROUT-OUT WITH 1/4" PUSH THRU.
PUSH THRU IS 1/2" SHOULDER-CUT CLEAR ACRYLIC W/ FIRST SURFACE WHITE VINYL AND DIFFUSER 2ND SURFACE.
TOP (LOGO) IS 7328 WHITE ACRYLIC VINYL GRAPHICS FIRST SURFACE.
SERVICE DOORS AS REQUIRED. ALL FASTENERS TO BE COUNTER-SUNK SCREWS.
FACES AND POLE COVER TO BE PAINTED RED (SEE CHART)
WHITE LED ILLUMINATION WITH SOLAR PANELS.
BATTERIES SELF-CONTAINED AS NOTED.

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"



12'(FT) DRIVE-UP BEACON w/ SOLAR PANEL

STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY MBI, INC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

SOLAR DRIVE UP BEACON
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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

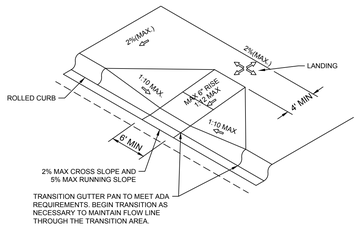
Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

DETAILS

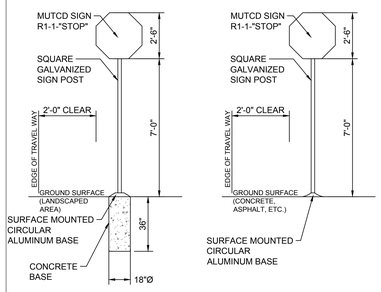
C2.0

NOTES:

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT- OF -WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
3. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
4. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 2500 PSI.
5. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
6. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
7. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
8. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
9. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
10. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

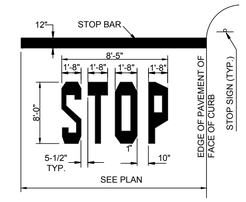


CURB RAMP DETAIL - DIAGONAL RAMP
N.T.S.



CASE 1: LANDSCAPED AREA CASE 2: HARDSCAPE AREA

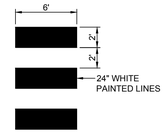
STOP SIGN DETAIL
N.T.S.



NOTES:

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. THESE WORDS AND BAR ARE TO BE PAINTED WHITE.

STOP BAR
N.T.S.



6' WIDE CROSSWALK DETAIL
N.T.S.

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DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

DETAILS

C2.1

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GENERAL NOTES:

1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED THEMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.

2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.

3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.

4. THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.

5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING REVIEWED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.

6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER. ALL SHUTDOWNS SHALL REQUIRE WRITTEN APPROVAL FROM THE OWNER.

7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.

8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.

11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.

12. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK. THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.

14. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.

15. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR REVIEW PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER REVIEWED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

16. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.

17. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER REVIEWED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS

18. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

19. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.

21. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.

22. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.

23. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.

24. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."

25. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.

26. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.

27. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.

28. WIRING: WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES.

29. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.

30. GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.

31. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.

32. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT ALL EXISTING EQUIPMENT OR INFRASTRUCTURE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING EQUIPMENT OR INFRASTRUCTURE SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL LIGHTING NOTES:

1. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.

2. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.

4. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

5. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.

6. EACH LIGHT POLE SHALL HAVE 3/4" X 10' COPPER GROUND ROD WITH #6 CU TO GROUND LUG IN LIGHT POLE HANDHOLE. CABLE CONNECTION TO GROUND ROD SHALL BE AN EXOTHERMIC CONNECTION, MINIMUM 12" BELOW FINISHED GRADE.

7. FOR MATERIAL INSTALLED AND/OR WORK PERFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST, IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

9. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.

10. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.

11. TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER TARGET STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

12. CIRCUIT CONDUCTORS #2 AWG OR SMALLER TO BE COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION OR COPPER TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE "XHHW-2" STRANDED COPPER. MINIMUM CONDUCTOR SIZE TO BE #10 AWG WITH #10 GND, UNLESS OTHERWISE NOTED.

13. UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

14. HORIZONTAL DIRECTIONAL DRILLED (HDD) CONDUITS TO BE SCHEDULE 40 HDPE, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

15. EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL (GRS), MINIMUM SIZE 1", UNLESS OTHERWISE NOTED ON THE PLANS. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN.

ABBREVIATIONS:

AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
DIA	DIAMETER
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
FVNR	FULL VOLTAGE NON-REVERSING STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
IEEE	INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
KW	KILOWATT
KVA	KILOVOLT AMPERES
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MH	MOUNTING HEIGHT
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PVC	POLYVINYL CHLORIDE
SCCR	SHORT CIRCUIT CURRENT RATING
SES	SERVICE ENTRANCE SECTION
SS	STAINLESS STEEL
TSP	TWISTED SHIELDED PAIR
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
WP	WEATHERPROOF
WWTP	WASTE WATER TREATMENT PLANT
XFMR	TRANSFORMER
3P	THREE PHASE

*GENERAL LIST OF ABBREVIATIONS; SOME MAY OR MAY NOT APPLY.

SUMMARY OF BUILDING CODES:

ARKANSAS NATIONAL ELECTRICAL CODE 2011
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL EXISTING BUILDING CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE

LEGEND:

	PROPOSED UNDERGROUND ELECTRICAL CONDUIT
UGE OR	EXISTING UNDERGROUND ELECTRICAL CONDUIT
OR	PROPOSED SITE LIGHTING LED POLE FIXTURE SEE PLANS FOR ARRANGEMENT AND QUANTITY
OR	EXISTING SITE LIGHTING LED POLE FIXTURE SEE PLANS FOR ARRANGEMENT AND QUANTITY
X	CONSTRUCTION NOTE
	SOLAR DRIVE UP BEACON

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DATE: 09/28/2022

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Project Number	T-2204
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SITE LIGHTING
GENERAL NOTES

E1.0

Plotted By: Frogget, Christopher Sheet Set: Kha Layout: E1.0 September 28, 2022 05:30:19pm Y:_T-Stores\2204 Bryant AR\CADD\T2204 DriveUp Expansion (Site Lighting-Electrical).dwg
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LOAD CALCULATION	
LOAD DESCRIPTION	WATTS
PROPOSED LOADS	
PROPOSED LED FIXTURES (ALL)	1,496
+25% PER NEC	374
TOTAL PROPOSED LOAD	1,870

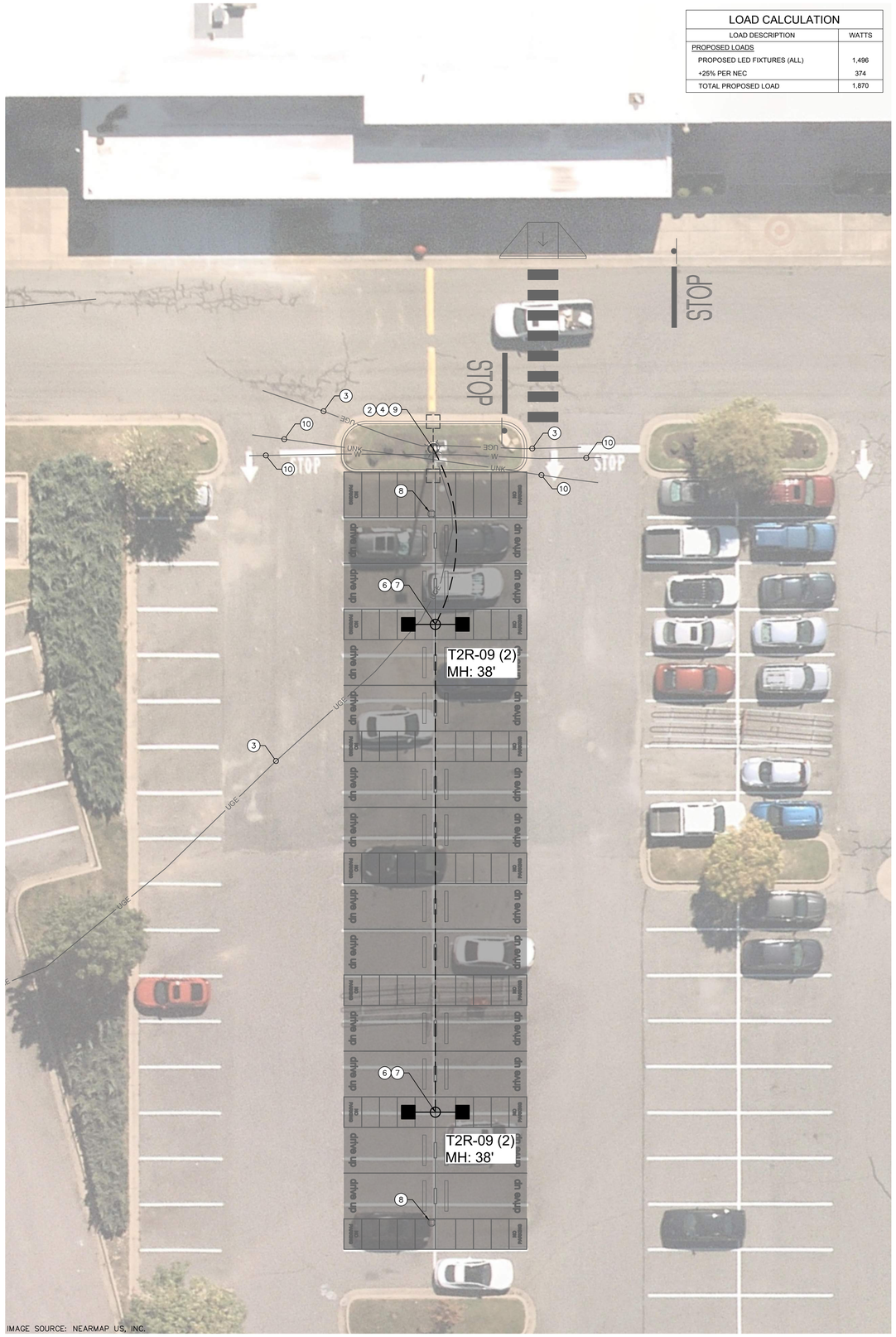


IMAGE SOURCE: NEARMAP US, INC.

PROPOSED DRIVE UP STALLS
1" = 10'

811 Know what's **below.** **Call** before you dig.

KEYED LIGHTING CONSTRUCTION NOTES

1. COORDINATE SITE ELECTRICAL WORK WITH OWNER, SITE MANAGER AND ALL APPROPRIATE TRADES. EXISTING CONDUITS TO BE MANDRELLED AND REUSED; REPLACE IF COLLAPSED OR BLOCKED. INTERCEPT AND EXTEND CONDUITS AND CONDUCTORS AS REQUIRED. RE-USE EXISTING SAME SIZE OR LARGER WIRE AFTER TESTING EXISTING WIRE AND INSULATION PER NEC STANDARDS.
2. EXISTING SITE LIGHTING POLE, FIXTURES, AND FOUNDATION TO REMAIN. PROTECT IN PLACE.
3. EXISTING ELECTRICAL SITE LIGHTING CONDUIT. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.
4. FURNISH AND INSTALL 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PENETRATE EXISTING POLE SIDEWALL AND SEAL ALL PENETRATIONS UPON COMPLETION. SEE DETAIL E2 FOR ADDITIONAL INFORMATION.
5. PROVIDE (1) 3/4" SCHEDULE 40 HDPE CONDUIT VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD. PROVIDE (2) #10 AWG CU XHHW CONDUCTORS AND (1) #10 AWG CU GROUND FOR SITE LIGHTING AND CONNECT FOR A COMPLETE SYSTEM. ENSURE THAT ALL EXISTING CIRCUITS AND CONNECTIONS ARE MAINTAINED.
6. FURNISH AND INSTALL NEW FOUNDATION FOR PROPOSED SITE LIGHTING POLE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR NEW SITE LIGHTING POLE FOUNDATIONS. FOUNDATIONS SHALL PROVIDE MOUNTING HEIGHT(S) FOR FIXTURES AS DESIGNATED IN THE PLANS. FOUNDATIONS SHALL PROVIDE BOLT PATTERNS TO MATCH THE FLANGE BOLT PATTERN. SEE DETAIL E1.
7. FURNISH AND INSTALL (2) NEW LED SITE LIGHTING FIXTURES COOPER GLEON LUMINAIRE LIGHT MODEL # GLEON-SA6B-740-8-T2R-DP-DIM10-PERTN-MS/DC-L40W AT 38' MOUNTING HEIGHT WITH NEW MAST ARMS ON NEW POLE AND FOUNDATION. PROVIDE (2) #12 AWG CU CONDUCTORS AND (1) #12 AWG CU GROUND FROM POLE HAND HOLE TO EACH FIXTURE AND CONNECT FOR COMPLETE SYSTEM. COORDINATE WITH OWNER TO VERIFY ALL PREVIOUS CIRCUITS AND CONNECTIONS HAVE BEEN REESTABLISHED.
8. SOLAR BEACON. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL IDENTIFY EXISTING LIGHTING CIRCUIT TO UTILIZE FOR CONNECTING NEW SITE LIGHTING FIXTURES. IDENTIFY THE EXISTING LIGHTING CIRCUIT'S SOURCE PANEL, CIRCUIT NUMBER AND CIRCUIT BREAKER SIZE. VERIFY EXISTING CAPACITY BY PERFORMING 30-DAY LOAD STUDY OR NEC 220.87 APPROVED METHOD. IF THE TOTAL NEW LOAD (EXISTING PLUS PROPOSED) EXCEEDS THE ALLOWABLE LOADS OF THE CIRCUIT BREAKER OR PANEL, DO NOT CONNECT THE NEW LOADS WITHOUT ADEQUATE CAPACITY. PROVIDE UPDATED PANEL SCHEDULES AS NEEDED.
10. EXISTING UNDERGROUND UTILITIES. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.

GENERAL CONSTRUCTION NOTES

A. ALL EXISTING ELECTRICAL INFORMATION INCLUDING LUMINAIRE TYPES, PANEL NAMES, CIRCUIT NUMBERS, CONDUIT/CONDUCTOR SIZES AND ROUTING, ETC. ARE UNKNOWN AND BASED ON EXISTING DOCUMENTS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY INFORMATION DURING CONSTRUCTION AND PROVIDE UPDATED AS-BUILTS UPON COMPLETION.

B. ALL CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE SCHEMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE BEST ROUTING PATH BASED ON FIELD CONDITIONS WITH OWNER APPROVAL.

C. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER(S) FOR DETAILED CONNECTIONS REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.

D. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

E. ALL NEW EQUIPMENT SHALL BE CONNECTED TO AN APPROPRIATELY SIZED CIRCUIT IN AN EXISTING PANEL AND/OR LIGHTING CONTROLLER. CONTRACTOR SHALL VERIFY CIRCUITING PRIOR TO ROUGH-IN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

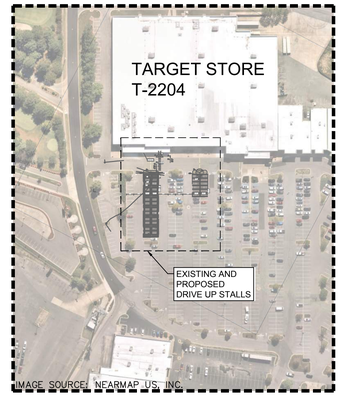
F. CONTRACTOR SHALL VERIFY EXISTING CIRCUITS ARE ADEQUATELY SIZED FOR ANY EQUIPMENT THAT IS TO BE REPLACED PRIOR TO CONNECTING NEW EQUIPMENT.

G. ALL CIRCUITING THAT IS INDICATED SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS CONNECTED TO ADEQUATELY SIZED CIRCUIT BREAKERS AND CONDUCTORS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

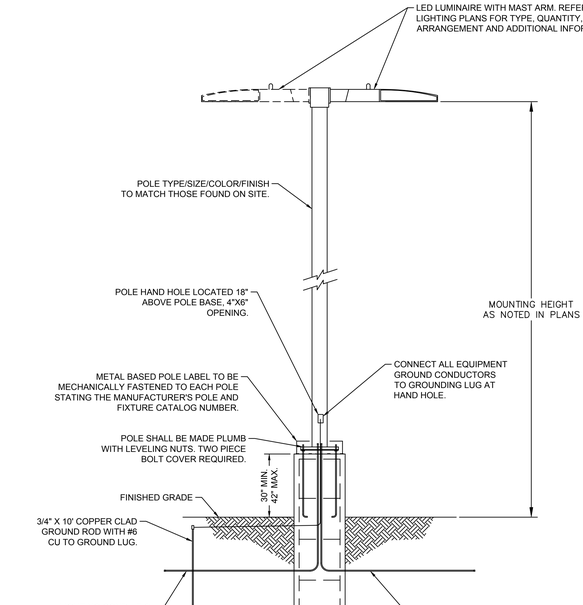
H. CONTRACTOR SHALL ENSURE EXISTING PANELS/LIGHTING CONTROLLERS HAVE ADEQUATE CAPACITY FOR NEW ELECTRICAL LOADS PRIOR TO ANY NEW OR REPLACED EQUIPMENT BEING CONNECTED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

I. CONTRACTOR SHALL RESTORE AND REPAIR ALL DISTURBED LANDSCAPE, HARDSCAPE, ASPHALT, CURB AREAS ETC. TO ORIGINAL STATE OR BETTER.

J. EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNER AND FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY EXISTING SYSTEMS (I.E. IRRIGATION, WATER, GAS, SEWER, ETC.) IMPACTED, SHALL BE REPAIRED/RESTORED TO ORIGINAL STATE OR BETTER.

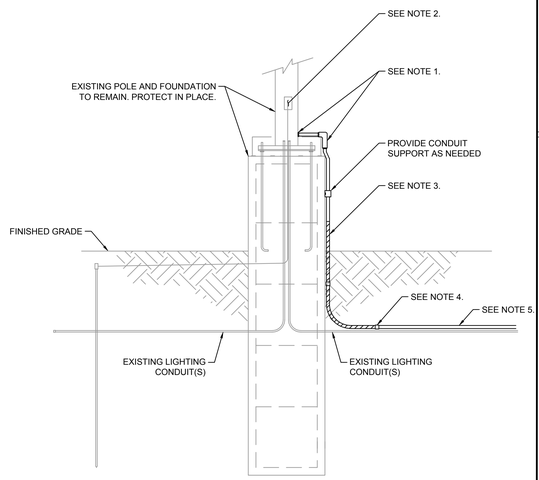


KEY MAP
1" = 150'



NOTES:
1. THIS DETAIL IS FOR REFERENCE ONLY. CONTRACTOR SHALL INSPECT EXISTING SITE POLES AND FOOTERS AND PROVIDE SIMILAR TYPES/SIZES TO MATCH.
2. POLE FOUNDATION SHALL BE PROVIDED IN DEFERRED SUBMITTAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO BE INCLUDED IN FINAL AS-BUILTS. SHOP DRAWINGS SHALL BE STAMPED/SIGNED/SEALED BY STATE REGISTERED ENGINEER.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
4. POLES, FIXTURES, ARMS AND FIXTURE COMPONENTS TO BE FACTORY PAINTED TO MATCH THOSE FOUND ON SITE.

E1 / E2.0 LIGHT POLE
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PENETRATE EXISTING POLE AND CONNECT 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PROVIDE ALL NECESSARY CONDUIT HARDWARE/FITTINGS FOR A WATERPROOF CONNECTION TO POLE.
2. FURNISH AND INSTALL (2) #10 AWG CU CONDUCTORS AND (1) #10 AWG CU GROUND AND SPLICE WITH EXISTING LIGHTING CONDUCTORS AND CONNECT TO EXISTING GROUNDING IN POLE. COORDINATE WITH OWNER FOR CIRCUIT IDENTIFICATION AND DE-ENERGIZING PRIOR TO INSTALLATION. MAINTAIN ALL EXISTING CIRCUIT CONNECTIONS UPON COMPLETION AND VERIFY FUNCTIONALITY WITH OWNER.
3. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE.
4. GRS CONDUIT TRANSITION TO HDPE CONDUIT BELOW GRADE.
5. FURNISH AND INSTALL (1) 3/4" SCHEDULE 40 HDPE CONDUIT FOR SITE LIGHTING. CONDUIT SHALL BE INSTALLED IN LOCATIONS USING METHODS AS INDICATED IN THE PROJECT PLANS.

E2 / E2.0 EXISTING POLE CONDUIT TIE IN
NOT TO SCALE

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Date	No	Description

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

LIGHTING PLAN

E2.0

Plotted By:Froggett, Christopher Sheet Set:Kha Layout:E2.0 September 28, 2022 05:30:37pm N:\A_T-Stores\2204 Bryant ARK\ADD\T2204 DriveUp Expansion (Site Lighting_Electrical).dwg
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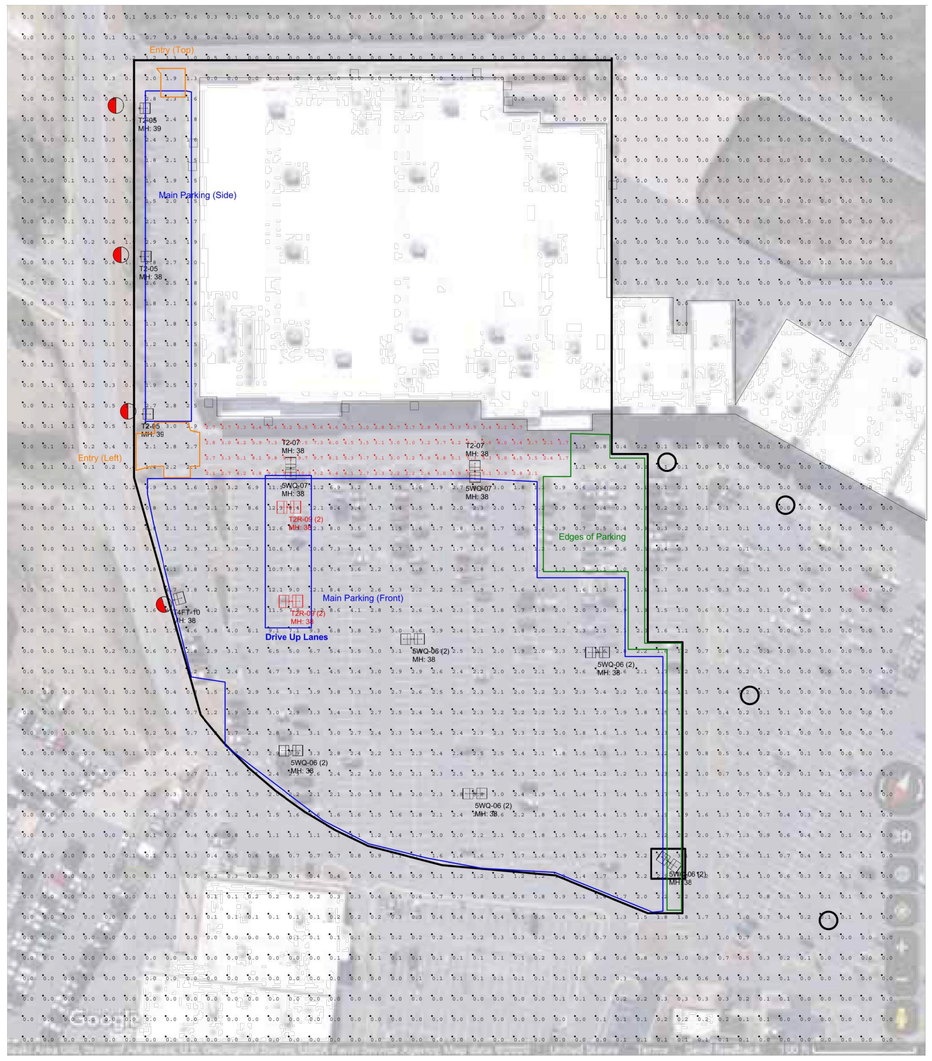

Luminaire Schedule

Symbol	Qty	Label	Lum. Watts	Lum. Lumens	LLF	BUG Rating	IES Class	Filename	Description
	5	5WQ-06 (2)	249	36001	0.900	B5-U0-G4	Type VS	GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	2	5WQ-07	295	42575	0.900	B5-U0-G5	Type VS	GLEON-SA7B-740-U-5WQ.ies	TAR-GLEON-SA7B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	3	T2-05	210	28029	0.900	B3-U0-G4	Type III	GLEON-SA5B-740-U-T2.ies	TAR-GLEON-SA5B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2-07	295	39667	0.900	B3-U0-G5	Type III	GLEON-SA7B-740-U-T2.ies	TAR-GLEON-SA7B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2R-09 (2)	374	53224	0.900	B3-U0-G5	Type II	GLEON-SA9B-740-U-T2R.ies	TAR-GLEON-SA9B-740-8-T2R-DP-DIM10-PER7N-MS/DC-L40W
	1	T4FT-10	419	56904	0.900	B4-U0-G5	Type IV	GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W

Calculation Summary

Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
Store Entrance Drive	Illuminance	4.47	10.2	1.7	2.63	6.00
Drive Up Lanes	Illuminance	10.27	12.6	7.1	1.45	1.77
Edges of Parking	Illuminance	1.06	3.1	0.1	10.60	31.00
Entry (Left)	Illuminance	2.40	3.0	1.4	1.71	2.14
Entry (Top)	Illuminance	2.10	2.3	1.9	1.11	1.21
Main Parking (Front)	Illuminance	3.06	12.6	1.1	2.78	11.45
Main Parking (Side)	Illuminance	2.01	2.9	1.2	1.68	2.42

NOTES:

RED CALC POINTS = BUILDING ENTRANCE DRIVE
BLUE = MAIN PARKING AREAS
GREEN = EDGES OF PARKING
ORANGE = ENTRY DRIVES

□ = WALL MOUNT LOCATIONS

○ = POLE LOCATIONS BY OTHERS

□ = POLE LOCATIONS DO NOT TURN ON WITH OVERRIDE

◒ = OCC SENSOR MASKING (RED IS AREA TO MASK)

T2204 - DESIGN LEVEL 1
BRYANT, AR
Pole Color & Shape Per Survey - BLACK / SQUARE
Fixture Voltage Per Survey - 480V

GRAPHIC SCALE IN FEET
0 30 60 120

NOTES

1. THE EXISTING ON-SITE LIGHTING WAS MODELED BASED OFF THE LATEST AERIAL IMAGERY FROM GOOGLE MAPS. CONTRACTOR TO VERIFY FIELD CONDITIONS AND BRING TO THE ATTENTION OF THE DESIGNER ANY DISCREPANCIES FROM THE PLANS.
2. THIS PHOTOMETRIC PLAN PREPARED BY OTHERS IS TO BE UTILIZED FOR REFERENCE PURPOSES ONLY.
3. EXISTING PARKING LOT LIGHTING, OUTSIDE OF THE LIMITS OF LIGHTING ANALYSIS, WAS NOT CALCULATED FOR THIS PROJECT.
4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT-CANDLES.
5. THIS PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. CONTRACTOR MUST BRING TO THE DESIGNERS'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH THE INFORMATION PROVIDED IN THIS PLAN.
6. NO BUILDING LUMINAIRES WERE INCLUDED IN THE CALCULATIONS FOR THE DRIVE UP AISLE.

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Date	No	Description

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TARGET
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7377 ALCOA RD
BRYANT, AR 72022

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Drawn By	CF
Checked By	PMS

PHOTOMETRIC PLAN

E3.0

Plotted By: Frogatt, Christopher - Sheet Set: Xha Layout: E3.0 September 28, 2022 05:30:37pm Y:_T-Stores\T-2204 Bryant AR\CAD\T2204 Drivetu Expansion (Site Lighting-Electrical).dwg
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October 12, 2022

City of Bryant
Community Development
210 SW 3rd Street
Bryant, AR 72022

RE: ***Target Building Signage and Drive Up Parking Variance Application***

Mr. Leonard:

Please accept this justification letter in response to the City of Bryant's sign variance application, revised parking layout, and front walk/site sustainability improvements.

Building Signage and Exterior Improvements

The applicant is seeking a variance in the number of signs allowed per street frontage (Section 3.04 – Signs in Commercial C-2 District). The building is situated on a corner lot, allowing for one additional sign on the east frontage of the building, facing Mt. Carmel Road.

Target is proposing 4 signs on the frontage of the building facing northwest toward Mt. Carmel Road. The store currently has one large bullseye sign with "Target" underneath and a CVS Pharmacy sign. The proposed signage on the front of the building includes the following:

- 13'-0" bullseye	132.73 sf
- 1'-2" "Order Pickup" sign	24.59 sf
- "Drive Up" sign with 24" letters	77.10 sf
- CVS Pharmacy sign (existing to remain)	36.62 sf
	271.04 sf total

Section 3.04 of the signage code for Commercial C-2 districts allows for two square feet per one linear foot of building façade. The front of the building is approximately 404' in width, allowing for 808 square feet of total sign area. The proposed sign area is well below this threshold at approximately 271 square feet. The additional "Drive Up" sign is intended to be used as a wayfinding sign to direct customers utilizing the drive-up service to the correct location within the parking lot. The proposed "Order Pickup" sign near the entrance of the building is intended to direct customers to the front entrance for order pickup. Target has found that including these signs reduces customer confusion and circulating the parking lot, reducing the potential for collisions or other incidents. The existing CVS Pharmacy sign is intended to remain in place. All signs are of high quality and are intended to maintain a subtle but effective presence.

The east side of the store will also include one bullseye with "Target" sign (195.7 sf). The street frontage along the eastern side of the building is 347'-5" yielding an allowable signage area of approximately 695 square feet; the proposed signage area is well within the limits at approximately 196 sf. This sign is allowable as stated in Section 3.04 of the signage code for buildings fronting multiple streets.

In addition to the building signage, the proposed façade improvements include the installation of EIFS panelling along the front and east side of the store frontage.

Drive Up Parking Modifications

Target is proposing relocating and expanding the existing Drive-Up area including wayfinding signage. Wayfinding signage on the building is desired to give Target patrons an easy and identifiable location to pick up their online orders. As part of Target's "Drive Up" program, they are expanding the number of stalls at this store location. Along with expanding the total number of stalls, the drive up location is being relocated and a curb ramp installed to align with a proposed doorway from the building utilized by team members (doorway under separate permit). The relocation is proposed to provide a safer and more direct route for team members.

Exterior Site Sustainability and Front Walk Modifications

The existing parking lot islands contain mostly mulch and an unsustainable sod mix. Target is proposing to improve the planting materials within the parking lot islands, replacing the existing planting material with groundcover plant material to reduce urban heat island effect, amend soil in landscape area near critical root zone to create a healther environment for tree species, and encourage pollinators prosperity. The design impact is anticipated to reduce CO2 with site vegetation and intercept additional rainwater runoff.

In addition to the revised planting within the parking lot, Target is proposing to improve a portion of the front entry walk with the installation of cart storage, bike racks, and benches with planter walls and plantings. Plans and a narrative for the site sustainability are provided with this submittal.

Additional Site Lighting – Drive Up Area

As part of the Drive Up expansion, the applicant is proposing to install two additional site lights for employee and customer safety in the drive up area. The proposed site lights will match existing site lights on site in type, size, color, and finish. Preliminary lighting plans are provided with this submittal.

Should you have any questions or require additional information, please do not hesitate to contact me at christian.jones@kimley-horn.com

Sincerely,



Christian Jones, P.E.
KIMLEY-HORN AND ASSOCIATES, INC

T2204 Bryant, AR

09.23.2022 | Exterior Site Sustainability | Haley Maitre

Summary:
The Bryant design focuses on promoting biodiversity, while stewarding in the natural heritage of the central Arkansas region and maintaining a high-level of guest experience. With the implantation of native vegetation, pollinators are supported through the supply of additional food and shelter. Native plants are the best foundation for diversity and ecological growth within a community. Native plants are also more likely to establish quickly and provide year-round beauty. Cleaner air is also a byproduct of species restoration, as plants absorb the carbon dioxide emitted by cars. These native species showcase horticultural appeal at the front of each store and add economic value through the transformation of a parking area.

Site Challenges:
- Existing plant material lacks diversity and abundance within the parking islands
- The reoccurrence of plant species creates a mono-culture and the subsequent lack of bio-diversity is not beneficial to pollinator species
- Existing parking islands consist of mostly mulch and an unsustainable sod mix

Design Response:
- Add groundcover plant material to reduce urban heat island effect and encourage pollinators prosperity
- Amended soil in landscape areas near critical root zone to create a healthier environment for the tree species
- Convert the turf area in the large linear landscape island to a regenerative landscape area.

