ALCOA EXCHANGE
FIVE BELOW

7401 ALCOA RD
BRYANT, SALINE COUNTY, AR 72022

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OWNER / DEVELOPER

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CRAIG L. MOLNAR, ARKANSAS PE #7200
PHONE: 770-598-9353 FAX:
CONTACT: MICHAEL PAULSON mspaulson@bellsouth.net

BUILDING INFORMATION

NAME OF DEVELOPMENT: FIVE BELOW
LOCATION OF DEVELOPMENT: 7401 ALCOA RD, BRYANT, AR 72022
ARCHITECT: Michael B. Randall, AIA PHONE. #: 770-650-7558 STATE REGIS. #: 3812
STRUCTURAL ENGINEER: William Peltier, P.E. PHONE. #: 304-284-0033 STATE REGIS. #: 14464

A: Occupancy Classification: Mercantile - Existing
B: Type of Construction: II-B - Unprotected - Existing Sprinklered: Yes
C: Building Area In Square Feet: FIVE BELOW ± 9,000 S.F.

D: Building Height in Feet: 30' - 0" Per ARKANSAS ICC: 55' - 0"
E: Number of Stories: 1 Includes: Basement: N/A Balcony: N/A Mezzanine: N/A
F: Building Permit: SHELL PERMIT
G: Total Building Area In Square Feet: ± 9,000 SF
H: Building Permit Category: NEW CONSTRUCTION
J: Occupant: Calculated Load For Occupancy: 9,000 SF / 30 SF/Occ = 300 Occupants
K: Egress Calcuation: 351 Occupants x .20 Inches/Occupant = 68 Inches Provided: 156 Inches

L: Plumbing Fixtures:

		Required	Provided
Water Closet:	1 Per 500	2	2
Lavatories:	1 Per 750	2	2
Drinking Fountain	1 Per 1000	1	2
Utility Sink	1	1	1

JURISDICTION

CITY OF BRYANT, ARKANSAS
PLANNING & ZONING DEPARTMENT

210 SW 3RD STREET
BRYANT, ARKANSAS 72022

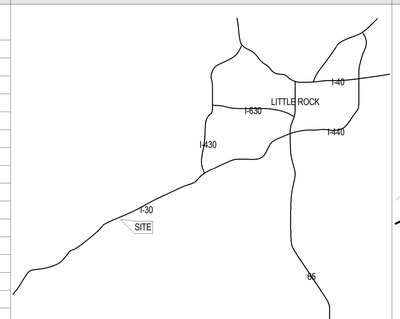
TEL: 501.943.0369
FAX: 501.943.0992

CONTACT: DOUG SMITH, DSMITH@CITYOFBRYANT.COM

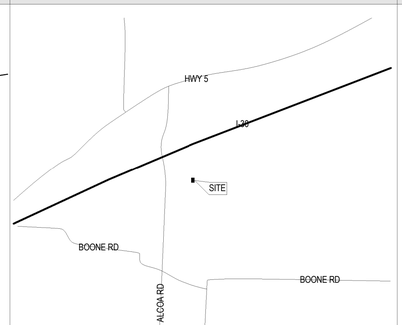
REVISION HISTORY

REV.	DATE	DESCRIPTION	SHEETS

VICINITY MAP



LOCATION MAP



BUILDING CODE

BUILDING CODE:	2012 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:	2010 ARKANSAS STATE MECHANICAL CODE
ELECTRIC CODE:	AR NEC ELECTRICAL CODE, 2017 EDITION
PLUMBING CODE:	2006 ARKANSAS STATE PLUMBING CODE
GAS CODE:	2006 ARKANSAS STATE FUEL GAS CODE
LIFE SAFETY CODE:	NFPA 101 LIFE SAFETY CODE, 2012 EDITION WITH STATE AMENDMENTS
FIRE CODE:	2012 ARKANSAS STATE FIRE CODE

THE DESIGN OF THIS PROJECT TO THE BEST OF OUR PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF COMPLIES WITH APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AS THEY APPLY TO THIS PROJECT. BECAUSE THE REQUIREMENTS OF THE ADA ARE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS, WE CANNOT AND DO NOT WARRANT OR GUARANTEE THAT THIS PROJECT WILL COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

RANDALL PAULSON architects

REGISTERED ARCHITECT
MICHAEL B. RANDALL
No. 3812
ARKANSAS
MARCH 13, 2018

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architecture/interiors

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FIVE BELOW

A DEVELOPMENT BY:

Hall Equities Group
Real Estate Investment - Development - Management

7401 ALCOA RD
BRYANT, AR 72022

Print Record

13 MARCH 2018	PERMIT SET

Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
COVER SHEET

Sheet No.
A-001

■ Released for Construction
□ Not Released for Construction

ARCHITECTURAL ABBREVIATIONS

PLEASE REFER TO ENGINEERING DRAWINGS FOR ENGINEERING ABBREVIATIONS.

A	A
A.C.T.	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AUX.	AUXILIARY

B	B
B/	BOTTOM OF
B.F.F.	BELOW FINISH FLOOR
BKBD.	BACKBOARD
BLDG.	BUILDING

C	C
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
CL	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.	COFFEE MAKER
C.M.U.	CONCRETE MASONRY UNIT
CNT.	COUNTER
C.O.	CASED OPENING
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CPT.	CARPET
C.T.	CERAMIC TILE

D	D
DBL.	DOUBLE
DIA.	DIAMETER
DIV.	DIVISION
DN.	DOWN
DR.	DOOR
D.S.	DOWNSPOUT
DW.	DISHWASHER
D.W.	DOMESTIC WATER
DWG.	DRAWING
DWGS.	DRAWINGS

E	E
EA.	EACH
E.F.	EXHAUST FAN
ELEC.	ELECTRIC, ELECTRICAL
ELEV., EL.	ELEVATION
E.M.S.	ENERGY MANAGEMENT SYSTEM
E.P.D.M.	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
E.W.H.	ELECTRIC WALL HEATER
E.W.C.	ELECTRIC WATER COOLER
EX., EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR

F	F
°F	FAHRENHEIT
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
FT.	FEET

G	G
GA.	GAUGE
GALV.	GALVANIZED
G.F.I.	GROUND FAULT CURRENT INTERRUPTER
GL.	GLASS, GLAZING
GR.	GRADE
G.W.B., GYB. BD.	GYPSUM WALLBOARD

H	H
H/C	HANDICAPPED
HDWR.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR

I	I
I.D.	INSIDE DIMENSION
I.M.	ICE MAKER
IN.	INCHES
INCAND.	INCANDESCENT
INSUL.	INSULATION, INSULATING

J	J
JT.	JOINT

K	K
K.	KIP
KO.	KNOCKOUT
KW.	KILOWATT

L	L
L.	LEFT
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
L.F.	LINEAR FOOT
L.S.D.	LIQUID SOAP DISPENSER

M	M
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MICRO.	MICROWAVE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MM.	MILLIMETER
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTL.	METAL

N	N
N.A.	NOT APPLICABLE
NEG.	NEGATIVE
N.F.W.H.	NON-FREEZE WALL HYDRANT
N.I.C.	NOT IN CONTRACT
NO.	NUMBER

O	O
OA.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIMENSION
O.H.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
OPP. HAND	OPPOSITE HAND

P	P
P.A.	PUBLIC ADDRESS
PAR.	PARALLEL
PERP.	PERPENDICULAR
PL.	PLATE
P. LAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PNL.	PANEL
POS.	POSITIVE
PR.	PAIR
PREFAB.	PREFABRICATED
PREFIN.	PREFINISHED
P.S.I.	POUNDS PER SQUARE INCH
P.S.F.	POUNDS PER SQUARE FOOT
P.T.	PRESSURE TREATMENT
PVC.	POLYVINYL CHLORIDE
PVMT.	PAVEMENT

Q	Q
-	-

R	R
R.	RADIUS, RIGHT
R.D.	ROOF DRAIN
REF.	REFRIGERATOR
REINF.	REINFORCED, REINFORCING
REQD.	REQUIRED
R.L.	RAIN LEADER
R.O.	ROUGH OPENING
R.T.U.	ROOF TOP UNIT
R.V.	ROOF VENT

S	S
SCH.	SCHEDULE
SGL.	SINGLE
SH. ROD	SHOWER ROD
SHT.	SHEET
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURE, STRUCTURAL

T	T
T/C	TOP OF CURB
TECH	TECHNICAL
TEL.	TELEPHONE
TEMP.	TEMPERATURE
T/O	TOP OF
TR.	TRANSITION STRIP
TSTAT.	THERMOSTAT
TYP.	TYPICAL

U	U
U.N.O.	UNLESS NOTED OTHERWISE
UTIL.	UTILITY

V	V
V.C.T.	VINYL COMPOSITION TILE
VEND.	VENDING MACHINE
VERT.	VERTICAL
V.T.R.	VENT THROUGH ROOF
V.W.C.	VINYL WALL COVERING

W	W
W/	WITH
W.C.	WATER CLOSET, WATER COOLER
WD.	WOOD
W.H.	WATER HEATER
WHSE.	WAREHOUSE
WP.	WEATHERPROOF
W.R.	WATER RESISTANT
W.W.F.	WELDED WIRE FABRIC

SYMBOLS

0'-0" LOCATION	HEIGHT / ELEVATION MARKER
1 / A-000	SECTION MARKER
1 / A-000	DETAIL CALLOUT
A-000	ELEVATION CALLOUT
X-XXX	KEY NOTE
A	WALL TYPE DESIGNATION
PROJECT NORTH	EXTERIOR FINISH DESIGNATION
	NORTH ARROW

GENERAL NOTES

1. REFER TO THE PROJECT NOTES FOR FURTHER INFORMATION.

2. THE DESIGN OF THIS PROJECT TO THE BEST OF OUR PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF COMPLIES WITH APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), ANSI STANDARD A117.1-1986, AND THE ARKANSAS ACCESSIBILITY CODE REQUIREMENTS AS THEY APPLY TO THIS PROJECT. BECAUSE THE REQUIREMENTS OF THE ADA ARE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS, WE CANNOT AND DO NOT WARRANT OR GUARANTEE THAT THIS PROJECT WILL COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

3. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PREVAILING EDITIONS OF ALL APPLICABLE STATE AND LOCAL CODES.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE SCOPE OF THE WORK.
ANY ERRORS, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED PROMPTLY TO THE ARCHITECT BEFORE THE WORK IS DONE.

4. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR CORRECTION OF THE WORK OF THIS PROJECT FOR THE PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION OR AS OTHERWISE STIPULATED IN THE CONTRACT DOCUMENTS.

5. THE ARCHITECT IS NOT RESPONSIBLE FOR CHANGES MADE OR AUTHORIZED BY THE OWNER, OWNER'S REPRESENTATIVES, TENANTS, CONTRACTOR OR OTHERS WITHOUT WRITTEN CONSENT BY THE ARCHITECT OR CONSULTANT.

6. THE HANDICAP ACCESSIBLE ROUTE SHALL START AT HANDICAP ACCESSIBLE PARKING AND/OR ACCESSIBLE PUBLIC TRANSPORTATION STOP AND GO INTO THE PRIMARY ENTRANCE OF ALL NEW OR RENOVATED BUILDINGS OR TENANT SPACES. ACCESSIBLE PARKING SPACES AND ADJACENT AISLES SHALL HAVE LESS THAN 1:50 (2%) SLOPE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK WITH THE ARCHITECTURAL DRAWINGS. ALL DISCREPANCIES IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION OF ANY CONFLICTS WITH ANY DESIGN ELEMENTS BEFORE THE WORK IS DONE. OTHERWISE, IF THE CONTRACTOR PROCEEDS WITHOUT NOTIFYING THE ARCHITECT, THE CONTRACTOR SHALL BEAR ALL EXPENSES OF CORRECTING WORK.

8. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO IMPLEMENTATION. PRIOR TO SUBMISSION FOR REVIEW, THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED SUBSTITUTE MEETS THE PERFORMANCE AND CONSTRUCTION SPECIFICATIONS OF THE SPECIFIED ITEM.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAY TO THE MOVE-IN DATE CAUSED BY SCHEDULING WITHIN THE SCOPE OF THE WORK.

10. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT THE DURATION OF THE WORK. BARRIERS TO CONTROL NOISE, DUST, AND SECURITY BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS OR PUBLIC AREAS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.

11. THE CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION TOLERANCES AND TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THE WORK OF THIS PROJECT. CONDITIONS ENCOUNTERED AT THE SITE MATERIALLY DIFFERENT FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE PROMPTLY REPORTED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THE CONDITIONS ARE DISTURBED.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FITTING NECESSARY TO ACHIEVE THE SCOPE OF THE WORK.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT DAMAGE OR MARRING. NEW MATERIAL SHALL BE SUBSTITUTED FOR EXISTING MATERIAL THE CONTRACTOR IS UNABLE TO PROTECT FROM PERMANENT DAMAGE OR MARRING.

14. EXISTING UTILITIES OR OTHER MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT REQUIRING REMOVAL, CAPPING, TERMINATION, AN/OR RELOCATION SHALL BE INCLUDED IN THE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACTOR.

15. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. VERIFY ALL DIMENSIONS IN THE FIELD.

16. NEW WORK AT EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED. DIMENSIONS ON THE FLOOR OR PARTITION PLANS ARE FROM FACE OF PARTITION OR MASONRY FINISH TO FACE OF FINISH UNLESS OTHERWISE NOTED.

17. CENTERLINE OF PARTITIONS SHALL ALIGN WITH COLUMN, COLUMN LINE, DIMENSION REFERENCE, OR CENTERLINE OF WINDOW MULLIONS AS SHOWN UNLESS OTHERWISE NOTED.

18. "TYPICAL" OR "TYP." SHALL MEAN THAT THE REFERENCED DETAIL OR DIMENSION SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.

19. ALL MATERIALS AND DEVICES USED FOR THIS PROJECT ARE TO BE NEW, NEITHER PREVIOUSLY STORED NOR PREVIOUSLY USED IN THIS OR ANOTHER LOCATION.

20. THE CONTRACTOR SHALL HAVE CONCRETE TEST REPORTS AVAILABLE ON SITE AT ALL TIMES.

21. EXPOSED VAPOR RETARDERS SHALL HAVE A FLAMESPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 450.

22. EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE INSIDE OF THE BUILDING PER NFPA 101 LIFE SAFETY CODE, 2012 EDITION.

23. THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF A DOOR, AND THE THRESHOLD AT THE DOOR, SHALL NOT VARY BY MORE THAN ONE-HALF (1 /2"). THE ELEVATION ON EACH SIDE SHALL BE MAINTAINED FOR A DISTANCE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST LEAF. (SEE NFPA 101 5-2.1.3 FOR DETAIL.) PROVIDE BRACING ABOVE PARTITIONS AS NECESSARY TO SUPPORT ASSEMBLIES ATTACHED OR CONTAINED WITHIN IN COMPLIANCE WITH MINIMUM STANDARDS OF ASTM C645-88. DESIGN INTERIOR PARTITIONS FOR MAXIMUM DEFLECTION OF L/240.

24. ALL LANDINGS AND STEPS SHALL BE SOLID WITH NO PERFORATIONS. THERE SHALL BE NO OPEN RISERS ON ANY STEPS REGARDLESS OF SIZE. STAIRS SHALL BE A MINIMUM CLEAR WIDTH OF 44 INCHES (INCLUDING PROJECTIONS NOT MORE THAN 3 1 /2" AT OR BELOW HANDRAIL HEIGHT ON EITHER SIDE). TREADS SHALL BE A MINIMUM OF 11 INCHES DEEP AND RISERS SHALL BE A MAXIMUM OR 7 INCHES IN HEIGHT. UNDERSIDE OF NOSINGS SHALL NOT BE ABRUPT AND NOSING SHALL NOT PROJECT MORE THAN 1 /2 INCH. HANDICAP ACCESSIBLE LANDINGS SHALL BE A MINIMUM OF 60 INCHES BY 60 INCHES. THE OPEN SIDE OF STAIRS THAT ARE 30 INCHES OR MORE ABOVE FLOOR OR GRADE BELOW SHALL HAVE A 42 INCH GUARDRAIL. HANDRAILS SHALL BE ON EACH SIDE OF ALL NEW STAIRS AND AT RAMPS THAT EXCEED A 1:20 SLOPE. HANDRAILS SHALL BE SET AT 34" ABOVE THE FINISH SURFACE OF NOSING OR RAMP TO TOP OF HANDRAIL.