Design Impact:
- Total Amended Soil Area: 18,276 SF
- Total Number of Parking Island Modified: 28
- Total Amount of CO2 Sequestered Annually by Site Vegetation: 7,780 lbs of CO2
- Runoff Intercepted by Site Vegetation: 57,800 gallons/year

Recommendations & Future Opportunities: Low to Medium Scope
- Utilize areas within landscape islands as potential rain gardens and stormwater filtration efforts
- Install additional landscape islands to minimize existing paving field and reduce the urban heat island effect
- Increase pollinator garden species in sodded perimeter areas to increase sustainability, biodiversity, and aesthetic qualities
- Add landscape islands at catch basins to mitigate stormwater and improve water quality.

FRONT WALK AND EXTERIOR SITE SUSTAINABILITY PLANS
FOR
T-2204 BRYANT, AR

PROJECT TEAM:

LANDSCAPE ARCHITECT / LANDSCAPE ARCHITECT OF RECORD
KIMLEY-HORN AND ASSOCIATES, INC.

PREPARED BY: RYAN A. HYLLESTED, PLA, ASLA / LEAH CAMPBELL, PLA
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ARCHITECT
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ASSOCIATE PRINCIPAL
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OWNER / DEVELOPER
TARGET

CONTACT: ALLYSSA KUSESKE, PE, LEED AP
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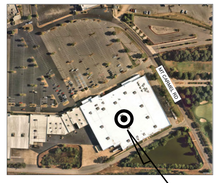
MINNEAPOLIS, MN 5540
TELEPHONE: (612) 322-1872



VICINITY
N.T.S.



Sheet List Table

Sheet Number	Sheet Title
L000	COVER SHEET
L001	GENERAL NOTES
L100	DEMO PLAN - FRONT WALK
L101	DEMO PLAN - EXTERIOR SITE
L200	SITE - FURNITURE PLAN
L201	SITE - FURNITURE DETAILS
L300	LANDSCAPE PLAN - FRONT WALK
L301	LANDSCAPE PLAN - EXTERIOR SITE
L302	LANDSCAPE NOTES AND DETAILS
L400	IRRIGATION PLAN - FRONT WALK

NOTES:

1. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
2. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A ARCH full bleed E (36.00 x 48.00 Inches) SHEET.
3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

ULTRA-LOW SCOPE DEFINITION:

- ENHANCE EXISTING LANDSCAPE AREA - APPROXIMATELY 8,000 - 10,000 SQFT
- ASSESS EXISTING VEGETATION HEALTH
- DEMOLITION OF NON-NATIVE AND/OR UNHEALTHY PLANTS
- ADD GROUND LEVEL PLANT MATERIAL TO REDUCE HEAT ISLAND EFFECT AND ENCOURAGE POLLINATORS AND BIRD HABITAT
- ADD CANOPY TREES WITHIN THE EXISTING PARKING LOT MEDIANS
- PROVIDE IRRIGATION PERFORMANCE SPECIFICATION TO EVALUATE ADEQUATE WATER FOR NEW LANDSCAPE MATERIAL
- CREATE CURB CUTS TO FACILITATE STORMWATER MITIGATION WHERE APPLICABLE

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TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

COVER SHEET

L000

9/23/2022

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS FROM AVAILABLE RECORD PLANS PROVIDED BY THE OWNER. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT AT THE TIME OF PLAN PREPARATION AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE LANDSCAPE ARCHITECT. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE LANDSCAPE ARCHITECT.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

10. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT AND OWNER.

EROSION CONTROL NOTES

1. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

2. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

3. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

4. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

6. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

7. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS IS PRACTICABLE.

8. ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.

10. EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT.

11. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE AUTHORITY HAVING JURISDICTION (AHJ) ENGINEERING DIVISION.

GRADING AND DRAINAGE NOTES

1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY LANDSCAPE ARCHITECT IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT.

3. CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.

4. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.

5. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

6. THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.

9. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.

10. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.

11. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

12. ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.

13. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

14. CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

PAVING AND STRIPING NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR WISDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND CITY STANDARDS.

3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, SIGNS, AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS.

4. ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.

5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.

7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.

8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.

9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.

10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.

11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

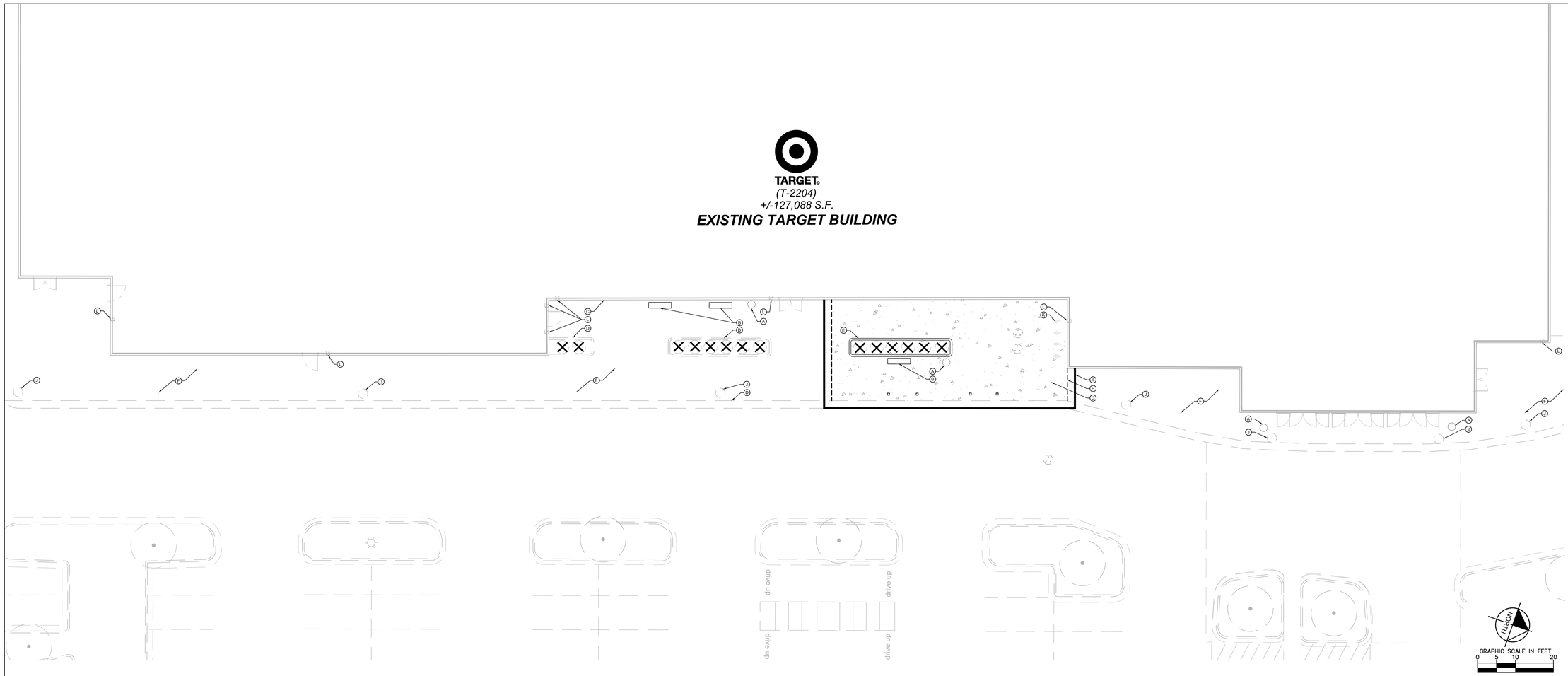
TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

GENERAL NOTES

L001



1 DEMO PLAN

SCALE: 1"=10'

L100

DEMOLITION PLAN NOTES

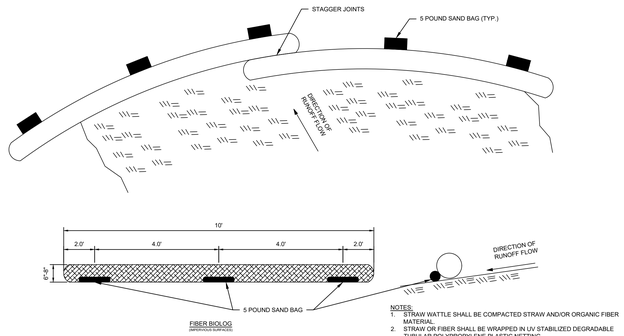
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES WITHIN ALL AREAS OF PROPOSED WORK.
4. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS ANY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PRECEDING WITH THE WORK.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH THE CITY OF MANSFIELD, RICHLAND COUNTY AND O/DOT.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ALL PROPERTIES IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING CONSTRUCTION.
8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
9. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. ALL UTILITIES SHOWN ARE EXISTING UTILITIES.
11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ANY EXISTING DRAINTILE IS ENCOUNTERED ON SITE. NO ACTIVE DRAINTILE SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.

KEYNOTE LEGEND

- (A) REMOVE TRASH RECEPTACLE (TYP.)
- (B) REMOVE BENCH (TYP.)
- (C) BUILDING CURB TO REMAIN (TYP.)
- (D) CONCRETE CURB TO REMAIN (TYP.)
- (E) REMOVE CONCRETE CURB (TYP.)
- (F) CONCRETE SIDEWALK TO REMAIN (TYP.)
- (G) REMOVE CONCRETE SIDEWALK (TYP.)
- (H) SAWCUT LINE (TYP.)
- (J) FIBER BIO-LOG
- (J) SPHERICAL BOLLARD TO REMAIN (TYP.)
- (K) REMOVE BIKE RACK (TYP.)
- (L) SECURITY CAMERA TO REMAIN (TYP.)

LEGEND

EXISTING	REMOVALS	
		PROPERTY LINE (TYP.)
		CONCRETE SURFACE (TYP.)
		FULL DEPTH SAWCUT (TYP.)
		TREE (TYP.)
		LIMITS OF CONSTRUCTION (TYP.)
		CURB & GUTTER (TYP.)
		WATERMAIN (TYP.)
		SIGN (TYP.)
		STORM MANHOLE (TYP.)
		STORM CATCHBASIN (TYP.)
		ROOF DRAIN (TYP.)
		HYDRANT (TYP.)
		LIGHT POLE (TYP.)
		SPHERICAL BOLLARD (TYP.)
		CYLINDRICAL BOLLARD (TYP.)
		BENCH (TYP.)
		TRASH RECEPTACLE (TYP.)
		BIKE RACK (TYP.)
		BUILDING CURB (TYP.)
		TABLE (TYP.)
		CART STORAGE (TYP.)



NOTES:
1. STRAW WATTLE SHALL BE COMPACTED STRAW AND/OR ORGANIC FIBER MATERIAL.
2. STRAW OR FIBER SHALL BE WRAPPED IN UV STABILIZED DEGRADABLE TUBULAR POLYPROPYLENE PLASTIC NETTING.

2 FIBER BIO-LOG

SCALE: N.T.S.

L100

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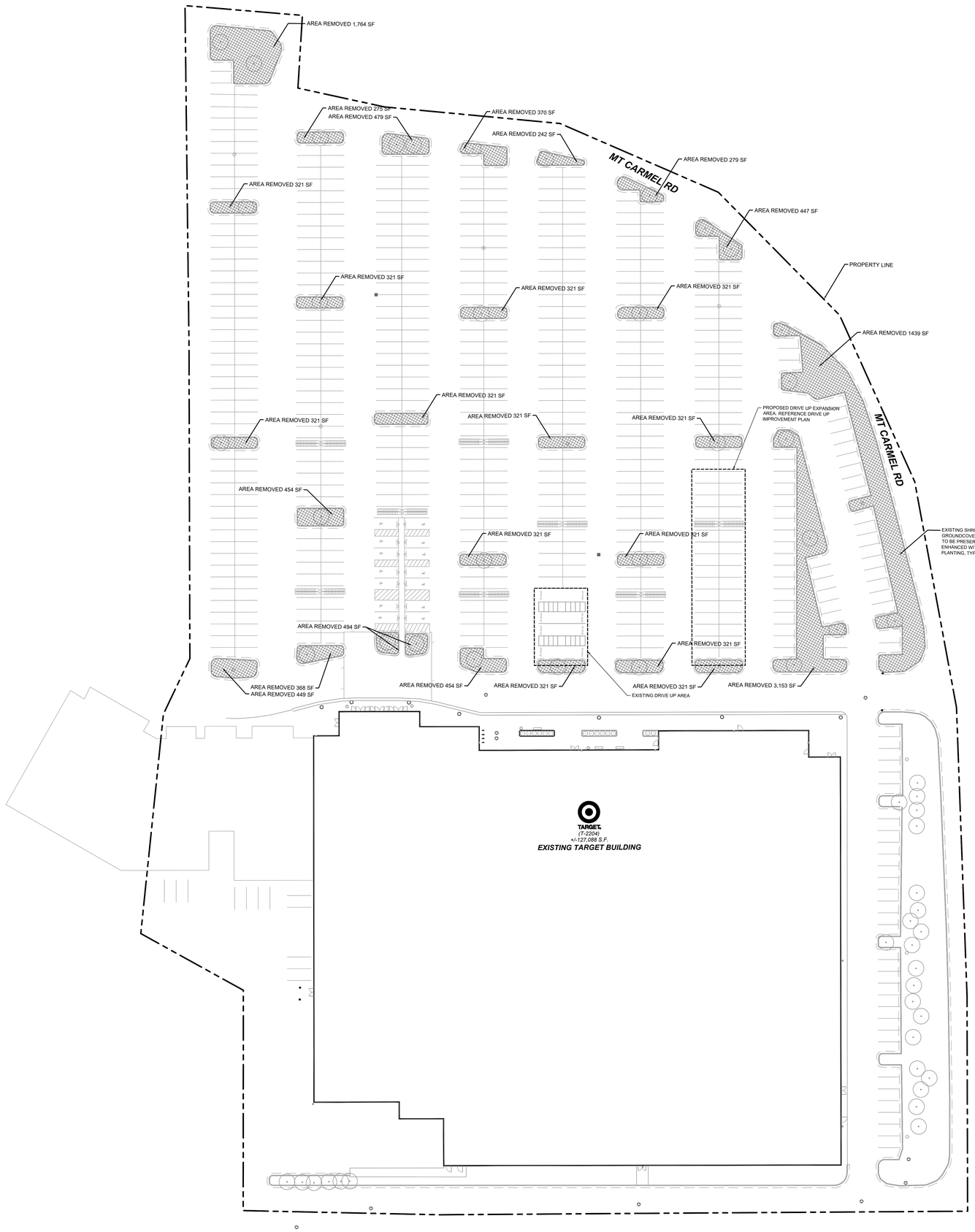
Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

DEMO PLAN
FRONT WALK

L100



TARGET
(T-2204)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER PLANTS TO BE REMOVED = **18,276 SF**
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

GRAPHIC SCALE IN FEET
0 15 30 60

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Date	No.	Description
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TARGET

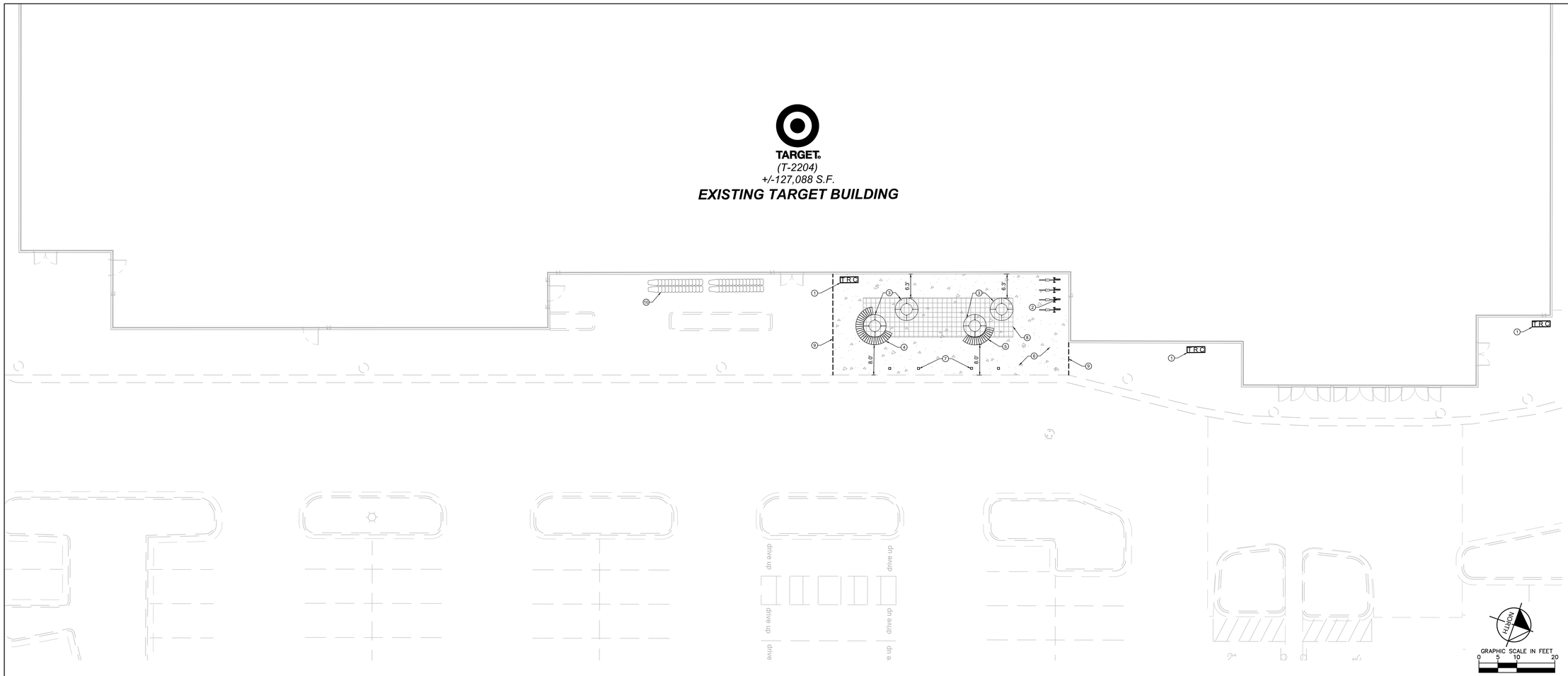
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	OS
CHECKED BY: EIW	KSS/HM

DEMO PLAN - EXTERIOR SITE

L101

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 SITE FURNITURE PLAN
SCALE: 1"=10'

L200

MATERIALS SCHEDULE

KEYNOTE	QUANTITY	SYMBOL	ELEMENT	PRODUCTS/MANUFACTURER	COLOR/FINISH	DETAIL
1	3	T.R.C	OUTDOOR LITTER RECEPTACLE - SURFACE MOUNTED (TYP.)	MODEL: SELECT, STYLE 3 MANUFACTURER: LANDSCAPE FORMS	METALLIC STEEL/ POWDER COAT	1 / L201
2	4 (INDIV.)		BIKE RACK - SURFACE MOUNTED (TYP.)	MODEL: RING MANUFACTURER: LANDSCAPE FORMS	STAINLESS STEEL/ POWDER COAT	2 / L201
3	2		PLANTER WALL (TYP.)	MODEL: KITSAP MODULAR PLANTER WALLS - LARGE (72" DIA.) MANUFACTURER: TOURNESOL SITE WORKS	POWDER COAT WHITE	3 / L201
4	1		CUSTOM BENCH 1 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 1 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
5	1		CUSTOM BENCH 2 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 2 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
6	1,655 SQ. FT		CONCRETE SIDEWALK (TYP.)			5 / L201
7	4		PROFILE BOLLARD (TYP.)			4 / L201
8	409 SQ. FT		STRUCTURAL SOIL (TYP.)			DETAIL TO COME
9	35 FT.		SAWCUT LINE (TYP.)			
10	30 FT.		CART STORAGE			

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
4. NO PROPOSED LANDSCAPING SUCH AS TREES OR SHRUBS, ABOVE AND UNDERGROUND STRUCTURES, OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN EXISTING OR PROPOSED UTILITY EASEMENTS AND RIGHTS OF WAY UNLESS SPECIFICALLY NOTED ON PLANS OTHERWISE.

811 Know what's below. Call 811 before you dig.

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn
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401 B STREET, SUITE 600
SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

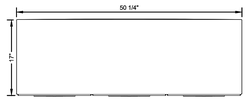
PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

SITE FURNITURE PLAN FRONT WALK

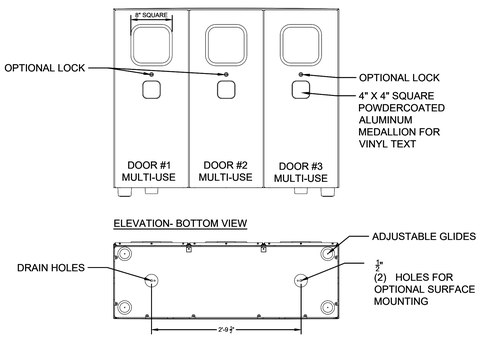
L200

Know what's below. Call before you dig.

PLAN- TOP VIEW

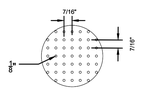


ELEVATION- FRONT VIEW

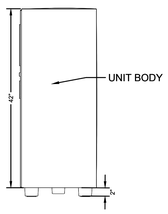


ELEVATION- BOTTOM VIEW

OPTIONAL PERFORATED DETAIL



ELEVATION- SIDE VIEW



*IT IS NOT RECOMMENDED TO DRILL HOLES FOR ANCHORING UNTIL UNIT IS ON SITE.

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

FINISH: METALLIC STEEL/ POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

1 TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

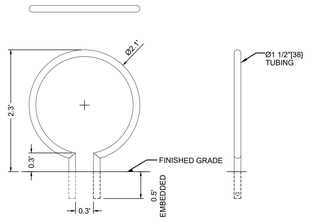
SCALE: N.T.S. L201

MANUFACTURER: LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: RING BIKE RACK

FINISH: POWDER COAT METALLIC STEEL

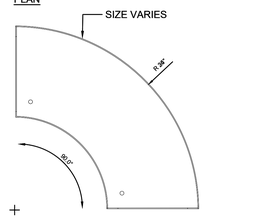
NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

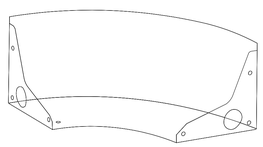


2 RING BIKE RACK

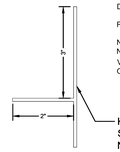
SCALE: N.T.S. L201

PLAN





TOP LIP OPTION



MANUFACTURER: TOURNESOL SITE WORKS

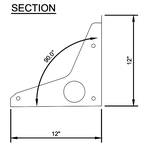
MODEL: KITSAP MODULAR PLANTER WALLS - SMALL (5' DIA.)

FINISH: POWDER COAT WHITE

NOTES: ALL DIMENSIONS ARE NOMINAL, ACTUAL SIZE MAY VARY +/- 1" UNLESS SPECIFIED OTHERWISE

KP- S
STRAIGHT EDGE
NO TOP LIP

SECTION



3 TOURNESOL PLANTER WALL

SCALE: N.T.S. L201

PLAN- TOP VIEW

BASE PLATE DETAIL

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(630) 430-6209

MODEL: PROFILE UNLIT PERIMETER BOLLARD

FINISH: METALLIC STEEL/POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

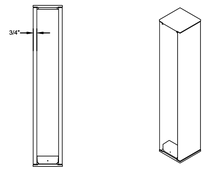
ELEVATION- FRONT



ELEVATION- BACK

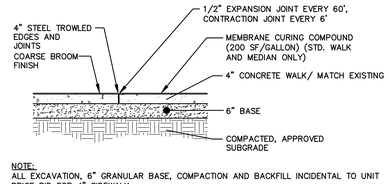


SIDE SECTION



4 PROFILE BOLLARD

SCALE: N.T.S. L201



NOTE:
ALL EXCAVATION, 6" GRANULAR BASE, COMPACTION AND BACKFILL INCIDENTAL TO UNIT PRICE BID FOR 4" SIDEWALK.

5 CONCRETE SIDEWALK

SCALE: N.T.S. L201

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TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn

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401 B STREET, SUITE 600
SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204

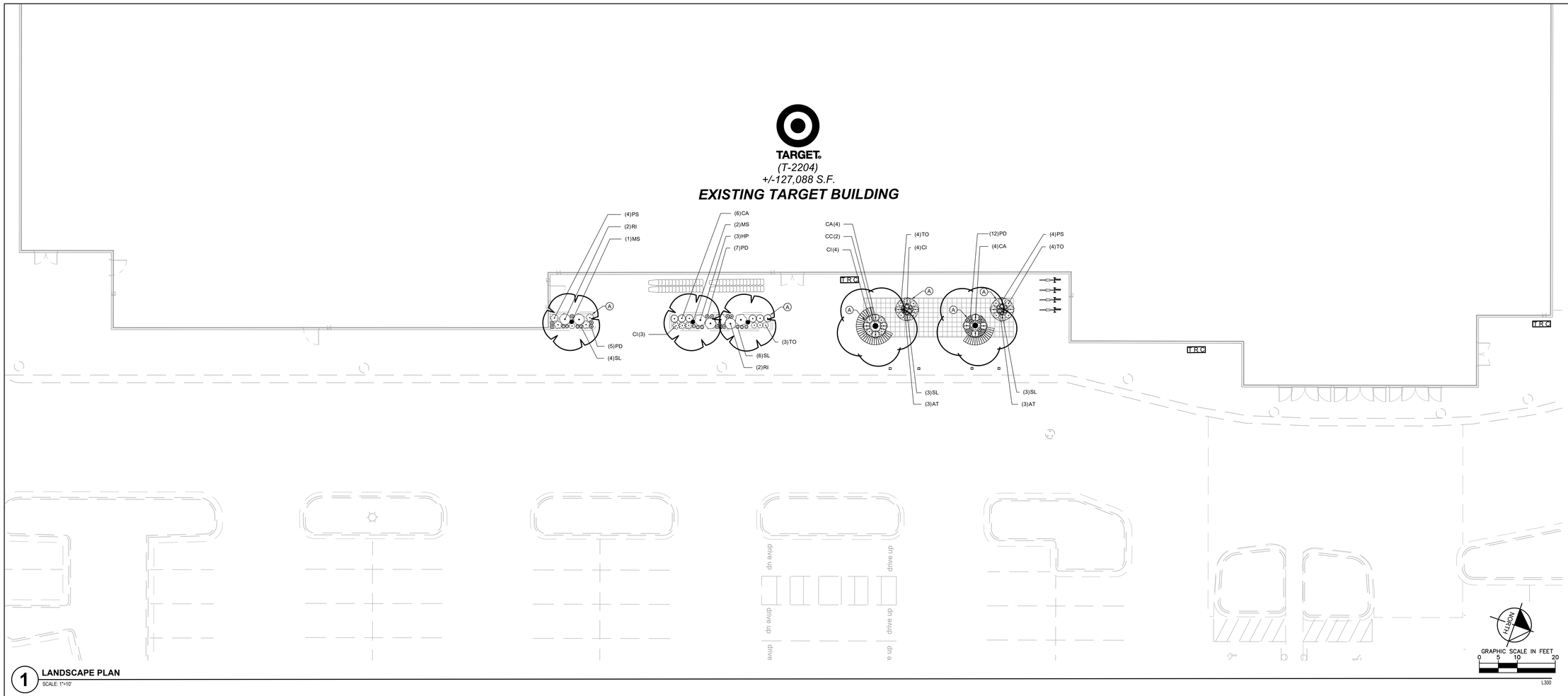
CONFIG:

DRAWN BY: CDE

CHECKED BY: EIW

SITE FURNITURE DETAILS FRONT WALK

L201



1 **LANDSCAPE PLAN**
SCALE: 1"=10'

L300

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, PROJECT STATE-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
   CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. CONTRACTOR TO VERIFY PLANTS REQUIRED AS REFLECTED ON PLAN. NOTIFY LANDSCAPE ARCHITECT IF PLAN AND SCHEDULE DO NOT MATCH. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND COLORED RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK, COLOR BLACK, SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
19. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD PROJECT STATE-GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED.
20. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
21. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
22. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
23. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
24. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

LANDSCAPE KEYNOTES

Ⓐ DOUBLE SHREDDED HARDWOOD MULCH (TYP.)

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
	CC	2	CERCIS CANADENSIS	EASTERN REDBUD	B & B	2.5" CAL MIN
ORNAMENTAL TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**
	MS	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B & B	2" CAL MIN
DECIDUOUS SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CA	14	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#5 CONT.	2` OC
	HP	3	HYPERICUM PROLIFICUM	SHRUBBY ST. JOHN'S WORT	#5 CONT.	3` OC
	RI	4	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	#5 CONT.	3` OC
ORNAMENTAL GRASSES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	AT	6	ANDROPOGON TERNARIUS	SPLITBEARD BLUESTEM	#1 CONT.	2` OC
	SL	16	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 CONT.	1` OC
PERENNIALS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CI	11	CALLIRHOE INVOLUCRATA	PURPLE POPPYMALLOW	#1 CONT.	2` OC
	PD	24	PENSTEMON DIGITALIS	BEARDTONGUE	#1 CONT.	1` OC
	PS	8	PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAIN MINT	#1 CONT.	2` OC
	TO	12	TRADESCANTIA OCCIDENTALIS	PRAIRIE SPIDERWORT	#1 CONT.	1` OC

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SAN DIEGO, CA 92101
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

LANDSCAPE PLAN
FRONT WALK

L300



TARGET
(T-xxxx)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CAL	HT	
	2	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	B & B	8'GAL	
	2	NYSSA SYLVATICA / BLACK GUM	B & B	8'GAL	
SHRUBS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT.**		
	47	ARONIA ARBUTIFOLIA / RED CHOKEBERRY	3 GAL		
	154	ILEX GLABRA / INKBERRY HOLLY	3 GAL		
	57	ITEA VIRGINICA / VIRGINIA SWEETSPIRE	3 GAL		
	51	RHUS AROMATICA / FRAGRANT SUMAC	3 GAL		
GROUND COVERS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	326	CALYPTOCARPUS VIALIS / HORSEHERB	1 GAL		24" o.c.
	1,278	IRIS VERSICOLOR / BLUE FLAG	1 GAL		12" o.c.
	1,912	RUDBECKIA X 'AMERICAN GOLD RUSH' / AMERICAN GOLD RUSH CONEFLOWER	1 GAL		12" o.c.
	619	SOLIDAGO RUGOSA / WRINKLELEAF GOLDENROD	1 GAL		24" o.c.
	1,261	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL		30" o.c.
GROUNDCOVER AREAS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	204	SHREDDED HARDWOOD MULCH	MULCH		

NOTE:

TOTAL SOIL AREA TO BE AMENDED : **18,276 SF**

AMENDED SOIL PROFILE FROM TOP TO BOTTOM:

- 3" DEPTH SHREDDED HARDWOOD MULCH
- 18"-24" DEPTH AMENDED SOIL PER SPECIFICATIONS
- FILTER FABRIC WRAPPING FREE DRAINING AGGREGATE
- 4" DEPTH FREE DRAINING AGGREGATE BASE
- 3" WIDE PERFORATED PIPE WITH DRAIN AND SOCK FOR SOIL AERATION THROUGH DEPTH OF AMENDED SOIL PROFILE. PIPE LOCATIONS TO BE DETERMINE BY LANDSCAPE ARCHITECT IN CONSTRUCTION DOCUMENT SET.

PROPOSED PLANT LOCATIONS IN EXISTING SHRUB AND GROUNDCOVER AREAS TO REMAIN ARE APPROXIMATE. THESE PROPOSED PLANTS SHALL BE LOCATED WITHIN OPEN SPACES BETWEEN EXISTING SHRUB AND GROUNDCOVER PLANTS TO ENHANCE THE AREA AND PLANTED IN THE FIELD AS DIRECTED BY THE LANDSCAPE ARCHITECT.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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Know what's **below.** Call before you dig.