25. PENETRATIONS INTO OR THROUGH EITHER VERTICAL OR HORIZONTAL FIRE-RATED BARRIERS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY. PROVIDE A DETAIL AND LISTING NUMBER PER NFPA 101 LIFE SAFETY CODE 2012 EDITION.
AT EXISTING PARTITIONS TO REMAIN THAT ARE CHANGED TO BE TENANT DEMISING PARTITIONS, MODIFY THE PARTITION CONSTRUCTION ASSEMBLY AS REQUIRED TO MEET THE REQUIREMENTS FOR THE APPLICABLE FIRE RATING.

26. PERMANENTLY IDENTIFY BOTH SIDES OF ALL FIRE RATED AND SMOKE PARTITIONS IN CONCEALED SPACES WITH THE WORDING - "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS."

27. NEW WORK AT EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED. ALL SOUND PARTITIONS SHALL INCLUDE ACOUSTICAL SEALANT AT BASE, HEAD, PERIMETER AND ALL OPENINGS.

28. HORIZONTAL ELEMENTS SUCH AS DOOR HEADS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED USING APPROVED LEVELING COMPOUND UNLESS OTHERWISE DIRECTED IN DRAWINGS.

29. PARTITIONS ABUTTING CURTAIN WALL MULLIONS SHALL NOT BE ATTACHED BY SCREWS OR OTHER MECHANICAL FASTENERS. SEE PROJECT SPECIFICATIONS SECTION 09260 GYPSUM BOARD SYSTEMS FOR PARTITION END FINISH.

30. PROVIDE BRACING ABOVE PARTITIONS AS NECESSARY TO SUPPORT ASSEMBLIES ATTACHED OR CONTAINED WITHIN IN COMPLIANCE WITH MINIMUM STANDARDS OF ASTM C645-88. DESIGN INTERIOR PARTITIONS FOR MAXIMUM DEFLECTION OF L/240.

31. ALL WOOD USED AS STUDS, BLOCKING OR BRACING SHALL BE FIRE TREATED AND PRESSURE TREATED.

32. PROVIDE BLOCKING, BRACING, AND NAILERS AS REQUIRED FOR MILLWORK (UPPER AND LOWER CABINETS), EQUIPMENT, SHELVING, FIXTURES, ETC. CONTRACTOR TO COORDINATE REQUIRED HEIGHTS AND TYPES OF BLOCKING FOR LOCATIONS INDICATED AND/OR CODE REQUIREMENTS. WOOD BLOCKING SHALL BE FIRE TREATED. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY REINFORCING TO ACCOMMODATE INTERIOR FINISHES, FIXTURES AND EQUIPMENT AS DESCRIBED IN THE SCOPE OF THE WORK.

33. ALL SUBSTRATE SURFACES ARE TO BE PREPARED TO RECEIVE FINISH MATERIALS PER MANUFACTURER'S PRODUCT LITERATURE AND WRITTEN INSTRUCTIONS FOR INSTALLATION OR APPLICATION. FILL VOIDS IN ROUND COLUMNS PRIOR TO APPLYING FINISH MATERIALS.
ALL FASTENERS AND ATTACHMENTS SHALL BE CONCEALED FROM VIEW UNLESS OTHERWISE NOTED.
WRAP PIPES IN TOILET AND BATHROOMS AS REQUIRED BY CODE.

34. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE/DATA, ELECTRICAL, LIGHTING AND PLUMBING EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUIT) AND THAT ALL REQUIRED CLEARANCE FOR INSTALLATION OR MAINTENANCE OR ABOVE EQUIPMENT IS PROVIDED.

35. THE CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT AND APPLIANCES SPECIFIED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND/OR COORDINATE INSTALLATION OF TENANT-FURNISHED EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY ALL PLUMBING AND ELECTRICAL REQUIREMENTS RELATED TO EQUIPMENT AND APPLIANCES IN THE SCOPE OF THE WORK.
VERIFY LOCATIONS OF ALL FIRE EXTINGUISHERS, SURFACE-MOUNTED OR RECESSED, FOR CODE COMPLIANCE. PROVIDE FIRE EXTINGUISHERS PER CODE IF NOT SHOWN ON DRAWINGS.

36. VERIFY LOCATIONS OF ALL ELECTRICAL DEVICE, LIFE SAFETY DEVICES AND THERMOSTAT LOCATIONS WITH ARCHITECT FOR COORDINATION WITH DESIGN ELEMENTS PRIOR TO INSTALLATION. AT LOCATIONS WHERE ELECTRICAL, MECHANICAL AND/OR OTHER DEVICES OCCUR TOGETHER BUT AT DIFFERENT HEIGHTS, THE DEVICES SHALL BE CENTERED ABOVE EACH OTHER.

37. SIGNAGE (APPEARANCE, LOCATION, NUMBER AND/OR SIZE) IS NOT INCLUDED UNDER THIS BUILDING PERMIT SET.

38. VERIFY STREET NUMBER REQUIREMENTS WITH LOCAL CODES. AT MINIMUM, STREET NUMBERS SHALL BE VISIBLE FROM THE STREET THAT PROVIDES DRIVEWAY ACCESS TO THE PROPERTY AND SHALL BE PLACED ON A CONTRASTING BACKGROUND THAT PROVIDES 24 HOUR VISIBILITY.

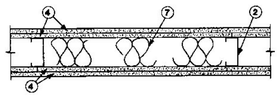
39. ALL ELEVATION DESIGNATIONS ARE TAKEN FROM FIRST FLOOR FINISH ELEVATION.

40. BUILDING IS SHELL ONLY AND BATHROOM FACILITY SHALL COMPLY AT THE TIME OF ALL BUILD-OUTS.

41. EGRESS CAPACITY IS TO BE RE-EVALUATED AND CORRECTED AT THE TIME OF EACH BUILD-OUT PERMIT.

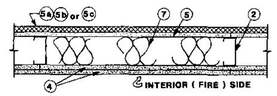
Design No. U425
(For Exterior Walls, Ratings Applicable For Exposure To Fire On Interior Face Only, (See Items 4 and 5)
Bearing Wall Rating—45 Min, 1, 1-1/2 or 2 HR. (See Items 2 and 4)

INTERIOR WALL



HORIZONTAL SECTION

EXTERIOR WALL



HORIZONTAL SECTION

1. **Steel Floor and Ceiling Tracks**—(Not Shown)—Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies, such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.
2. **Steel Studs**—Corrosion-protected steel studs, min 3- 5/8 in. wide, min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, cold-formed, shall be designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC – See Item 5c). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 pan head, self-drilling, self-tapping steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
3. **Lateral Support Members**—(Not shown)—Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.
4. **Wallboard, Gypsum***—*Gypsum wallboard bearing the UU Classification Marking as to Fire Resistance.* Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

Interior Walls

Rating	Wallboard Protection Both Sides of Wall - Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min	*1 layer, 1/2 in. thick	100
1 hr	*1 layer, 5/8 in. thick	100
1-1/2 hr	*2 layers, 1/2 in.thick	100
2 hr	*2 layers, 5/8 in. thick or	86
	*3 layers, 1/2 in. thick	100
	*2 layers, 3/4 in. thick	100

*Ratings applicable to assemblies serving as exterior walls where Classified fire resistive gypsum sheathing type wallboard is substituted on the exterior face.

Exterior Walls

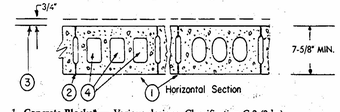
Rating	Wallboard Protection On Interior Side of Wall - Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min	1 layer, 5/8 in. thick	100
1 hr	2 layers, 1/2 in. thick	100
1-1/2 hr	2 layers, 5/8 in. thick	100
2 hr	3 layers, 1/2 in. thick	100
	2 layers, 3/4 in. thick	100

See Wallboard Gypsum (CKNX) Category for names of Classified Companies of 1/2 in. or 5/8 in. thick wallboard. See below for Classified Company of 3/4 in. thick wallboard.
United States Gypsum Co.—Type ULTRACODE or IP-X3.

5. **Gypsum Sheathing**—For exterior walls, 1/2 or 5/8 in. thick exterior regular gypsum sheathing applied vertically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. O.C. along studs and tracks. One of the following exterior facings are to be applied over the gypsum sheathing.
   A. **Siding, Brick, or Stucco**—Aluminum siding, steel siding, brick veneer, or stucco attached to studs over gypsum sheathing and meeting the requirements of local code agencies. When a min 3-3/4 in. thick brick veneer facing is used, the Exterior Wall Rating is applicable with exposure on either face. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
   B. **Mineral and Fiber Boards***—Exterior hardboard paneling, chemically treated over gypsum sheathing with primed or finished face, 7/16 in. thick by 48 in. wide. Attached to studs over gypsum sheathing with 1-7/8 in. long buglehead TEK fasteners 16 in. O.C. at the intermediate supports Or, exterior lap siding, chemically treated, 7/16 in. thick by 6 in. or 12 in. wide. Attached to studs with 1-7/8 in. long, bugleheaD Type TEK fasteners at each lap. Panels lapped minimum 1 in.
   Masonite Corp.—Type PT.
   C. **Cementitious Backer Units***—1/2 in. thick, square edge boards, attached to steel studs over gypsum sheathing with 1-1/4 in. long, Type S-12, corrosion resistant, self-tapping wafer head steel screws, spaced 8 in. O.C. Studs spaced a max of 16 in. O.C. Joints covered with glass fiber mesh tape.
   United States Gypsum Co.—ECB or ICB.
   TEC Inc.—Type TEC.
6. **Fasteners—(Not Shown)—Screws** used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long.
7. **Batts and Blankets***—Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity.
   See Batts and Blankets (BZJZ) Category for names of Classified Companies.
8. **Joint Tape and Compound—(Not Shown)**—Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screwheads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer.

*Bearing the UL Classification Marking

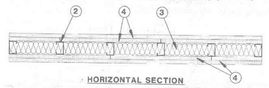
Design No. U904
Bearing Wall Rating — 3 HR.
Nonbearing Wall Rating — 3 HR.



1. **Concrete Blocks*** — Various designs. Classification C-3 (3 hr). See **Concrete Blocks** category for list of eligible manufacturers.
2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to Classification if used. Attached to concrete bolcks (Item 1).
4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification.
5. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
   CELOTEX CORP —Type Thermax

*Bearing the UL Classification Marking

Design No. U490
Bearing Wall Rating — 3 or 4 HR. (See Items 1, 2, 3, 3A and 4)
Nonbearing Wall Rating — 4 HR. (See Items 1, 2, 3 and 4)



HORIZONTAL SECTION

1. **Floor and Ceiling Runner** — (Not Shown) — Channel shaped, attached to floor and ceiling with steel fasteners spaced max 24 in. OC. For nonbearing walls, fabricated from min No. 25 MSG galv steel, min 1-1/2 in. deep and min 2-1/2 in. wide. For bearing walls, fabricated from min 0.0329 in. thick (20 MSG) galv steel, 1-1/4 in. deep and 3-1/2 in. wide.
2. **Steel Studs** — Channel shaped, spaced a max 24 in. OC. For nonbearing walls, fabricated from min 25 MSG galv steel, min 2-1/2 in. wide by 1-1/4 in. deep with 1/4 in. folded back return flange legs. Studs to be cut 3/4 in. less the assembly height. Steel studs friction-fitted into floor and ceiling runners (Item 1). For bearing walls, min 0.0329 in. thick (20 MSG) galv steel studs, min 3-1/2 in. wide by 1-5/8 in. deep with 1/2 in. folded back return flange legs, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 pan-head, self-drilling, self-tapping steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications. Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.
3. Batts and blankets* — Nom 2 in. thick (Nonbearing Wall) or nom 3 in. thick (3 Hr. Bearing Wall) mineral wool batts, friction fit between the studs and floor and ceiling runners. For 4 Hr. bearing wall rating see Item 3 A.
   THERMAFIBER L L C—Type SAFB.

3A. Batts and Blankets — For use when Bearing Wall Rating is 4 Hr. — Mineral wool batts nom 3 in. thick, min 4 pcf, friction fit between the studs and floor and ceiling runners.

4. **Gypsum Board*** — 3/4 in. thick, 4 ft wide. For nonbearing walls, two layers of wallboard applied to each side of the steel studs. Inner layer applied vertically with joints centered over studs and staggered on opposite sides of studs. Outer layer applied horizontally with vertical butt joints staggered from inner layer joints or vertically with joints centered over studs and staggered on opposite side of studs. Inner layer secured with 1-1/4 in. long Type S steel screws spaced 24 in. OC along the perimeter and in the field. Outer layer, when applied horizontally, secured with 2-1/4 in. long Type S steel screws spaced 12 in. OC along the perimeter and in the field. Along the horizontal joints of the outer layer, 1-1/2 in. long Type G steel screws to be applied midway between the studs (24 in. OC) and 1 in. from the longitudinal joint. Outer layer, when applied vertically, joints staggered, secured with 2-1/4 in. long Type S steel screws spaced 12 in. OC along the perimeter and in the field.
   For bearing walls, the wallboard is secured in the same manner except Type S-12 steel screws are used instead of Type S.
   CANADIAN GYPSUM COMPANY—Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
   UNITED STATES GYPSUM CO—Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
   USG MEXICO S A DE C V—Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
5. **Joint Tape and Compound** — (Not Shown) — Outer layer joints covered with joint compound and paper or mesh tape. Screw heads covered with joint compound.

*Bearing the UL Classification Mark

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MARCH 13, 2018

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A DEVELOPMENT BY:

Hall Equities Group
Real Estate Investment • Development • Management

7401 ALCOA RD
BRYANT, AR 72022

Print Record

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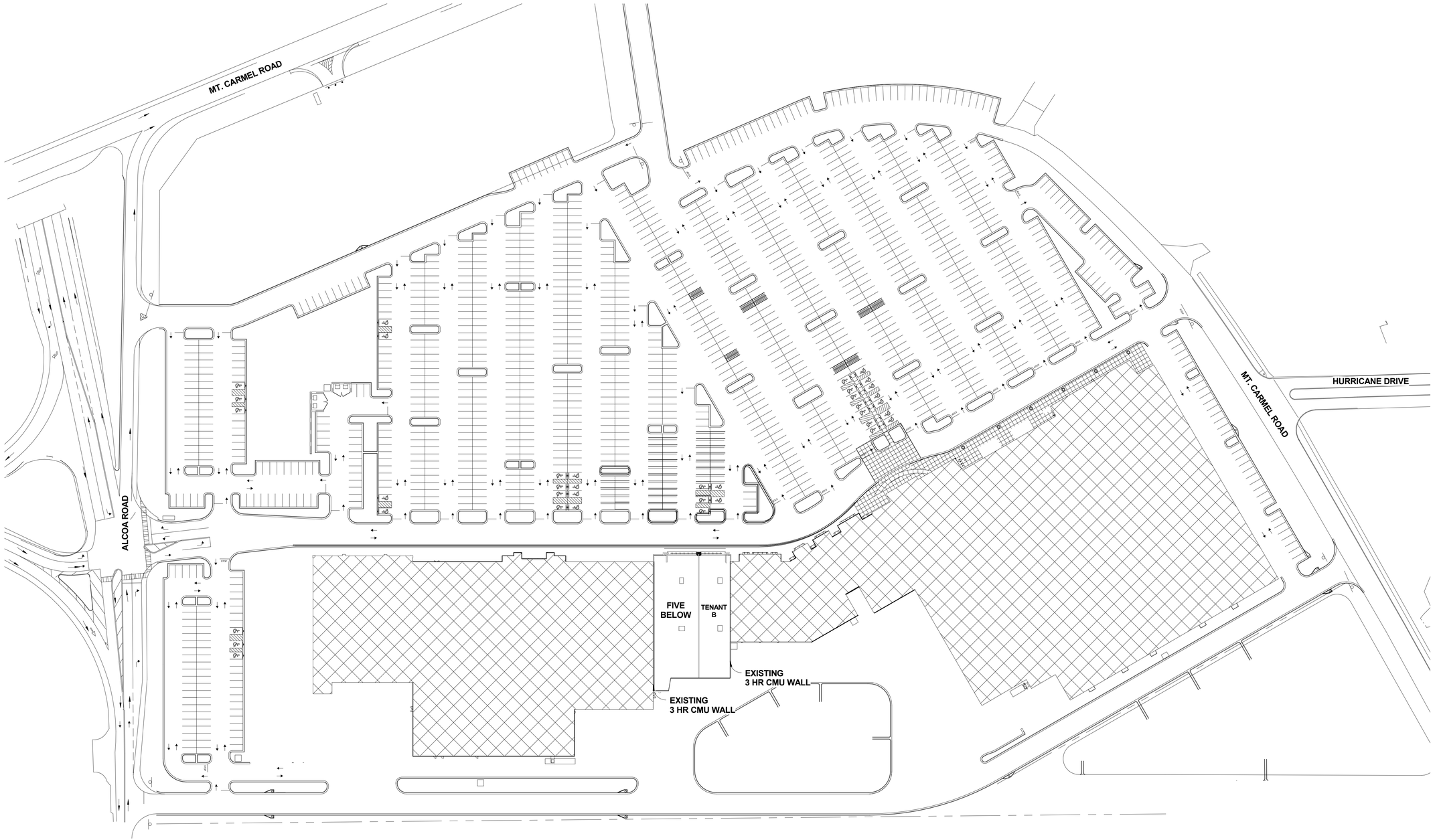
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

Sheet No.
A-002

■ Released for Construction
□ Not Released for Construction



1 A-080 SITE PLAN
SCALE: 1" = 60'-0"

PROJECT NORTH

ARCHITECTURE SITE PLAN NOTES:

1. HATCH AREAS NOT IN SCOPE.

RANDALL PAULSON architects

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ARKANSAS

MARCH 13, 2018

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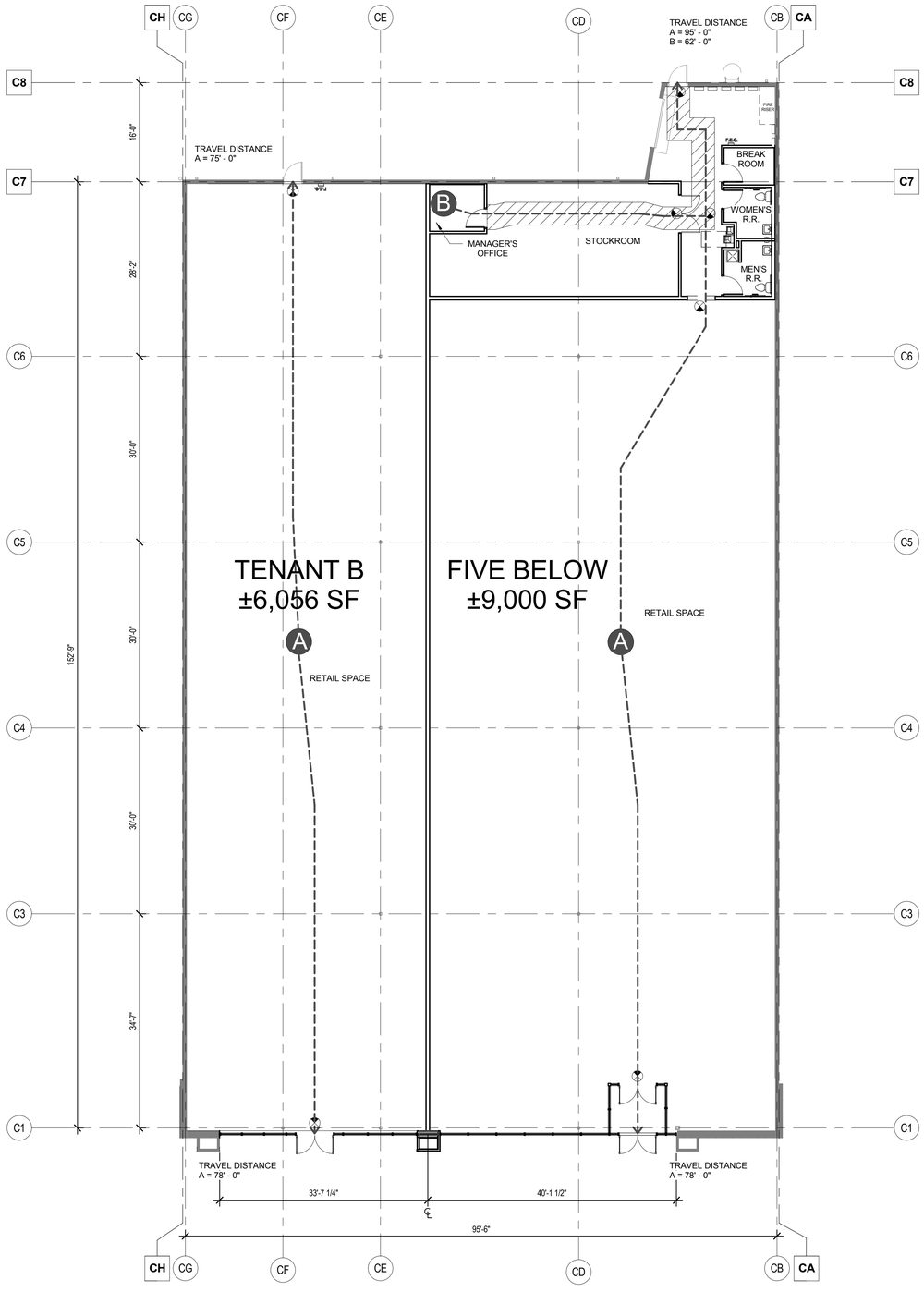
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
SITE PLAN

Sheet No.
A-080

■ Released for Construction
□ Not Released for Construction



1 A-090 LIFE SAFETY PLAN

SCALE: 3/32" = 1'-0"

PROJECT NORTH

LIFE SAFETY LEGEND:

DENOTES SURFACE MOUNTED FIRE EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.
- DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE.
- STORED PRESSURE OPERATED: DEEP DRAWN
- CLASS: 4A - 60B:C
- SIZE: 10 POUND

SIZE: 10 POUND

F.E.C. DENOTES SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.
- DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE.
- STORED PRESSURE OPERATED: DEEP DRAWN
- CLASS: 4A - 60B:C

SIZE: 10 POUND

F.E.C. DENOTES RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.
- DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE.
- STORED PRESSURE OPERATED: DEEP DRAWN
- CLASS: 4A - 60B:C

SIZE: 10 POUND

ALL FIRE EXTINGUISHER LOCATIONS TO BE APPROVED BY FIRE MARSHAL AND/OR AHJ

DELINEATED PATH OF EGRESS TO BE PAINTED YELLOW ON FLOOR

GENERAL NOTE:

1. BUSINESS EGRESS TRAVEL DISTANCE IS 300' - 0" WITH SPRINKLER PER IBC 1016.1 & LSC 39.2.6, EXCEPTION 1.

RANDALL PAULSON architects

REGISTERED ARCHITECT MICHAEL B. RANDALL No. 8812 ARKANSAS

MARCH 13, 2018

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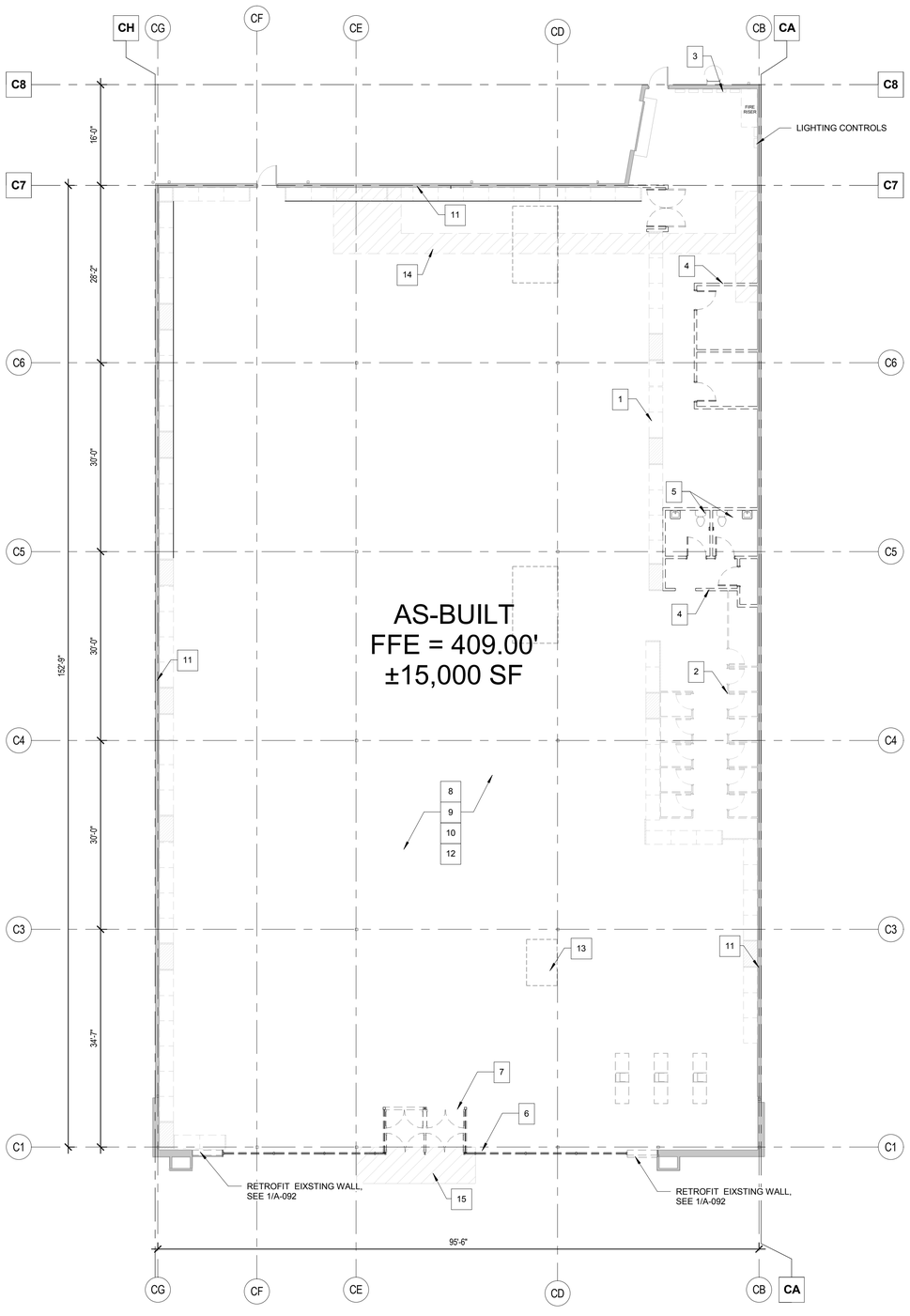
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
LIFE SAFETY PLAN

Sheet No.
A-090

■ Released for Construction
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1 A-091 DEMOLITION FLOOR PLAN

SCALE: 3/32" = 1'-0"

PROJECT NORTH

PARTITION LEGEND
EXISTING TO REMAIN
EXISTING TO BE DEMOLISHED
NEW PARTITIONS

-KEYNOTE LEGEND-

MARK	DESCRIPTION
1	REMOVE EXISTING OLD NAVY PONY WALLS
2	REMOVE EXISTING OLD NAVY DRESSING ROOMS
3	EXISTING ELECTRICAL PANELS TO REMAIN
4	REMOVE ALL EXISTING WALLS
5	REMOVE EXISTING RESTROOMS
6	REMOVE EXISTING STOREFRONT
7	REMOVE EXISTING VESTIBULE
8	REMOVE EXISTING LIGHTING AND ELECTRICAL EQUIPMENT
9	REMOVE ALL EXISTING DUCT THROUGHOUT
10	REMOVE ALL EXISTING FLOOR FINISHES AND CLEAN EXISTING CONCRETE SLAB TO "LIKE" NEW CONDITION AND PREPARE SLAB FOR NEW FINISH
11	PATCH AND REPAIR GYP. AS REQUIRED, MATCH EXISTING
12	REMOVE ALL PLUMBING / COMPONENTS, CAP AT SLAB
13	RTU UNIT LOCATIONS TO REMAIN, REPLACE EXISTING RTUS WITH LARGER UNITS, SEE MECHANICAL DRAWINGS
14	SAW CUT AREAS TO RECEIVE NEW PLUMBING TRENCHES. BACKFILL WITH CLEAN GRAVEL AND VAPOR BARRIER TO MATCH EXISTING UNDER SLAB CONDITIONS. FINISH CONCRETE TO LIKE CONDITION OF SURROUNDING ADJACENT SURFACES.
15	SAW CUT AREAS TO RECEIVE NEW PILASTER FOOTING. ALIGN SAW CUTS WITH EXISTING EXPANSION JOINTS.

DEMOLITION PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS, INSPECTION CERTIFICATES, ETC. FOR THE SCOPE OF THE WORK.
2. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PREVAILING EDITIONS OF ALL APPLICABLE STATE AND LOCAL CODES.
3. DEMOLITION PLANS SHOW APPROXIMATE LAYOUT OF THE EXISTING BUILDING AND ARE NOT INTENDED TO REPRESENT PRECISE "AS-BUILT" CONDITIONS. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS, INCLUDING EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL WORK.
4. VISITS TO THE SITE DURING THE BID PHASE SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING CONSTRUCTION AND SHALL VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS BEFORE ANY NEW CONSTRUCTION OF PARTITIONS OR WALLS IS COMMENCED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AT ONCE.
5. SHOULD THE CONTRACTOR ENCOUNTER CONDITIONS AT THE SITE MATERIALLY DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY GIVE NOTICE TO THE OWNER'S REPRESENTATIVE OF SAID CONDITIONS BEFORE THEY ARE DISTURBED.
6. THE CONTRACTOR SHALL CEASE OPERATIONS IMMEDIATELY IF HAZARDOUS OR CONTAMINATED MATERIALS SUCH AS ASBESTOS OR POLYCHLORINATED BIPHENYL (PCB), NOT PREVIOUSLY RENDERED HARMLESS, ARE ENCOUNTERED. CONTACT ARCHITECT AND OWNER IN WRITING. DO NOT RESUME OPERATIONS UNTIL DIRECTED. HAZARDOUS OR CONTAMINATED MATERIALS HAVE BEEN RENDERED HARMLESS, AND CONDITIONS ARE AGREED TO BY OWNER AND CONTRACTOR IN WRITING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES. THIS INCLUDES SCHEDULING OF ALL WORK TO BE PERFORMED, COORDINATION OF ALL CUTTING, FITTING, PATCHING AND REPAIRING AS REQUIRED, ETC.
8. THE OWNER AND AFFECTED TENANT SHALL BE NOTIFIED PRIOR TO SHUTDOWN OF ANY SHARED MECHANICAL, PLUMBING AND/OR ELECTRICAL SYSTEMS.
9. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT THE DURATION OF THE WORK, INSIDE AND OUTSIDE THE SCOPED AREA. BARRIERS TO CONTROL NOISE, DUST, AND SECURITY BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS OR PUBLIC AREAS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED FOR TEMPORARY SUPPORT OF ALL WORK TO BE PERFORMED. THE SHORING AND BRACING SHALL PREVENT MOVEMENT, SETTLEMENT, AND/OR COLLAPSE OF STRUCTURE OR ELEMENT SHOWN TO REMAIN. IF REQUIRED SHORING AND BRACING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.
11. EXISTING CONSTRUCTION SHOWN TO REMAIN INCLUDING BUT NOT LIMITED TO WALLS, PARTITIONS, DOORS, FRAMES, CONSTRUCTION AND MATERIALS BEYOND THE SCOPED AREA ETC. SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGE DURING CONSTRUCTION ACTIVITIES. DAMAGE TO EXISTING CONSTRUCTION SHOWN TO REMAIN SHALL BE RESTORED TO MATCH PRE-DAMAGED ADJACENT CONDITION AT NO ADDITIONAL COST TO OWNER.
12. EXISTING ITEMS OR MATERIAL TO BE SALVAGED SHALL EITHER BE CAREFULLY REMOVED, CLEANED AND STORED AT A LOCATION PROVIDED BY THE OWNER OR SHALL BE CAREFULLY REMOVED, CLEANED, TEMPORARILY STORED AND RE-USED AS SHOWN ON DRAWINGS. CONTRACTOR SHALL MAINTAIN AND PROVIDE TO OWNER A LIST OF ALL REMOVED AND SALVAGED ITEMS AT THE COMPLETION OF DEMOLITION WORK. SALVAGE EXISTING RATED DOORS, WINDOWS AND FRAMES TO MAINTAIN RATINGS FOR RE-USE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT DAMAGE OR MARRING. NEW MATERIAL SHALL BE SUBSTITUTED FOR EXISTING MATERIAL THE CONTRACTOR IS UNABLE TO PROTECT FROM PERMANENT DAMAGE OR MARRING.
14. EXISTING UTILITIES OR OTHER MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT REQUIRING REMOVAL, CAPPING, TERMINATION, AND/ OR RELOCATION SHALL BE INCLUDED IN THE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACTOR.
15. THE CONTRACTOR SHALL PROTECT AND SHALL NOT DISCONNECT ALL EXISTING FIRE ALARM DEVICES, SMOKE ALARMS, SPRINKLER HEADS, EXIT SIGNS, ASSOCIATED WIRING, AND OTHER LIFE SAFETY DEVICES IN OPERATION. RELOCATE AS REQUIRED IN NEW PLAN.
16. EXISTING CONCRETE FLOOR SLABS, MASONRY WALLS AND EXISTING STRUCTURAL FRAMING SYSTEMS SHOWN TO BE REMOVED SHALL BE CLEANLY SAWCUT FROM EXISTING CONSTRUCTION. COMPLETELY REMOVE FOOTINGS, FOUNDATIONS AND ABOVEGROUND AND UNDERGROUND CONSTRUCTION AND INDICATED ON DRAWINGS.
17. EXISTING EXTERIOR WALL INSULATION SHALL BE LEFT IN PLACE OR SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL INSULATING VALUE.
18. WHERE FINISHES ARE SHOWN TO BE REMOVED FROM EXISTING CONSTRUCTION, REPAIR AND PATCH REMAINING SUBSTRATES AND PREPARE FOR NEW FINISH. CAREFULLY REPAIR AND PATCH ALL REMAINING SUBSTRATES THAT WERE ORIGINALLY CONCEALED BY EXISTING FINISHES, BUT WILL NOW BE EXPOSED IN THE NEW CONSTRUCTION.
19. ALL INFILL OR REPLACEMENT WORK IS TO MATCH EXISTING CONDITIONS IN MATERIALS, CONSTRUCTION, RATING AND FINISH, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
20. EXISTING CONDITIONS DISTURBED BY NEW WORK MUST BE RESTORED WITH SIMILAR NEW MATERIAL TO A CLEAN NEW CONDITION. ALL NEW MATERIALS SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEBRIS REMOVAL. DO NOT ALLOW DEBRIS TO ACCUMULATE. ALL AREAS TO BE LEFT CLEAN DAILY. WASH AND CLEAN ALL WORK AFFECTED BY CONSTRUCTION AT COMPLETION OF PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH TENANT AND SHALL VERIFY ALL TENANT REQUESTS WITH OWNERS REPRESENTATIVE PRIOR TO PERFORMING SUCH REQUESTS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF IRREGULARITIES IN FLOOR FINISH AND/OR ELEVATION THAT BECOME APPARENT DUE TO DEMOLITION.
24. REMOVE ALL OBSOLETE PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT IN THEIR ENTIRETY THROUGHOUT TENANT SPACE AND ON THE ROOF, PARTICULARLY WHERE EXISTING ITEMS WILL INTERFERE WITH THE INSTALLATION OF NEW CONSTRUCTION, OR WHERE EXISTING ITEMS WILL BE EXPOSED IN THE NEW CONSTRUCTION, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS TO REMAIN. REPAIR AND PATCH SYSTEMS TO REMAIN WITH MATCHING EXISTING CONSTRUCTION AND AS INDICATED IN CONTRACT DOCUMENTS. COORDINATE WITH NEW CONSTRUCTION.
25. REMOVE NON-LOAD BEARING WALLS (CMU & GYP BOARD), DOORS AND FRAMES, ENCLOSURES AND ALL OTHER ITEMS INDICATED TO BE REMOVED ON THIS PLAN.
26. REMOVE ALL SHELVING AND STORE FIXTURES LEFT FROM PREVIOUS TENANT.
27. REMOVE ALL EXISTING FINISHES, CHAIR RAILS, GRAPHICS, ETC. AND PREP FOR NEW FINISHES.
28. PATCH AND/OR REPAIR FLOOR, CEILING AND/OR WALL SURFACES WHERE EXISTING TO REMAIN, REMOVALS ARE MADE AND PREPARE TO RECEIVE NEW FINISHES.
29. CONTRACTOR MUST PLAN, SCHEDULE, AND COORDINATE ALL REMOVALS (AND NEW WORK) TO AVOID INTERRUPTION OF SERVICES, ELEC., HVAC, PLUMBING, AND FIRE PROTECTION.
30. INSTALL TEMPORARY STOREFRONT BARRICADE IF REQUIRED. PATCH AND REPAIR FASCIA AS REQUIRED TO MATCH ADJACENT FINISHES.
31. REFER TO ELECTRICAL, MECHANICAL, AND PLUMBING DRAWIGS FOR ADDITIONAL NOTES ON ELECTRICAL, MECHANICAL, AND PLUMBING REMOVALS, MODIFICATIONS, AND PHASING.