OS

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1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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SAN DIEGO, CA 92101
PHONE: 619-234-9411
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

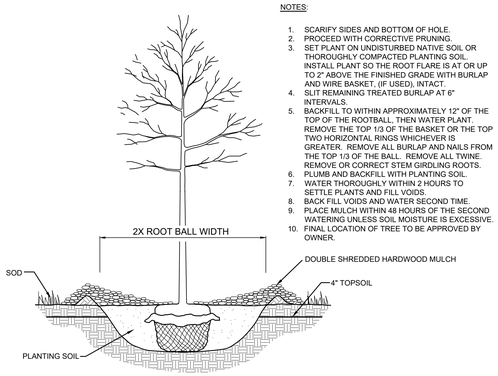
PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY:	OS
CHECKED BY:	KSS/HM

LANDSCAPE PLAN EXTERIOR SITE

L301

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE, (800) 242-8511 OR DIGGERSHOTLINE.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, WISCONSIN-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO WISDOT STANDARD SPECIFICATION 625 (TOPSOIL AND SALVAGED TOPSOIL) AND BE LOCAL FERTILE AGRICULTURAL SOIL FREE OF SUBSOILS, ROCKS, CLAYS, PLANTS, WEEDS, ROOTS, AND OTHER IMPURITIES. PH VALUE SHALL BE BETWEEN 5.4 AND 7.0. REMOVE DEBRIS AND WEEDS FROM SUBSOIL. SCARIFY SUBSOIL DEPTH OF 2" PRIOR TO PLACING TOPSOIL. SPREAD TOPSOIL TO A MINIMUM DEPTH OF 6" IN SOD/SEED AREAS, 18" FOR PLANTING BEDS, AND 36" FOR TREE AREAS. TOPSOIL PLACEMENT SHALL TAKE PLACE DURING DRY WEATHER. PREPARE TOPSOIL SO THAT IT IS FREE OF DEBRIS AND GRADED TO DRAIN AS INDICATED ON GRADING PLANS. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT AND PROHIBIT CONSTRUCTION TRAFFIC FROM AREAS WITH TOPSOIL
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR/DYE-FREE RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. MODIFY EXISTING IRRIGATION SYSTEM TO PROVIDE A COMPLETE, WORKING SYSTEM. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
19. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
20. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
21. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD: 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

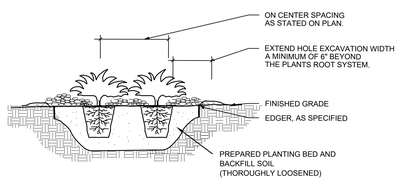


NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

14 TREE PLANTING DETAIL

SCALE: N.T.S. L302



NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

15 SHRUB / PERENNIAL PLANTING DETAIL

SCALE: N.T.S. L302

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SAN DIEGO, CA 92101
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

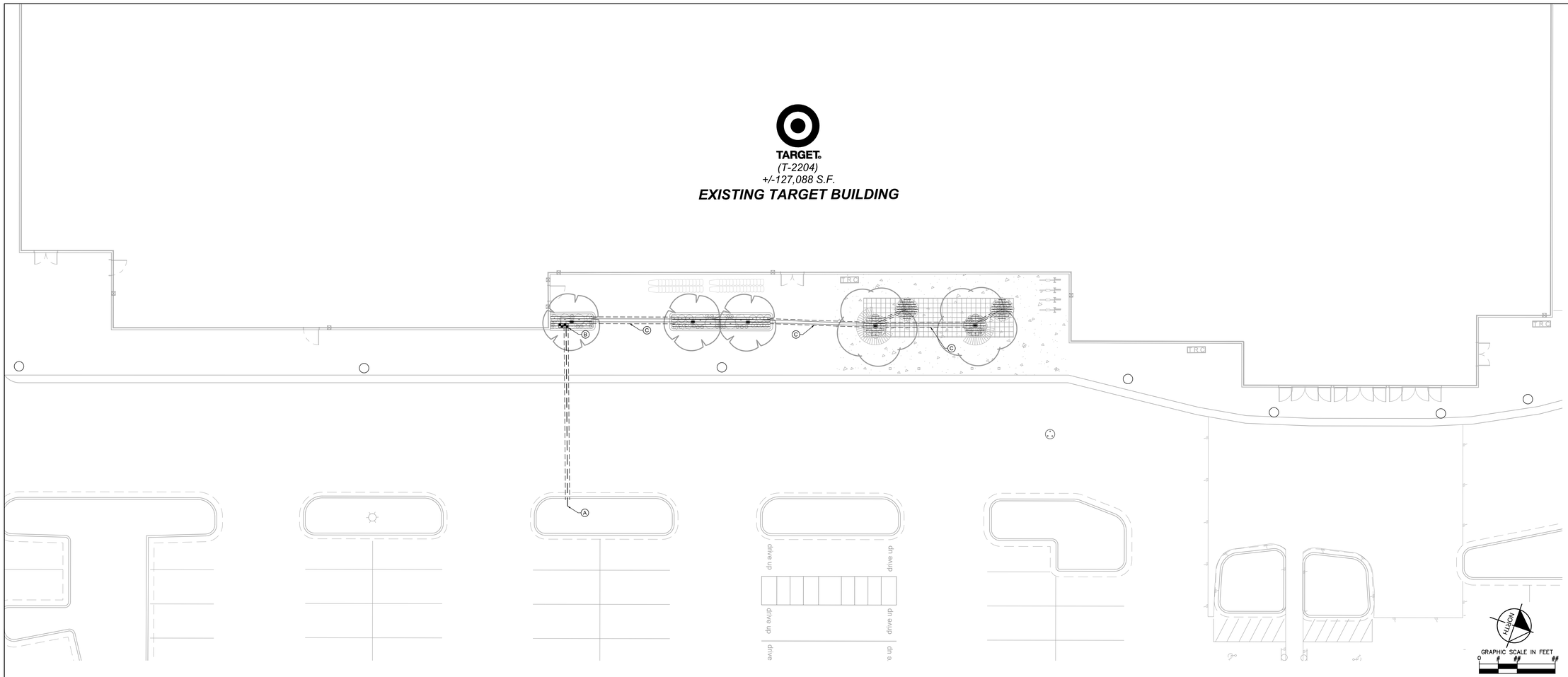
TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	
CHECKED BY: EIW	

LANDSCAPE NOTES AND DETAILS

L302

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 IRRIGATION PLAN
SCALE: 1"=10'

L400

IRRIGATION NOTES

1. IRRIGATION SYSTEM IS DIAGRAMMATIC. CONTRACTOR TO VERIFY AND DESIGN PER ACTUAL PRESSURE, PER LOCAL CODES, AND PER SITE REQUIREMENTS. FIELD VERIFY LOCATION OF COMPONENTS WITH ACTUAL CONDITIONS PRIOR TO INSTALLATION, ADJUST AS NEEDED FOR COMPLETE COVERAGE. SYSTEM TO INCLUDE ALL PLUMBING AND ELECTRICAL, INCLUDING CONDUIT, SLEEVING, AND WEATHER-PROOF ENCLOSURES. SYSTEM SHALL BE COMPLETE. CONTRACTOR TO PROVIDE SHOP DRAWINGS, DESIGN PRESSURE DESIGN CALCULATIONS, AND RELATED PRODUCT SHEETS FOR OWNER OR LANDSCAPE ARCHITECT APPROVAL. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS OF IRRIGATION SYSTEM AT THE COMPLETION OF THE PROJECT. SYSTEM SHALL HAVE A ONE-YEAR WARRANTY ON PARTS AND LABOR. THE IRRIGATION SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION. SEE SITE IRRIGATION SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS, IF APPLICABLE. ZONE PARAMETERS: TURF AREAS SHALL HAVE SPRAYS/ROTORS, SHRUB/ PERENNIAL AREAS SHALL HAVE DRIP, AND TREES SHALL HAVE BUBBLERS.
2. ALL PIPE 1.5" OR GREATER SHALL BE SDR 26 CLASS 200 FOR MAINLINE AND CLASS 160 FOR LATERLINE PVC PIPE(DO NOT EXCEED 35 GPM FOR 1.5" AND 58 GPM FOR 2"). ALL PIPE 1.25" OR 1" SHALL BE 100 POLY PIPE OR CLASS 160 PVC PIPE, AS INDICATED(DO NOT EXCEED 13 GPM FOR 1" AND 22 GPM FOR 1.25"). PIPE SIZE TO BE IDENTIFIED BY CONTRACTOR PER ZONE REQUIREMENTS. DEPTH OF PIPE TO BE APPROXIMATELY 18" FOR MAINLINE AND 12" FOR LATERAL LINES, OR AS REQUIRED, FIELD VERIFY. LOCATE IRRIGATION PIPE AWAY FROM PLANT MATERIAL.
3. ALL WIRING, BACKFLOW PREVENTOR, AND PLUMBING AS PER LOCAL CODE. WATER CONNECTION BY MECHANICAL AND UTILITY CONTRACTOR. VERIFY AND ADD BOOSTER PUMP AS REQUIRED. VERIFY POWER CONNECTION WITH ELECTRICAL.
4. ALL VALVES, FLOW SENSORS, AND QUICK COUPLERS SHALL BE LOCATED IN VALVE BOXES(SIZED FOR NORMAL MAINTENANCE, FLUSH WITH FINAL GRADE. PROVIDE (2) QUICK COUPLER KEYS AND HOSE SWIVELS. PROVIDE DECODERS FOR 2-WIRE SYSTEM AT EACH VALVE. FOR DRIP ZONES, PROVIDE DRIP KIT OF VALVE, PRESSURE REDUCER, AND FILTER WITHIN ONE VALVE BOX. DRIP ZONE AIR RELIEF VALVE AND FLUSH VALVE TO BE IN SEPARATE VALVE BOXES.
5. CONTROLLER TO BE COMMERCIAL TYPE, SIZED FOR NUMBER OF ZONES, CAPABLE OF 2-WIRE TECHNOLOGY, INCLUDING DECODER MODULE AND SURGE PROTECTION. SYSTEM TO BE 2-WIRE TECHNOLOGY WITH REQUIRED GROUNDING(LIGHTING PROTECTION). MOUNT AND CONNECT CONTROLLER AND OTHER CONTROLLER ACCESSORIES, SUCH AS HAND HELD REMOTE, WEATHER/RAIN/FREEZE SENSOR, FLOW SENSOR, AND OTHER RELATED ITEMS. THIS ALSO INCLUDES PAINTED CONDUIT AND MOUNTING BOARDS AND HARDWARE FOR ALL EXPOSED AREA, AS DIRECTED BY OWNER. INSTALL WEATHER/RAIN/FREEZE SENSOR ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S) PER OWNER'S APPROVAL.
6. FIRST YEAR WINTERIZATION AND SPRING START UP OF SYSTEM SHALL BE PERFORMED BY IRRIGATION CONTRACTOR, UNLESS INDICATED OTHERWISE.
7. MINIMUM 4" PVC SCHEDULE 40 SLEEVING SHALL BE REQUIRED UNDER ALL WALKS AND PAVEMENTS FOR IRRIGATION PIPE AND WIRES. PROVIDE 12" LENGTH OF #3 REBAR AT EACH TEMPORARILY SEALED END, STAND PIPE, OR OTHER APPROVED METHODS FOR FUTURE LOCATING. EXTEND SLEEVING AT LEAST 1 FOOT BEYOND EDGE OF PAVEMENT. PROVIDE PVC STAND PIPE FOR LOCATING ENDS OF SLEEVING. PROVIDE MINIMUM TWO SIZES LARGER THAN PIPE SIZE. PROVIDE ADDITIONAL SLEEVING FOR WIRING, AS NEEDED. SLEEVE DEPTH IS PRIMARILY 18 INCHES, OR AS REQUIRED. COORDINATE AND PLACE SLEEVING PRIOR TO PAVEMENT INSTALLATION. DIRECTIONAL BORE UNDER PAVEMENT IN EXISTING CONDITIONS TO REMAIN.
8. BIDDING CONTRACTORS SHOULD BECOME THOROUGHLY FAMILIAR WITH ALL FACETS OF THE PROPOSED IRRIGATION SYSTEM. FAILURE TO CLARIFY MISUNDERSTANDINGS, OR INTENT OF THESE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTAL OF BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE IRRIGATION CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB UTILITIES OR EXISTING CONDITIONS. CONTRACTOR SHALL REPAIR/RESTORE ANY DAMAGE INVOLVING IRRIGATION INSTALLATION.
10. INSTALL WEATHER/RAIN/FREEZE SENSOR(S) ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S). COORDINATE WITH OWNER'S AUTHORIZED REPRESENTATIVE AS TO FINAL LOCATION.
11. CONTROL WIRE WILL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN GROUND, MINIMUM GAUGE: MINIMUM #14 U.F. FOR EITHER MULTI-STRAND OR TWO-WIRE. COMMON GROUND WIRE, IF APPLICABLE, SHALL BE MINIMUM #12 GAUGE WHITE. FOR MULTI-STRAND SYSTEMS, PROVIDE TWO EXTRA CIRCUIT WIRES AND ONE EXTRA COMMON GROUND WIRE FOR ENTIRE MAINLINE LENGTH, MARK AS APPROPRIATE. 24 VAC WIRE SPLICING MATERIAL WILL BE DIRECT BURIAL SPLICE KIT AS MANUFACTURED BY 3M.
12. SOME AREAS MAY REQUIRE RISER EXTENSIONS FOR SPRINKLERS OR A FIXED RISER WITH A SHRUB HEAD OR SHRUB ADAPTER TO OBTAIN PROPER COVERAGE. ROTOR NOZZLES TO PROVIDE PROPER COVERAGE AND MATCH PRECIPITATION, AS REQUIRED. FIELD ADJUST AS NEEDED. SPRAY HEADS IN TURF AREAS TO BE 6" POP-UPS AND IN LANDSCAPE BEDS TO BE 12" POP-UPS. INSTALL ROTOR AND SPRAY HEADS TO LATERAL LINE WITH FLEX TUBING OR SWING JOINTS. BUBBLERS TO BE ON 6" POP-UP.
13. VERIFY AND COORDINATE FINAL LOCATION OF WATER SOURCE AND ELECTRICAL POWER CONNECTION.
14. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH OTHER IMPROVEMENTS.
15. PROVIDE 1" VALVES FOR SPRAY AND ROTOR ZONES FOR 30 GPM OR LESS, AND 1.5" VALVE FOR ZONES GREATER THAN 31 GPM. DRIP ZONES PROVIDE 3/4" OR 1" VALVES PER DEMAND OF ZONE.
16. CONTRACTOR TO SCHEDULE AND PROGRAM CONTROLLER AND VALVES FOR APPROPRIATE LANDSCAPE WATER REQUIREMENTS. VERIFY WITH OWNER AS TO TIME AND SPECIFIC REQUIREMENTS.
17. DRIP IRRIGATION TO FOLLOW MANUFACTURERS RECOMMENDATION FOR TYPE, SIZE, AND LOCATION PER LANDSCAPE CONDITION. EACH DRIP ZONE SHALL HAVE ZONE VALVE, PRESSURE REDUCER, AND FILTER, AIR RELIEF VALVE, FLUSH VALVE, SUPPLY LATERAL LINES, DRIP TUBING WITH EMBEDDED EMITTERS, AND OTHER RELATED ITEMS. DRIP TUBING SHALL BE ANCHORED AND UNDER LANDSCAPE MULCH, HIDDEN FROM VIEW, WITH EMITTERS LOCATED AT PLANT LOCATIONS. DRIP TUBING SHALL ALSO BE LOOPED AND INTERCONNECTED, WITH NO DEAD-ENDS. ANY ADDITIONAL EMITTERS, AS NOTED ON PLAN.

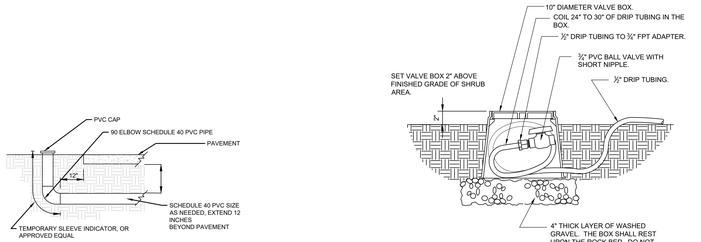
IRRIGATION KEYNOTES

- (A) POINT OF CONNECTION, VERIFY LOCATION WITH OWNER
- (B) MAINLINE & VALVES SHOWN FOR CLARITY. INSTALL MAINLINE AND VALVE WITHIN THE PROPERTY LINE, 6" FROM B.O.C WHEN POSSIBLE, AND IN GREEN SPACE. COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS (TYP.)
- (C) ALL DRIP ZONES TO HAVE MINIMUM 12" SETBACK (CLEAR ZONE) BETWEEN DRIPLINE AND SOD EDGE OR PAVEMENT EDGE. (TYP.)

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1401 1402	RAIN BIRD RWS-M-B-C W/ RWS-SOCK 1401 MINI ROOT WATERING SYSTEM WITH 4" DIAMETER X 18" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE AND RAIN BIRD 1401 0.25 GPM OR 1402 0.5 GPM BUBBLER AS INDICATED. WITH CHECK VALVE, AND SAND SOCK FOR SANDY SOIL.	5	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER, 0.3 GPM-20 GPM	2	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-04-12 XFS-CV SUB-SURFACE AND ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.9 PSI CHECK VALVE, 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.	215.6 L.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	237.6 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	48.9 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	120.1 L.F.	

Valve Callout
Valve Number
Valve Flow
Valve Size

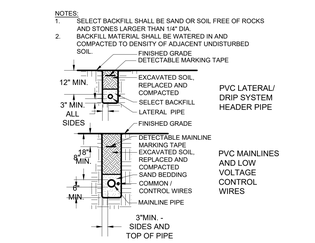


3 DRIP FLUSH VALVE
SCALE: 1 1/2" = 1'-0"

L400

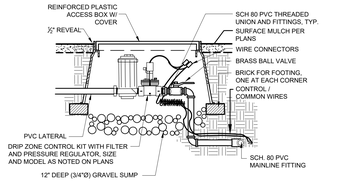
2 TYPICAL SLEEVE DETAIL
SCALE: NTS

L400

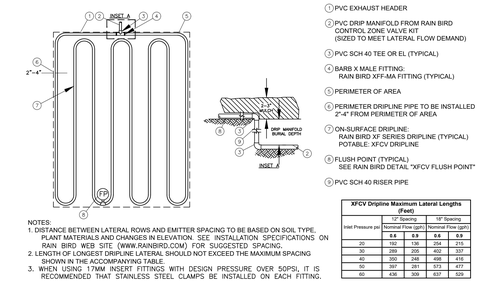


4 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE
SCALE: N.T.S.

L400



5 DRIP ZONE CONTROL KIT
SCALE: N.T.S.



NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFCV Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9
20	192	136	264	215
30	288	205	402	337
40	352	248	498	416
50	397	281	573	477
60	436	309	637	529

6 XFCV ON-SURFACE DRIPLINE - QUICK LAYOUT
SCALE: NTS

L400

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SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

IRRIGATION PLAN
FRONT WALK

L400

TARGET®

DRIVE UP EXPANSION
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

SCOPE OF WORK

PARKING LOT RE-STRIPING, STALL PARKING SIGNAGE AND WAYFINDING DRIVE UP BEACONS WHERE SHOWN ON THE PLAN.

ZONING

C-2 - GENERAL COMMERCIAL DISTRICT

OFF-STREET PARKING LOT CODE REQUIREMENTS

- DRIVE AISLE = 20' MIN. WIDTH
- STANDARD PARKING STALL = 10' X 20' MIN.

OWNER

TARGET CORP.
CONTACT: MATTHEW FLANSBURG
50 SOUTH 10TH ST, SUITE 400
MINNEAPOLIS, MN, 55403
MATTHEW.FLANSBURG@TARGET.COM

CIVIL ENGINEER

KIMLEY-HORN
CONTACT: JUSTIN BECKER P.E.
401 B ST, SUITE 600
SAN DIEGO, CA, 92101
619-234-9411
JUSTIN.BECKER@KIMLEY-HORN.COM



VICINITY MAP
NTS

NORTH

SHEET INDEX

COVER SHEET.....C0.0

OVERALL SITE PLAN.....C0.1

IMPROVEMENT PLAN.....C1.0

DETAILS.....C2.0 - C2.1

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MEMPHIS, TN 38138
901-374-9109
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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

COVER SHEET

C0.0

Plotted By: Schlueter, Noble Sheet Set: Kha Layout: C0.0 May 06, 2022 10:17:06am C:\Users\Noble.Schlueter\OneDrive - KHA\Documents_T-Stores\2204 Bryant, AR\CAD\T2204 DriveUp Expansion_NonCompy.dwg
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OVERALL SITE PLAN
1" = 40'

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

OVERALL SITE PLAN

C0.1

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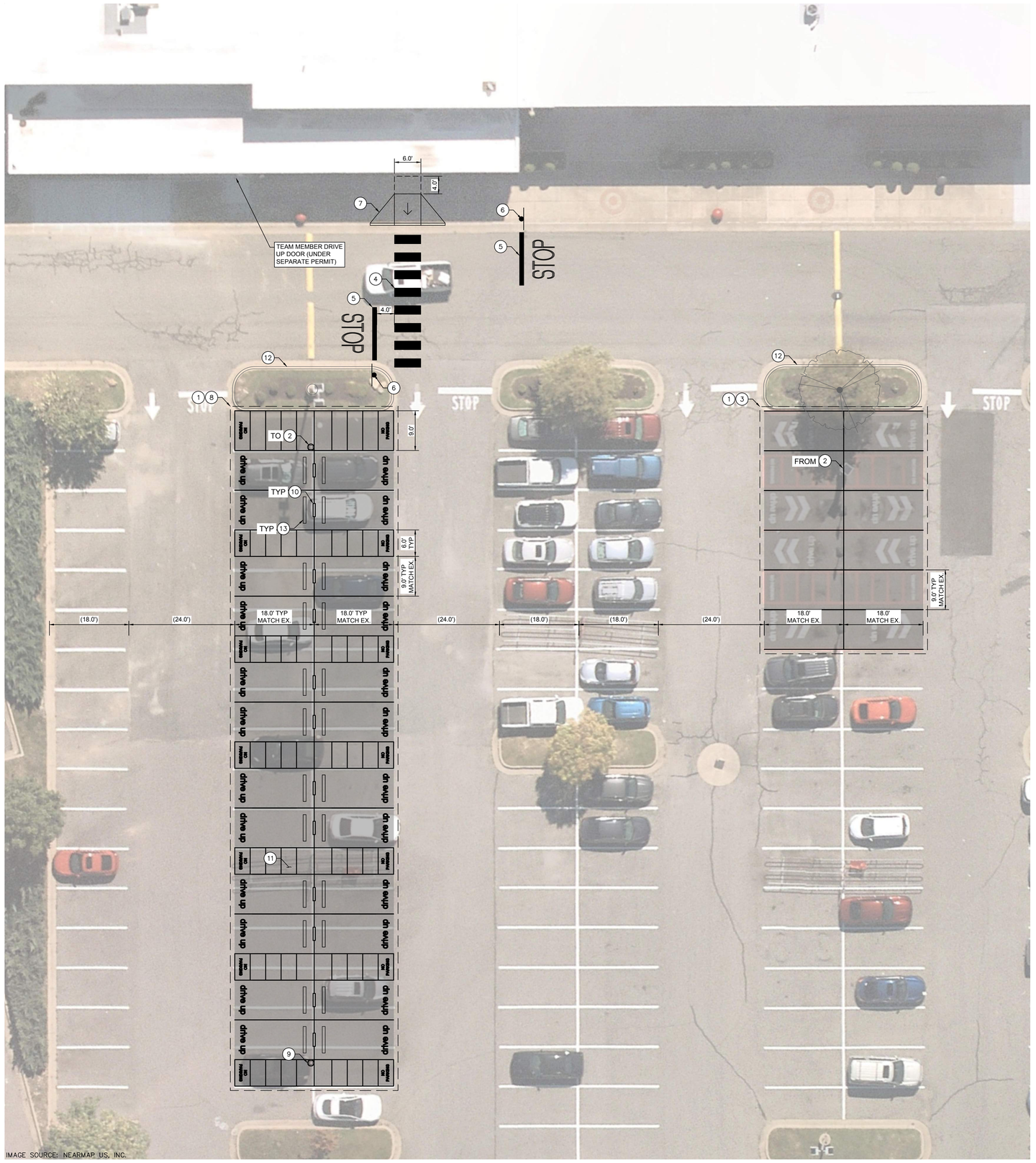

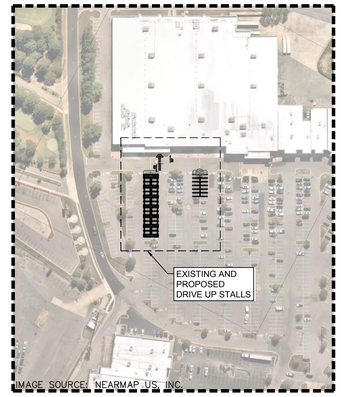

KEY MAP
1" = 150'

CONSTRUCTION NOTES

1. REMOVE EXISTING STRIPING AND DRIVE UP SIGNAGE.
2. REMOVE AND RELOCATE EXISTING DRIVE UP BEACON.
3. RESTRIPE STANDARD PARKING STALLS USING 4" WIDE WHITE STRIPING.
4. INSTALL CROSSWALK PER DETAILS SHEET.
5. INSTALL STOP BAR AND MARKING PER DETAILS SHEET.
6. INSTALL STOP SIGN PER DETAILS SHEET.
7. INSTALL CURB RAMP PER DETAILS SHEET.
8. INSTALL DRIVE UP STRIPING AND SIGNAGE PER DETAILS SHEET.
9. INSTALL DRIVE UP BEACON PER DETAILS SHEET.
10. INSTALL STANCHION SIGN AND BASE PER DETAILS SHEET.
11. REMOVE AND SALVAGE EXISTING CART CORRALS. CONTRACTOR TO COORDINATE RELOCATION WITH TARGET.
12. PROTECT IN PLACE EXISTING LANDSCAPE ISLAND.
13. INSTALL WHEEL STOP PER DETAILS SHEET.

IMPROVEMENT PLAN FOR EXISTING AND PROPOSED DRIVE UP STALLS
1" = 10'

GRAPHIC SCALE IN FEET
0 5 10 20

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IMPROVEMENT PLAN

C1.0

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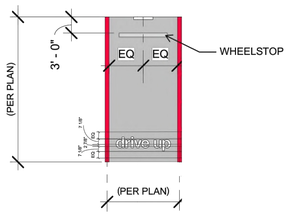
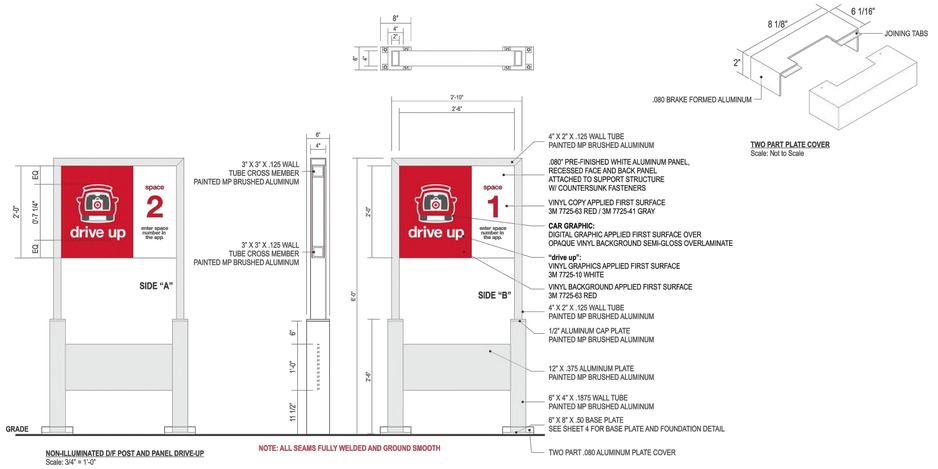


NOTES:

1. ALL RED STRIPING IS 6" WIDE
2. TARGET TO PROVIDE GC WITH "drive up" AND "NO PARKING" TEMPLATES
3. SEE PLAN VIEW DIMENSIONS FOR EXACT LAYOUT OF SITE
4. REFER TO C1.0 FOR EXACT DIMENSIONS

DRIVE UP STRIPING
N.T.S.



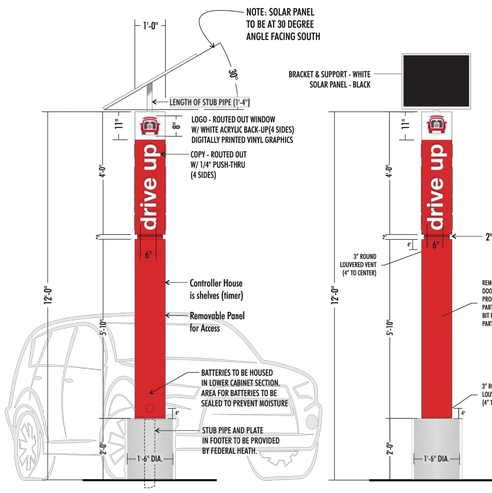
STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY THOMPSON ENGINEERING SERVICES, LLC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

CAR LOGO COLORS
Target Red PMS 186 | DARK RED PMS 188 | DARK GRAY PMS 425 | LIGHT GRAY PMS 421

STANCHION SIGN POST AND BASE - DOUBLE SIDE
N.T.S.

NOTE:
-FOR SOUTHERN SOLAR ZONES SIGNS TO HAVE 70 WATT SOLAR PANEL (DIMENSIONS 2'3" X 2'6").
-FOR NORTHERN SOLAR ZONES SIGNS TO HAVE 100 WATT SOLAR PANEL (DIMENSIONS 2'3" X 3'6").

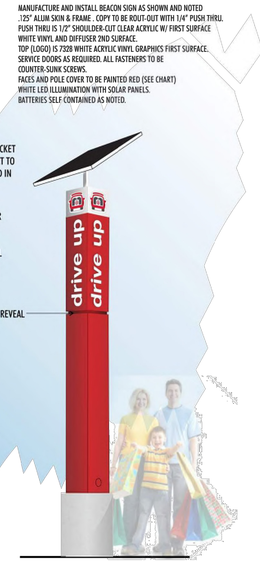
MATERIAL FINISH COLORS
Target Red 0 SCHEME#20 (FULL GLOSS) Cabinets | #020 (100% WHITE (FULL GLOSS)) Header/Supports | 7328 WHITE Acrylic Logo Face | CLEAR Acrylic W/ DIFFUSER Push-Thru Copy



DESCRIPTION OF WORK
MANUFACTURE AND INSTALL BEACON SIGN AS SHOWN AND NOTED
.125" ALUM.SKIN & FRAME . COPY TO BE ROUT-OUT WITH 1/4" PUSH THRU.
PUSH THRU IS 1/2" SHOULDER-CUT CLEAR ACRYLIC W/ FIRST SURFACE WHITE VINYL AND DIFFUSER 2ND SURFACE.
TOP (LOGO) IS 7328 WHITE ACRYLIC VINYL GRAPHICS FIRST SURFACE.
SERVICE DOORS AS REQUIRED. ALL FASTENERS TO BE COUNTER-SUNK SCREWS.
FACES AND POLE COVER TO BE PAINTED RED (SEE CHART)
WHITE LED ILLUMINATION WITH SOLAR PANELS.
BATTERIES SELF-CONTAINED AS NOTED.

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"



12'(FT) DRIVE-UP BEACON w/ SOLAR PANEL

STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY MBI, INC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

SOLAR DRIVE UP BEACON
N.T.S.

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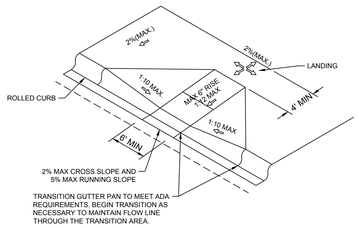
DETAILS

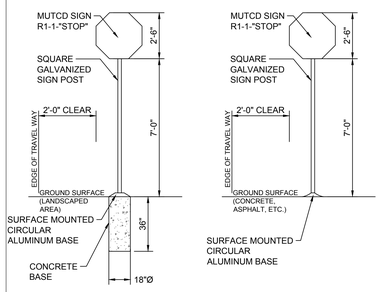
C2.0

NOTES:

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT- OF -WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
3. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
4. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 2500 PSI.
5. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
6. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
7. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
8. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
9. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
10. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

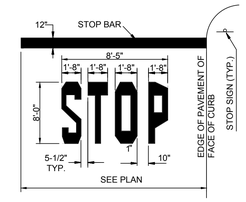


CURB RAMP DETAIL - DIAGONAL RAMP
N.T.S.