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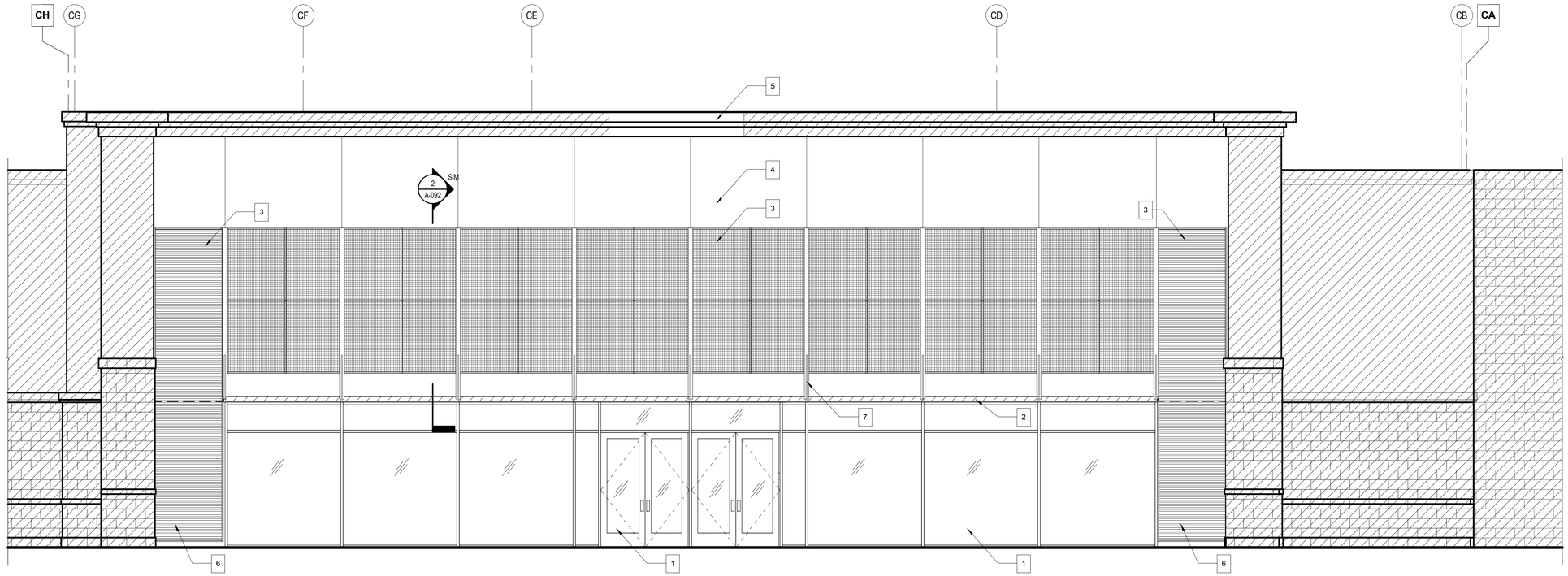
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
DEMOLITION FLOOR PLAN

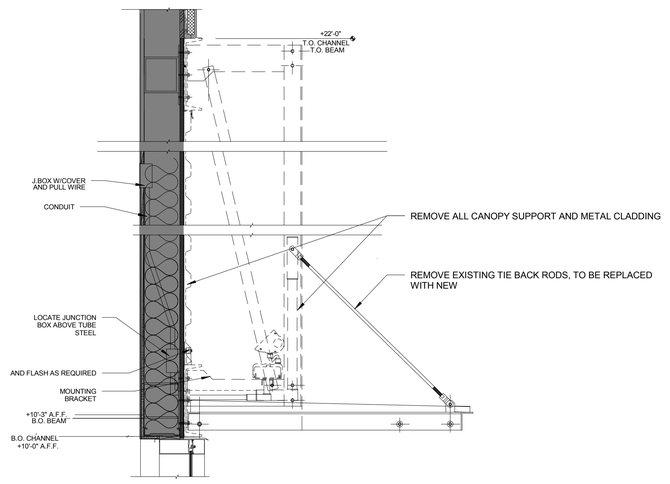
Sheet No.
A-091

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1 A-092 DEMOLITION ELEVATION

SCALE: 1/4" = 1'-0"



2 A-092 DETAIL @ ENTRY CANOPY EXISTING

SCALE: 1" = 1'-0"

GENERAL NOTES:

EXISTING TO REMAIN

-KEYNOTE LEGEND-

MARK	DESCRIPTION
1	REMOVE EXISTING STOREFRONT
2	REMOVE EXISTING CANOPY AND TIE BACK RODS, RETROFIT EXISTING CANOPY TO FIT WITH NEW DESIGN
3	REMOVE EXISTING CORRUGATED METAL PANEL
4	RETROFIT/RE-FINISH EXISTING EIFS FINISH. SEE NEW ELEVATION
5	REMOVE EXISTING EIFS CORNICE TO RECIEVE NEW PILASTER. SEE NEW ELEVATION
6	DEMO EXISTING WALL TO ACCOMMODATE NEW STOREFRONT
7	EXISTING TIE BACK RODS TO BE REMOVED AND REPLACED WITH NEW

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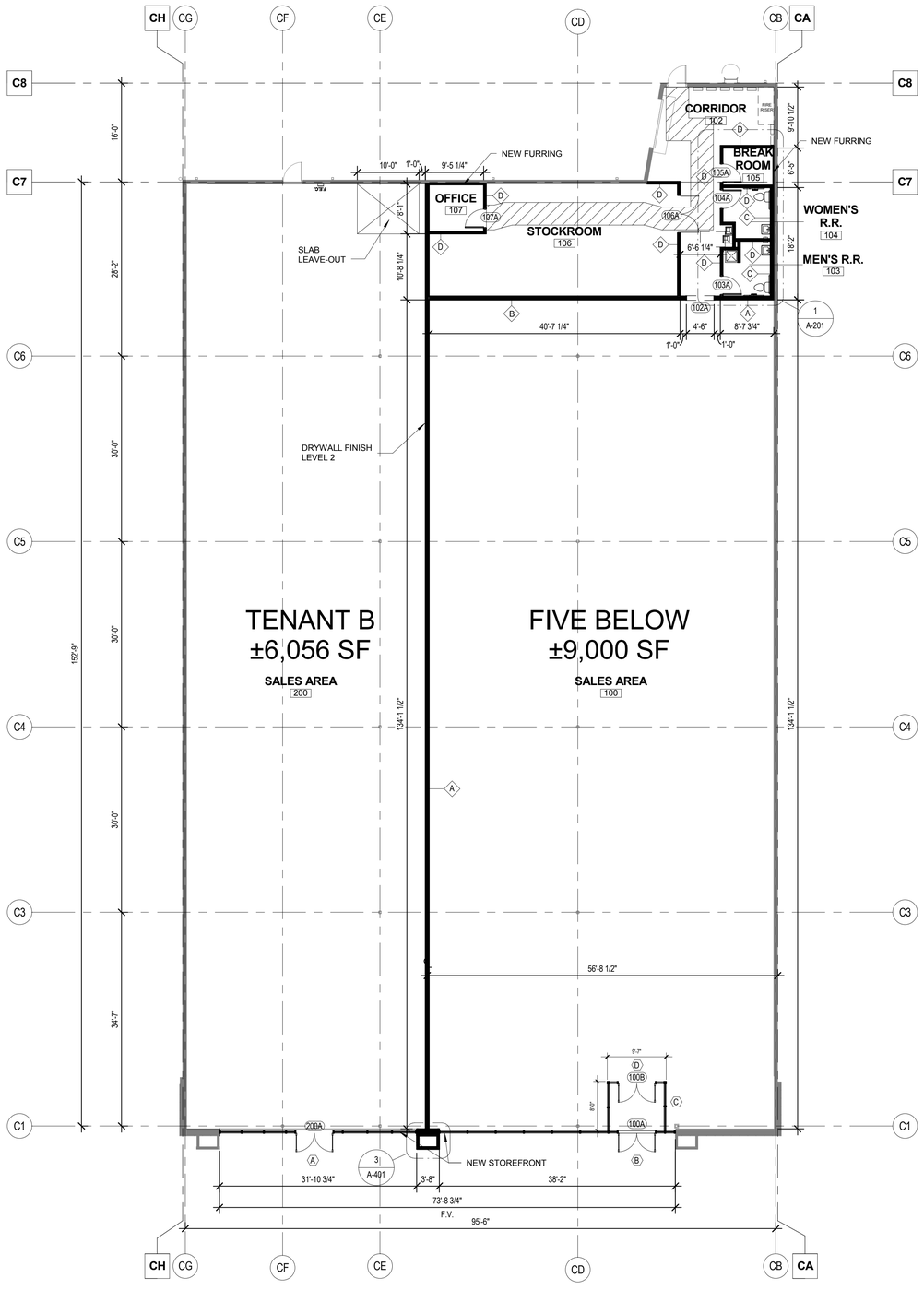
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Sheet Title
DEMOLITION EXTERIOR ELEVATIONS

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A-092

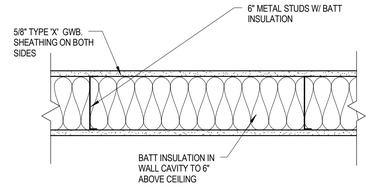
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1 A-101 PROPOSED FLOOR PLAN
SCALE: 3/32" = 1'-0"

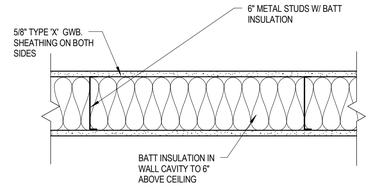
PROJECT NORTH

PARTITION LEGEND	
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	NEW PARTITIONS



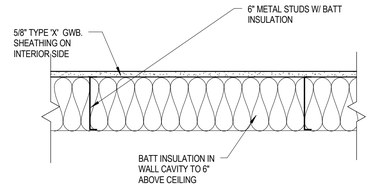
WALL TYPE 'A'

WALL HEIGHT: TO DECK
WALL RATING: 1 HR
RATING DESIGNATION: UL 263/ U 419



WALL TYPE 'B'

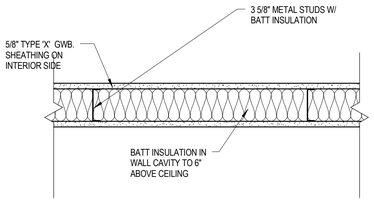
WALL HEIGHT: TO DECK
WALL RATING: N/A
RATING DESIGNATION: N/A



WALL TYPE 'C'

WALL HEIGHT: 6" ABOVE CEILING
WALL RATING: N/A
RATING DESIGNATION: N/A

NOTE: PROVIDE MOISTURE RESISTANT 8'-0" AFF AT ALL WET LOCATIONS



WALL TYPE 'D'

WALL HEIGHT: 6" ABOVE CEILING
WALL RATING: N/A
RATING DESIGNATION: N/A

NOTE: PROVIDE MOISTURE RESISTANT 8'-0" AFF AT ALL WET LOCATIONS

3 A-101 INTERIOR WALL PARTITIONS LEGEND
SCALE: 1 1/2" = 1'-0"

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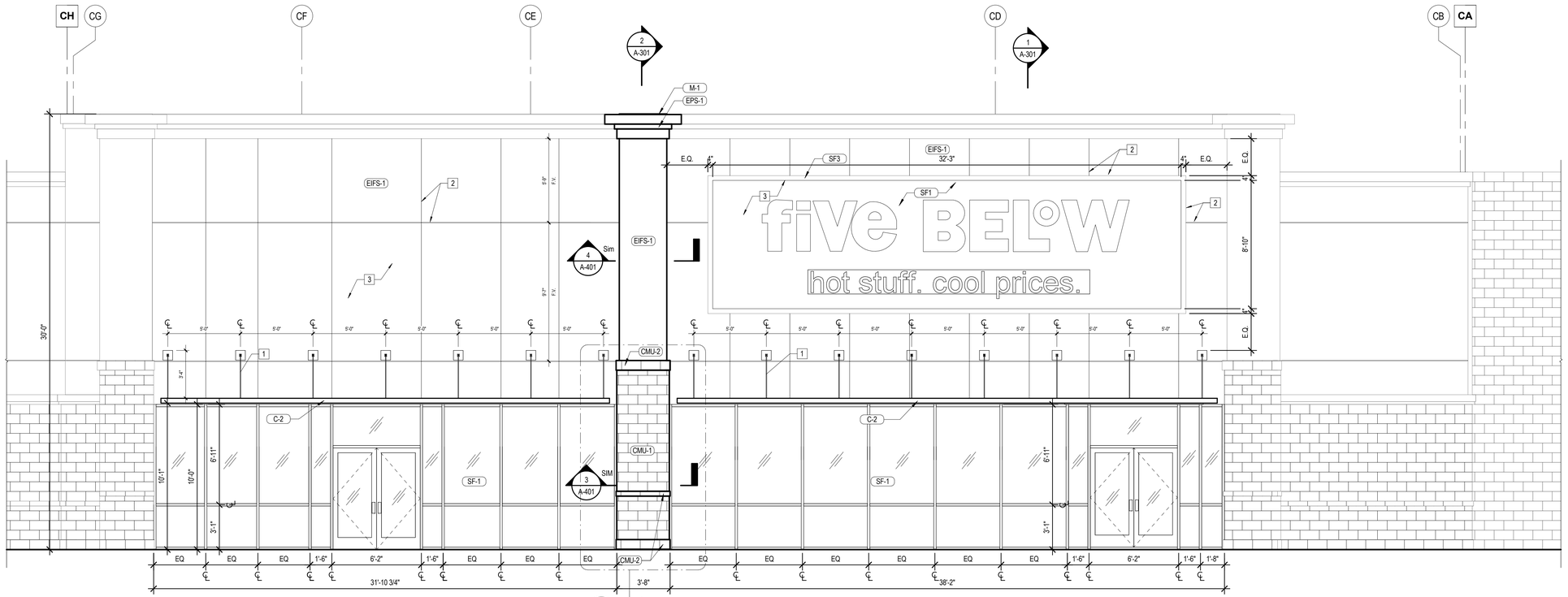
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PROPOSED FLOOR PLAN

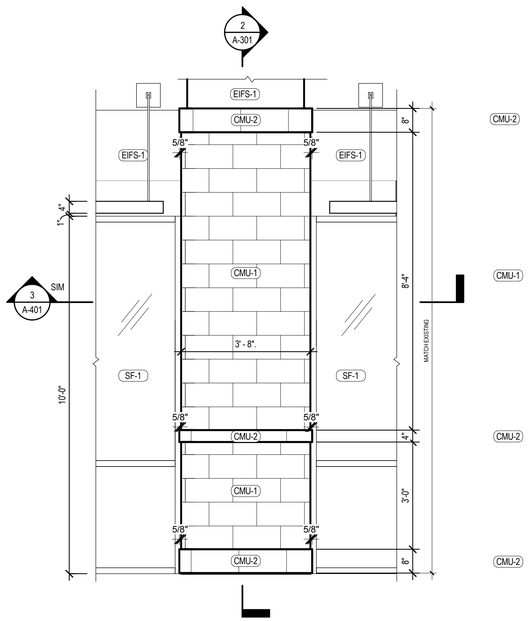
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1 A-102 PROPOSED ELEVATION

SCALE: 1/4" = 1'-0"



2 A-102 ENLARGED DETAIL @ NEW PILASTER

SCALE: 1/2" = 1'-0"

MATERIAL LEGEND				
MARK	CATEGORY	MANUFACTURER	DESCRIPTION	INSTALLATION / FINISH
C-2	METAL CANOPY	PREFABRICATED	ALUMINUM	EXISTING CANOPY
CMU-1	CMU BLOCK	VERIFY	ROCK FACE	MATCH EXISTING COLOR
CMU-2	CMU BLOCK	VERIFY	SMOOTH	MATCH EXISTING COLOR
EIFS-1	EIFS	DRYVIT OR EQUAL	S.W.#7690	DIRT PICK-UP RESISTANT; FINISH: FINE TEXTURE; COLOR TO MATCH: S.W. #7690 "TOWNHALL TAN"
EPS-1	EXPANDED POLYSTYRENE SHAPE	SIERRA STONE	EPS	COLOR TO MATCH EXISTING
M-1	METAL COPING	PAC CLAD	MEDIUM BRONZE	PREFINISHED
SF1	STOREFRONT FINISH	DRYVIT OUTSULATION PLUS MD	STOREFRONT EIFS SYSTEM 1" MIN DEPTH, FIBE-0110215	'FIVE BELOW' BLUE SIGNANGE EIFS
SF3	STOREFRONT FINISH	DRYVIT OUTSULATION PLUS MD	STOREFRONT EIFS 2"X4" FRAME, 1" MIN EIFS CORNICE, 310	'CHINA WHITE' FRAME AROUND BLUE
SF-1	STOREFRONT	KAWNEER	CLEAR ANODIZED	PREFINISHED FRAME W/ 1" INSULATED CLEAR GLAZING

*** NOTE:** THE INTENT OF THE FINISH SCHEDULE ABOVE IS TO MATCH THE EXISTING FINISHES. ALL COLORS AND MATERIALS SHOULD BE FIELD VERIFIED TO MATCH.

-KEYNOTE LEGEND-	
MARK	DESCRIPTION
1	REPURPOSED CANOPY AND TIE BACK RODS
2	3/4" REVEAL TO LINE UP WITH NEW STOREFRONT
3	PROVIDE FIRE RETARTANT WOOD BLOCKING FOR SIGNAGE

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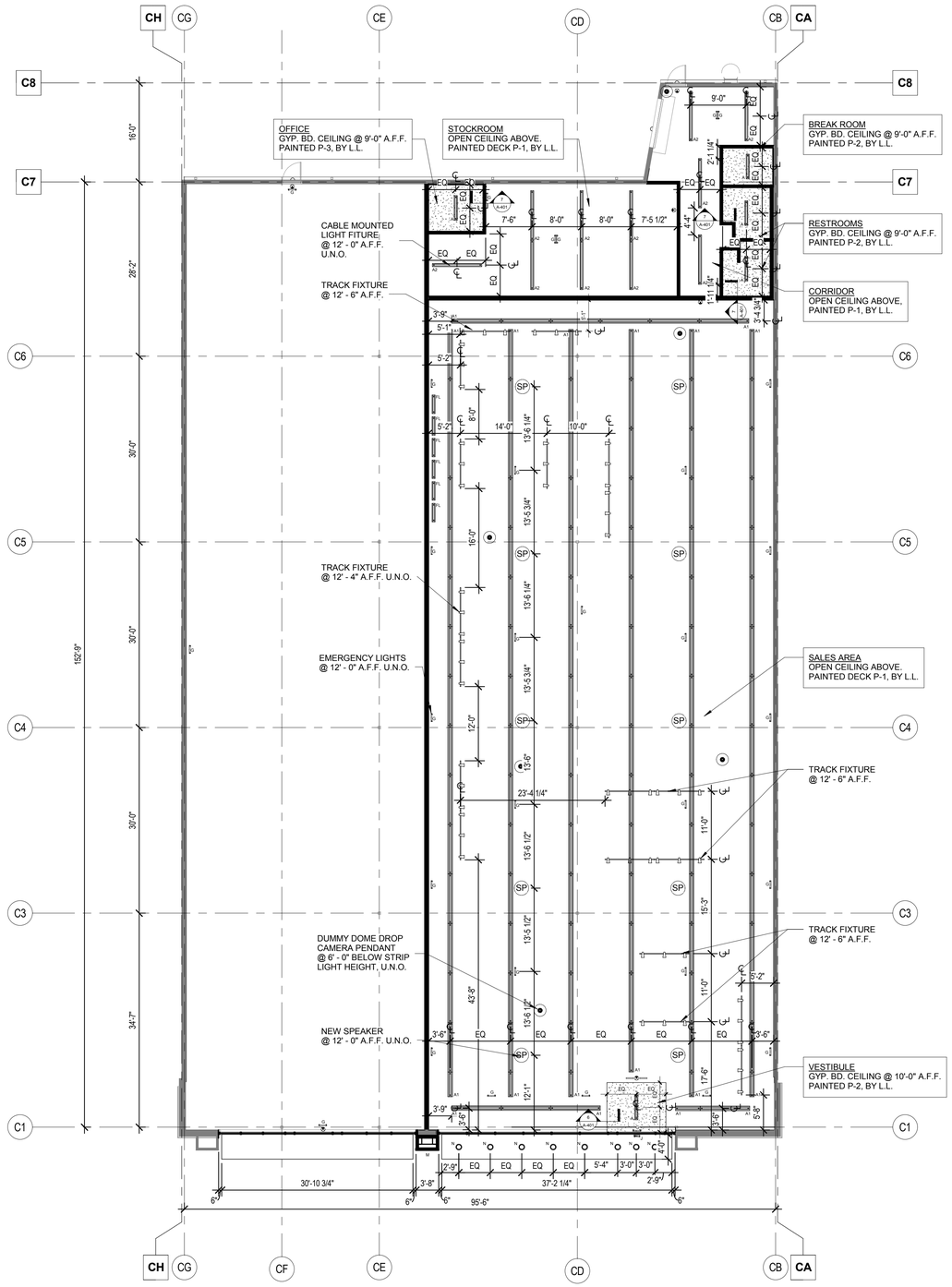
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Sheet Title
PROPOSED EXTERIOR ELEVATIONS

Sheet No.
A-102

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1 / A-112 PROPOSED REFLECTED CEILING PLAN

SCALE: 3/32" = 1'-0"

PROJECT NORTH

REFLECTED CEILING PLAN - LEGEND

TYPE	SYMBOL	MANUFACT./CAT. #	DESCRIPTION	MOUNTING TYPE
A		DAY-BRITE LIGHTING T-2-32 UNV	4' 2 LAMP STRIP SINGLE END WIRED, SEE ELECTRICAL DRAWINGS	CEILING MOUNTED
A1		DAY-BRITE LIGHTING TIK-S-3-32-UNV/(2) IK-BF	8' INDUSTRIAL WITH CROSS BAFFLE, SEE ELECTRICAL DRAWINGS	CABLE MOUNTED
A1.1		DAY-BRITE LIGHTING TIK-S-3-32-UNV/(1) IK-BF	4' INDUSTRIAL WITH CROSS BAFFLE, SEE ELECTRICAL	CABLE MOUNTED
A2		DAY-BRITE LIGHTING TT-2C -32 UNV	8' 2 LAMP STRIP SINGEL END WIRED, SEE ELECTRICAL DRAWINGS	CABLE MOUNTED
LB		MDI WORLDWIDE X-61964BRK-SLM70	4' FIXTURE LIGHTING IN STYLE SECTION	CLIP MOUNTED
LT-4		HOUSING: JUNO T4WH LAMP: PHILLIPS 17PAR38XS40940/R534WH	4' TRACK, SEE ELECTRICAL DRAWINGS	THREATED ROD, PAINTED P-1
LT-8		HOUSING: JUNO T8WH LAMP: PHILLIPS 17PAR38XS40940/R534WH	8' TRACK, SEE ELECTRICAL DRAWINGS	THREATED ROD, PAINTED P-1
FL		LOZIER QUICK CONNECT LIGHTS LKQC-3-LED4000	3' OR 4' UNDER SHELF LIGHTING	MAGNENT MOUNTED
B		SENNCO SOLUTION 9-0650-1000-02-00	DUMMY DOME DROP CAMERA, INSTALLED BY T.G.C.	PENDANT MOUNTED
E	SP		SPEAKER, INSTALLED BY F.B.	
F		EXITRONIX APX7R	UNIVERSAL EXIT LED RED, SEE ELECTRICAL DRAWINGS	SURFACE MOUNTED
G		SURE-LITE APEL	DUAL HEAD EMERGENCY WITH BATTERY PACK, SEE ELECTRICAL DRAWINGS	CEILING MOUNTED (HUNG)
N		CON-TECH LIGHTING RL38 - CTR3802-CLR	UNDER CANOPY LIGHT	SURFACE MOUNTED
J		EXITRONX LL12-54-0-W/ T1212W	DUAL HEAD REMOTE WITH BATTERY	SURFACE MOUNTED
			DOOR CHIME PROVIDED BY F.B. INSTALLED BY T.G.C, RECEIVER TO BE INSTALLED AT CASHWRAP	SURFACE MOUNTED

REFLECTED CEILING PLAN NOTES:

1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION
2. G.C. TO COORDINATE W/ MECHANICAL AND STRUCTURAL DRAWINGS FOR RTU LOCATIONS.
3. REFER TO MECHANICAL DRAWINGS FOR DUCT WORK, DIFFUSERS, SUPPLY LOCATIONS. G.C. TO COORDINATE AND FIELD VERIFY DUCT WORK AND LIGHT FIXTURES AND NOTIFY ARCHITECTS IFANY CONFLICTS & DISCREPANCY.
4. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
5. REFER TO ENGINEERING DRAWINGS FOR HVAC AND ELECTRICAL FIXTURES, SPECIFICATIONS AND DETAILS.
6. LIGHT FIXTURES SHOWN ON REFLECTED CEILING PLAN FOR LOCATION ONLY.
7. DIMENSIONS INDICTATE STARTING POINT OF GRID. IF NOT DIMENSIONED, CENTER GRID ON SPACE SIDE AS SHOWN, STARTING WITH A FILL TILE AT THE FRONT.
8. COORDINATE ALL NEW ABOVE CEILING INSTALLATIONS TO PROVIDE DESIGN ELEMENTS AND FIXTURES AS SHOWN ON REFLECTED CEILING PLAN. CONFLICTS MAY REQUIRE INSTALLATION OF MECHANICAL, ELECTRICAL, OR PLUMBING ELEMENTS ABOVE TYPICAL MOUNTING HEIGHTS.
9. IF ACCESS DOORS ARE REQUIRED, SUBMIT PROPOSED TYPE, SIZE AND LOCATION TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
10. LOCATE ELECTRICAL DEVICES, LIFE SAFETY DEVICES, AND SPRINKLER HEADS IN BETWEEN LIGHT FIXTURE AND/OR CENTER OF ACCOUSTICAL CEILING TILE, UNLESS NOTED OTHERWISE.
11. CONCEAL FASTENERS. NO POP RIVETS.

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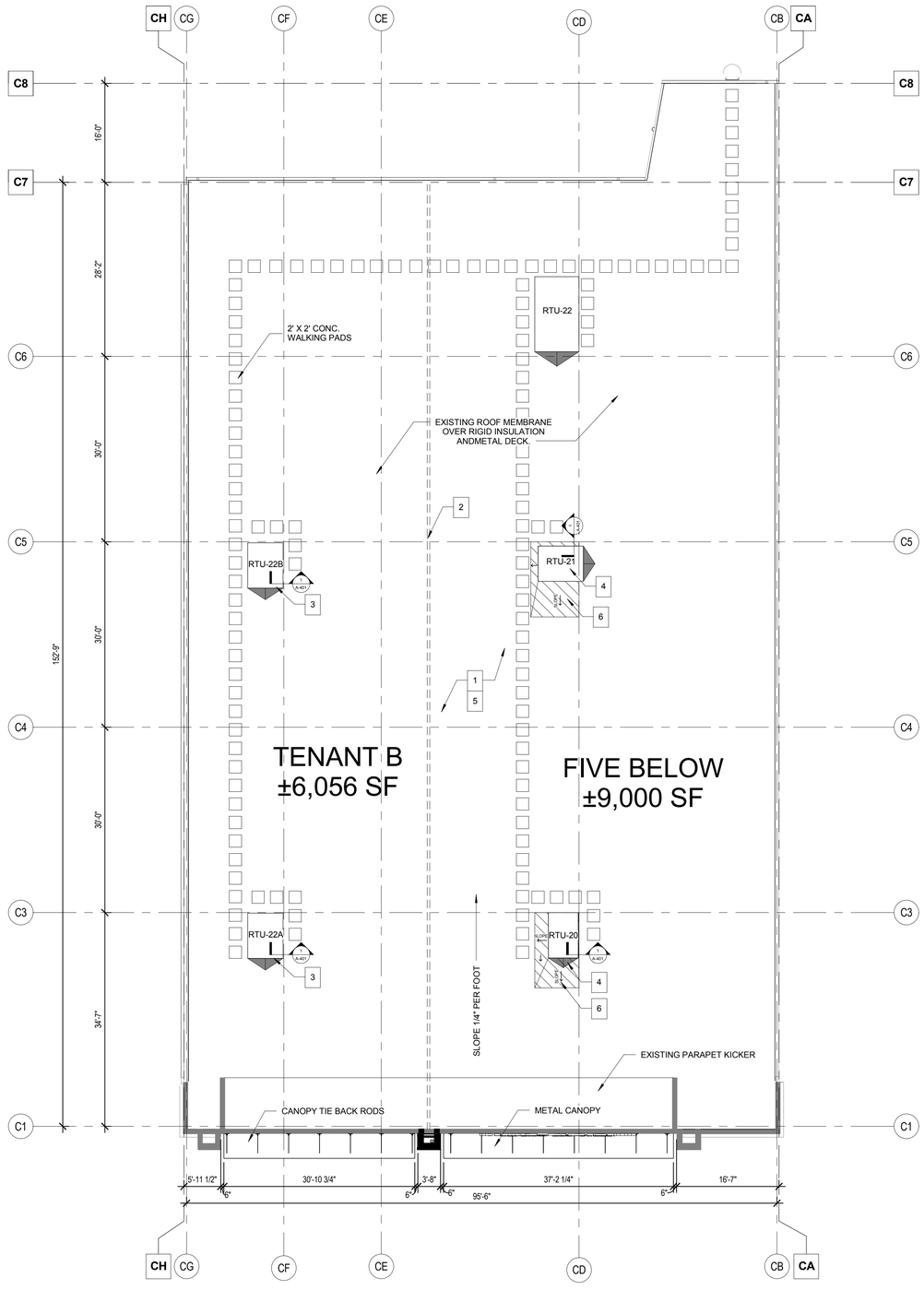
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Sheet Title
PROPOSED REFLECTED CEILING PLAN

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A-112

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1 A-121 OVERALL ROOF PLAN

SCALE: 3/32" = 1'-0"

PROJECT NORTH

-KEYNOTE LEGEND-

MARK	DESCRIPTION
1	EXISTING DOWNSPOUTS AND GUTTERS TO REMAIN
2	TENANT DEMISING WALL LOCATION
3	NEW RTU UNIT AND CURB
4	G.C. TO PROVIDE NEW RTU AND MODIFY OR REPLACE EXISTING CURB
5	REPAIR AND REPLACE ANY AND ALL TPO DAMAGED OR REMOVED AS PART OF CONSTRUCTION
6	LOCATION OF EXISTING RTU CURB TO BE MODIFIED FOR NEW RTU. ADD REQUIRED RIGID INSULATION TO MEET EXISTING ROOF R-VALUE.