CASE 1: LANDSCAPED AREA CASE 2: HARDSCAPE AREA

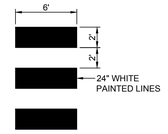
STOP SIGN DETAIL
N.T.S.



NOTES:

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. THESE WORDS AND BAR ARE TO BE PAINTED WHITE.

STOP BAR
N.T.S.



6' WIDE CROSSWALK DETAIL
N.T.S.

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DETAILS

C2.1

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GENERAL NOTES:

1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED THEMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.

2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.

3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.

4. THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.

5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING REVIEWED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.

6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER. ALL SHUTDOWNS SHALL REQUIRE WRITTEN APPROVAL FROM THE OWNER.

7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.

8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.

11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.

12. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK. THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.

14. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.

15. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR REVIEW PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER REVIEWED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

16. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.

17. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER REVIEWED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS

18. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

19. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.

21. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.

22. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.

23. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.

24. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."

25. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.

26. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.

27. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.

28. WIRING: WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES.

29. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.

30. GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.

31. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.

32. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT ALL EXISTING EQUIPMENT OR INFRASTRUCTURE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING EQUIPMENT OR INFRASTRUCTURE SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL LIGHTING NOTES:

1. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.

2. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.

4. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

5. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.

6. EACH LIGHT POLE SHALL HAVE 3/4" X 10' COPPER GROUND ROD WITH #6 CU TO GROUND LUG IN LIGHT POLE HANDHOLE. CABLE CONNECTION TO GROUND ROD SHALL BE AN EXOTHERMIC CONNECTION, MINIMUM 12" BELOW FINISHED GRADE.

7. FOR MATERIAL INSTALLED AND/OR WORK PERFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST, IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

9. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.

10. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.

11. TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER TARGET STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

12. CIRCUIT CONDUCTORS #2 AWG OR SMALLER TO BE COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION OR COPPER TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE "XHHW-2" STRANDED COPPER. MINIMUM CONDUCTOR SIZE TO BE #10 AWG WITH #10 GND, UNLESS OTHERWISE NOTED.

13. UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

14. HORIZONTAL DIRECTIONAL DRILLED (HDD) CONDUITS TO BE SCHEDULE 40 HDPE, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

15. EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL (GRS), MINIMUM SIZE 1", UNLESS OTHERWISE NOTED ON THE PLANS. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN.

ABBREVIATIONS:

AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
DIA	DIAMETER
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
FVNR	FULL VOLTAGE NON-REVERSING STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
IEEE	INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
KW	KILOWATT
KVA	KILOVOLT AMPERES
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MH	MOUNTING HEIGHT
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PVC	POLYVINYL CHLORIDE
SCCR	SHORT CIRCUIT CURRENT RATING
SES	SERVICE ENTRANCE SECTION
SS	STAINLESS STEEL
TSP	TWISTED SHIELDED PAIR
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
WP	WEATHERPROOF
WWTP	WASTE WATER TREATMENT PLANT
XFMR	TRANSFORMER
3P	THREE PHASE

*GENERAL LIST OF ABBREVIATIONS; SOME MAY OR MAY NOT APPLY.

SUMMARY OF BUILDING CODES:

ARKANSAS NATIONAL ELECTRICAL CODE 2011
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL EXISTING BUILDING CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE

LEGEND:

PROPOSED UNDERGROUND ELECTRICAL CONDUIT

UGE OR — EXISTING UNDERGROUND ELECTRICAL CONDUIT

OR — PROPOSED SITE LIGHTING LED POLE FIXTURE
SEE PLANS FOR ARRANGEMENT AND QUANTITY

OR — EXISTING SITE LIGHTING LED POLE FIXTURE
SEE PLANS FOR ARRANGEMENT AND QUANTITY

X — CONSTRUCTION NOTE

SOLAR DRIVE UP BEACON

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Date	No	Description

DATE: 09/28/2022

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BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

SITE LIGHTING
GENERAL NOTES

E1.0

Plotted By:Frogget, Christopher Sheet Set:Kha Layout:E1.0 September 28, 2022 05:30:19pm Y:_T-Stores\2204 Bryant AR\CADD\T2204 DriveUp Expansion (Site Lighting-Electrical).dwg
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LOAD CALCULATION	
LOAD DESCRIPTION	WATTS
PROPOSED LOADS	
PROPOSED LED FIXTURES (ALL)	1,496
+25% PER NEC	374
TOTAL PROPOSED LOAD	1,870

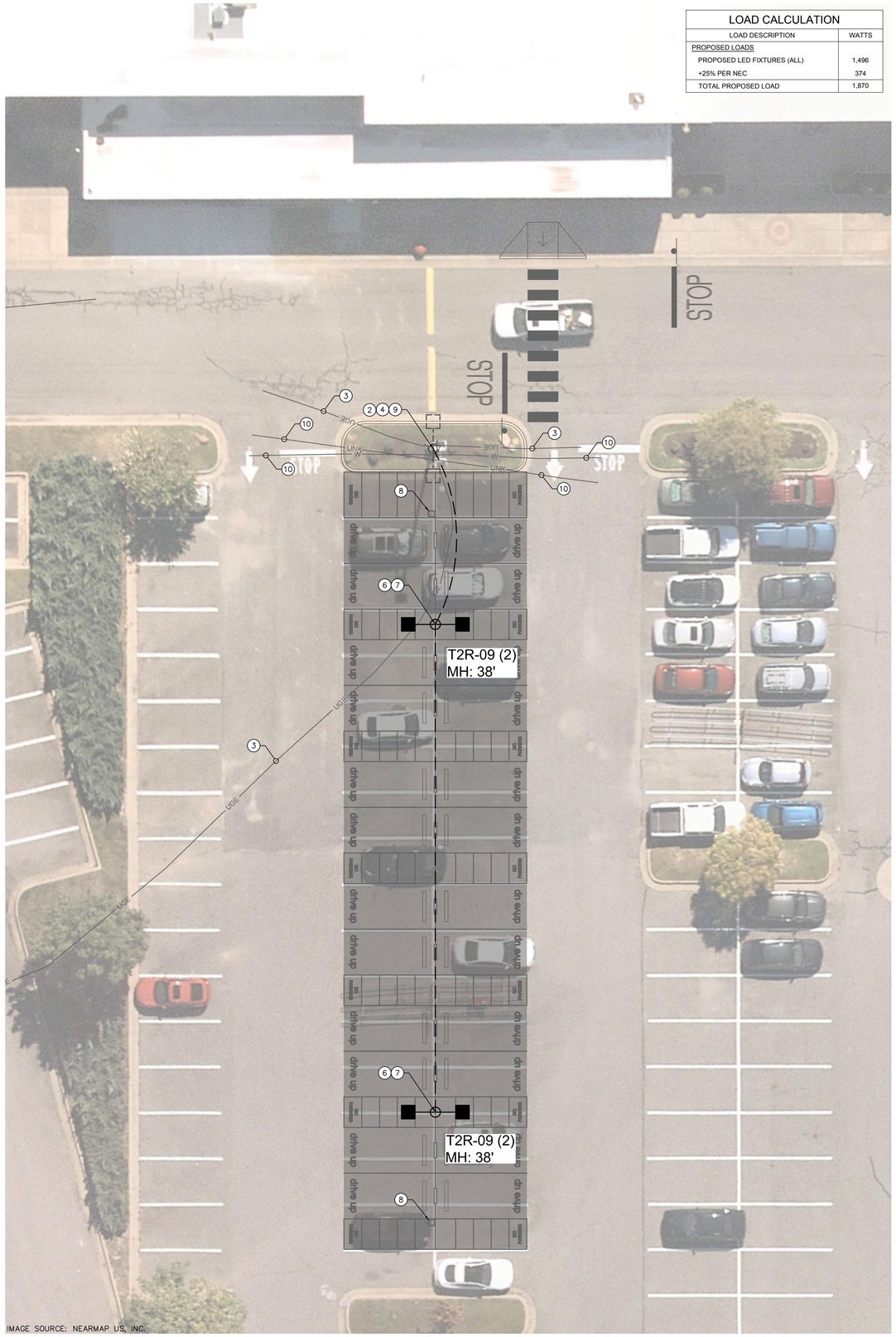


IMAGE SOURCE: NEARMAP US, INC.

PROPOSED DRIVE UP STALLS
1" = 10'

811 Know what's **below.** **Call** before you dig.

KEYED LIGHTING CONSTRUCTION NOTES

1. COORDINATE SITE ELECTRICAL WORK WITH OWNER, SITE MANAGER AND ALL APPROPRIATE TRADES. EXISTING CONDUITS TO BE MANDRELLED AND REUSED; REPLACE IF COLLAPSED OR BLOCKED. INTERCEPT AND EXTEND CONDUITS AND CONDUCTORS AS REQUIRED. RE-USE EXISTING SAME SIZE OR LARGER WIRE AFTER TESTING EXISTING WIRE AND INSULATION PER NEC STANDARDS.
2. EXISTING SITE LIGHTING POLE, FIXTURES, AND FOUNDATION TO REMAIN. PROTECT IN PLACE.
3. EXISTING ELECTRICAL SITE LIGHTING CONDUIT. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.
4. FURNISH AND INSTALL 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PENETRATE EXISTING POLE SIDEWALL AND SEAL ALL PENETRATIONS UPON COMPLETION. SEE DETAIL E2 FOR ADDITIONAL INFORMATION.
5. PROVIDE (1) 3/4" SCHEDULE 40 HDPE CONDUIT VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD. PROVIDE (2) #10 AWG CU XHHW CONDUCTORS AND (1) #10 AWG CU GROUND FOR SITE LIGHTING AND CONNECT FOR A COMPLETE SYSTEM. ENSURE THAT ALL EXISTING CIRCUITS AND CONNECTIONS ARE MAINTAINED.
6. FURNISH AND INSTALL NEW FOUNDATION FOR PROPOSED SITE LIGHTING POLE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR NEW SITE LIGHTING POLE FOUNDATIONS. FOUNDATIONS SHALL PROVIDE MOUNTING HEIGHT(S) FOR FIXTURES AS DESIGNATED IN THE PLANS. FOUNDATIONS SHALL PROVIDE BOLT PATTERNS TO MATCH THE FLANGE BOLT PATTERN. SEE DETAIL E1.
7. FURNISH AND INSTALL (2) NEW LED SITE LIGHTING FIXTURES COOPER GLEON LUMINAIRE LIGHT MODEL # GLEON-SA6B-740-8-T2R-DP-DIM10-PERTN-MS/DC-L40W AT 38' MOUNTING HEIGHT WITH NEW MAST ARMS ON NEW POLE AND FOUNDATION. PROVIDE (2) #12 AWG CU CONDUCTORS AND (1) #12 AWG CU GROUND FROM POLE HAND HOLE TO EACH FIXTURE AND CONNECT FOR COMPLETE SYSTEM. COORDINATE WITH OWNER TO VERIFY ALL PREVIOUS CIRCUITS AND CONNECTIONS HAVE BEEN REESTABLISHED.
8. SOLAR BEACON. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL IDENTIFY EXISTING LIGHTING CIRCUIT TO UTILIZE FOR CONNECTING NEW SITE LIGHTING FIXTURES. IDENTIFY THE EXISTING LIGHTING CIRCUIT'S SOURCE PANEL, CIRCUIT NUMBER AND CIRCUIT BREAKER SIZE. VERIFY EXISTING CAPACITY BY PERFORMING 30-DAY LOAD STUDY OR NEC 220.87 APPROVED METHOD. IF THE TOTAL NEW LOAD (EXISTING PLUS PROPOSED) EXCEEDS THE ALLOWABLE LOADS OF THE CIRCUIT BREAKER OR PANEL, DO NOT CONNECT THE NEW LOADS WITHOUT ADEQUATE CAPACITY. PROVIDE UPDATED PANEL SCHEDULES AS NEEDED.
10. EXISTING UNDERGROUND UTILITIES. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.

GENERAL CONSTRUCTION NOTES

A. ALL EXISTING ELECTRICAL INFORMATION INCLUDING LUMINAIRE TYPES, PANEL NAMES, CIRCUIT NUMBERS, CONDUIT/CONDUCTOR SIZES AND ROUTING, ETC. ARE UNKNOWN AND BASED ON EXISTING DOCUMENTS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY INFORMATION DURING CONSTRUCTION AND PROVIDE UPDATED AS-BUILTS UPON COMPLETION.

B. ALL CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE SCHEMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE BEST ROUTING PATH BASED ON FIELD CONDITIONS WITH OWNER APPROVAL.

C. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER(S) FOR DETAILED CONNECTIONS REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.

D. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

E. ALL NEW EQUIPMENT SHALL BE CONNECTED TO AN APPROPRIATELY SIZED CIRCUIT IN AN EXISTING PANEL AND/OR LIGHTING CONTROLLER. CONTRACTOR SHALL VERIFY CIRCUITING PRIOR TO ROUGH-IN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

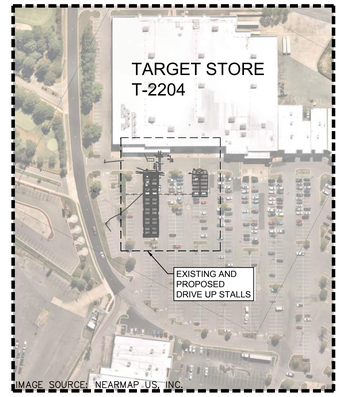
F. CONTRACTOR SHALL VERIFY EXISTING CIRCUITS ARE ADEQUATELY SIZED FOR ANY EQUIPMENT THAT IS TO BE REPLACED PRIOR TO CONNECTING NEW EQUIPMENT.

G. ALL CIRCUITING THAT IS INDICATED SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS CONNECTED TO ADEQUATELY SIZED CIRCUIT BREAKERS AND CONDUCTORS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

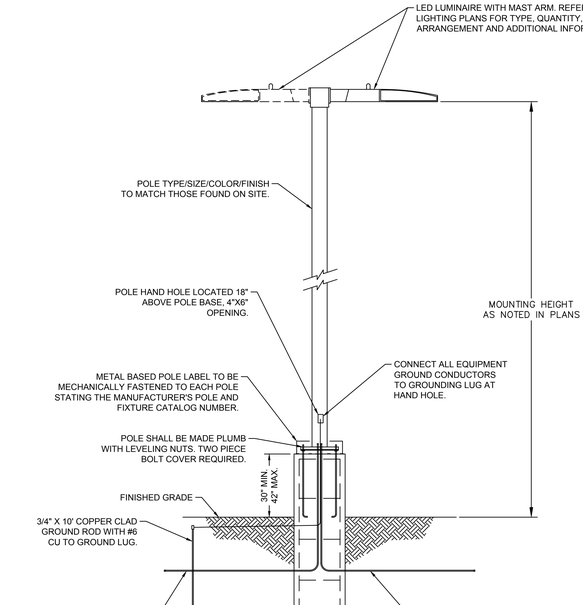
H. CONTRACTOR SHALL ENSURE EXISTING PANELS/LIGHTING CONTROLLERS HAVE ADEQUATE CAPACITY FOR NEW ELECTRICAL LOADS PRIOR TO ANY NEW OR REPLACED EQUIPMENT BEING CONNECTED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

I. CONTRACTOR SHALL RESTORE AND REPAIR ALL DISTURBED LANDSCAPE, HARDSCAPE, ASPHALT, CURB AREAS ETC. TO ORIGINAL STATE OR BETTER.

J. EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNER AND FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY EXISTING SYSTEMS (I.E. IRRIGATION, WATER, GAS, SEWER, ETC.) IMPACTED, SHALL BE REPAIRED/RESTORED TO ORIGINAL STATE OR BETTER.

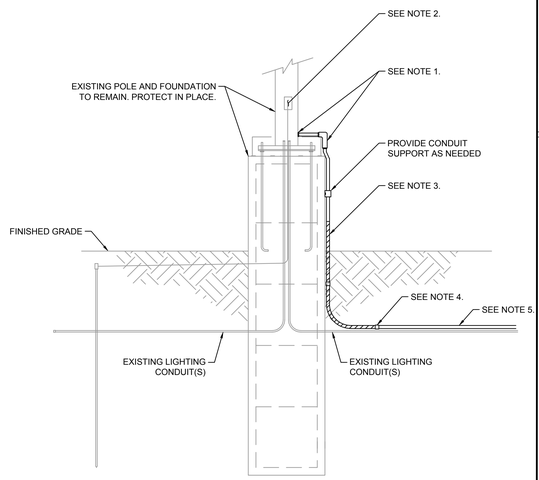


KEY MAP
1" = 150'



NOTES:
1. THIS DETAIL IS FOR REFERENCE ONLY. CONTRACTOR SHALL INSPECT EXISTING SITE POLES AND FOOTERS AND PROVIDE SIMILAR TYPES/SIZES TO MATCH.
2. POLE FOUNDATION SHALL BE PROVIDED IN DEFERRED SUBMITTAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO BE INCLUDED IN FINAL AS-BUILTS. SHOP DRAWINGS SHALL BE STAMPED/SIGNED/SEALED BY STATE REGISTERED ENGINEER.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
4. POLES, FIXTURES, ARMS AND FIXTURE COMPONENTS TO BE FACTORY PAINTED TO MATCH THOSE FOUND ON SITE.

E1 / E2.0 LIGHT POLE
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PENETRATE EXISTING POLE AND CONNECT 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PROVIDE ALL NECESSARY CONDUIT HARDWARE/FITTINGS FOR A WATERPROOF CONNECTION TO POLE.
2. FURNISH AND INSTALL (2) #10 AWG CU CONDUCTORS AND (1) #10 AWG CU GROUND AND SPLICE WITH EXISTING LIGHTING CONDUCTORS AND CONNECT TO EXISTING GROUNDING IN POLE. COORDINATE WITH OWNER FOR CIRCUIT IDENTIFICATION AND DE-ENERGIZING PRIOR TO INSTALLATION. MAINTAIN ALL EXISTING CIRCUIT CONNECTIONS UPON COMPLETION AND VERIFY FUNCTIONALITY WITH OWNER.
3. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE.
4. GRS CONDUIT TRANSITION TO HDPE CONDUIT BELOW GRADE.
5. FURNISH AND INSTALL (1) 3/4" SCHEDULE 40 HDPE CONDUIT FOR SITE LIGHTING. CONDUIT SHALL BE INSTALLED IN LOCATIONS USING METHODS AS INDICATED IN THE PROJECT PLANS.

E2 / E2.0 EXISTING POLE CONDUIT TIE IN
NOT TO SCALE

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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Date	No	Description

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

LIGHTING PLAN

E2.0

Plotted By:Froggett, Christopher Sheet Set:Kha Layout:E2.0 September 28, 2022 05:30:37pm N:\A_T-Stores\2204 Bryant ARK\ADD\T2204 DriveUp Expansion (Site Lighting_Electrical).dwg
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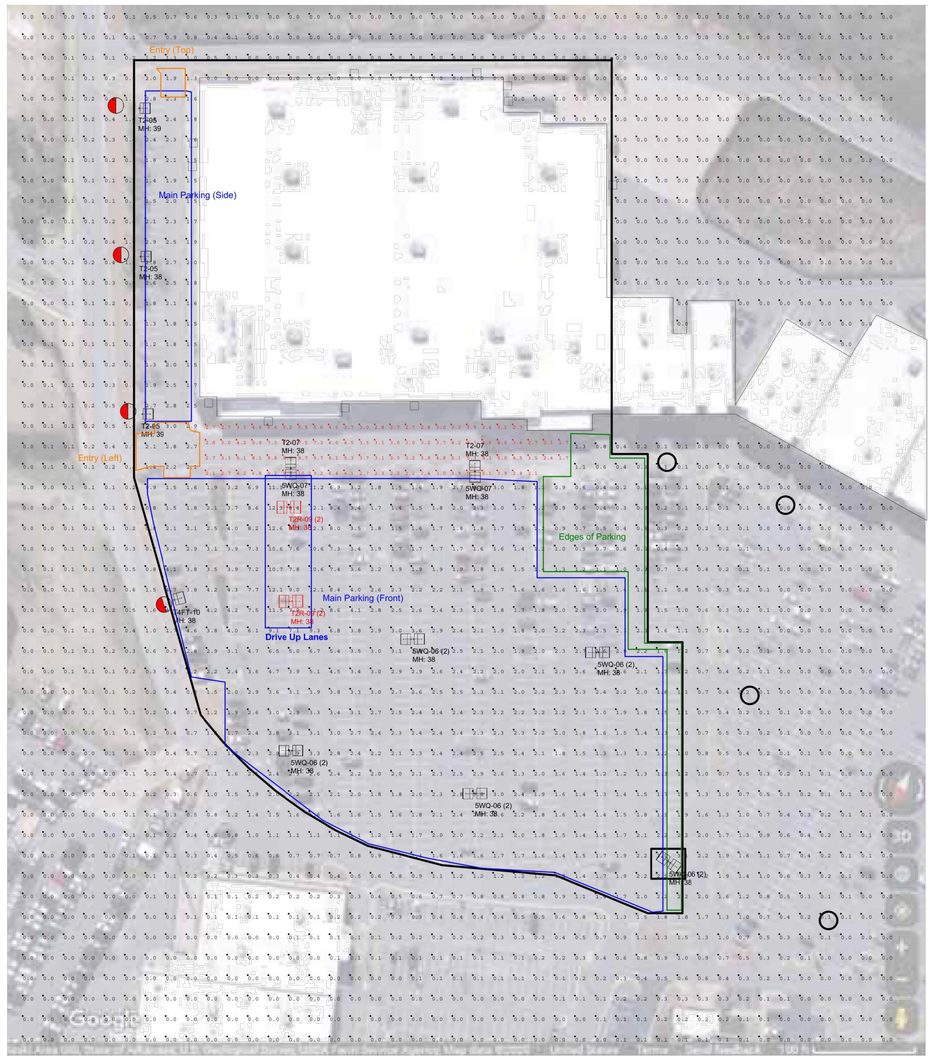

Luminaire Schedule

Symbol	Qty	Label	Lum. Watts	Lum. Lumens	LLF	BUG Rating	IES Class	Filename	Description
	5	5WQ-06 (2)	249	36001	0.900	B5-U0-G4	Type VS	GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	2	5WQ-07	295	42575	0.900	B5-U0-G5	Type VS	GLEON-SA7B-740-U-5WQ.ies	TAR-GLEON-SA7B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	3	T2-05	210	28029	0.900	B3-U0-G4	Type III	GLEON-SA5B-740-U-T2.ies	TAR-GLEON-SA5B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2-07	295	39667	0.900	B3-U0-G5	Type III	GLEON-SA7B-740-U-T2.ies	TAR-GLEON-SA7B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2R-09 (2)	374	53224	0.900	B3-U0-G5	Type II	GLEON-SA9B-740-U-T2R.ies	TAR-GLEON-SA9B-740-8-T2R-DP-DIM10-PER7N-MS/DC-L40W
	1	T4FT-10	419	56904	0.900	B4-U0-G5	Type IV	GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W

Calculation Summary

Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
Store Entrance Drive	Illuminance	4.47	10.2	1.7	2.63	6.00
Drive Up Lanes	Illuminance	10.27	12.6	7.1	1.45	1.77
Edges of Parking	Illuminance	1.06	3.1	0.1	10.60	31.00
Entry (Left)	Illuminance	2.40	3.0	1.4	1.71	2.14
Entry (Top)	Illuminance	2.10	2.3	1.9	1.11	1.21
Main Parking (Front)	Illuminance	3.06	12.6	1.1	2.78	11.45
Main Parking (Side)	Illuminance	2.01	2.9	1.2	1.68	2.42

NOTES:

RED CALC POINTS = BUILDING ENTRANCE DRIVE
BLUE = MAIN PARKING AREAS
GREEN = EDGES OF PARKING
ORANGE = ENTRY DRIVES

□ = WALL MOUNT LOCATIONS

○ = POLE LOCATIONS BY OTHERS

□ = POLE LOCATIONS DO NOT TURN ON WITH OVERRIDE

◒ = OCC SENSOR MASKING (RED IS AREA TO MASK)

T2204 - DESIGN LEVEL 1
BRYANT, AR
Pole Color & Shape Per Survey - BLACK / SQUARE
Fixture Voltage Per Survey - 480V

GRAPHIC SCALE IN FEET
0 30 60 120

NOTES

1. THE EXISTING ON-SITE LIGHTING WAS MODELED BASED OFF THE LATEST AERIAL IMAGERY FROM GOOGLE MAPS. CONTRACTOR TO VERIFY FIELD CONDITIONS AND BRING TO THE ATTENTION OF THE DESIGNER ANY DISCREPANCIES FROM THE PLANS.
2. THIS PHOTOMETRIC PLAN PREPARED BY OTHERS IS TO BE UTILIZED FOR REFERENCE PURPOSES ONLY.
3. EXISTING PARKING LOT LIGHTING, OUTSIDE OF THE LIMITS OF LIGHTING ANALYSIS, WAS NOT CALCULATED FOR THIS PROJECT.
4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT-CANDLES.
5. THIS PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. CONTRACTOR MUST BRING TO THE DESIGNERS'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH THE INFORMATION PROVIDED IN THIS PLAN.
6. NO BUILDING LUMINAIRES WERE INCLUDED IN THE CALCULATIONS FOR THE DRIVE UP AISLE.

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Date	No	Description

FOR REFERENCE ONLY

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TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
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Drawn By	CF
Checked By	PMS

PHOTOMETRIC PLAN

E3.0

Plotted By: Frogatt, Christopher - Sheet Set: Xha Layout: E3.0 September 28, 2022 05:30:37pm Y:_T-Stores\T-2204 Bryant AR\CAD\T2204 Drivetu Expansion (Site Lighting-Electrical).dwg
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October 12, 2022

City of Bryant
Community Development
210 SW 3rd Street
Bryant, AR 72022

RE: ***Target Building Signage and Drive Up Parking Variance Application***

Mr. Leonard:

Please accept this justification letter in response to the City of Bryant's sign variance application, revised parking layout, and front walk/site sustainability improvements.

Building Signage and Exterior Improvements

The applicant is seeking a variance in the number of signs allowed per street frontage (Section 3.04 – Signs in Commercial C-2 District). The building is situated on a corner lot, allowing for one additional sign on the east frontage of the building, facing Mt. Carmel Road.

Target is proposing 4 signs on the frontage of the building facing northwest toward Mt. Carmel Road. The store currently has one large bullseye sign with "Target" underneath and a CVS Pharmacy sign. The proposed signage on the front of the building includes the following:

- 13'-0" bullseye	132.73 sf
- 1'-2" "Order Pickup" sign	24.59 sf
- "Drive Up" sign with 24" letters	77.10 sf
- CVS Pharmacy sign (existing to remain)	36.62 sf
	271.04 sf total

Section 3.04 of the signage code for Commercial C-2 districts allows for two square feet per one linear foot of building façade. The front of the building is approximately 404' in width, allowing for 808 square feet of total sign area. The proposed sign area is well below this threshold at approximately 271 square feet. The additional "Drive Up" sign is intended to be used as a wayfinding sign to direct customers utilizing the drive-up service to the correct location within the parking lot. The proposed "Order Pickup" sign near the entrance of the building is intended to direct customers to the front entrance for order pickup. Target has found that including these signs reduces customer confusion and circulating the parking lot, reducing the potential for collisions or other incidents. The existing CVS Pharmacy sign is intended to remain in place. All signs are of high quality and are intended to maintain a subtle but effective presence.

The east side of the store will also include one bullseye with "Target" sign (195.7 sf). The street frontage along the eastern side of the building is 347'-5" yielding an allowable signage area of approximately 695 square feet; the proposed signage area is well within the limits at approximately 196 sf. This sign is allowable as stated in Section 3.04 of the signage code for buildings fronting multiple streets.

In addition to the building signage, the proposed façade improvements include the installation of EIFS panelling along the front and east side of the store frontage.

Drive Up Parking Modifications

Target is proposing relocating and expanding the existing Drive-Up area including wayfinding signage. Wayfinding signage on the building is desired to give Target patrons an easy and identifiable location to pick up their online orders. As part of Target's "Drive Up" program, they are expanding the number of stalls at this store location. Along with expanding the total number of stalls, the drive up location is being relocated and a curb ramp installed to align with a proposed doorway from the building utilized by team members (doorway under separate permit). The relocation is proposed to provide a safer and more direct route for team members.

Exterior Site Sustainability and Front Walk Modifications

The existing parking lot islands contain mostly mulch and an unsustainable sod mix. Target is proposing to improve the planting materials within the parking lot islands, replacing the existing planting material with groundcover plant material to reduce urban heat island effect, amend soil in landscape area near critical root zone to create a healther environment for tree species, and encourage pollinators prosperity. The design impact is anticipated to reduce CO2 with site vegetation and intercept additional rainwater runoff.

In addition to the revised planting within the parking lot, Target is proposing to improve a portion of the front entry walk with the installation of cart storage, bike racks, and benches with planter walls and plantings. Plans and a narrative for the site sustainability are provided with this submittal.

Additional Site Lighting – Drive Up Area

As part of the Drive Up expansion, the applicant is proposing to install two additional site lights for employee and customer safety in the drive up area. The proposed site lights will match existing site lights on site in type, size, color, and finish. Preliminary lighting plans are provided with this submittal.

Should you have any questions or require additional information, please do not hesitate to contact me at christian.jones@kimley-horn.com

Sincerely,



Christian Jones, P.E.
KIMLEY-HORN AND ASSOCIATES, INC

T2204 Bryant, AR

09.23.2022 | Exterior Site Sustainability | Haley Maitre

Summary:
The Bryant design focuses on promoting biodiversity, while stewarding in the natural heritage of the central Arkansas region and maintaining a high-level of guest experience. With the implantation of native vegetation, pollinators are supported through the supply of additional food and shelter. Native plants are the best foundation for diversity and ecological growth within a community. Native plants are also more likely to establish quickly and provide year-round beauty. Cleaner air is also a byproduct of species restoration, as plants absorb the carbon dioxide emitted by cars. These native species showcase horticultural appeal at the front of each store and add economic value through the transformation of a parking area.

Site Challenges:
- Existing plant material lacks diversity and abundance within the parking islands
- The reoccurrence of plant species creates a mono-culture and the subsequent lack of bio-diversity is not beneficial to pollinator species
- Existing parking islands consist of mostly mulch and an unsustainable sod mix

Design Response:
- Add groundcover plant material to reduce urban heat island effect and encourage pollinators prosperity
- Amended soil in landscape areas near critical root zone to create a healthier environment for the tree species
- Convert the turf area in the large linear landscape island to a regenerative landscape area.

Design Impact:
- Total Amended Soil Area: 18,276 SF
- Total Number of Parking Island Modified: 28
- Total Amount of CO2 Sequestered Annually by Site Vegetation: 7,780 lbs of CO2
- Runoff Intercepted by Site Vegetation: 57,800 gallons/year

Recommendations & Future Opportunities: Low to Medium Scope
- Utilize areas within landscape islands as potential rain gardens and stormwater filtration efforts
- Install additional landscape islands to minimize existing paving field and reduce the urban heat island effect
- Increase pollinator garden species in sodded perimeter areas to increase sustainability, biodiversity, and aesthetic qualities
- Add landscape islands at catch basins to mitigate stormwater and improve water quality.

FRONT WALK AND EXTERIOR SITE SUSTAINABILITY PLANS
FOR
T-2204 BRYANT, AR

PROJECT TEAM:

LANDSCAPE ARCHITECT / LANDSCAPE ARCHITECT OF RECORD
KIMLEY-HORN AND ASSOCIATES, INC.

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OWNER / DEVELOPER
TARGET

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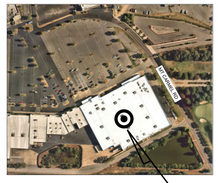

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N.T.S.



Sheet List Table

Sheet Number	Sheet Title
L000	COVER SHEET
L001	GENERAL NOTES
L100	DEMO PLAN - FRONT WALK
L101	DEMO PLAN - EXTERIOR SITE
L200	SITE - FURNITURE PLAN
L201	SITE - FURNITURE DETAILS
L300	LANDSCAPE PLAN - FRONT WALK
L301	LANDSCAPE PLAN - EXTERIOR SITE
L302	LANDSCAPE NOTES AND DETAILS
L400	IRRIGATION PLAN - FRONT WALK

NOTES:

1. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
2. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A ARCH full bleed E (36.00 x 48.00 Inches) SHEET.
3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

ULTRA-LOW SCOPE DEFINITION:

- ENHANCE EXISTING LANDSCAPE AREA - APPROXIMATELY 8,000 - 10,000 SQFT
- ASSESS EXISTING VEGETATION HEALTH
- DEMOLITION OF NON-NATIVE AND/OR UNHEALTHY PLANTS
- ADD GROUND LEVEL PLANT MATERIAL TO REDUCE HEAT ISLAND EFFECT AND ENCOURAGE POLLINATORS AND BIRD HABITAT
- ADD CANOPY TREES WITHIN THE EXISTING PARKING LOT MEDIANS
- PROVIDE IRRIGATION PERFORMANCE SPECIFICATION TO EVALUATE ADEQUATE WATER FOR NEW LANDSCAPE MATERIAL
- CREATE CURB CUTS TO FACILITATE STORMWATER MITIGATION WHERE APPLICABLE

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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

COVER SHEET

L000

9/23/2022

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS FROM AVAILABLE RECORD PLANS PROVIDED BY THE OWNER. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT AT THE TIME OF PLAN PREPARATION AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE LANDSCAPE ARCHITECT. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE LANDSCAPE ARCHITECT.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

10. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT AND OWNER.

EROSION CONTROL NOTES

1. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

2. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

3. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

4. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

6. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

7. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS IS PRACTICABLE.

8. ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.

10. EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT.

11. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE AUTHORITY HAVING JURISDICTION (AHJ) ENGINEERING DIVISION.

GRADING AND DRAINAGE NOTES

1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY LANDSCAPE ARCHITECT IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT.

3. CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.

4. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.

5. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

6. THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.

9. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.

10. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.

11. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

12. ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.

13. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

14. CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

PAVING AND STRIPING NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR WISDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND CITY STANDARDS.

3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, SIGNS, AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS.

4. ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.

5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.

7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.

8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.

9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.

10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.

11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

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Date	No.	Description
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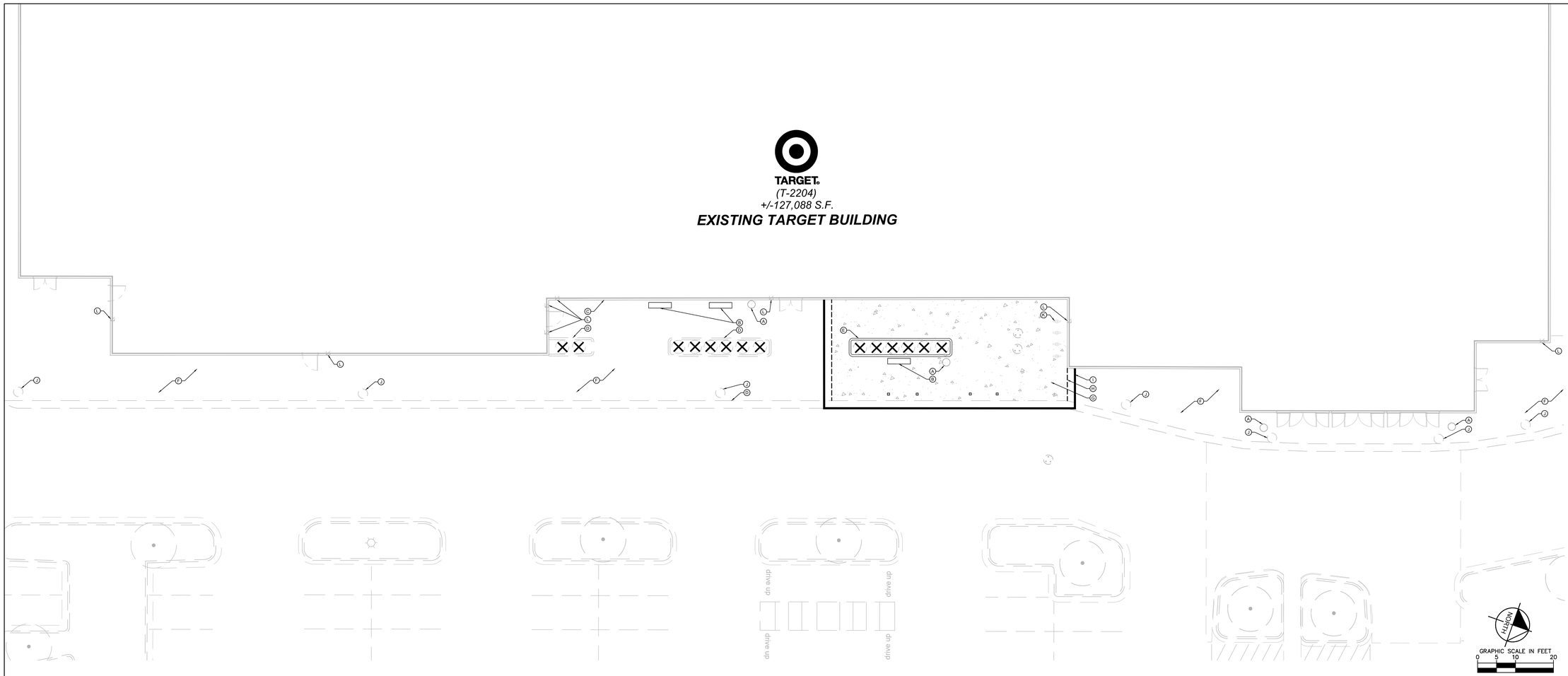
TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

GENERAL NOTES

L001



1 DEMO PLAN

SCALE: 1"=10'

L100

DEMOLITION PLAN NOTES

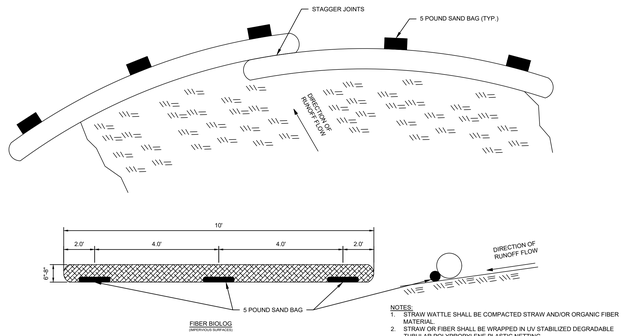
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES WITHIN ALL AREAS OF PROPOSED WORK.
4. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS ANY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PRECEDING WITH THE WORK.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH THE CITY OF MANSFIELD, RICHLAND COUNTY AND O/DOT.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ALL PROPERTIES IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING CONSTRUCTION.
8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
9. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. ALL UTILITIES SHOWN ARE EXISTING UTILITIES.
11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ANY EXISTING DRAINTILE IS ENCOUNTERED ON SITE. NO ACTIVE DRAINTILE SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.

KEYNOTE LEGEND

- (A) REMOVE TRASH RECEPTACLE (TYP.)
- (B) REMOVE BENCH (TYP.)
- (C) BUILDING CURB TO REMAIN (TYP.)
- (D) CONCRETE CURB TO REMAIN (TYP.)
- (E) REMOVE CONCRETE CURB (TYP.)
- (F) CONCRETE SIDEWALK TO REMAIN (TYP.)
- (G) REMOVE CONCRETE SIDEWALK (TYP.)
- (H) SAWCUT LINE (TYP.)
- (J) FIBER BIO-LOG
- (J) SPHERICAL BOLLARD TO REMAIN (TYP.)
- (K) REMOVE BIKE RACK (TYP.)
- (L) SECURITY CAMERA TO REMAIN (TYP.)

LEGEND

EXISTING	REMOVALS	
		PROPERTY LINE (TYP.)
		CONCRETE SURFACE (TYP.)
		FULL DEPTH SAWCUT (TYP.)
		TREE (TYP.)
		LIMITS OF CONSTRUCTION (TYP.)
		CURB & GUTTER (TYP.)
		WATERMAIN (TYP.)
		SIGN (TYP.)
		STORM MANHOLE (TYP.)
		STORM CATCHBASIN (TYP.)
		ROOF DRAIN (TYP.)
		HYDRANT (TYP.)
		LIGHT POLE (TYP.)
		SPHERICAL BOLLARD (TYP.)
		CYLINDRICAL BOLLARD (TYP.)
		BENCH (TYP.)
		TRASH RECEPTACLE (TYP.)
		BIKE RACK (TYP.)
		BUILDING CURB (TYP.)
		TABLE (TYP.)
		CART STORAGE (TYP.)



NOTES:
1. STRAW WATTLE SHALL BE COMPACTED STRAW AND/OR ORGANIC FIBER MATERIAL.
2. STRAW OR FIBER SHALL BE WRAPPED IN UV STABILIZED DEGRADABLE TUBULAR POLYPROPYLENE PLASTIC NETTING.

2 FIBER BIO-LOG

SCALE: N.T.S.

L100

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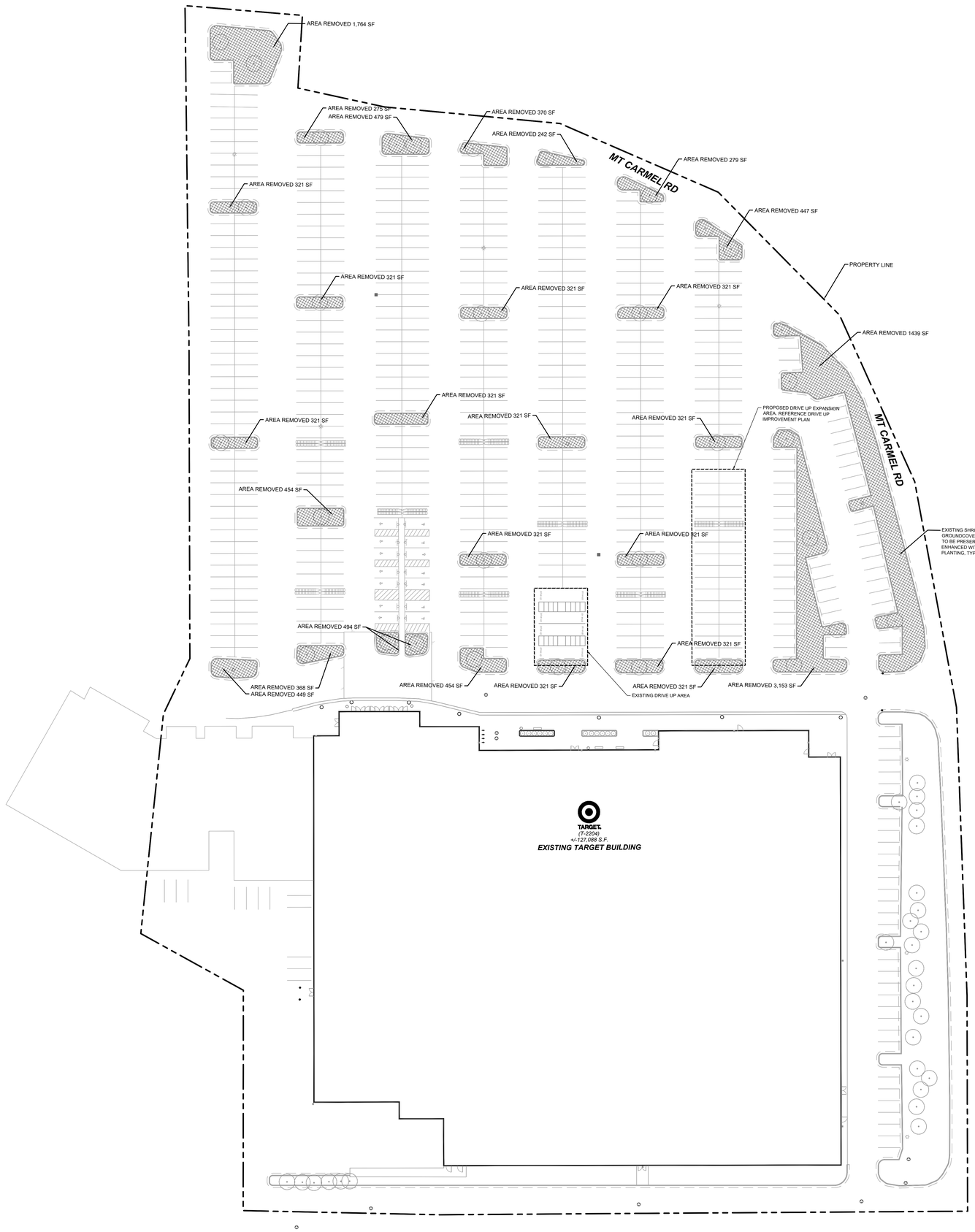
DEMO PLAN
FRONT WALK

L100



TARGET
(T-2204)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER PLANTS TO BE REMOVED = **18,276 SF**
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

GRAPHIC SCALE IN FEET
0 15 30 60

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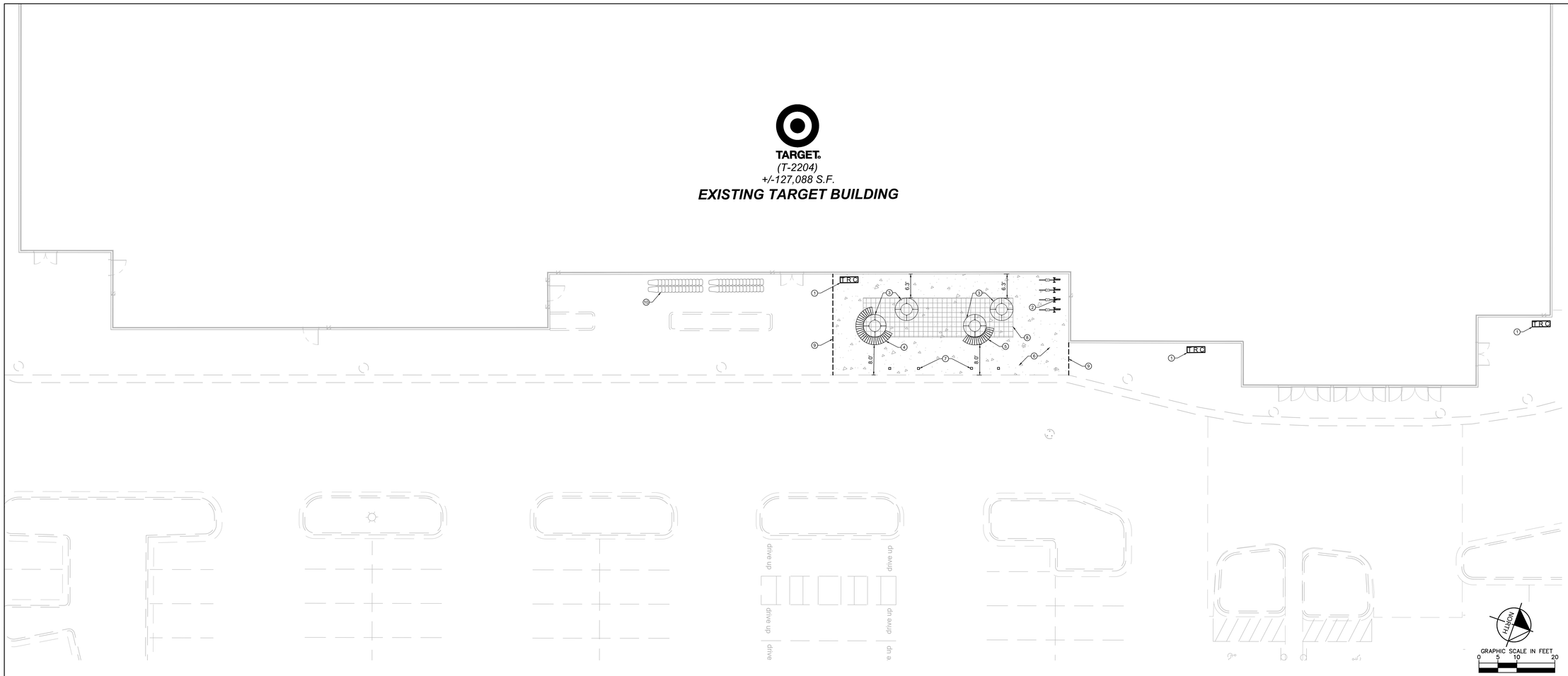
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	OS
CHECKED BY: EIW	KSS/HM

DEMO PLAN - EXTERIOR SITE

L101

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 SITE FURNITURE PLAN
SCALE: 1"=10'

L200

MATERIALS SCHEDULE

KEYNOTE	QUANTITY	SYMBOL	ELEMENT	PRODUCTS/MANUFACTURER	COLOR/FINISH	DETAIL
1	3	T.R.C	OUTDOOR LITTER RECEPTACLE - SURFACE MOUNTED (TYP.)	MODEL: SELECT, STYLE 3 MANUFACTURER: LANDSCAPE FORMS	METALLIC STEEL/ POWDER COAT	1 / L201
2	4 (INDIV.)		BIKE RACK - SURFACE MOUNTED (TYP.)	MODEL: RING MANUFACTURER: LANDSCAPE FORMS	STAINLESS STEEL/ POWDER COAT	2 / L201
3	2		PLANTER WALL (TYP.)	MODEL: KITSAP MODULAR PLANTER WALLS - LARGE (72" DIA.) MANUFACTURER: TOURNESOL SITE WORKS	POWDER COAT WHITE	3 / L201
4	1		CUSTOM BENCH 1 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 1 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
5	1		CUSTOM BENCH 2 - SURFACE MOUNTED (TYP.)	MODEL: CUSTOM BENCH 2 MANUFACTURER: WAUSAU TILE	POLYESTER POWDER COAT	DETAIL TO COME
6	1,655 SQ. FT		CONCRETE SIDEWALK (TYP.)			5 / L201
7	4		PROFILE BOLLARD (TYP.)			4 / L201
8	409 SQ. FT		STRUCTURAL SOIL (TYP.)			DETAIL TO COME
9	35 FT.		SAWCUT LINE (TYP.)			
10	30 FT.		CART STORAGE			

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
4. NO PROPOSED LANDSCAPING SUCH AS TREES OR SHRUBS, ABOVE AND UNDERGROUND STRUCTURES, OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN EXISTING OR PROPOSED UTILITY EASEMENTS AND RIGHTS OF WAY UNLESS SPECIFICALLY NOTED ON PLANS OTHERWISE.

811 Know what's below. Call 811 before you dig.

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
401 B STREET, SUITE 600
SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

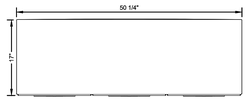
PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

SITE FURNITURE PLAN FRONT WALK

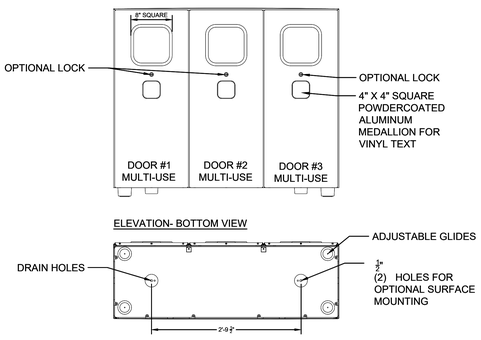
L200

Know what's below. Call before you dig.

PLAN- TOP VIEW

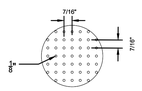


ELEVATION- FRONT VIEW

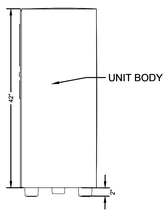


ELEVATION- BOTTOM VIEW

OPTIONAL PERFORATED DETAIL



ELEVATION- SIDE VIEW



*IT IS NOT RECOMMENDED TO DRILL HOLES FOR ANCHORING UNTIL UNIT IS ON SITE.

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

FINISH: METALLIC STEEL/ POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

1 TRIPLE UNIT TRASH / RECYCLING RECEPTACLE

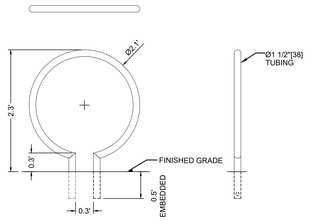
SCALE: N.T.S. L201

MANUFACTURER: LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(830) 430-6209

MODEL: RING BIKE RACK

FINISH: POWDER COAT METALLIC STEEL

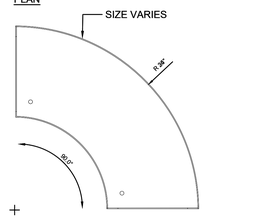
NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

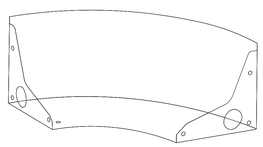


2 RING BIKE RACK

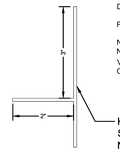
SCALE: N.T.S. L201

PLAN





TOP LIP OPTION



MANUFACTURER: TOURNESOL SITE WORKS

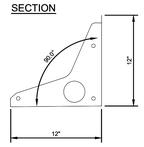
MODEL: KITSAP MODULAR PLANTER WALLS - SMALL (5' DIA.)

FINISH: POWDER COAT WHITE

NOTES: ALL DIMENSIONS ARE NOMINAL, ACTUAL SIZE MAY VARY +/- 1" UNLESS SPECIFIED OTHERWISE

KP- S
STRAIGHT EDGE
NO TOP LIP

SECTION



3 TOURNESOL PLANTER WALL

SCALE: N.T.S. L201

PLAN- TOP VIEW

BASE PLATE DETAIL

MANUFACTURER:
LANDSCAPE FORMS
WWW.LANDSCAPEFORMS.COM
(630) 430-6209

MODEL: PROFILE UNLIT PERIMETER BOLLARD

FINISH: METALLIC STEEL/POWDER COAT

NOTES: INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

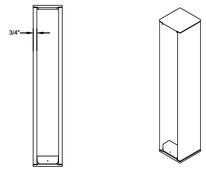
ELEVATION- FRONT



ELEVATION- BACK

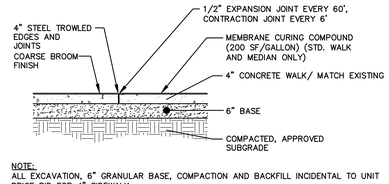


SIDE SECTION



4 PROFILE BOLLARD

SCALE: N.T.S. L201



NOTE:
ALL EXCAVATION, 6" GRANULAR BASE, COMPACTION AND BACKFILL INCIDENTAL TO UNIT PRICE BID FOR 4" SIDEWALK.

5 CONCRETE SIDEWALK

SCALE: N.T.S. L201

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MINNEAPOLIS, MN 55403

Kimley»Horn

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09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204

CONFIG:

DRAWN BY: CDE

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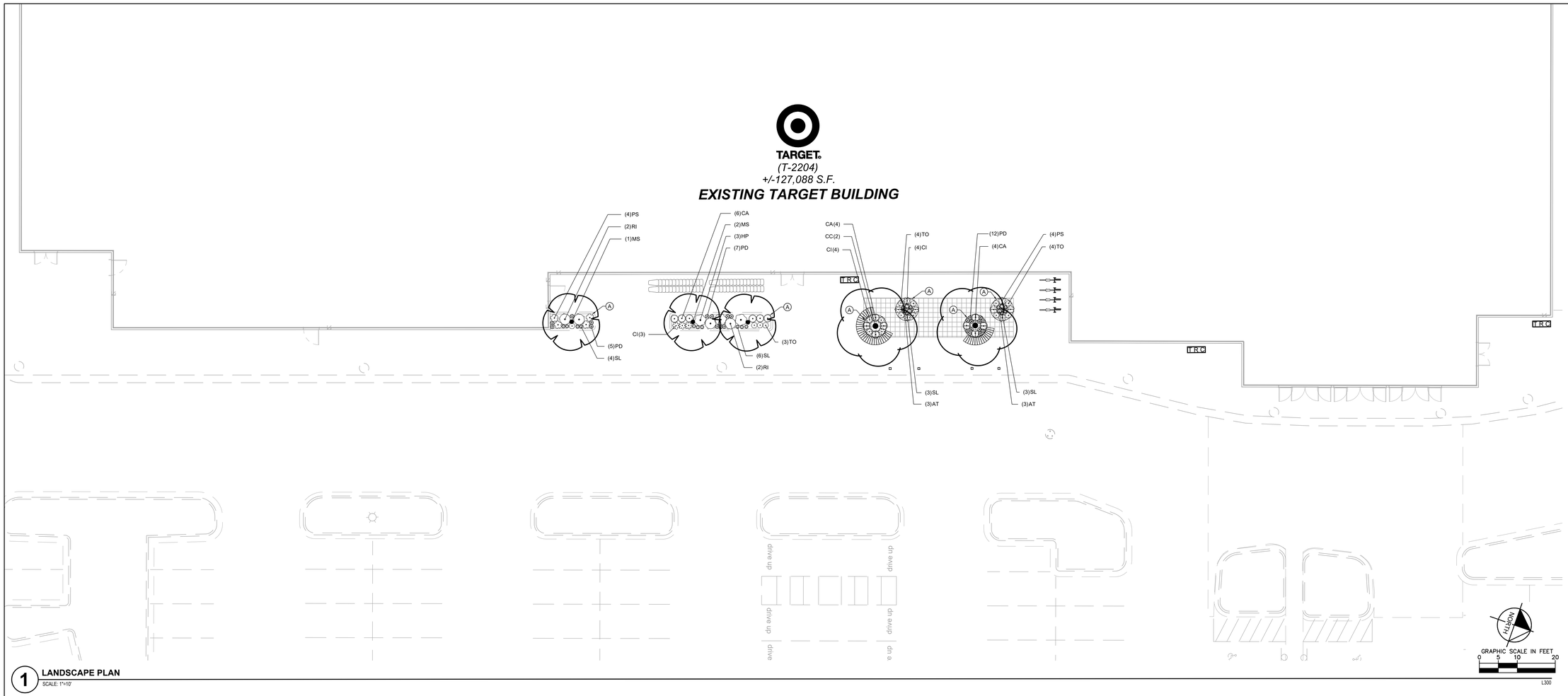
SITE FURNITURE DETAILS FRONT WALK

L201



1 **LANDSCAPE PLAN**
SCALE: 1"=10'

L300

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, PROJECT STATE-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
   CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. CONTRACTOR TO VERIFY PLANTS REQUIRED AS REFLECTED ON PLAN. NOTIFY LANDSCAPE ARCHITECT IF PLAN AND SCHEDULE DO NOT MATCH. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND COLORED RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK, COLOR BLACK, SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
19. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD PROJECT STATE-GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED.
20. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
21. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
22. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
23. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
24. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

LANDSCAPE KEYNOTES

Ⓐ DOUBLE SHREDDED HARDWOOD MULCH (TYP.)

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
	CC	2	CERCIS CANADENSIS	EASTERN REDBUD	B & B	2.5" CAL MIN
ORNAMENTAL TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**
	MS	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B & B	2" CAL MIN
DECIDUOUS SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CA	14	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#5 CONT.	2` OC
	HP	3	HYPERICUM PROLIFICUM	SHRUBBY ST. JOHN'S WORT	#5 CONT.	3` OC
	RI	4	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	#5 CONT.	3` OC
ORNAMENTAL GRASSES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	AT	6	ANDROPOGON TERNARIUS	SPLITBEARD BLUESTEM	#1 CONT.	2` OC
	SL	16	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 CONT.	1` OC
PERENNIALS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
	CI	11	CALLIRHOE INVOLUCRATA	PURPLE POPPYMALLOW	#1 CONT.	2` OC
	PD	24	PENSTEMON DIGITALIS	BEARDTONGUE	#1 CONT.	1` OC
	PS	8	PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAIN MINT	#1 CONT.	2` OC
	TO	12	TRADESCANTIA OCCIDENTALIS	PRAIRIE SPIDERWORT	#1 CONT.	1` OC

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7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

LANDSCAPE PLAN
FRONT WALK

L300



TARGET
(T-xxxx)

EXISTING TARGET BUILDING

LEGEND

EXISTING

- PROPERTY LINE (TYP.)
- TREES TO BE PROTECTED (TYP.)
- SHRUBS AND GROUNDCOVER TO REMAIN AND ENHANCED WITH NEW PLANTING
- STORM CATCHBASIN (TYP.)
- HYDRANT (TYP.)
- LIGHT POLE (TYP.)
- CART STORAGE (TYP.)

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CAL	HT	
	2	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	B & B	8'GAL	
	2	NYSSA SYLVATICA / BLACK GUM	B & B	8'GAL	
SHRUBS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT.**		
	47	ARONIA ARBUTIFOLIA / RED CHOKEBERRY	3 GAL		
	154	ILEX GLABRA / INKBERRY HOLLY	3 GAL		
	57	ITEA VIRGINICA / VIRGINIA SWEETSPIRE	3 GAL		
	51	RHUS AROMATICA / FRAGRANT SUMAC	3 GAL		
GROUND COVERS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	326	CALYPTOCARPUS VIALIS / HORSEHERB	1 GAL		24" o.c.
	1,278	IRIS VERSICOLOR / BLUE FLAG	1 GAL		12" o.c.
	1,912	RUDBECKIA X 'AMERICAN GOLD RUSH' / AMERICAN GOLD RUSH CONEFLOWER	1 GAL		12" o.c.
	619	SOLIDAGO RUGOSA / WRINKLELEAF GOLDENROD	1 GAL		24" o.c.
	1,261	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL		30" o.c.
GROUNDCOVER AREAS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
	204	SHREDDED HARDWOOD MULCH	MULCH		

NOTE:

TOTAL SOIL AREA TO BE AMENDED : **18,276 SF**

AMENDED SOIL PROFILE FROM TOP TO BOTTOM:

- 3" DEPTH SHREDDED HARDWOOD MULCH
- 18"-24" DEPTH AMENDED SOIL PER SPECIFICATIONS
- FILTER FABRIC WRAPPING FREE DRAINING AGGREGATE
- 4" DEPTH FREE DRAINING AGGREGATE BASE
- 3" WIDE PERFORATED PIPE WITH DRAIN AND SOCK FOR SOIL AERATION THROUGH DEPTH OF AMENDED SOIL PROFILE. PIPE LOCATIONS TO BE DETERMINE BY LANDSCAPE ARCHITECT IN CONSTRUCTION DOCUMENT SET.

PROPOSED PLANT LOCATIONS IN EXISTING SHRUB AND GROUNDCOVER AREAS TO REMAIN ARE APPROXIMATE. THESE PROPOSED PLANTS SHALL BE LOCATED WITHIN OPEN SPACES BETWEEN EXISTING SHRUB AND GROUNDCOVER PLANTS TO ENHANCE THE AREA AND PLANTED IN THE FIELD AS DIRECTED BY THE LANDSCAPE ARCHITECT.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

Know what's below. Call before you dig.

Know what's **below.** Call before you dig.