ROOF PLAN NOTES:

1. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR MORE INFORMATION ON EQUIPMENT.

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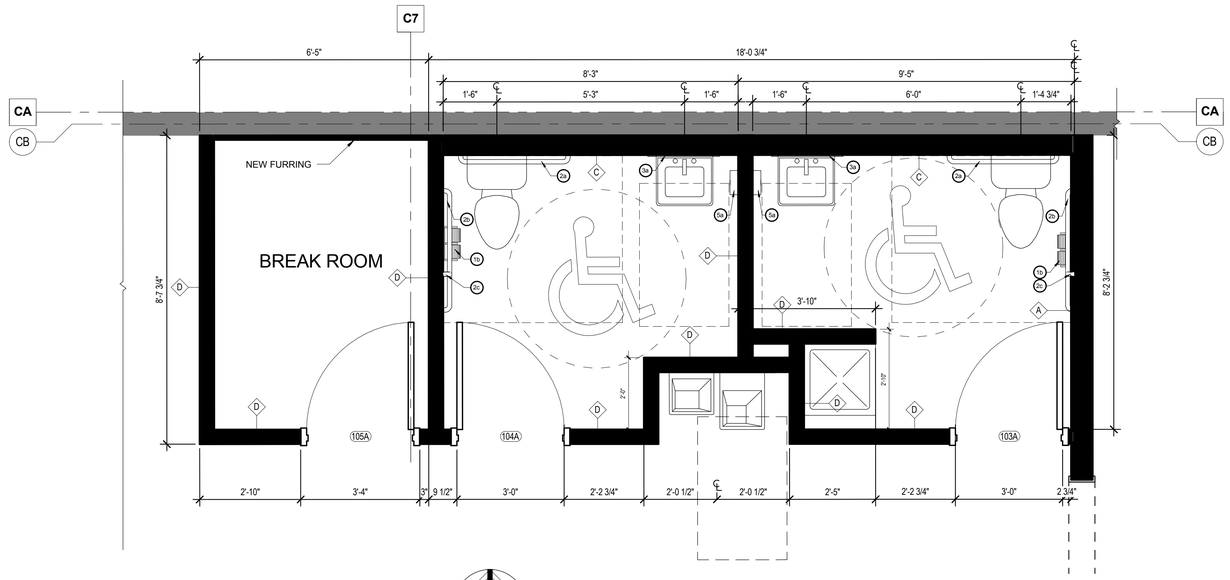
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Date: 13 MARCH 2018
Project No.: 2017259.00

Sheet Title
OVERALL ROOF PLAN

Sheet No.
A-121

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1 A-201 ENLARGED PLAN @ RESTROOMS

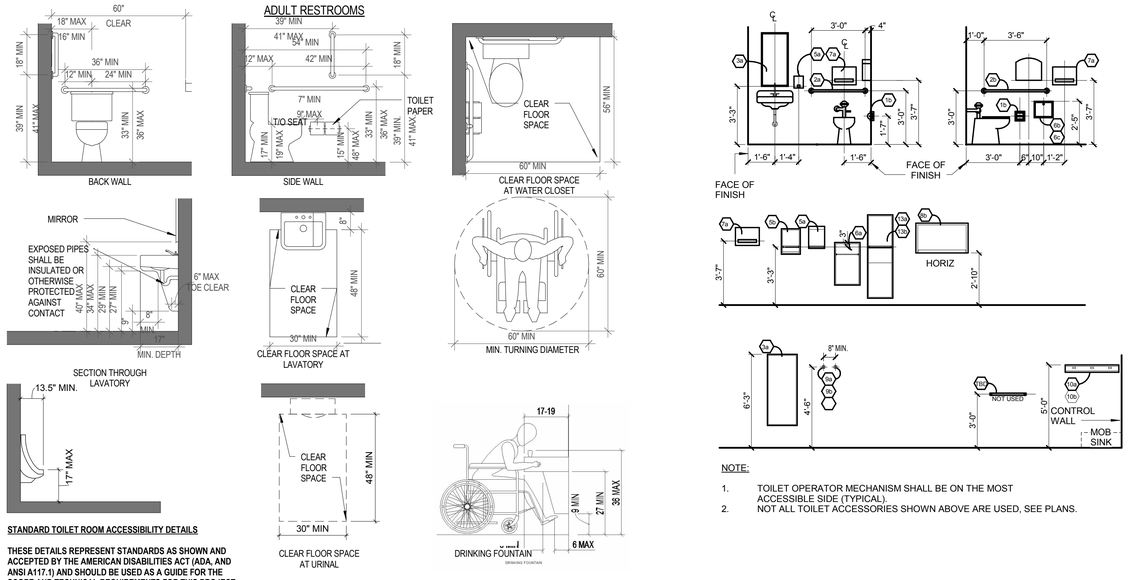
SCALE: 1/2" = 1'-0"

PROJECT NORTH

TOILET ACCESSORIES SCHEDULE...			
NUMBER	DESCRIPTION	CATAGORY #	REMARKS
1b	TOILET TISSUE DISPENSER - RECESSED MULTI-ROLL	BOBRICK B-4388	ROUGH OPENING (6-1/4" w x 11-1/4" h x 3-1/4" MIN. RECESS)
2a	GRAB BARS - 36" HORIZONTAL	BOBRICK B-6806X36	1 - 1/2" DIA. 36" LONG
2b	GRAB BARS - 42" HORIZONTAL	BOBRICK B-6806X42	1 - 1/2" DIA. 42" LONG
2c	GRAB BARS - 18" VERTICAL	BOBRICK B-6806X18	1 - 1/2" DIA. 18" TALL
3a	MIRROR - WELDED FRAME	BOBRICK B-290	AVAILABLE SIZES: 18x30, 18x36, 24x30, 24x36, 24x48, 24x60, and 24x72
5a	SOAP DISPENSER - SURFACE MOUNTED	OWNER STANDARDS	

RESTROOM AND BREAKROOM NOTES

1. WRAP AND INSULATE ALL EXPOSED PIPES TO MEET CODE.
2. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
3. ALL ACCESSORIES, UNLESS OTHERWISE INDICATED, SHALL BE STAINLESS STEEL BY *BRADLEY*, *BOBRICK* OR APPROVED EQUAL.
4. PROVIDE MANUALLY OPERATED FLUSH VALVES TO ALL TOILETS IN THE RESTROOMS; *SLOAN* OR APPROVED EQUAL.
5. ALL TOILETS AND SINKS SHALL BE FLOOR MOUNTED.
6. PROVIDE EXHAUST FANS DUCTED TO OUTSIDE AT ALL TOILET ROOMS.



STANDARD TOILET ROOM ACCESSIBILITY DETAILS

THESE DETAILS REPRESENT STANDARDS AS SHOWN AND ACCEPTED BY THE AMERICAN DISABILITIES ACT (ADA, AND ANSI A117.1) AND SHOULD BE USED AS A GUIDE FOR THE SCOPE AND TECHNICAL REQUIREMENTS FOR THIS PROJECT.

ADA DIAGRAM - GENERAL

3/8" = 1'-0"

NOTE:

1. TOILET OPERATOR MECHANISM SHALL BE ON THE MOST ACCESSIBLE SIDE (TYPICAL).
2. NOT ALL TOILET ACCESSORIES SHOWN ABOVE ARE USED, SEE PLANS.

TOILET EQUIPMENT LEGEND

SCALE: 1/4" = 1'-0"

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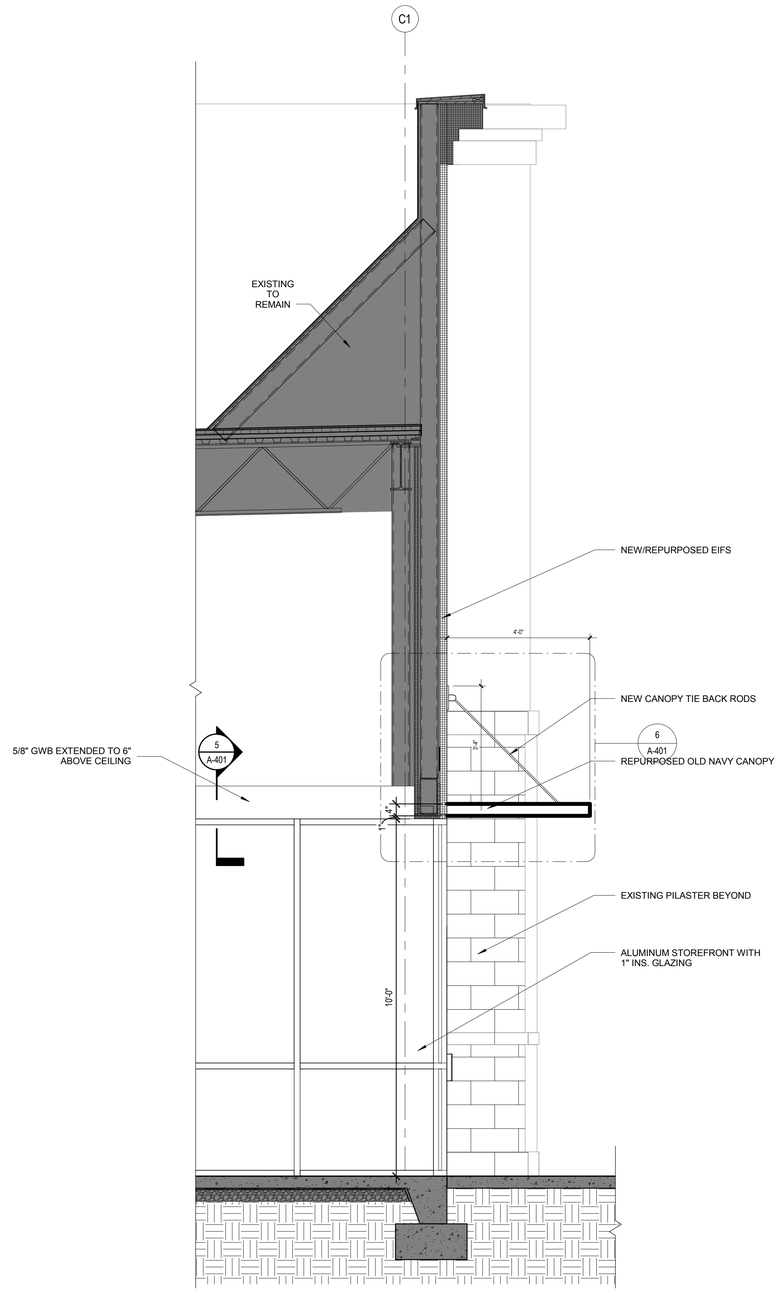
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ENLARGED PLANS

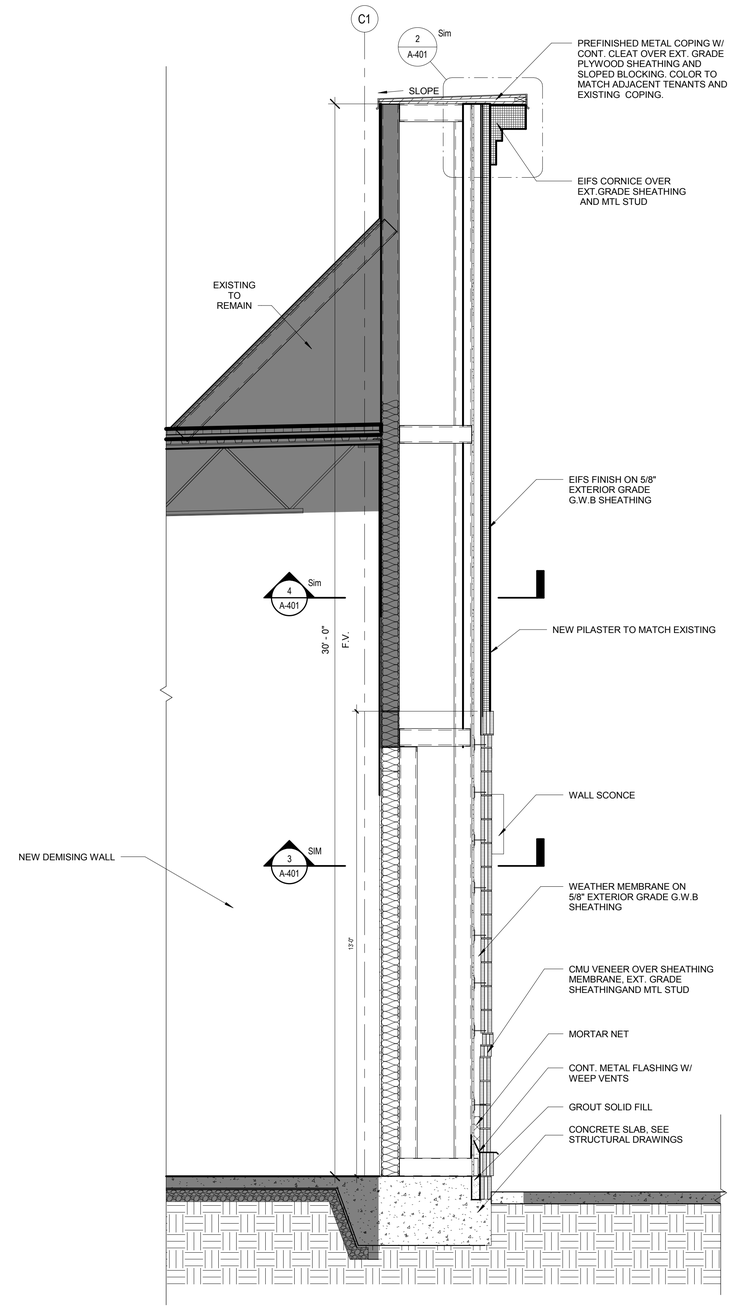
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1 A-301 SECTION @ ENTRY

SCALE: 1/2" = 1'-0"



2 A-301 SECTION @ PILASTER

SCALE: 1/2" = 1'-0"

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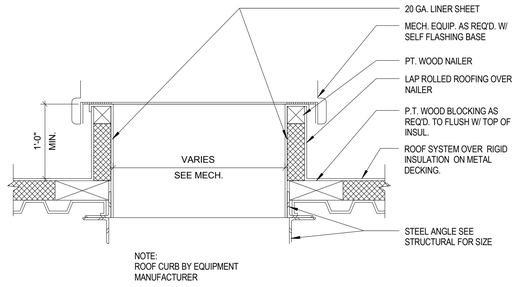
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Sheet Title
WALL SECTIONS

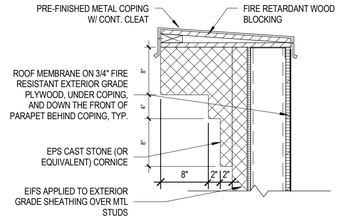
Sheet No.
A-301

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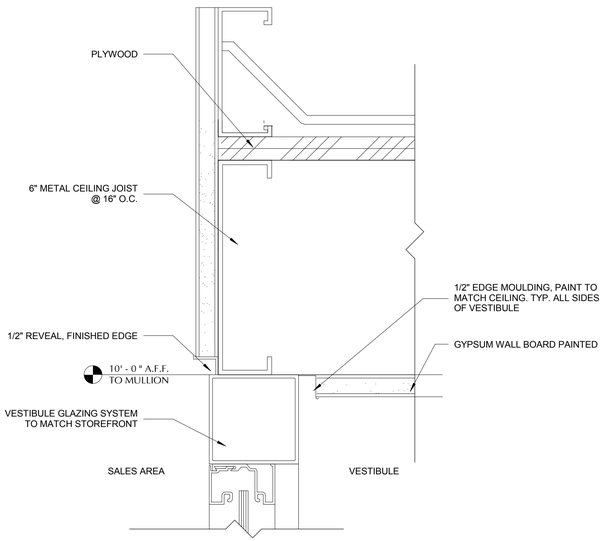
1 A-401 ROOF CURB DETAIL (TYP.)