OS

TARGET®
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn

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SAN DIEGO, CA 92101
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TARGET

BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

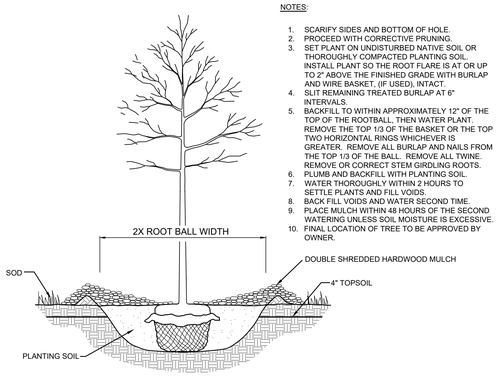
PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY:	OS
CHECKED BY:	KSS/HM

LANDSCAPE PLAN EXTERIOR SITE

L301

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE, (800) 242-8511 OR DIGGERSHOTLINE.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, WISCONSIN-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
12. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
13. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO WISDOT STANDARD SPECIFICATION 625 (TOPSOIL AND SALVAGED TOPSOIL) AND BE LOCAL FERTILE AGRICULTURAL SOIL FREE OF SUBSOILS, ROCKS, CLAYS, PLANTS, WEEDS, ROOTS, AND OTHER IMPURITIES. PH VALUE SHALL BE BETWEEN 5.4 AND 7.0. REMOVE DEBRIS AND WEEDS FROM SUBSOIL. SCARIFY SUBSOIL DEPTH OF 2" PRIOR TO PLACING TOPSOIL. SPREAD TOPSOIL TO A MINIMUM DEPTH OF 6" IN SOD/SEED AREAS, 18" FOR PLANTING BEDS, AND 36" FOR TREE AREAS. TOPSOIL PLACEMENT SHALL TAKE PLACE DURING DRY WEATHER. PREPARE TOPSOIL SO THAT IT IS FREE OF DEBRIS AND GRADED TO DRAIN AS INDICATED ON GRADING PLANS. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT AND PROHIBIT CONSTRUCTION TRAFFIC FROM AREAS WITH TOPSOIL
17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR/DYE-FREE RED, OR APPROVED EQUAL. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. MODIFY EXISTING IRRIGATION SYSTEM TO PROVIDE A COMPLETE, WORKING SYSTEM. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
19. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
20. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
21. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD: 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

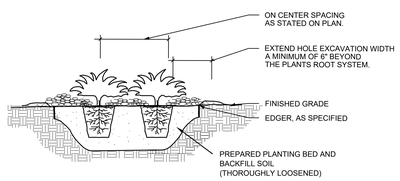


NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

14 TREE PLANTING DETAIL

SCALE: N.T.S. L302



NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

15 SHRUB / PERENNIAL PLANTING DETAIL

SCALE: N.T.S. L302

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SAN DIEGO, CA 92101
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Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

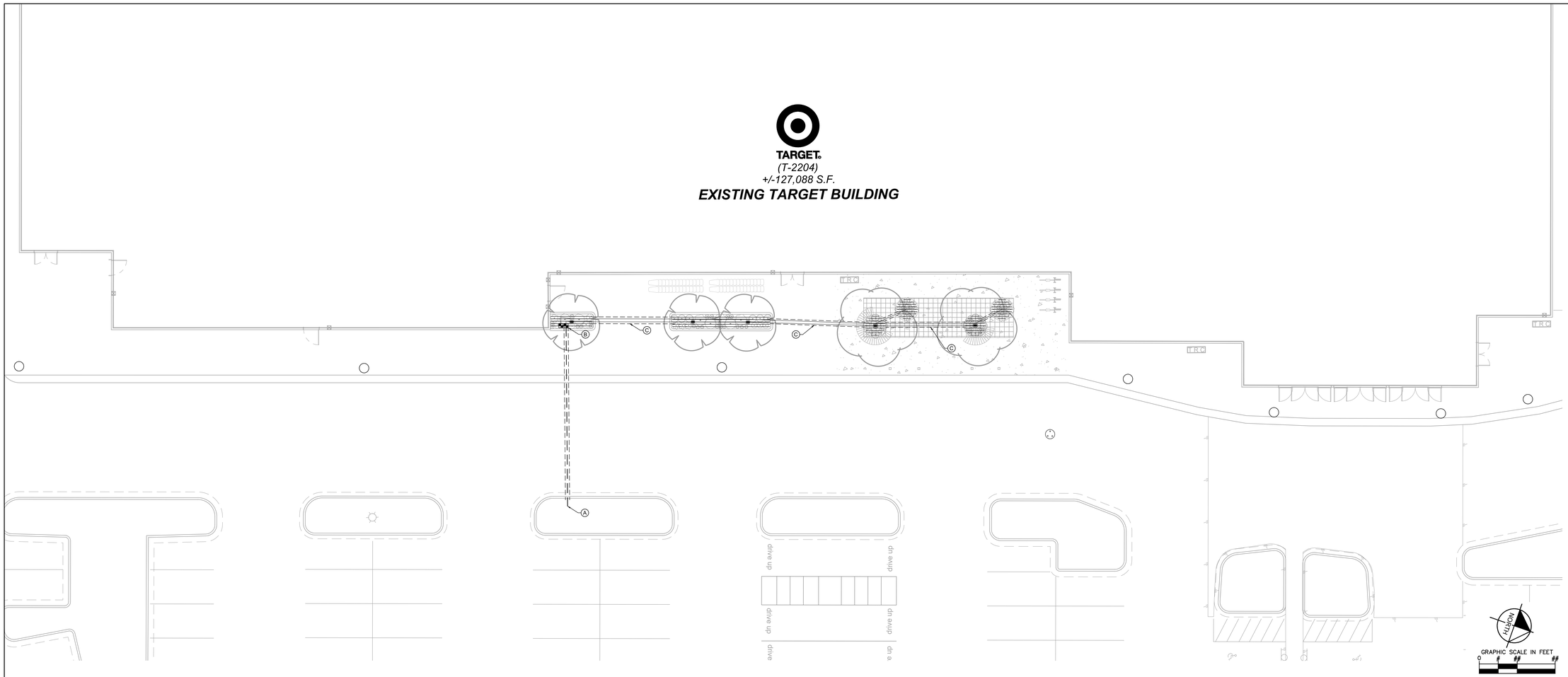
TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER	T-2204
CONFIG:	
DRAWN BY: CDE	
CHECKED BY: EIW	

LANDSCAPE NOTES AND DETAILS

L302

TARGET
(T-2204)
+/-127,088 S.F.
EXISTING TARGET BUILDING



1 IRRIGATION PLAN
SCALE: 1"=10'

L400

IRRIGATION NOTES

1. IRRIGATION SYSTEM IS DIAGRAMMATIC. CONTRACTOR TO VERIFY AND DESIGN PER ACTUAL PRESSURE, PER LOCAL CODES, AND PER SITE REQUIREMENTS. FIELD VERIFY LOCATION OF COMPONENTS WITH ACTUAL CONDITIONS PRIOR TO INSTALLATION, ADJUST AS NEEDED FOR COMPLETE COVERAGE. SYSTEM TO INCLUDE ALL PLUMBING AND ELECTRICAL, INCLUDING CONDUIT, SLEEVING, AND WEATHER-PROOF ENCLOSURES. SYSTEM SHALL BE COMPLETE. CONTRACTOR TO PROVIDE SHOP DRAWINGS, DESIGN PRESSURE DESIGN CALCULATIONS, AND RELATED PRODUCT SHEETS FOR OWNER OR LANDSCAPE ARCHITECT APPROVAL. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS OF IRRIGATION SYSTEM AT THE COMPLETION OF THE PROJECT. SYSTEM SHALL HAVE A ONE-YEAR WARRANTY ON PARTS AND LABOR. THE IRRIGATION SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION. SEE SITE IRRIGATION SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS, IF APPLICABLE. ZONE PARAMETERS: TURF AREAS SHALL HAVE SPRAYS/ROTORS, SHRUB/ PERENNIAL AREAS SHALL HAVE DRIP, AND TREES SHALL HAVE BUBBLERS.
2. ALL PIPE 1.5" OR GREATER SHALL BE SDR 26 CLASS 200 FOR MAINLINE AND CLASS 160 FOR LATERLINE PVC PIPE(DO NOT EXCEED 35 GPM FOR 1.5" AND 58 GPM FOR 2"). ALL PIPE 1.25" OR 1" SHALL BE 100 POLY PIPE OR CLASS 160 PVC PIPE, AS INDICATED(DO NOT EXCEED 13 GPM FOR 1" AND 22 GPM FOR 1.25"). PIPE SIZE TO BE IDENTIFIED BY CONTRACTOR PER ZONE REQUIREMENTS. DEPTH OF PIPE TO BE APPROXIMATELY 18" FOR MAINLINE AND 12" FOR LATERAL LINES, OR AS REQUIRED, FIELD VERIFY. LOCATE IRRIGATION PIPE AWAY FROM PLANT MATERIAL.
3. ALL WIRING, BACKFLOW PREVENTOR, AND PLUMBING AS PER LOCAL CODE. WATER CONNECTION BY MECHANICAL AND UTILITY CONTRACTOR. VERIFY AND ADD BOOSTER PUMP AS REQUIRED. VERIFY POWER CONNECTION WITH ELECTRICAL.
4. ALL VALVES, FLOW SENSORS, AND QUICK COUPLERS SHALL BE LOCATED IN VALVE BOXES(SIZED FOR NORMAL MAINTENANCE, FLUSH WITH FINAL GRADE. PROVIDE (2) QUICK COUPLER KEYS AND HOSE SWIVELS. PROVIDE DECODERS FOR 2-WIRE SYSTEM AT EACH VALVE. FOR DRIP ZONES, PROVIDE DRIP KIT OF VALVE, PRESSURE REDUCER, AND FILTER WITHIN ONE VALVE BOX. DRIP ZONE AIR RELIEF VALVE AND FLUSH VALVE TO BE IN SEPARATE VALVE BOXES.
5. CONTROLLER TO BE COMMERCIAL TYPE, SIZED FOR NUMBER OF ZONES, CAPABLE OF 2-WIRE TECHNOLOGY, INCLUDING DECODER MODULE AND SURGE PROTECTION. SYSTEM TO BE 2-WIRE TECHNOLOGY WITH REQUIRED GROUNDING(LIGHTING PROTECTION). MOUNT AND CONNECT CONTROLLER AND OTHER CONTROLLER ACCESSORIES, SUCH AS HAND HELD REMOTE, WEATHER/RAIN/FREEZE SENSOR, FLOW SENSOR, AND OTHER RELATED ITEMS. THIS ALSO INCLUDES PAINTED CONDUIT AND MOUNTING BOARDS AND HARDWARE FOR ALL EXPOSED AREA, AS DIRECTED BY OWNER. INSTALL WEATHER/RAIN/FREEZE SENSOR ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S) PER OWNER'S APPROVAL.
6. FIRST YEAR WINTERIZATION AND SPRING START UP OF SYSTEM SHALL BE PERFORMED BY IRRIGATION CONTRACTOR, UNLESS INDICATED OTHERWISE.
7. MINIMUM 4" PVC SCHEDULE 40 SLEEVING SHALL BE REQUIRED UNDER ALL WALKS AND PAVEMENTS FOR IRRIGATION PIPE AND WIRES. PROVIDE 12" LENGTH OF #3 REBAR AT EACH TEMPORARILY SEALED END, STAND PIPE, OR OTHER APPROVED METHODS FOR FUTURE LOCATING. EXTEND SLEEVING AT LEAST 1 FOOT BEYOND EDGE OF PAVEMENT. PROVIDE PVC STAND PIPE FOR LOCATING ENDS OF SLEEVING. PROVIDE MINIMUM TWO SIZES LARGER THAN PIPE SIZE. PROVIDE ADDITIONAL SLEEVING FOR WIRING, AS NEEDED. SLEEVE DEPTH IS PRIMARILY 18 INCHES, OR AS REQUIRED. COORDINATE AND PLACE SLEEVING PRIOR TO PAVEMENT INSTALLATION. DIRECTIONAL BORE UNDER PAVEMENT IN EXISTING CONDITIONS TO REMAIN.
8. BIDDING CONTRACTORS SHOULD BECOME THOROUGHLY FAMILIAR WITH ALL FACETS OF THE PROPOSED IRRIGATION SYSTEM. FAILURE TO CLARIFY MISUNDERSTANDINGS, OR INTENT OF THESE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTAL OF BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE IRRIGATION CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB UTILITIES OR EXISTING CONDITIONS. CONTRACTOR SHALL REPAIR/RESTORE ANY DAMAGE INVOLVING IRRIGATION INSTALLATION.
10. INSTALL WEATHER/RAIN/FREEZE SENSOR(S) ON EXTERIOR WEATHER EXPOSED VERTICAL SURFACE(S). COORDINATE WITH OWNER'S AUTHORIZED REPRESENTATIVE AS TO FINAL LOCATION.
11. CONTROL WIRE WILL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN GROUND, MINIMUM GAUGE: MINIMUM #14 U.F. FOR EITHER MULTI-STRAND OR TWO-WIRE. COMMON GROUND WIRE, IF APPLICABLE, SHALL BE MINIMUM #12 GAUGE WHITE. FOR MULTI-STRAND SYSTEMS, PROVIDE TWO EXTRA CIRCUIT WIRES AND ONE EXTRA COMMON GROUND WIRE FOR ENTIRE MAINLINE LENGTH, MARK AS APPROPRIATE. 24 VAC WIRE SPLICING MATERIAL WILL BE DIRECT BURIAL SPLICE KIT AS MANUFACTURED BY 3M.
12. SOME AREAS MAY REQUIRE RISER EXTENSIONS FOR SPRINKLERS OR A FIXED RISER WITH A SHRUB HEAD OR SHRUB ADAPTER TO OBTAIN PROPER COVERAGE. ROTOR NOZZLES TO PROVIDE PROPER COVERAGE AND MATCH PRECIPITATION, AS REQUIRED. FIELD ADJUST AS NEEDED. SPRAY HEADS IN TURF AREAS TO BE 6" POP-UPS AND IN LANDSCAPE BEDS TO BE 12" POP-UPS. INSTALL ROTOR AND SPRAY HEADS TO LATERAL LINE WITH FLEX TUBING OR SWING JOINTS. BUBBLERS TO BE ON 6" POP-UP.
13. VERIFY AND COORDINATE FINAL LOCATION OF WATER SOURCE AND ELECTRICAL POWER CONNECTION.
14. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH OTHER IMPROVEMENTS.
15. PROVIDE 1" VALVES FOR SPRAY AND ROTOR ZONES FOR 30 GPM OR LESS, AND 1.5" VALVE FOR ZONES GREATER THAN 31 GPM. DRIP ZONES PROVIDE 3/4" OR 1" VALVES PER DEMAND OF ZONE.
16. CONTRACTOR TO SCHEDULE AND PROGRAM CONTROLLER AND VALVES FOR APPROPRIATE LANDSCAPE WATER REQUIREMENTS. VERIFY WITH OWNER AS TO TIME AND SPECIFIC REQUIREMENTS.
17. DRIP IRRIGATION TO FOLLOW MANUFACTURERS RECOMMENDATION FOR TYPE, SIZE, AND LOCATION PER LANDSCAPE CONDITION. EACH DRIP ZONE SHALL HAVE ZONE VALVE, PRESSURE REDUCER, AND FILTER, AIR RELIEF VALVE, FLUSH VALVE, SUPPLY LATERAL LINES, DRIP TUBING WITH EMBEDDED EMITTERS, AND OTHER RELATED ITEMS. DRIP TUBING SHALL BE ANCHORED AND UNDER LANDSCAPE MULCH, HIDDEN FROM VIEW, WITH EMITTERS LOCATED AT PLANT LOCATIONS. DRIP TUBING SHALL ALSO BE LOOPED AND INTERCONNECTED, WITH NO DEAD-ENDS. ANY ADDITIONAL EMITTERS, AS NOTED ON PLAN.

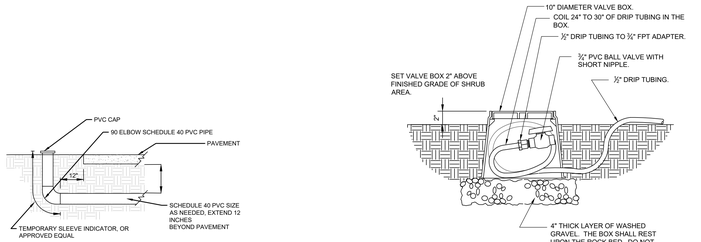
IRRIGATION KEYNOTES

- (A) POINT OF CONNECTION, VERIFY LOCATION WITH OWNER
- (B) MAINLINE & VALVES SHOWN FOR CLARITY. INSTALL MAINLINE AND VALVE WITHIN THE PROPERTY LINE, 6" FROM B.O.C WHEN POSSIBLE, AND IN GREEN SPACE. COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS (TYP.)
- (C) ALL DRIP ZONES TO HAVE MINIMUM 12" SETBACK (CLEAR ZONE) BETWEEN DRIPLINE AND SOD EDGE OR PAVEMENT EDGE. (TYP.)

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1401 1402	RAIN BIRD RWS-M-B-C W/ RWS-SOCK 1401 MINI ROOT WATERING SYSTEM WITH 4" DIAMETER X 18" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE AND RAIN BIRD 1401 0.25 GPM OR 1402 0.5 GPM BUBBLER AS INDICATED. WITH CHECK VALVE, AND SAND SOCK FOR SANDY SOIL.	5	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER, 0.3 GPM-20 GPM	2	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-04-12 XFS-CV SUB-SURFACE AND ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.9 PSI CHECK VALVE, 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.	215.6 L.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	237.6 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	48.9 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	120.1 L.F.	

Valve Callout
Valve Number
Valve Flow
Valve Size

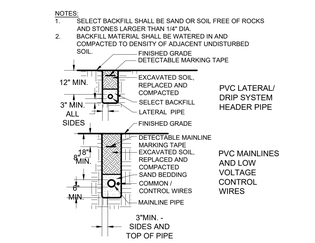


3 DRIP FLUSH VALVE
SCALE: 1 1/2" = 1'-0"

L400

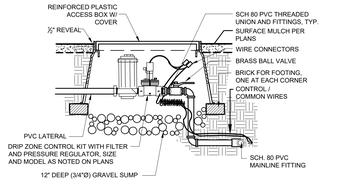
2 TYPICAL SLEEVE DETAIL
SCALE: NTS

L400

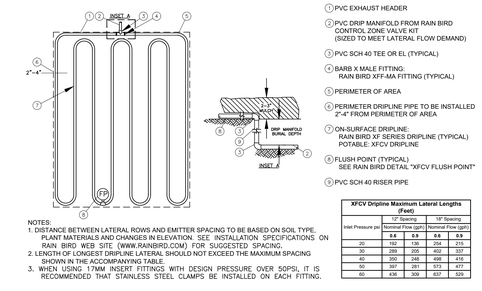


4 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE
SCALE: N.T.S.

L400



5 DRIP ZONE CONTROL KIT
SCALE: N.T.S.



NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFCV Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9
20	192	136	264	215
30	288	205	402	337
40	352	248	498	416
50	397	281	573	477
60	436	309	637	529

6 XFCV ON-SURFACE DRIPLINE - QUICK LAYOUT
SCALE: NTS

L400

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SAN DIEGO, CA 92101
PHONE: 619-234-9411
WWW.KIMLEY-HORN.COM

Date	No.	Description
09/23/2022	0	DESIGN DEVELOPMENT SUBMITTAL

TARGET
BRYANT, AR
7377 ALCOA RD,
BRYANT, AR 72022

PROJECT NUMBER T-2204
CONFIG:
DRAWN BY: CDE
CHECKED BY: EIW

IRRIGATION PLAN
FRONT WALK

L400

TARGET®

DRIVE UP EXPANSION
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

SCOPE OF WORK

PARKING LOT RE-STRIPING, STALL PARKING SIGNAGE AND WAYFINDING DRIVE UP BEACONS WHERE SHOWN ON THE PLAN.

ZONING

C-2 - GENERAL COMMERCIAL DISTRICT

OFF-STREET PARKING LOT CODE REQUIREMENTS

- DRIVE AISLE = 20' MIN. WIDTH
- STANDARD PARKING STALL = 10' X 20' MIN.

OWNER

TARGET CORP.
CONTACT: MATTHEW FLANSBURG
50 SOUTH 10TH ST, SUITE 400
MINNEAPOLIS, MN, 55403
MATTHEW.FLANSBURG@TARGET.COM

CIVIL ENGINEER

KIMLEY-HORN
CONTACT: JUSTIN BECKER P.E.
401 B ST, SUITE 600
SAN DIEGO, CA, 92101
619-234-9411
JUSTIN.BECKER@KIMLEY-HORN.COM



VICINITY MAP
NTS

NORTH

SHEET INDEX

COVER SHEET.....C0.0

OVERALL SITE PLAN.....C0.1

IMPROVEMENT PLAN.....C1.0

DETAILS.....C2.0 - C2.1

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MEMPHIS, TN 38138
901-374-9109
WWW.KIMLEY-HORN.COM

Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

COVER SHEET

C0.0

Plotted By: Schlueter, Noble Sheet Set: Kha Layout: C0.0 May 06, 2022 10:17:06am C:\Users\Noble.Schlueter\OneDrive - KHA\Documents_T-Stores\2204 Bryant, AR\CAD\T2204 DriveUp Expansion_NonCompy.dwg
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OVERALL SITE PLAN
1" = 40'

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

Kimley»Horn

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6750 POPLAR AVE, STE 600
MEMPHIS, TN 38138
901-374-9109
WWW.KIMLEY-HORN.COM

Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

OVERALL SITE PLAN

C0.1

Plotted By:Schuster, Noble Sheet Set:Kha Layout:C0.1 May 06, 2022 10:17:25am C:\Users\NobleSchuster\OneDrive - KH\Documents_T-Stores\T-2204 Bryant AR\CAD\T2204 DriveUp Expansion_NonCanopy.dwg
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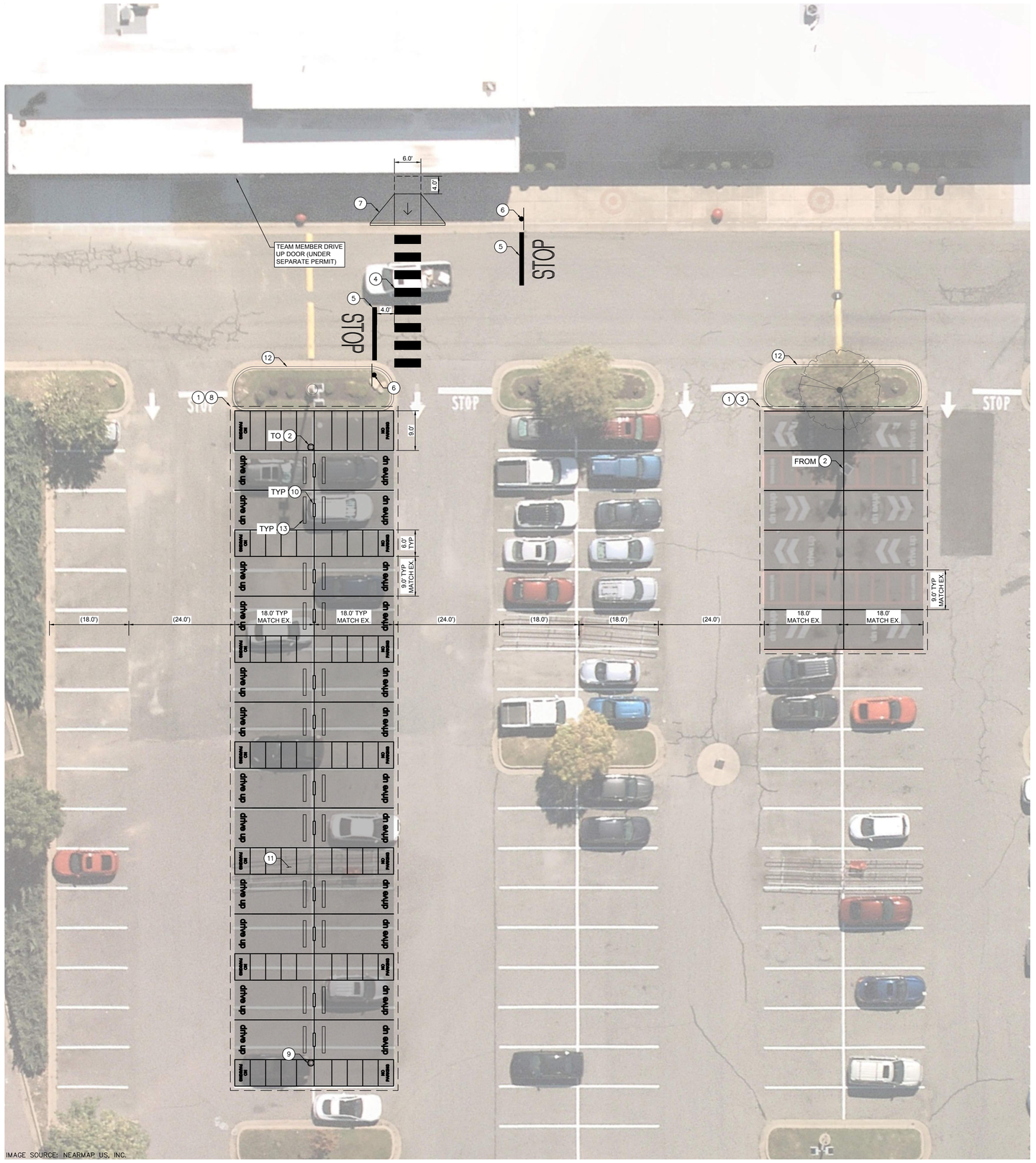

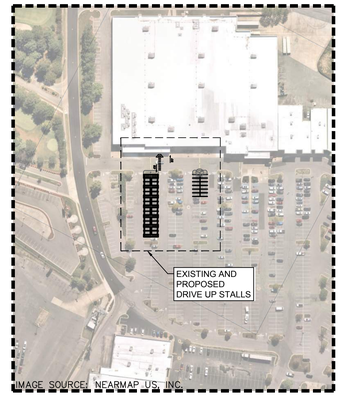

KEY MAP
1" = 150'

CONSTRUCTION NOTES

1. REMOVE EXISTING STRIPING AND DRIVE UP SIGNAGE.
2. REMOVE AND RELOCATE EXISTING DRIVE UP BEACON.
3. RESTRIPE STANDARD PARKING STALLS USING 4" WIDE WHITE STRIPING.
4. INSTALL CROSSWALK PER DETAILS SHEET.
5. INSTALL STOP BAR AND MARKING PER DETAILS SHEET.
6. INSTALL STOP SIGN PER DETAILS SHEET.
7. INSTALL CURB RAMP PER DETAILS SHEET.
8. INSTALL DRIVE UP STRIPING AND SIGNAGE PER DETAILS SHEET.
9. INSTALL DRIVE UP BEACON PER DETAILS SHEET.
10. INSTALL STANCHION SIGN AND BASE PER DETAILS SHEET.
11. REMOVE AND SALVAGE EXISTING CART CORRALS. CONTRACTOR TO COORDINATE RELOCATION WITH TARGET.
12. PROTECT IN PLACE EXISTING LANDSCAPE ISLAND.
13. INSTALL WHEEL STOP PER DETAILS SHEET.

IMPROVEMENT PLAN FOR EXISTING AND PROPOSED DRIVE UP STALLS
1" = 10'

GRAPHIC SCALE IN FEET
0 5 10 20

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T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

IMPROVEMENT PLAN

C1.0

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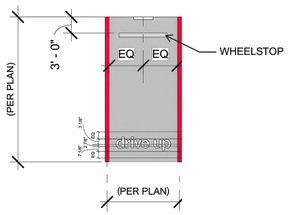
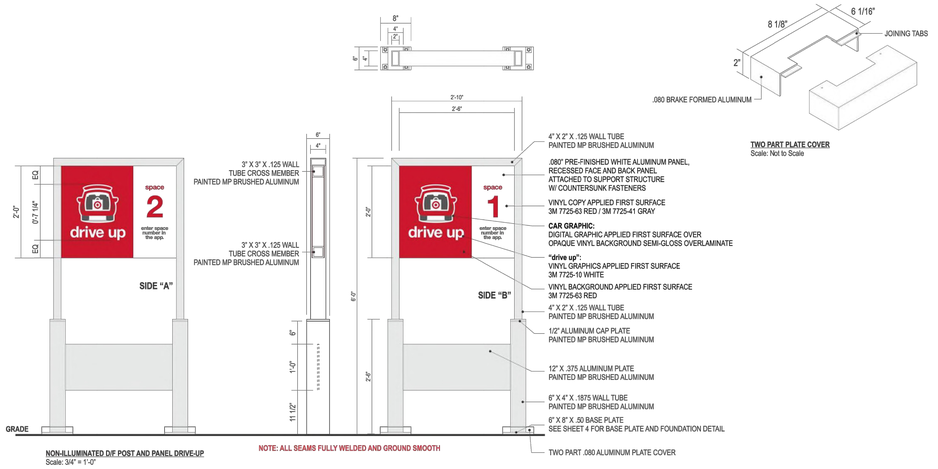


NOTES:

1. ALL RED STRIPING IS 6" WIDE
2. TARGET TO PROVIDE GC WITH "drive up" AND "NO PARKING" TEMPLATES
3. SEE PLAN VIEW DIMENSIONS FOR EXACT LAYOUT OF SITE
4. REFER TO C1.0 FOR EXACT DIMENSIONS

DRIVE UP STRIPING
N.T.S.



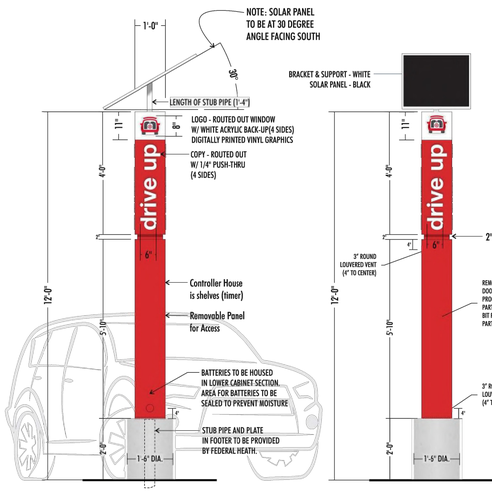
STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY THOMPSON ENGINEERING SERVICES, LLC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

CAR LOGO COLORS
Target Red PMS 186 | DARK RED PMS 188 | DARK GRAY PMS 425 | LIGHT GRAY PMS 421

STANCHION SIGN POST AND BASE - DOUBLE SIDE
N.T.S.

NOTE:
-FOR SOUTHERN SOLAR ZONES SIGNS TO HAVE 70 WATT SOLAR PANEL (DIMENSIONS 2'3" X 2'6").
-FOR NORTHERN SOLAR ZONES SIGNS TO HAVE 100 WATT SOLAR PANEL (DIMENSIONS 2'3" X 3'6").

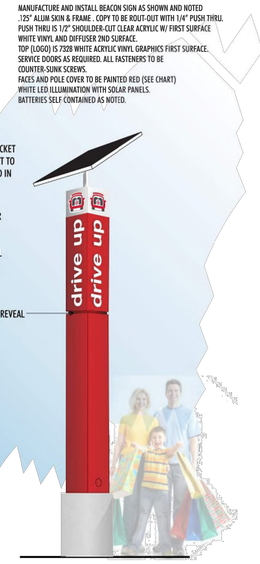
MATERIAL FINISH COLORS
Target Red 0 SCHEME#20 (FULL GLOSS) Cabinets | #020 (100% WHITE (FULL GLOSS)) Header/Supports | 7328 WHITE Acrylic Logo Face | CLEAR Acrylic W/ DIFFUSER Push-Thru Copy



DESCRIPTION OF WORK
MANUFACTURE AND INSTALL BEACON SIGN AS SHOWN AND NOTED
.125" ALUM.SKIN & FRAME . COPY TO BE ROUT-OUT WITH 1/4" PUSH THRU.
PUSH THRU IS 1/2" SHOULDER-CUT CLEAR ACRYLIC W/ FIRST SURFACE WHITE VINYL AND DIFFUSER 2ND SURFACE.
TOP (LOGO) IS 7328 WHITE ACRYLIC VINYL GRAPHICS FIRST SURFACE.
SERVICE DOORS AS REQUIRED. ALL FASTENERS TO BE COUNTER-SUNK SCREWS.
FACES AND POLE COVER TO BE PAINTED RED (SEE CHART)
WHITE LED ILLUMINATION WITH SOLAR PANELS.
BATTERIES SELF-CONTAINED AS NOTED.

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"

12'(FT) DRIVE-UP BEACON | FOUR(4) SIDED | SOLAR POWERED
scale 1/4" = 1'-0"



12'(FT) DRIVE-UP BEACON w/ SOLAR PANEL

STRUCTURAL DETAILS SHOWN HEREON WERE PROVIDED BY MBI, INC, AND CERTIFICATION OF THESE DRAWINGS MAKES NO IMPLICATION TO THEIR ACCURACY, NOR DOES IT INFER PROFESSIONAL SUPERVISION THEREOF.

SOLAR DRIVE UP BEACON
N.T.S.

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Date	No	Description

DATE: 05/06/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

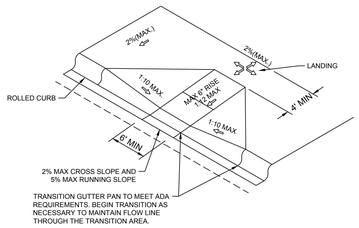
Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

DETAILS

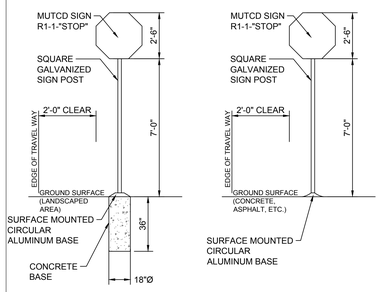
C2.0

NOTES:

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT- OF -WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
3. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
4. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 2500 PSI.
5. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
6. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
7. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
8. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
9. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
10. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

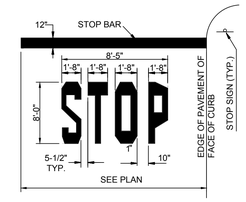


CURB RAMP DETAIL - DIAGONAL RAMP
N.T.S.



CASE 1: LANDSCAPED AREA CASE 2: HARDSCAPE AREA

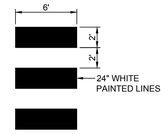
STOP SIGN DETAIL
N.T.S.



NOTES:

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. THESE WORDS AND BAR ARE TO BE PAINTED WHITE.

STOP BAR
N.T.S.



6' WIDE CROSSWALK DETAIL
N.T.S.

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TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	KM
Checked By	KR

DETAILS

C2.1

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GENERAL NOTES:

1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED THEMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.

2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.

3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.

4. THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.

5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING REVIEWED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.

6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER. ALL SHUTDOWNS SHALL REQUIRE WRITTEN APPROVAL FROM THE OWNER.

7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.

8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.

11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.

12. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK. THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.

14. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.

15. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR REVIEW PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER REVIEWED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

16. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.

17. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER REVIEWED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS

18. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

19. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.

21. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.

22. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.

23. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.

24. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."

25. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.

26. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.

27. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.

28. WIRING: WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES.

29. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.

30. GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.

31. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.

32. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT ALL EXISTING EQUIPMENT OR INFRASTRUCTURE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING EQUIPMENT OR INFRASTRUCTURE SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL LIGHTING NOTES:

1. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.

2. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.

4. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

5. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.

6. EACH LIGHT POLE SHALL HAVE 3/4" X 10' COPPER GROUND ROD WITH #6 CU TO GROUND LUG IN LIGHT POLE HANDHOLE. CABLE CONNECTION TO GROUND ROD SHALL BE AN EXOTHERMIC CONNECTION, MINIMUM 12" BELOW FINISHED GRADE.

7. FOR MATERIAL INSTALLED AND/OR WORK PERFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST, IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

9. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.

10. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.

11. TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER TARGET STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

12. CIRCUIT CONDUCTORS #2 AWG OR SMALLER TO BE COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION OR COPPER TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE "XHHW-2" STRANDED COPPER. MINIMUM CONDUCTOR SIZE TO BE #10 AWG WITH #10 GND, UNLESS OTHERWISE NOTED.

13. UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

14. HORIZONTAL DIRECTIONAL DRILLED (HDD) CONDUITS TO BE SCHEDULE 40 HDPE, MINIMUM DEPTH 30", MINIMUM SIZE 3/4", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

15. EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL (GRS), MINIMUM SIZE 1", UNLESS OTHERWISE NOTED ON THE PLANS. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN.

ABBREVIATIONS:

AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
DIA	DIAMETER
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
FVNR	FULL VOLTAGE NON-REVERSING STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
IEEE	INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
KW	KILOWATT
KVA	KILOVOLT AMPERES
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MH	MOUNTING HEIGHT
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PVC	POLYVINYL CHLORIDE
SCCR	SHORT CIRCUIT CURRENT RATING
SES	SERVICE ENTRANCE SECTION
SS	STAINLESS STEEL
TSP	TWISTED SHIELDED PAIR
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
WP	WEATHERPROOF
WWTP	WASTE WATER TREATMENT PLANT
XFMR	TRANSFORMER
3P	THREE PHASE

*GENERAL LIST OF ABBREVIATIONS; SOME MAY OR MAY NOT APPLY.

SUMMARY OF BUILDING CODES:

ARKANSAS NATIONAL ELECTRICAL CODE 2011
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL EXISTING BUILDING CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE

LEGEND:

PROPOSED UNDERGROUND ELECTRICAL CONDUIT

UGE OR — EXISTING UNDERGROUND ELECTRICAL CONDUIT

OR — PROPOSED SITE LIGHTING LED POLE FIXTURE
SEE PLANS FOR ARRANGEMENT AND QUANTITY

OR — EXISTING SITE LIGHTING LED POLE FIXTURE
SEE PLANS FOR ARRANGEMENT AND QUANTITY

X — CONSTRUCTION NOTE

SOLAR DRIVE UP BEACON

TARGET®
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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MEMPHIS, TN 38138
901-374-9109
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Date	No	Description

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

SITE LIGHTING
GENERAL NOTES

E1.0

LOAD CALCULATION	
LOAD DESCRIPTION	WATTS
PROPOSED LOADS	
PROPOSED LED FIXTURES (ALL)	1,496
+25% PER NEC	374
TOTAL PROPOSED LOAD	1,870

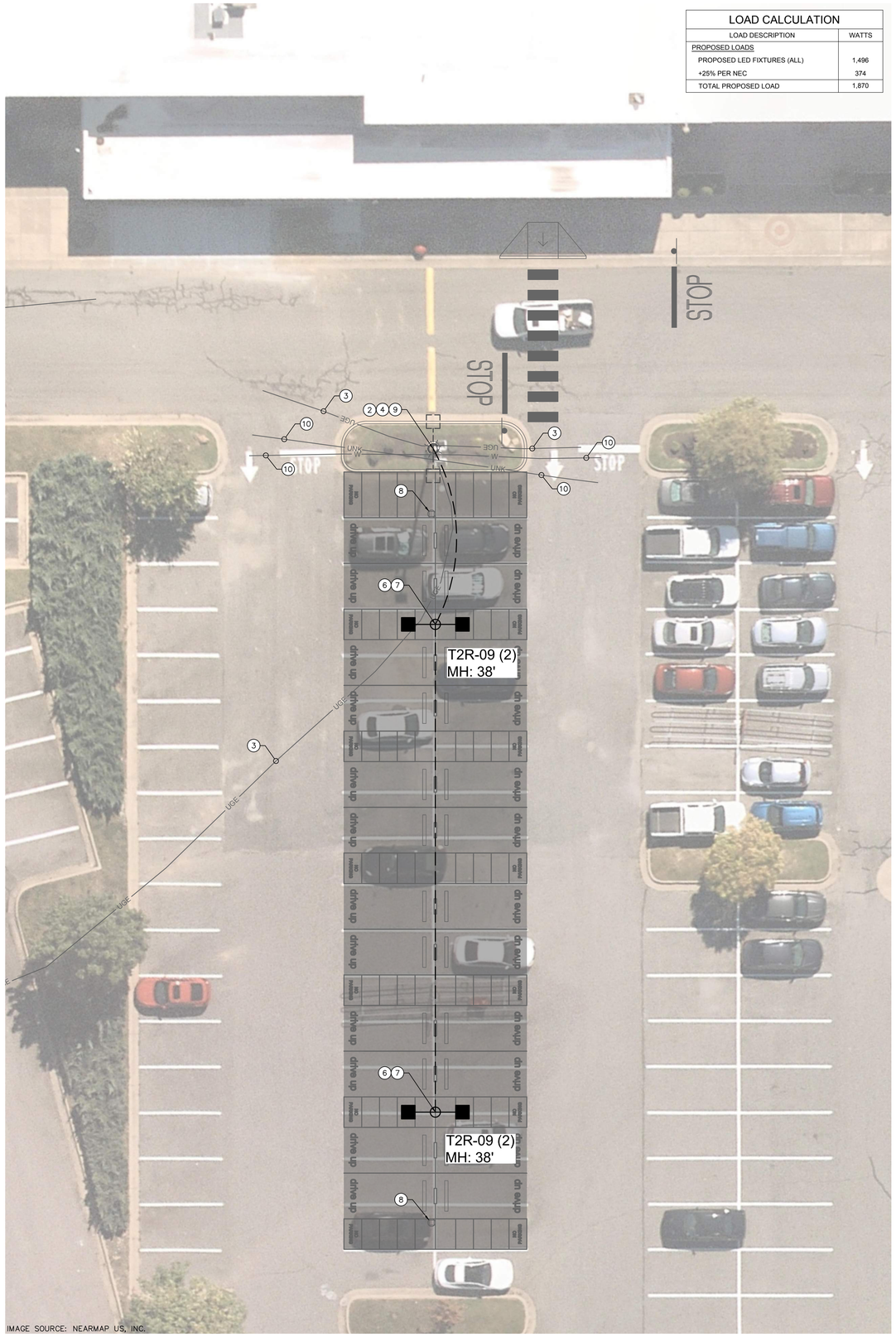


IMAGE SOURCE: NEARMAP US, INC.

PROPOSED DRIVE UP STALLS
1" = 10'

811 Know what's **below.** **Call** before you dig.

KEYED LIGHTING CONSTRUCTION NOTES

1. COORDINATE SITE ELECTRICAL WORK WITH OWNER, SITE MANAGER AND ALL APPROPRIATE TRADES. EXISTING CONDUITS TO BE MANDRELLED AND REUSED; REPLACE IF COLLAPSED OR BLOCKED. INTERCEPT AND EXTEND CONDUITS AND CONDUCTORS AS REQUIRED. RE-USE EXISTING SAME SIZE OR LARGER WIRE AFTER TESTING EXISTING WIRE AND INSULATION PER NEC STANDARDS.
2. EXISTING SITE LIGHTING POLE, FIXTURES, AND FOUNDATION TO REMAIN. PROTECT IN PLACE.
3. EXISTING ELECTRICAL SITE LIGHTING CONDUIT. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.
4. FURNISH AND INSTALL 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PENETRATE EXISTING POLE SIDEWALL AND SEAL ALL PENETRATIONS UPON COMPLETION. SEE DETAIL E2 FOR ADDITIONAL INFORMATION.
5. PROVIDE (1) 3/4" SCHEDULE 40 HDPE CONDUIT VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD. PROVIDE (2) #10 AWG CU XHHW CONDUCTORS AND (1) #10 AWG CU GROUND FOR SITE LIGHTING AND CONNECT FOR A COMPLETE SYSTEM. ENSURE THAT ALL EXISTING CIRCUITS AND CONNECTIONS ARE MAINTAINED.
6. FURNISH AND INSTALL NEW FOUNDATION FOR PROPOSED SITE LIGHTING POLE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR NEW SITE LIGHTING POLE FOUNDATIONS. FOUNDATIONS SHALL PROVIDE MOUNTING HEIGHT(S) FOR FIXTURES AS DESIGNATED IN THE PLANS. FOUNDATIONS SHALL PROVIDE BOLT PATTERNS TO MATCH THE FLANGE BOLT PATTERN. SEE DETAIL E1.
7. FURNISH AND INSTALL (2) NEW LED SITE LIGHTING FIXTURES COOPER GLEON LUMINAIRE LIGHT MODEL # GLEON-SA6B-740-8-T2R-DP-DIM10-PERTN-MS/DC-L40W AT 38' MOUNTING HEIGHT WITH NEW MAST ARMS ON NEW POLE AND FOUNDATION. PROVIDE (2) #12 AWG CU CONDUCTORS AND (1) #12 AWG CU GROUND FROM POLE HAND HOLE TO EACH FIXTURE AND CONNECT FOR COMPLETE SYSTEM. COORDINATE WITH OWNER TO VERIFY ALL PREVIOUS CIRCUITS AND CONNECTIONS HAVE BEEN REESTABLISHED.
8. SOLAR BEACON. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL IDENTIFY EXISTING LIGHTING CIRCUIT TO UTILIZE FOR CONNECTING NEW SITE LIGHTING FIXTURES. IDENTIFY THE EXISTING LIGHTING CIRCUIT'S SOURCE PANEL, CIRCUIT NUMBER AND CIRCUIT BREAKER SIZE. VERIFY EXISTING CAPACITY BY PERFORMING 30-DAY LOAD STUDY OR NEC 220.87 APPROVED METHOD. IF THE TOTAL NEW LOAD (EXISTING PLUS PROPOSED) EXCEEDS THE ALLOWABLE LOADS OF THE CIRCUIT BREAKER OR PANEL, DO NOT CONNECT THE NEW LOADS WITHOUT ADEQUATE CAPACITY. PROVIDE UPDATED PANEL SCHEDULES AS NEEDED.
10. EXISTING UNDERGROUND UTILITIES. FIELD VERIFY LOCATIONS AND PROTECT IN PLACE.

GENERAL CONSTRUCTION NOTES

A. ALL EXISTING ELECTRICAL INFORMATION INCLUDING LUMINAIRE TYPES, PANEL NAMES, CIRCUIT NUMBERS, CONDUIT/CONDUCTOR SIZES AND ROUTING, ETC. ARE UNKNOWN AND BASED ON EXISTING DOCUMENTS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY INFORMATION DURING CONSTRUCTION AND PROVIDE UPDATED AS-BUILTS UPON COMPLETION.

B. ALL CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE SCHEMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE BEST ROUTING PATH BASED ON FIELD CONDITIONS WITH OWNER APPROVAL.

C. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER(S) FOR DETAILED CONNECTIONS REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.

D. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

E. ALL NEW EQUIPMENT SHALL BE CONNECTED TO AN APPROPRIATELY SIZED CIRCUIT IN AN EXISTING PANEL AND/OR LIGHTING CONTROLLER. CONTRACTOR SHALL VERIFY CIRCUITING PRIOR TO ROUGH-IN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

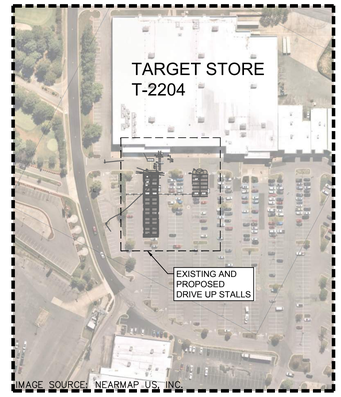
F. CONTRACTOR SHALL VERIFY EXISTING CIRCUITS ARE ADEQUATELY SIZED FOR ANY EQUIPMENT THAT IS TO BE REPLACED PRIOR TO CONNECTING NEW EQUIPMENT.

G. ALL CIRCUITING THAT IS INDICATED SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS CONNECTED TO ADEQUATELY SIZED CIRCUIT BREAKERS AND CONDUCTORS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

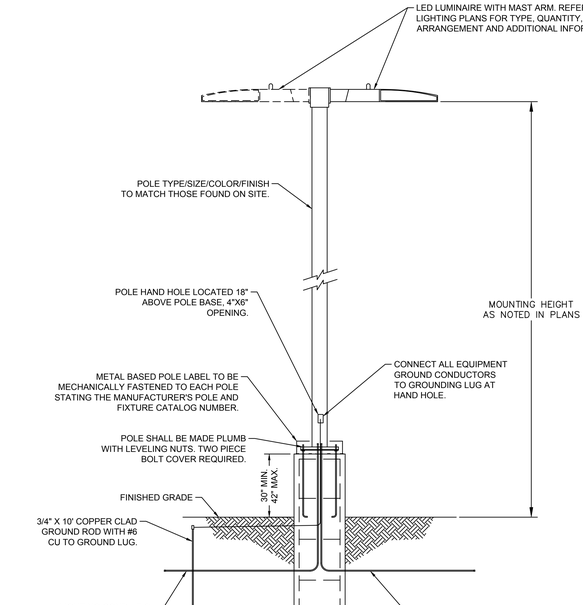
H. CONTRACTOR SHALL ENSURE EXISTING PANELS/LIGHTING CONTROLLERS HAVE ADEQUATE CAPACITY FOR NEW ELECTRICAL LOADS PRIOR TO ANY NEW OR REPLACED EQUIPMENT BEING CONNECTED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER PRIOR TO ANY CONNECTIONS.

I. CONTRACTOR SHALL RESTORE AND REPAIR ALL DISTURBED LANDSCAPE, HARDSCAPE, ASPHALT, CURB AREAS ETC. TO ORIGINAL STATE OR BETTER.

J. EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNER AND FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY EXISTING SYSTEMS (I.E. IRRIGATION, WATER, GAS, SEWER, ETC.) IMPACTED, SHALL BE REPAIRED/RESTORED TO ORIGINAL STATE OR BETTER.

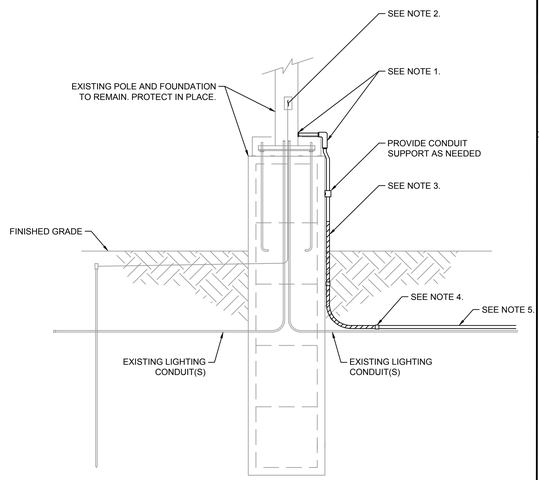


KEY MAP
1" = 150'



NOTES:
1. THIS DETAIL IS FOR REFERENCE ONLY. CONTRACTOR SHALL INSPECT EXISTING SITE POLES AND FOOTERS AND PROVIDE SIMILAR TYPES/SIZES TO MATCH.
2. POLE FOUNDATION SHALL BE PROVIDED IN DEFERRED SUBMITTAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO BE INCLUDED IN FINAL AS-BUILTS. SHOP DRAWINGS SHALL BE STAMPED/SIGNED/SEALED BY STATE REGISTERED ENGINEER.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
4. POLES, FIXTURES, ARMS AND FIXTURE COMPONENTS TO BE FACTORY PAINTED TO MATCH THOSE FOUND ON SITE.

E1 / E2.0 LIGHT POLE
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PENETRATE EXISTING POLE AND CONNECT 3/4" GRS CONDUIT FOR NEW CONDUCTOR PATHS TO PROPOSED POLE LOCATION(S). PROVIDE ALL NECESSARY CONDUIT HARDWARE/FITTINGS FOR A WATERPROOF CONNECTION TO POLE.
2. FURNISH AND INSTALL (2) #10 AWG CU CONDUCTORS AND (1) #10 AWG CU GROUND AND SPLICE WITH EXISTING LIGHTING CONDUCTORS AND CONNECT TO EXISTING GROUNDING IN POLE. COORDINATE WITH OWNER FOR CIRCUIT IDENTIFICATION AND DE-ENERGIZING PRIOR TO INSTALLATION. MAINTAIN ALL EXISTING CIRCUIT CONNECTIONS UPON COMPLETION AND VERIFY FUNCTIONALITY WITH OWNER.
3. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE.
4. GRS CONDUIT TRANSITION TO HDPE CONDUIT BELOW GRADE.
5. FURNISH AND INSTALL (1) 3/4" SCHEDULE 40 HDPE CONDUIT FOR SITE LIGHTING. CONDUIT SHALL BE INSTALLED IN LOCATIONS USING METHODS AS INDICATED IN THE PROJECT PLANS.

E2 / E2.0 EXISTING POLE CONDUIT TIE IN
NOT TO SCALE

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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MEMPHIS, TN 38138
901-374-9109
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Date	No	Description

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

LIGHTING PLAN

E2.0

Plotted By:Froggett, Christopher Sheet Set:Kha Layout:E2.0 September 28, 2022 05:30:37pm N:\A_T-Stores\2204 Bryant ARK\ADD\T2204 DriveUp Expansion (Site Lighting_Electrical).dwg
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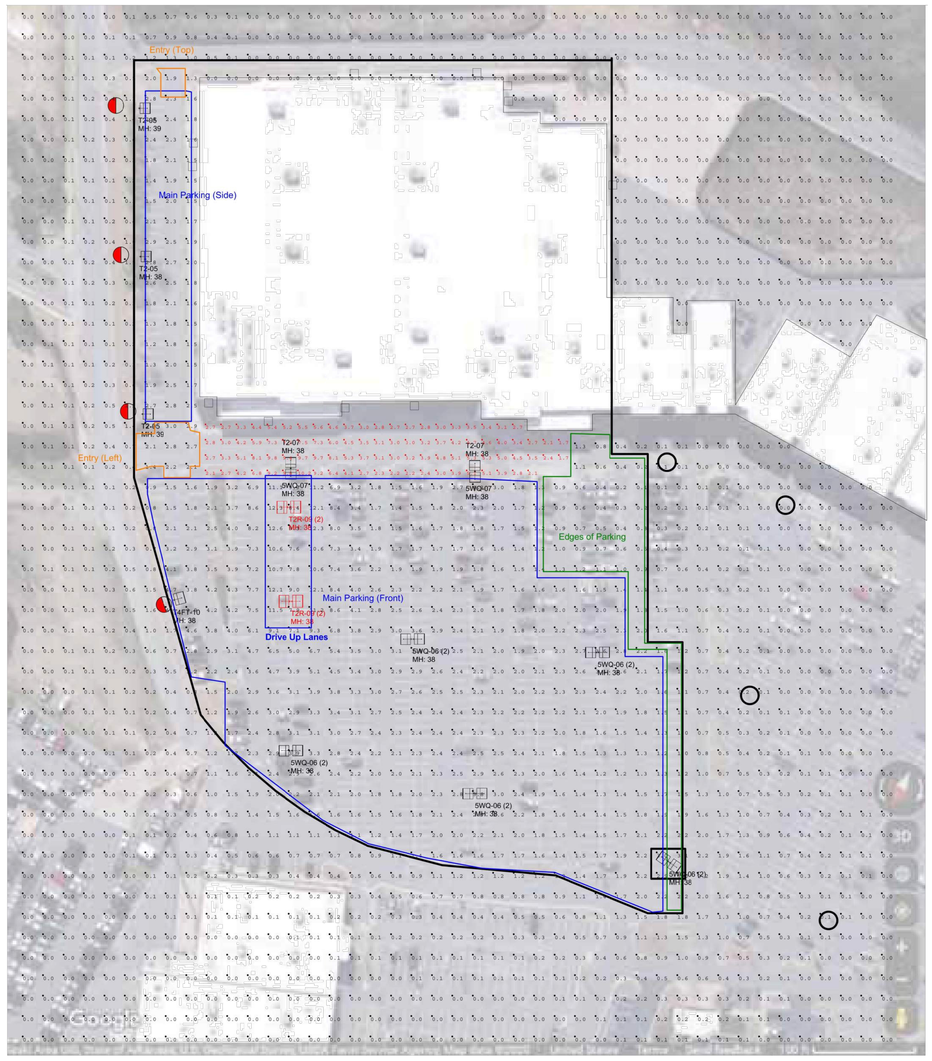

Luminaire Schedule

Symbol	Qty	Label	Lum. Watts	Lum. Lumens	LLF	BUG Rating	IES Class	Filename	Description
	5	5WQ-06 (2)	249	36001	0.900	B5-U0-G4	Type VS	GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA6B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	2	5WQ-07	295	42575	0.900	B5-U0-G5	Type VS	GLEON-SA7B-740-U-5WQ.ies	TAR-GLEON-SA7B-740-8-5WQ-DP-DIM10-PER7N-MS/DC-L40W
	3	T2-05	210	28029	0.900	B3-U0-G4	Type III	GLEON-SA5B-740-U-T2.ies	TAR-GLEON-SA5B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2-07	295	39667	0.900	B3-U0-G5	Type III	GLEON-SA7B-740-U-T2.ies	TAR-GLEON-SA7B-740-8-T2-DP-DIM10-PER7N-MS/DC-L40W
	2	T2R-09 (2)	374	53224	0.900	B3-U0-G5	Type II	GLEON-SA9B-740-U-T2R.ies	TAR-GLEON-SA9B-740-8-T2R-DP-DIM10-PER7N-MS/DC-L40W
	1	T4FT-10	419	56904	0.900	B4-U0-G5	Type IV	GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W	TAR-GLEON-SA0B-740-8-T4FT-DP-DIM10-PER7N-MS/DC-L40W

Calculation Summary

Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
Store Entrance Drive	Illuminance	4.47	10.2	1.7	2.63	6.00
Drive Up Lanes	Illuminance	10.27	12.6	7.1	1.45	1.77
Edges of Parking	Illuminance	1.06	3.1	0.1	10.60	31.00
Entry (Left)	Illuminance	2.40	3.0	1.4	1.71	2.14
Entry (Top)	Illuminance	2.10	2.3	1.9	1.11	1.21
Main Parking (Front)	Illuminance	3.06	12.6	1.1	2.78	11.45
Main Parking (Side)	Illuminance	2.01	2.9	1.2	1.68	2.42

NOTES:

RED CALC POINTS = BUILDING ENTRANCE DRIVE
BLUE = MAIN PARKING AREAS
GREEN = EDGES OF PARKING
ORANGE = ENTRY DRIVES

□ = WALL MOUNT LOCATIONS

○ = POLE LOCATIONS BY OTHERS

□ = POLE LOCATIONS DO NOT TURN ON WITH OVERRIDE

◒ = OCC SENSOR MASKING (RED IS AREA TO MASK)

T2204 - DESIGN LEVEL 1
BRYANT, AR
Pole Color & Shape Per Survey - BLACK / SQUARE
Fixture Voltage Per Survey - 480V

GRAPHIC SCALE IN FEET
0 30 60 120

NOTES

1. THE EXISTING ON-SITE LIGHTING WAS MODELED BASED OFF THE LATEST AERIAL IMAGERY FROM GOOGLE MAPS. CONTRACTOR TO VERIFY FIELD CONDITIONS AND BRING TO THE ATTENTION OF THE DESIGNER ANY DISCREPANCIES FROM THE PLANS.
2. THIS PHOTOMETRIC PLAN PREPARED BY OTHERS IS TO BE UTILIZED FOR REFERENCE PURPOSES ONLY.
3. EXISTING PARKING LOT LIGHTING, OUTSIDE OF THE LIMITS OF LIGHTING ANALYSIS, WAS NOT CALCULATED FOR THIS PROJECT.
4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT-CANDLES.
5. THIS PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. CONTRACTOR MUST BRING TO THE DESIGNERS'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH THE INFORMATION PROVIDED IN THIS PLAN.
6. NO BUILDING LUMINAIRES WERE INCLUDED IN THE CALCULATIONS FOR THE DRIVE UP AISLE.

TARGET
1000 NICOLLET MALL
MINNEAPOLIS, MN 55403

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Date	No	Description

FOR REFERENCE ONLY

DATE: 09/28/2022

TARGET
T-2204 BRYANT
7377 ALCOA RD
BRYANT, AR 72022

Project Number	T-2204
Config:	
Drawn By	CF
Checked By	PMS

PHOTOMETRIC PLAN

E3.0

Plotted By: Frogatt, Christopher - Sheet Set: Xha Layout: E3.0 September 28, 2022 05:30:37pm Y:_T-Stores\T-2204 Bryant AR\CAD\T2204 Drivetu Expansion (Site Lighting-Electrical).dwg
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City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 10/12/2022

Sign Co. or Sign Owner

Name Target Corporation
Address PO Box 9456
City, State, Zip Minneapolis, MN 55440
Phone _____
Email Address matthew.flansburg@target.com

Property Owner

Name Target Corporation
Address PO Box 9456
City, State, Zip Minneapolis, MN 55440
Phone _____
Email Address matthew.flansburg@target.com

GENERAL INFORMATION

Name of Business Target
Address/Location of sign 7377 Alcoa Road, Bryant, AR 72022
Zoning Classification C-2

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted**. Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

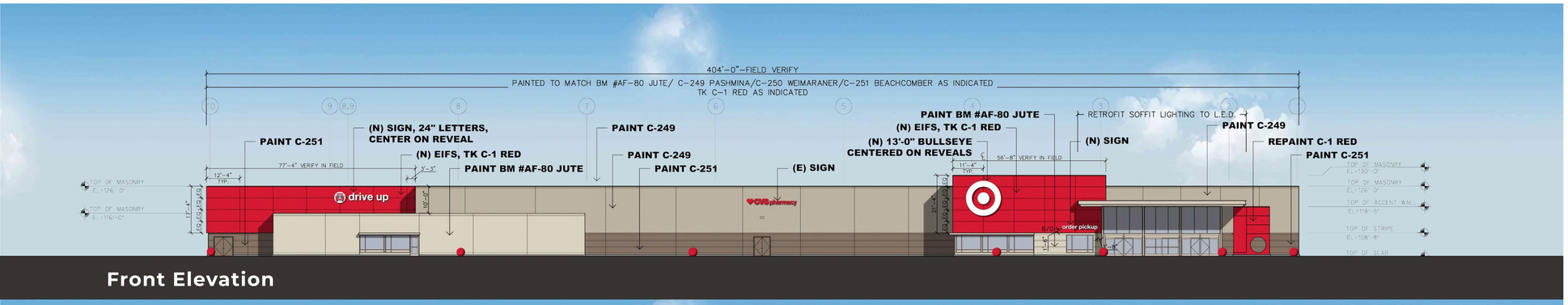
I Christian Jones on behalf of Target Corp., do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

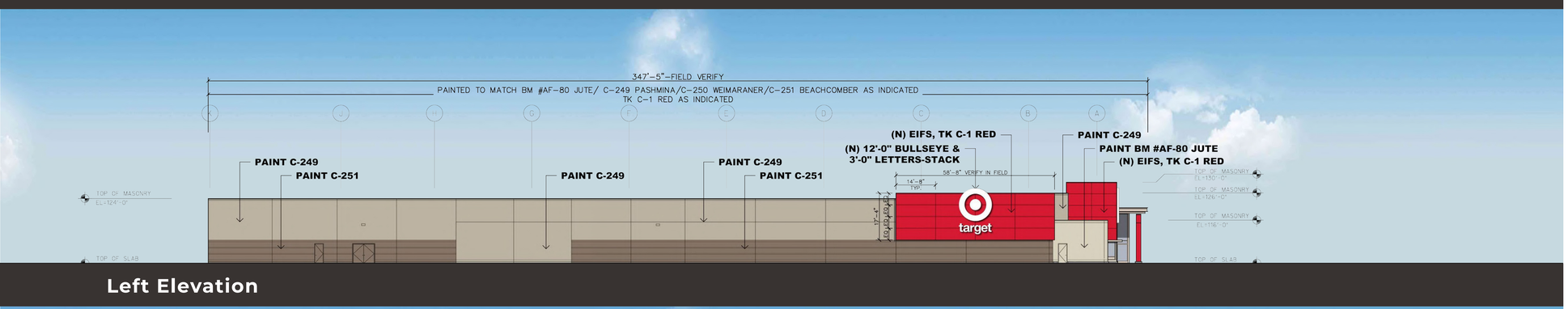
Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

	SIGN	**Type** (Façade, Pole, Monument, other)	**Dimensions** (Height, Length, Width)	**Sqft** (Measured in whole as rectangle)	**Height of Sign** (Measured from lot surface)		Column for Admin Certifying Approval
					Top of Sign	Bottom of Sign	
Drive Up	A	Facade	50.5" x 18'-4" x 5"	77.1	24.0'	19.75'	
Bullseye (front)	B	Facade	13.0' x 13.0' x 6"	132.73	27.5'	14.5'	
Order Pickup	C	Facade	1'-2" x 12'-10" x 5"	24.59	11'-4"	10'-2"	
Bullseye w/ Target (side)	D	Facade	16.3' x 12' x 6"	195.7	27'-11"	11'-9"	
CVS	E	Facade (existing)	2' x 18'-3" x 2'-6"	36.62	20'-10"	18'-10"	
	G						

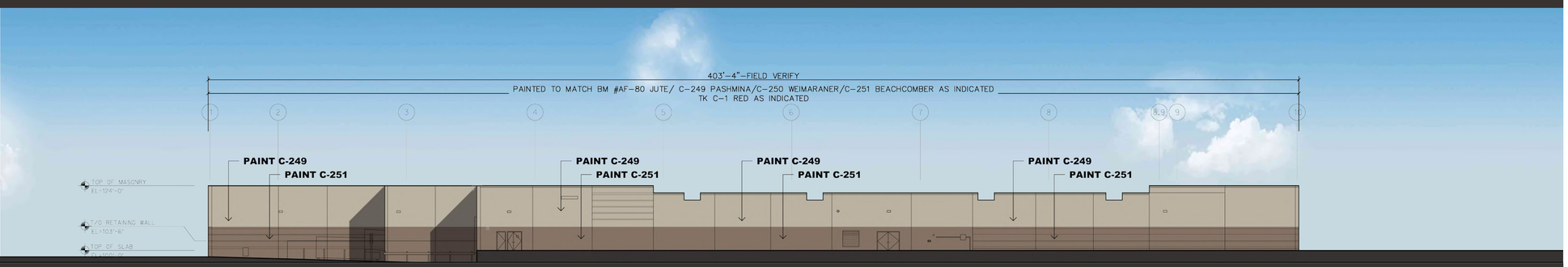

T2204 Bryant
Legend
DU Door (Anticipated)
Existing DU
Proposed DU
DU Door (Anticipated)
Google Earth
300 ft
N



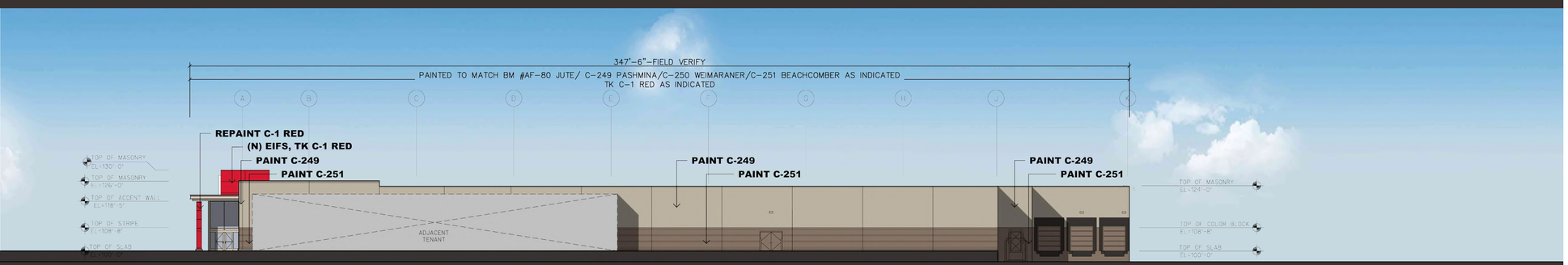
Front Elevation



Left Elevation



Rear Elevation



Right Elevation

COLOR KEY:

- BM #AF-80 JUTE
- C-249 (BM #AF-100) PASHMINA
- C-251 (BM #0993) BEACHOMBER
- C-1 (TK #8010-1) RED
- (E) C-20 (TK #11110-37) CHAMPAGNE
- (E) SOFFIT PAINT C-1 (TK #8010-1) RED

NOTE:

* PAINT HM DOOR AND FRAME TO MATCH ADJ. WALL, TYP.