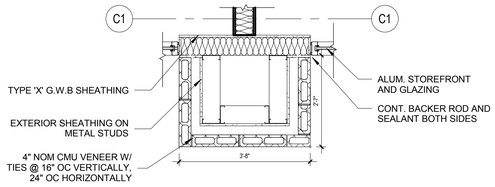
SCALE: 1/2" = 1'-0"



2 A-401 DETAIL @ CORNICE 'B'

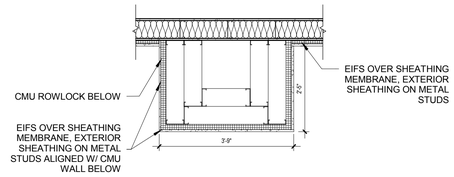
SCALE: 1" = 1'-0"





3 A-401 DETAIL @ PILASTER CMU

SCALE: 1/2" = 1'-0"

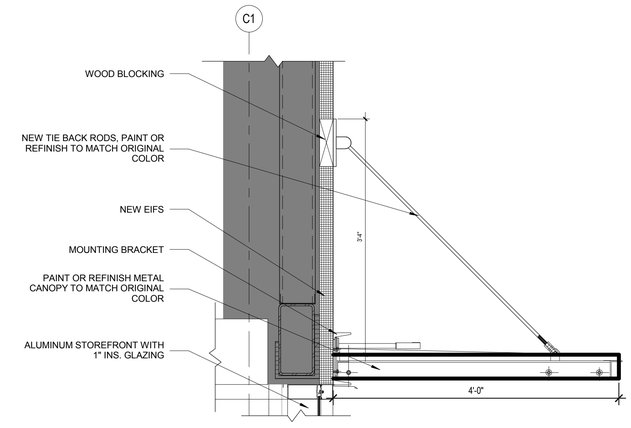


4 A-401 DETAIL @ PILASTER EIFS

SCALE: 1/2" = 1'-0"

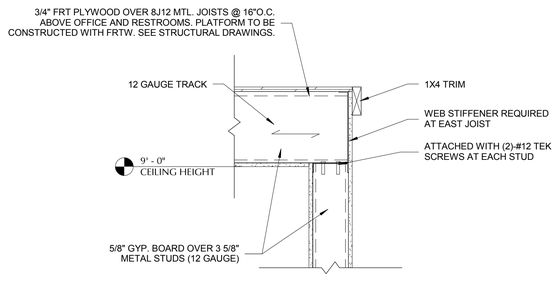
5 A-401 DETAIL @ VESTIBULE

SCALE: 6" = 1'-0"



6 A-401 DETAIL @ ENTRY CANOPY NEW

SCALE: 1" = 1'-0"



7 A-401 DETAIL @ PLYWOOD DECK

SCALE: 1" = 1'-0"

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Real Estate Investment - Development - Management

7401 ALCOA RD
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13 MARCH 2018	PERMIT SET

Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
ENLARGED SECTION DETAILS

Sheet No.
A-401

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DOOR SCHEDULE

MARK	DESCRIPTION	DOOR						FRAME					HARDWARE SET	REMARKS:
		TYPE	MATL.	FINISH	WIDTH	HEIGHT	THICK.	TYPE	MATL.	HEAD	JAMB	THRESH.		
100A	ENTRY	A	ALUMINUM	CLEAR ANODIZED	6' - 0"	6' - 10"	N/A	MANUF.	ALUMINUM	-	-	5/A-601	3	
100B	VESTIBULE	A	ALUMINUM	CLEAR ANODIZED	6' - 0"	7' - 0"	N/A	MANUF.	ALUMINUM	-	-	5/A-601	4	
102A	CORRIDOR	90	-	P-2	4' - 6"	7' - 0"	N/A	A	-	-	-	-	-	
103A	RESTROOM	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	A	H.M.	6/A-601	7/A-601	8/A-601	2A	
104A	RESTROOM	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	A	H.M.	6/A-601	7/A-601	8/A-601	2A	
105A	BREAK ROOM	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	A	H.M.	6/A-601	7/A-601	8/A-601	2C	
106A	STORAGE ROOM	41	H.M	P-2	3' - 0"	7' - 0"	1 3/4"	A	H.M.	6/A-601	7/A-601	8/A-601	1B	
107A	OFFICE	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	A	H.M.	6/A-601	7/A-601	8/A-601	2B	
200A	ENTRY	A	ALUMINUM	CLEAR ANODIZED	6' - 0"	7' - 0"	N/A	MANUF.	ALUMINUM	-	-	5/A-601	3	

GLAZING SCHEDULE

(A) 1/2" TEMPERED GLASS - CLEAR

GENERAL DOOR AND FRAME NOTES

1. THE DOOR FRAME FINISHES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   a. HOLLOW METAL DOORS: PAINT
   b. HOLLOW METAL FRAMES: PAINT
   c. WOOD DOORS: PAINT
   d. ALUMINUM DOORS (ALUM): FACTORY FINISH (FACTORY)
   e. ALUMINUM FRAMES (ALUM):FACTORY FINISH (FACTORY)
2. ALL DOOR HARDWARE SHALL BE HANDICAP ACCESSIBLE, COMPLYING WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
3. CONTRACTOR SHALL FIX AND RE-STAIN OR PAINT ANY EXISTING DAMAGED DOOR SURFACE.
4. WHERE DISCREPANCIES OCCUR BETWEEN THE DOOR SCHEDULED NOTES AND HARDWARE SPECIFICATIONS, NOTIFY THE ARCHITECT OF DISCREPANCIES TO RECEIVE DIRECTION ON HOW TO PROCEED.

HARDWARE SCHEDULE

HARDWARE GROUP A
SET 1A - SALES/CORRIDOR
SET 1B - CORRIDOR/STOCKROOM

CLOSER: NORTON #8501-HINGE SIDE MTD, (SET TO BE 5LB MAX OPENING FORCE) ADJUST MOUNTING POINTS FOR MIN. 120 DEGREE ROTATION.

HINGERS: HANGER AB850, 1-1/2 PAIR STAINLESS STELL MARKAR, ASS ABLOY HINGE #B1923, SUPPORT PIVOT, US2G.

PULL 1A: HANGER 4"X16" #31J
PULL PLATE W/#1J
PULL, STAINLESS #4 FINISHED METAL

PUSH 1A: HANGER 4.X16" #30S
PUSH PLATE STAINLESS #4 FINISHED METAL WITH STAINLESS #4 FINISHED METAL COUNTERSUNK SCREWS

LOCK 1B: KABA-E-PLEX 2000 SERIES WITH POWERSTART OPTION, 7-PIN BEST ACCEPTABLE CORE, STAIN CHROME FINISH, *USED ONLY ON CORRIDOR/ STOCKROOM DOOR WHEN EGRESS CORRIDORS ARE REQUIRED AND SHOWN ON PLAN.

STOP: IVES #445 WALL MTD. OR #446 FLOOR MTD. AS REQUIRED US265D.

KICK PLATE: 46" X 24" 16 GA. KICK PLATE. INSTALL WITH S.S. COUNTERSUNK SCREWS ON PUSH SIDE.

SILENCER: RESILIENT TYPE, REMOVABLE FOR REPLACEMENT, 3 EACH DOOR, MTD. IN FRAME.

SMOKE SEAL: PEMKO #588D (USED AT RATED DOORS ONLY)

FOOT: HOLD OPEN FOOD, HANGER 270D-US26D

HARDWARE GROUP B
SET 2A - RESTROOMS
SET 2B - OFFICE
SET 2C - BREAKROOM

HINGERS: HANGER AB850, 1-1/2 PAIR STAINLESS STELL

LOCK 2A: STANLEY MANUF. - BEST 9K3-O-L-15-STK-626 (26D)

LOCK 2B: STANLEY MANUF. - BEST 9K3-7-AB-15D-STK-626 (26D)

LOCK 2C: KABA-E-PLEX 2000 SERIES WITH POWERSTAR OPTION, 7-PIN BEST ACCEPTABLE CORE, SATIN CHROME FINISH

STOP: IVES #438 FLOOR MTD. WITH RISER AS REQUIRED US265D.

SILENCER: RESILIENT TYPE, REMOVABLE FOR REPLACEMENT, 3 EACH DOOR, MTD. IN FRAME.

HARDWARE GROUP C
SET 3 - ENTRY DOORS

CLOSER: NORTON #8501-H OR APPROVED EQUAL. ADJUST MOUNTING POINTS FOR MIN. 120 DEGREE ROTATION.

PULL: HANGER PULL #11E, 32D OR APPROVED EQUAL

PUSH: HANGER PUSH #130S, 32D OR APPROVED EQUAL

LOCK: 7-PIN BEST ACCEPTABLE CYLINDER WITH TEE TURN INSIDE AND EXTERIOR CYLINDER GUARD, MANJOR MANUF. #CGL-26D

FOOT: HOLD OPEN FOOD, HANER 270D-US26D. FINISH TO MATCH STOREFRONT

WEATHERING: PER MANUF. SPECS, INCLUDING FLOOR SWEEPS

CHAIN HOLD: HANGER - DOOR CHAIN - #300D-25 1/2" - US26D

THRESHOLD: 8" STANDARD MILL FINISHED THRESHOLD. T.G.C. TO CLEAN THRESHOLD PRIOR TO WALK-THROUGH.

HARDWARE GROUP D
SET 4 - VESTIBULE DOORS

CLOSER: NORTON #8501-H OR APPROVED EQUAL. ADJUST MOUNTING POINTS FOR MIN. 90 DEGREE ROTATION.

PULL: HANGER PULL #P4E, 32D OR APPROVED EQUAL

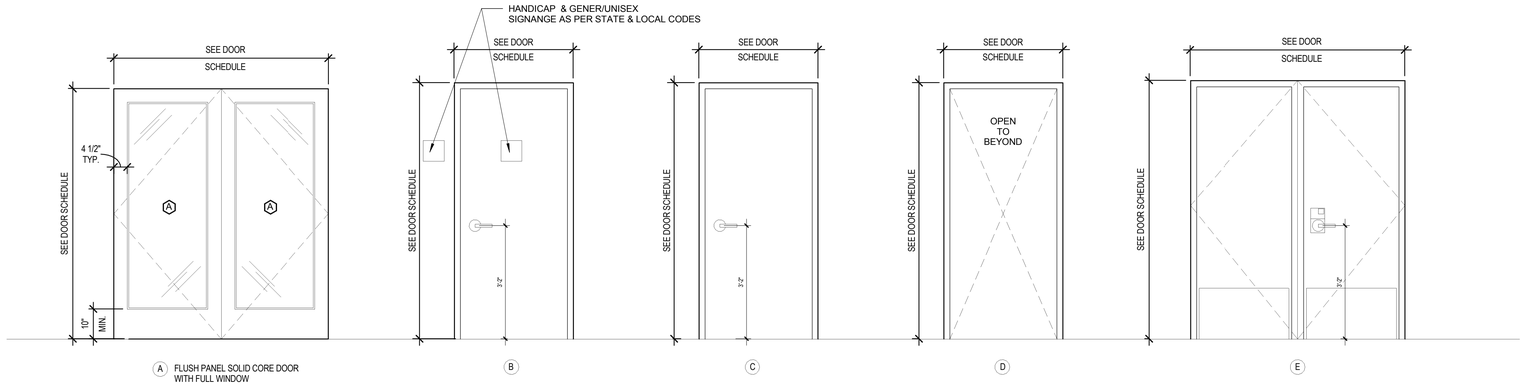
PUSH: HANGER PUSH #130S, 32D OR APPROVED EQUAL

LOCK: NO LOCKSET, INSTALL BLANKS

STOP: HANGER 268S - FINISH TO MATCH STOREFRONT

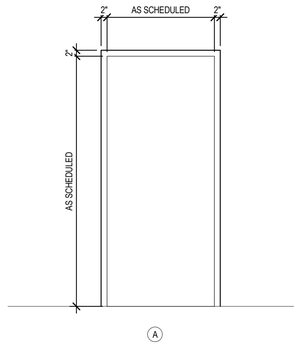
FOOT: HOLD OPEN FOOD, HANER 270D-US26D. FINISH TO MATCH STOREFRONT

THRESHOLD: NO THRESHOLD

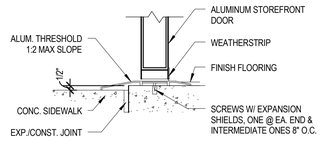


FLUSH PANEL SOLID CORE DOOR WITH FULL WINDOW

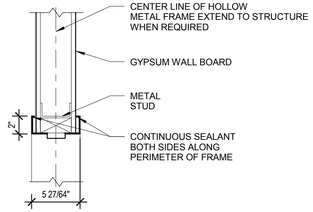
1 A-601 **DOOR TYPES** 1/2" = 1'-0"



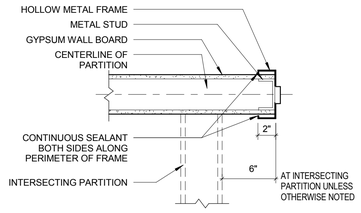
2 A-601 **FRAME TYPES** 1/2" = 1'-0"



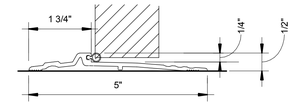
3 A-601 **DETAIL @ STOREFRONT THRESHOLD** SCALE: 1 1/2" = 1'-0"



4 A-601 **DETAIL @ INTERIOR HEAD** SCALE: 1 1/2" = 1'-0"



5 A-601 **DETAIL @ INTERIOR JAMB** SCALE: 1 1/2" = 1'-0"



6 A-601 **DETAIL @ INTERIOR THRESHOLD** SCALE: 6" = 1'-0"

GENERAL NOTES:

1. REFER TO SPECIFICATION FOR MORE STOREFRONT DETAILS.
2. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULES.
3. ● INDICATE TEMPERED GLASS

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Real Estate Investment · Development · Management

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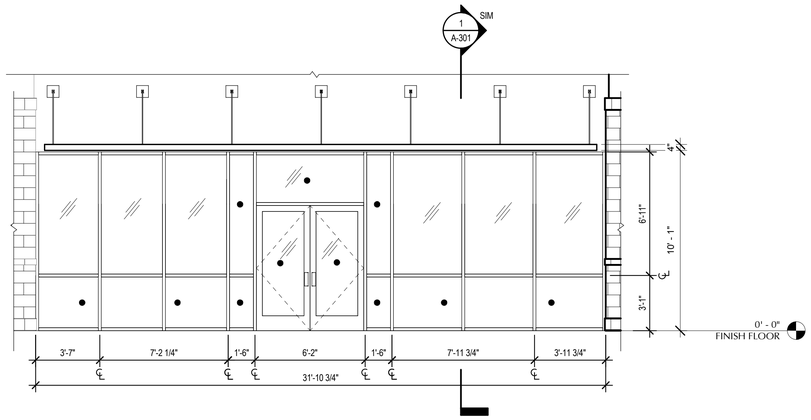
Revisions

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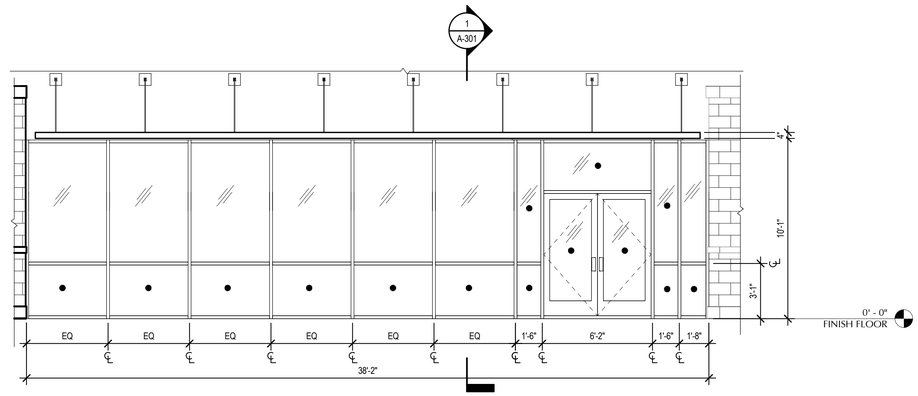
Sheet Title
DOOR SCHEDULE