*STORE EXTERIOR WALLS ARE PRIMARILY CMU

*EXISTING SPHERICAL BOLLARDS REPAINT C-1 RED U.N.O.

*BEN-2 : MODERN, COLOR.....SILVER

GENERAL NOTE

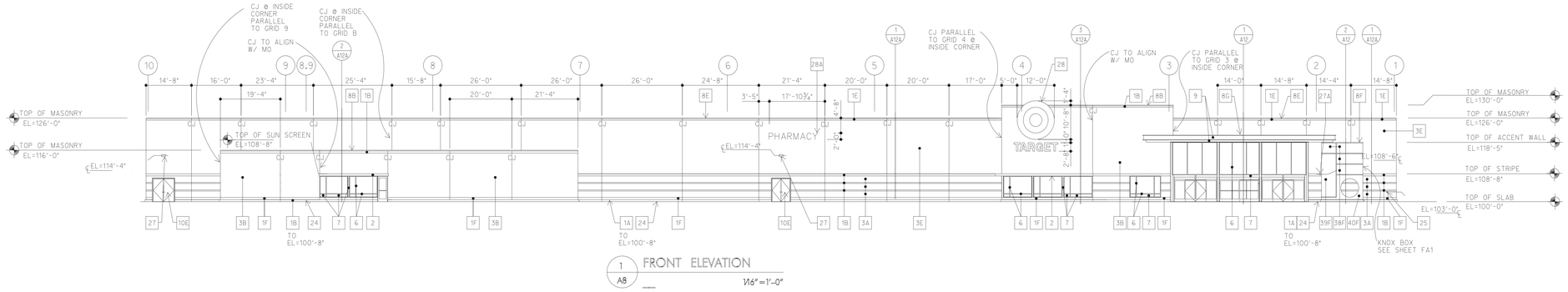
* AREA TO BE PAINTED STARTS AT TOP OF CURB OR REVEAL AND CONTINUES TO TOP OF PARAPET/FLASHING OR REVEAL. PAINT COLOR AND FINISH TRANSITIONS OCCUR AT EXISTING VERTICAL CONTROL JOINTS OR AT INSIDE BUILDING CORNERS, U.N.O.
* ALL EXISTING WALL-MOUNTED ITEMS TO BE PAINTED TO MATCH ADJ. WALL SURFACE, U.N.O.
* PATCH ALL VISIBLE HOLES FROM MOUNTING OF REMOVED SIGNS WITH LIKE MATERIALS. RESTORE WALL SURFACE TO ' LIKE NEW' APPEARANCE.

target

T-2204 Bryant, AR: Remodel - Exterior Design

RSP Architects Ltd.

March 28, 2022



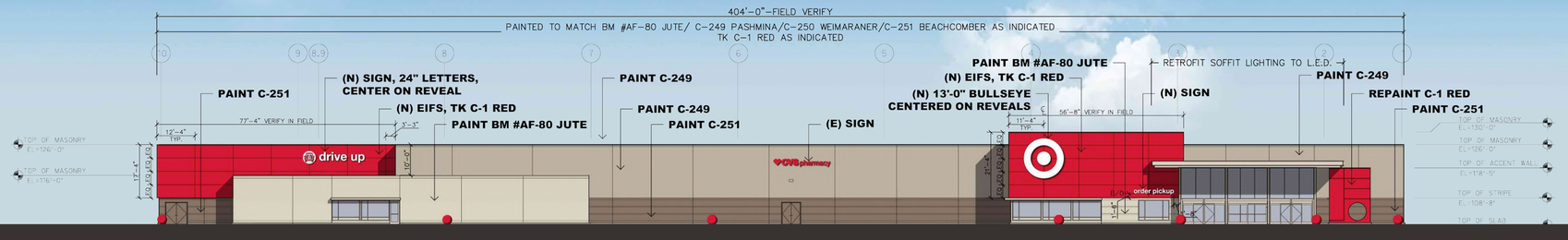
1 A8 FRONT ELEVATION

1/16" = 1'-0"





Existing Condition



Front Elevation

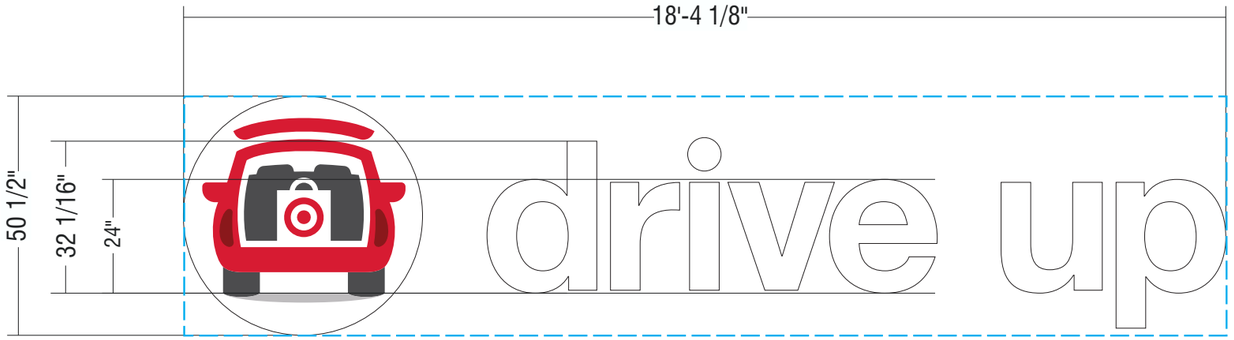
target

T-2204 Bryant, AR: Remodel - Exterior Design

RSP Architects Ltd.

March 28, 2022

FEDERAL HEATH
VISUAL COMMUNICATIONS
www.FederalHeath.com

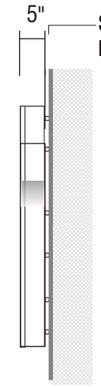


DU24W-LOGO ACRYLIC FACED INT. ILLUM. "LOGO & LETTER SET"

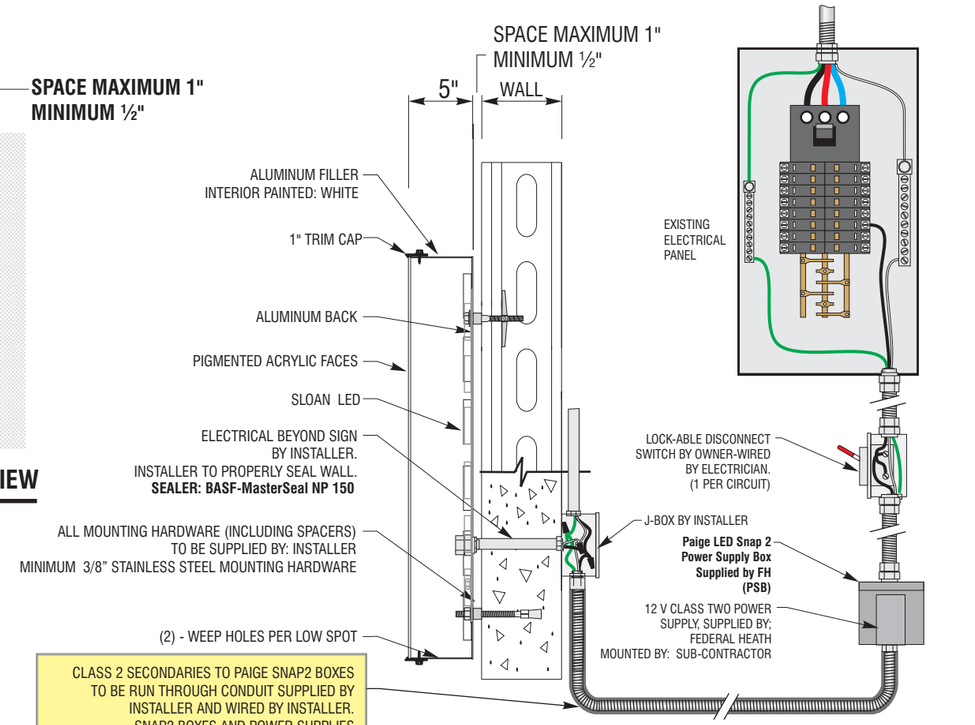
Scale: 3/8"=1'-0"

77.1 SQ.FT.

SCOPE OF WORK:
MANUFACTURE AND INSTALL CHANNEL LOGO & LETTERS



END VIEW



LOGO/LETTER WALL DETAIL NOT TO SCALE
(Generic)



GENERIC (PARTIAL) ELEVATION NOTE: PLACEMENT CAN VARY scale 3/32"=1'-0"

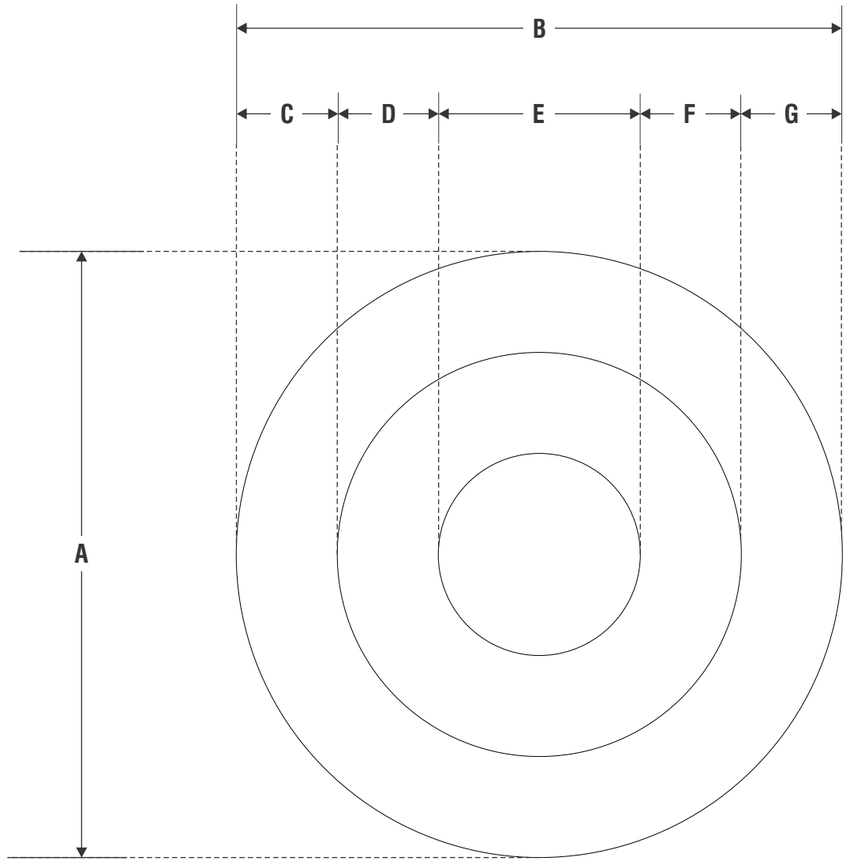
MATERIAL FINISH COLORS (Letters & Logo)

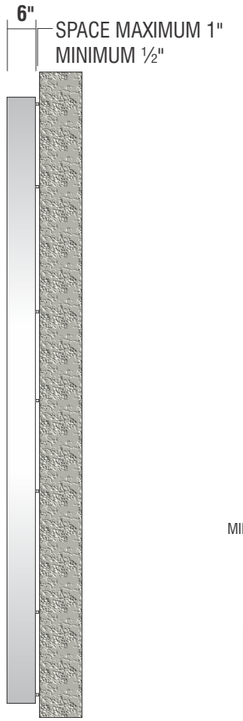
Returns	Faces	Trim-Cap	Illumination
GLOSS WHITE	7328 LD WHITE (ATUGLAS or Equiv.) Acrylic	WHITE	Sloan White LED

CAR LOGO COLORS

Target Red PMS 186	DARK RED PMS 188	DARK GRAY PMS 425	LIGHT GRAY PMS 421

SIGN A





END VIEW

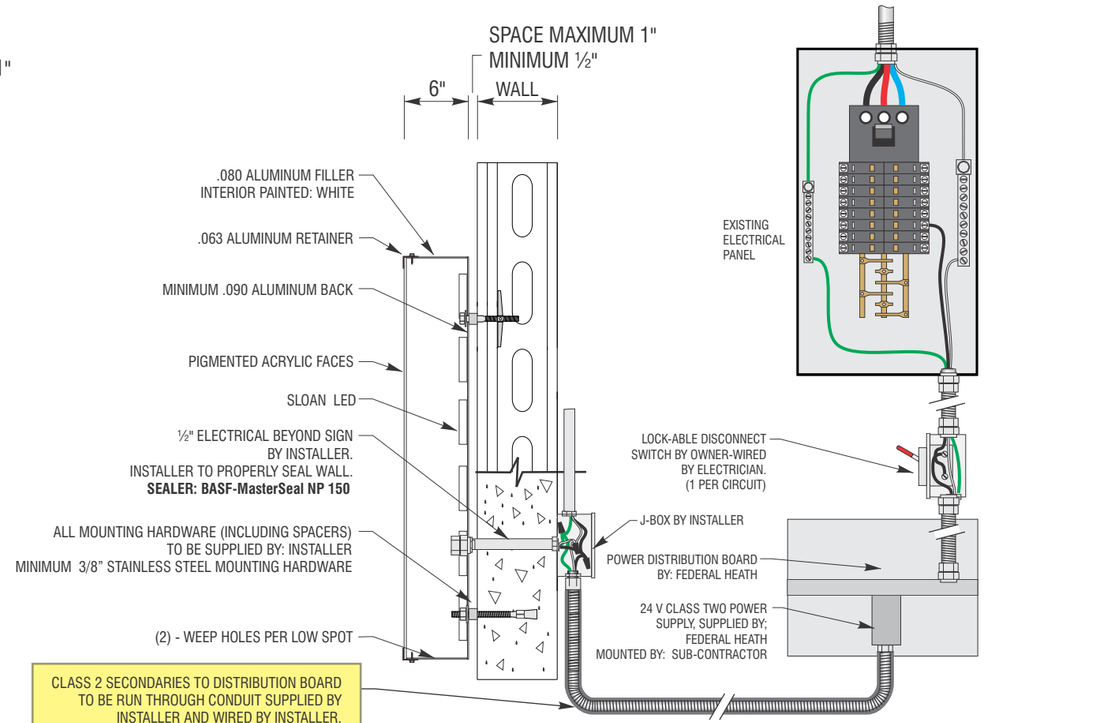
ACRYLIC FACED INTERNALLY ILLUMINATED "BULLSEYE"

MANUFACTURE AND INSTALL CHANNEL LOGO AS SHOWN AND NOTED

SIGN TYPE	A	B	C	D	E	F	G	RETAINER	SQ.FT.	QTY
156 BULLSEYE-W	13'-0"	13'-0"	2'-2"	2'-2"	4'-4"	2'-2"	2'-2"	1 ½"	132.73	1

MATERIAL FINISH COLORS

Returns	Faces	Retainer/Trim-Cap	Illumination
WHITE	7328 WHITE ATUGLAS Acrylic	WHITE	Sloan White LED



LOGO/WALL DETAIL NOT TO SCALE
(Generic)

Total: 0.0 Amps

(1) 120V 20A Circuit Required.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

CUSTOMER TO PROVIDE DEDICATED BRANCH CIRCUITS FOR SIGNS ONLY PER NEC CODE 600.5

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS. PROPERLY SIZED GROUND WIRE THAT CAN BE TRACED BACK TO BREAKER PANEL IS REQUIRED.

INSTALLER REQUIREMENTS

ALL MOUNTING HARDWARE, SECONDARY WIRING AND CONDUITS ARE TO BE PROVIDED BY THE INSTALLATION CONTRACTOR. ALL PENETRATIONS IN THE WALL ARE TO BE SEALED WITH SILICONE AND TO BE WATERTIGHT.

ANY DEVIATION FROM FEDERAL HEATH REQUIREMENTS MAY RESULT IN DAMAGE TO OR IMPROPER OPERATION OF SIGNAGE, CAUSING DELAYS AND ADDITIONAL COSTS.

NEW & REMODEL CONSTRUCTION

ADEQUATE BEHIND THE WALL BACKING AND ACCESS IS REQUIRED FOR THE INSTALLATION OF NEW SIGNAGE. CUSTOMER TO FORWARD APPROVED SIGNAGE DRAWINGS TO THE ON SITE CONTACT TO INSURE THAT THE REQUIRED PROVISIONS ARE MADE DURING CONSTRUCTION, PRIOR TO THE SIGN INSTALLATION.

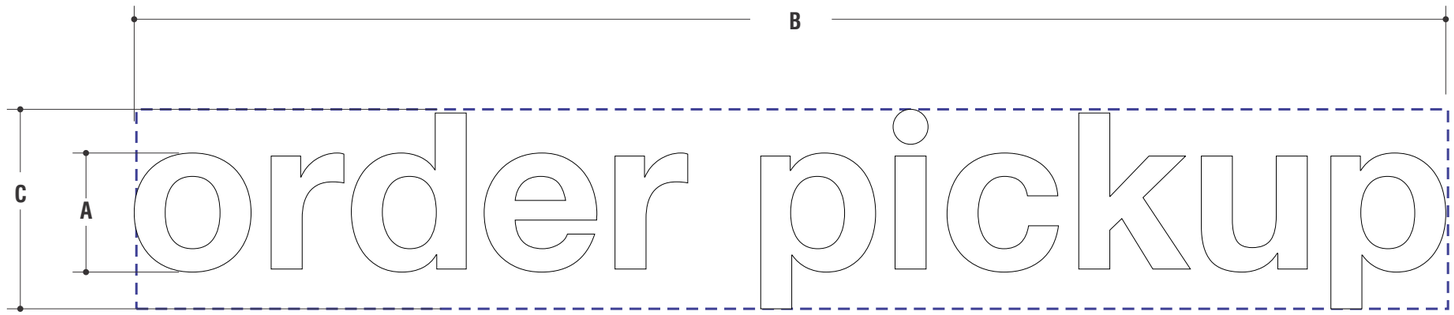
INSTALLER REQUIREMENTS FOR EIFS WALLS

IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO PROVIDE ANY WALL SPACERS REQUIRED TO KEEP EIFS WALL MATERIAL FROM BEING COMPACTED DURING INSTALLATION OF ANY MOUNTING BOLTS REQUIRED FOR SIGNAGE.

GENERAL NOTE

- INSTALLER SHALL VERIFY WALL CONDITION IN THE FIELD.
- TYPE, SIZE AND NUMBER OF FASTENERS TO BE DETERMINED.
- ALL BOLT HOLES TO BE DRILLED OR PUNCHED.
- ISOLATE ALL ALUMINUM FROM STEEL.

SIGN B



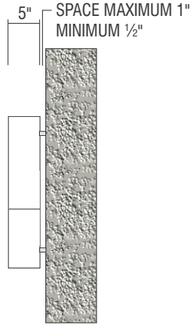
ACRYLIC FACED INTERNALLY ILLUMINATED (Remote) CHANNEL LETTERS

MANUFACTURE AND INSTALL CHANNEL LETTERS AS SHOWN AND NOTED

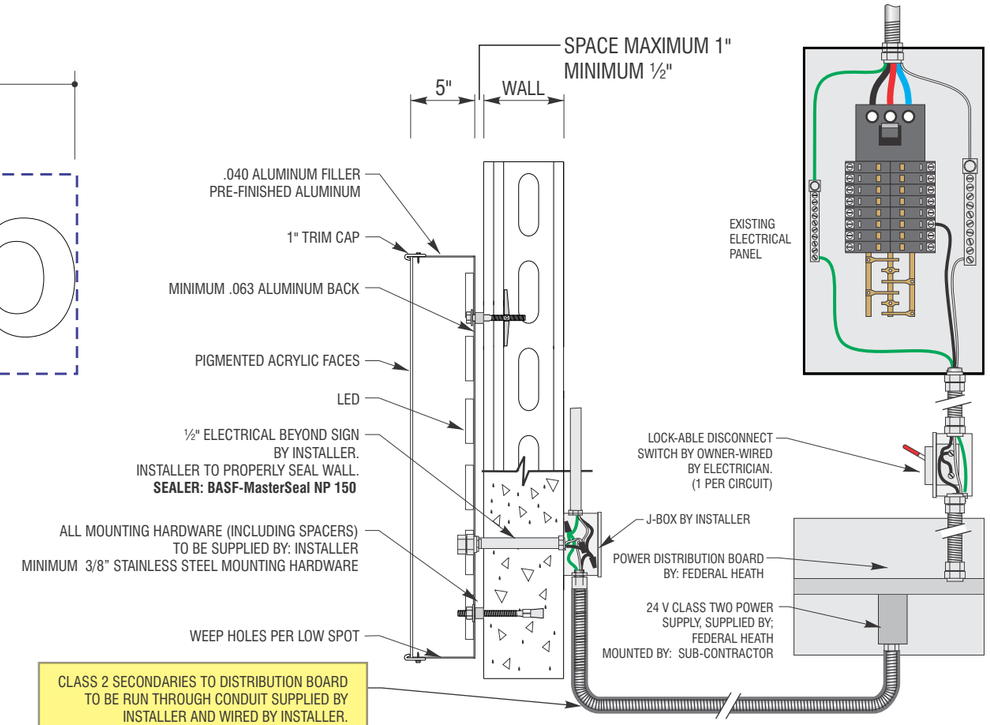
SIGN TYPE	A	B	C	SQ.FT.	QTY
OPU14-REMOTE-W	1'-2"	12'-10"	1'-11"	24.59	1

MATERIAL FINISH COLORS

Returns	Faces	Retainer/Trim-Cap	Illumination
GLOSS WHITE	7328 LD WHITE (ATUGLAS or Equiv.) Acrylic	WHITE	Sloan White LED



END VIEW



LOGO/LETTER WALL DETAIL NOT TO SCALE
(Generic)

Total: 0.0 Amps

(1) 120V 20A Circuit Required.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

CUSTOMER TO PROVIDE DEDICATED BRANCH CIRCUITS FOR SIGNS ONLY PER NEC CODE 600.5

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS. PROPERLY SIZED GROUND WIRE THAT CAN BE TRACED BACK TO BREAKER PANEL IS REQUIRED.

INSTALLER REQUIREMENTS

ALL MOUNTING HARDWARE, SECONDARY WIRING AND CONDUITS ARE TO BE PROVIDED BY THE INSTALLATION CONTRACTOR. ALL PENETRATIONS IN THE WALL ARE TO BE SEALED WITH SILICONE AND TO BE WATERTIGHT.

ANY DEVIATION FROM FEDERAL HEATH REQUIREMENTS MAY RESULT IN DAMAGE TO OR IMPROPER OPERATION OF SIGNAGE, CAUSING DELAYS AND ADDITIONAL COSTS.

NEW & REMODEL CONSTRUCTION

ADEQUATE BEHIND THE WALL BACKING AND ACCESS IS REQUIRED FOR THE INSTALLATION OF NEW SIGNAGE. CUSTOMER TO FORWARD APPROVED SIGNAGE DRAWINGS TO THE ON SITE CONTACT TO INSURE THAT THE REQUIRED PROVISIONS ARE MADE DURING CONSTRUCTION, PRIOR TO THE SIGN INSTALLATION.

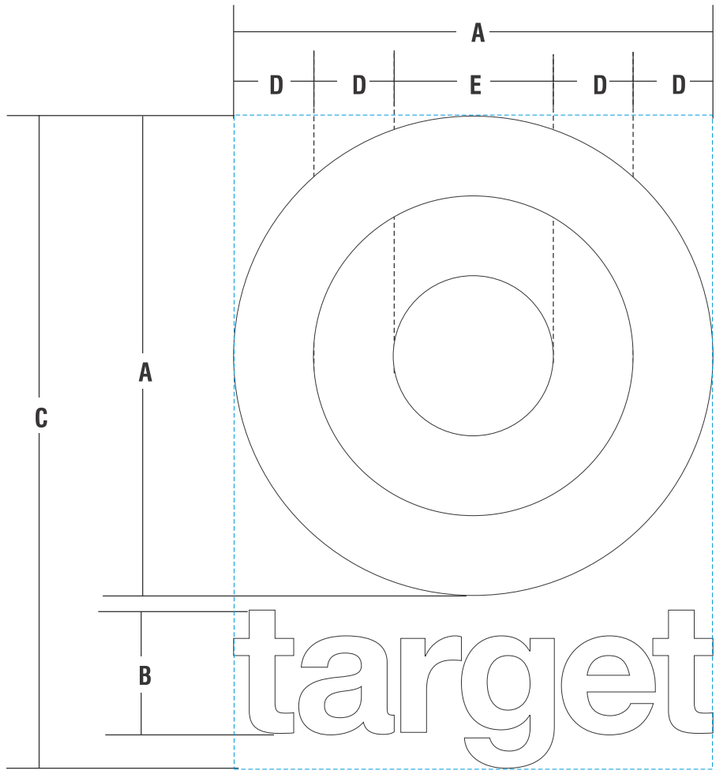
INSTALLER REQUIREMENTS FOR EIFS WALLS

IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO PROVIDE ANY WALL SPACERS REQUIRED TO KEEP EIFS WALL MATERIAL FROM BEING COMPACTED DURING INSTALLATION OF ANY MOUNTING BOLTS REQUIRED FOR SIGNAGE.

GENERAL NOTE

- INSTALLER SHALL VERIFY WALL CONDITION IN THE FIELD.
- TYPE, SIZE AND NUMBER OF FASTENERS TO BE DETERMINED.
- ALL BOLT HOLES TO BE DRILLED OR PUNCHED.
- ISOLATE ALL ALUMINUM FROM STEEL.

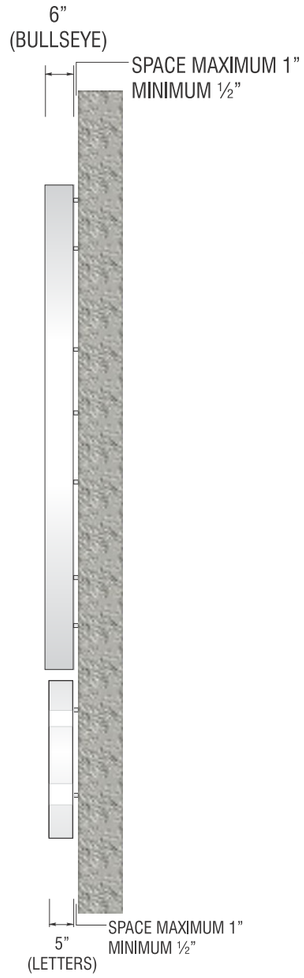
SIGN C



ACRYLIC FACED INT. ILLUM. "LOGO & LETTER SET" | LC-S W

SCOPE OF WORK:

MANUFACTURE AND INSTALL CHANNEL LOGO & LETTERS



SIDE VIEW

SIGN TYPE	A	B	C	D	E	RETAINER	AMPS CIRCUITS	SQ.FT.
LL144/37 LC-W	12'-0"	3'-1"	16' 3-3/4"	2'-0"	4'-0"	1 ½"		195.7
LL132/34 LC-S W	11'-0"	2'-10"	14' 11-1/2"	1'-10"	3'-8"	1 ½"		164.5
LL120/30 LC-S W	10'-0"	2'- 6-7/8"	13' 7-1/8"	1'-8"	3'-4"	1"		135.9
LL108/27 LC-S W	9'-0"	2' 3-3/4"	12' 2-7/8"	1'-6"	3'-0"	1"		110.2
LL96/24 LC-S W	8'-0"	2'-0-5/8"	10' 10-1/2"	1'-4"	2'-8"	1"		87
LL84/21 LC-S W	7'-0"	1' 9-1/2"	9' 5-1/4"	1'-2"	2'-4"	1"		66.6
LL72/18 LC-S W	6'-0"	1' 6-1/2"	8' 1-7/8"	1'-0"	2'-0"	1"		48.9
LL60/15 LC-S W	5'-0"	1' 3-3/8"	6' 9-1/2"	10"	1'-8"	1"		34
LL48/12 LC-S W	4'-0"	1' 0-3/8"	5' 3-1/4"	8"	1'-4"	1"		21.75
LL36/9 LC-S W	3'-0"	9-1/4"	4'-1"	6"	1'-0"	1"		12.25
LL24/6 LC-S W	2'-0"	6-1/8"	2'-8 5/8"	4"	8"	1"		5.4
LL156/ 40 LC-S W	13'-0"	3'-4"	17' 8-1/16"	2'-2"	4'-4"	1 1/2"		229.7
LL168/ 44 LC-S W	14'-0"	3'-8"	19'-3/8"	2'4"	4'8"	1 1/2"		271.3

MATERIAL FINISH COLORS

Returns	Faces	Trimcap/Retainer	Illumination
WHITE	7328 White ATUGLAS Acrylic	White	Sloan White LED

STACKED LOGO & LETTERS - LC-S | internally-illuminated channel | WHITE

SIGN D





END VIEW

ACRYLIC FACED INTERNALLY ILLUMINATED CHANNEL LETTERS

MANUFACTURE AND INSTALL CHANNEL LOGO & LETTERS AS SHOWN AND NOTED

DESIGNATES HEIGHT OF LOGO (Heart)

CVS-12-CL

SIGN TYPE	A	B	C	D	E	AMPS CIRCUITS	SQ.FT.
CVS-12-CL	11 5/8"	9'-1 1/4"	1'-2 3/4"	2'-8"	4'-10 1/2"		9.48
CVS-16-CL	12 1/2"	12'-2 1/4"	1'-7 3/4"	3'-6 3/8"	6'-6 1/4"		16.63
CVS-18-CL	17 1/2"	13'-9"	1'-10 3/4"	4'-0 1/4"	7'-4"		20.62
CVS-20-CL	19 1/2"	15'-3"	2'-0 3/4"	4'-5 1/2"	8'-1 3/4"		25.41
CVS-24-CL	23 5/8"	18'-3 3/4"	2'-5 3/4"	5'-4 1/4"	9'-9 1/4"		36.62
CVS-30-CL	29 1/8"	22'-10"	3'-1"	6'-8"	12'-2 3/4"		57.08
CVS-32-CL	31 1/8"	24'-4 3/4"	3'-3 1/2"	7'-1 1/2"	13'-0 1/4"		65.85
CVS-36-CL	34 7/8"	27'-4 3/4"	3'-8 1/4"	8'-0"	14'-7 1/2"		82.18

MATERIAL FINISH COLORS



SIGN E