Sheet No.
A-601

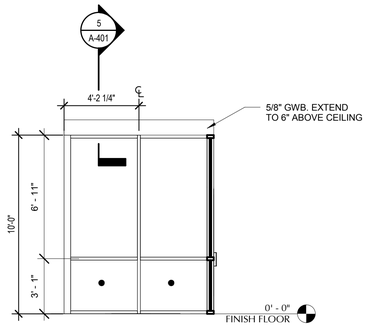
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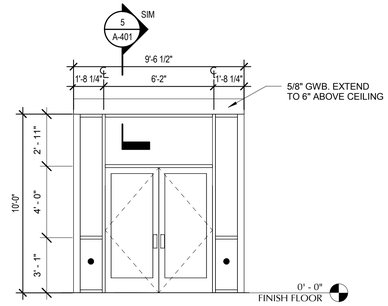
1 A-602 WINDOW TYPE "A"
SCALE: 1/4" = 1'-0"



2 A-602 WINDOW TYPE "B"
SCALE: 1/4" = 1'-0"



3 A-602 WINDOW TYPE "C"
SCALE: 1/4" = 1'-0"



4 A-602 WINDOW TYPE "D"
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SPECIFICATION FOR MORE STOREFRONT DETAILS.
2. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULES.
3. ● INDICATE TEMPERED GLASS

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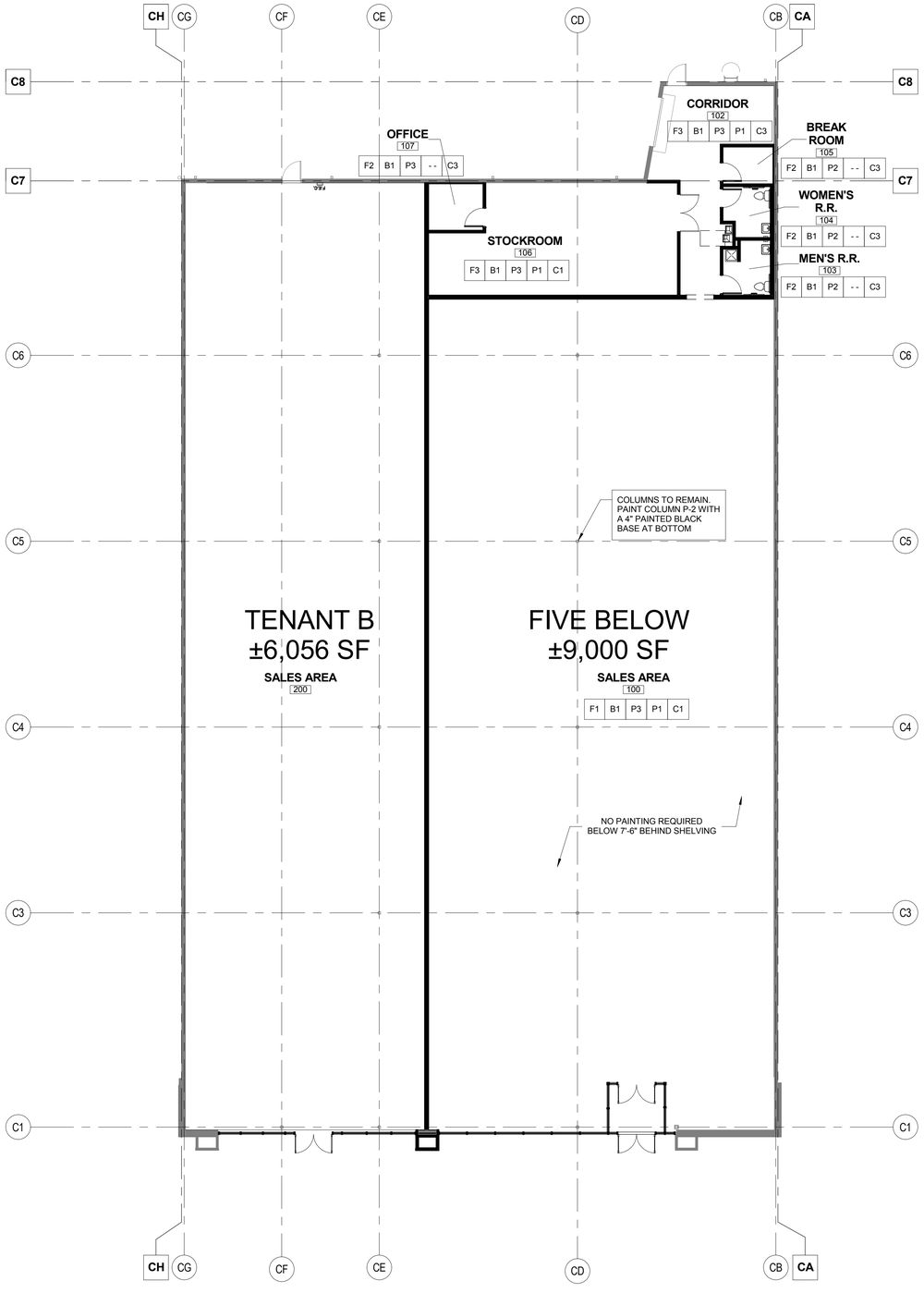
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
GLAZING ELEVATION

Sheet No.
A-602

■ Released for Construction
□ Not Released for Construction



1 A-701 FINISH PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. REFER TO SPECIFICATION FOR MORE STOREFRONT DETAILS.
2. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULES.
3. ● INDICATE TEMPERED GLASS

LEGEND - FINISH

KEY	DESCRIPTION	MANUFACTURER	SPEC/FINISH	COLOR
B-1	4" VINYL BASE	ARMSTRONG	JET BLACK	V4860
C-1	MTL/WOOD DECK - OPEN TO JOISTS ABOVE - NO HUNG CEILING	SHERWIN WILLIAMS	WATERBORNE DRYFALL LOW VOC - FLAT SHEEN	SW-7005
C-2	24" X 48" ACOUSTIC CEILING SYSTEM	ARMSTRONG	CORTEGA	747
C-3	GYPSUM BOARD CEILING LEVEL 5 FINISH	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC SEMI GLOSS SHEEN	SW-7005
F-1	POLISHED CONCRETE OVER (E) CONCRETE SLAB	QUESTMARK CONC. POLISHING SYSTEM	SLAES AREA & CORRIDOR AREA	N/A
F-2	12" X 12" X 1/8" VCT	ARMSTRONG	FIELD GRAY / S515, S-515 ADHESIVE	51927
F-3	POLISHED CONCRETE OVER (E) CONCRETE SLAB	QUESTMARK CONC. POLISHING SYSTEM	STOCK ROOM AREA	N/A
F-4	18" X 18" X 1/8" LUXURY VINYL FLOORING	TANDUS CENTIVA	CONTOUR SOAPSTONE	0712
F-5	6" X 82.5" X 1/16" INLAID SHEET VINYL FLOORING	ARMSTRONG DECO ART - CORLON	WHITE CLIFFS S-543 ADHESIVE	88702
F-6	12" X 12" X 5/16" CERAMIC TILE 1/4" GROUT JOINTS	TILE - DELTILE, GROUT - MAPEI	TILE - VANILLA, GROUT - ALABASTER	QH23 (1)
P-1	PURE WHITE PAINT - CEILING	SHERWIN WILLIAMS	WATERBORNE DRYFALL LOW VOC - FLAT SHEEN	SW-7005
P-2	PURE WHITE PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC SEMI GLOSS SHEEN	SW-7005
P-3	PURE WHITE PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC EGG-SHELL SHEEN	SW-7005
W-1	WALLPAPER (PROVIDED BY F.B.)	VISION INTEGRATED GRAPHICS	CUSTOM	

FINISH PLAN GENERAL NOTES:

1. NO DIFFERENCE IN FLOOR ELEVATION FROM INTERIOR TO EXTERIOR AT ALL DOORWAYS. TRANSITION TO BE FLUSH.
2. T.G.C. TO VERIFY AND COORDINATE WITH FIVE BELOW REP THAT ANY ALL L.L. SUPPLIED ITEMS ARE INSTALLED TO FIVE BELOW'S APPROVAL.
3. T.G.C. TO VERIFY ALL HVAC AND ELECTRICAL EQUIPMENT PROVIDED BY L.L. IS PER PLANS, U.N.O.
4. ALL PAINT USED MUST BE FROM SHERWIN WILLIAMS AND MATCH THE FIVE BELOW'S PROCESS AND RECOMMENDED PRIMER SPECIFICATIONS.
5. PROVIDED COLOR SWATCHES ON SITE TO ENSURE THAT THE PAINT IS PURCHASED MATCHES THE COLORS.
6. PATCH AND REPAIR ALL WALLS AS NEEDED TO BE READY FOR PAINT.
7. ALL EXISTING OUTLETS TO REMAIN.
8. NO PAINTING IS REQUIRED BELOW 7'-6" FOR AREAS BEHIND SHELVING IN THE SALES AREA.

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Sheet Title
FINISH PLAN

Sheet No.
A-701

■ Released for Construction
□ Not Released for Construction

DESIGN:

BUILDING CODE: INTERNATIONAL BUILDING CODE 2012 (IBC) W/ ARKANSAS AMENDMENTS

WIND:

Vult = 115 MPH (3-SECOND GUST)
Iw = 1.0, EXPOSURE CATEGORY B
COMPONENTS AND CLADDING: COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2012 FOR THE TRIBUTARY AREA OF THE SPECIFIC COMPONENT.

MIN ULT DESIGN PRESSURE = 23.0 PSF (WALLS, 100 SQ FT, NON-END ZONE)

SNOW:

GROUND SNOW LOAD = 10 PSF
Is = 1.0
FLAT ROOF SNOW LOAD = 10 PSF
SNOW EXPOSURE FACTOR Ce = 1.0 SNOW THERMAL FACTOR Ct = 1.0

SEISMIC:

OCCUPANCY CATEGORY II
Ie = 1.0 Ip = 1.0
Ss = 0.343 S1 = 0.145
Sds = 0.349 Sd1 = 0.215
SITE CLASS = D SEISMIC DESIGN CATEGORY = D
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SEISMIC RESISTING SYSTEM:

SEISMIC LOAD RESISTING SYSTEM IS REMAINING UNCHANGED

DRAWING LIST:

S-001 STRUCTURAL NOTES
S-101 FOUNDATION & ROOF FRAMING PLAN
S-301 TYPICAL SECTIONS AND DETAILS

MISCELLANEOUS:

1. THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS. THIS INCLUDES THESE DRAWINGS, FIELD SKETCHES AND RESPONSES TO REQUESTS FOR INFORMATION (RFIS), UNLESS OTHERWISE INDICATED.
2. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
3. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY BRACING AND SHORING THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. APPLIED CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF ANY STRUCTURAL BUILDING ELEMENT.
6. THE CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION LIFECYCLE.
7. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS, FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
8. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
9. WHERE A SECTION OR DETAIL IS CUT ON THE PLAN, IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
10. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECTS OR ENGINEERS PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTORS MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA REGULATIONS.
11. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
12. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN WRITING OF ALL CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
13. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
14. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
15. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
16. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. OPENINGS 1'-4" IN WIDTH OR LENGTH (AND LESS) ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ALL REQUIRED OPENINGS. ALL MECHANICAL OPENING LOCATIONS, UNIT OPERATING WEIGHTS, AND SIZES SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

SUBMITTALS:

1. STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS AS INDICATED IN THE PROJECT DOCUMENTS.
2. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
3. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) TIMBER ROOF TRUSSES. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS.
4. ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.
5. REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT PERMITTED.

FOUNDATIONS:

1. SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 1.5 KSF FOR STRIP FOOTINGS.
2. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH CIVIL DRAWINGS AND PROJECT SPECIFICATIONS. A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED ON THIS SITE PRIOR TO THE ISSUANCE OF THESE DRAWINGS. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ENGINEER.
3. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NONEXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS (AS RECOMMENDED BY A QUALIFIED GEOTECHNICAL ENGINEER).
4. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
6. IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT AT THIS SITE AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER. ROCKS GREATER THAN 6 IN. SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE COMPACTED TO AT LEAST 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD COMPACTION TEST (ASTM D698). THE UPPER 12" OF FILL BENEATH STRUCTURAL AREAS SHOULD BE COMPACTED TO 98% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD COMPACTION TEST (ASTM D698). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY TO ENSURE COMPLIANCE.
7. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF AN INDEPENDENT TESTING AGENCY PRIOR TO CASTING OF THE CONCRETE.
8. ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.
9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION.
10. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
11. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

CONCRETE:

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-11 AND ACI 301-10.
2. CEMENT USED SHALL BE TYPE I OR II CONFORMING TO ASTM C-150. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY STRENGTH AND DENSITY AS FOLLOWS:

	STRENGTH (PSI)	DENSITY (PCF)
FOOTINGS/SLAB	3000	145 - 150

3. AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING:

FOOTINGS, SLAB-ON-GRADE (DENSITY 145 - 150 PCF)	1" COARSE AGGREGATE (ASTM C-33)

4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS. RESULTS OF ALL COMPRESSIVE STRENGTH TEST SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.
5. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
6. NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.
7. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE.
   A. #11 BARS AND SMALLER 3/4 INCHES
   B. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 INCHES
   C. BASEMENT WALLS: 2 INCHES EXTERIOR
      3/4 INCHES INTERIOR
   D. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
      #6 BARS AND LARGER 2 INCHES
      #5 BARS AND SMALLER 1 1/2 INCHES
   E. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
      BEAMS, GIRDERS AND COLUMNS: 1 1/2 INCHES
      SLABS, WALLS, AND JOISTS: 3/4 INCHES
8. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-11.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS.
10. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
11. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
12. REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE.
13. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITION.
14. ALL 'CONTINUOUS' REINFORCEMENT SHALL HAVE MINIMUM LAP OF 'B' TYPE (ACI 318-11, SECTION 12.15.1) AT SPLICES UNLESS NOTED OTHERWISE.
15. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
16. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI 'MANUAL OF STANDARD PRACTICE' (27TH EDITION).
17. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE.

COLD FORM METAL FRAMING (METAL STUDS):

1. METAL STUDS SHALL BE FABRICATED AND ERECTED PER 2007 AISI 'NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS'.
2. UNLESS NOTED OTHERWISE, TRACKS SHALL BE SAME DEPTH AS STUDS AND EQUAL OR THICKER GAUGE THAN STUDS. TRACKS SHALL BE CONNECTED TO SUPPORTS AT 16" OC MAX.
3. ALL 43 MIL MATERIAL (AND LESS) SHALL HAVE A MINIMUM YIELD OF 33,000 PSI (UNLESS NOTED OTHERWISE). ALL 54 MIL MATERIAL (AND GREATER) SHALL HAVE A MINIMUM YIELD OF 50,000 PSI (UNLESS NOTED OTHERWISE).
4. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING:
   A. SHOP DRAWINGS FOR ALL COMPONENTS AND INSTALLATIONS NOT FULLY DIMENSIONED OR DETAILED IN MANUFACTURER'S PRODUCT DATA.
   B. PRODUCT CATALOG WITH SECTION AND MATERIAL PROPERTIES OF ALL MATERIAL.
5. ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A HOT-DIPPED, GALVANIZED COATING MEETING ASTM A653 G60 AND C955, U.N.O.
6. INSTALLATION:
   A. TRACKS:
      INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. PROVIDE FASTENERS AT CORNERS AND END OF TRACKS. ALL TRACK BUTT JOINTS SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT WELDED OR SPLICED TOGETHER.
   B. WALL STUDS:
      SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES. ATTACH STUDS WITH SLIP-TRACK CONNECTION TO UNDERSIDE OF BEAMS TO ALLOW 1" VERTICAL DEFLECTION OF STEEL BEAM (NOT APPLICABLE IN LOAD BEARING APPLICATIONS). AT LOAD BEARING APPLICATIONS, SLIP-TRACK CONNECTION SHALL ACCOMMODATE A DEFLECTION OF BEAM SPAN DIVIDED BY 240.
   C. SUPPLEMENTARY FRAMING:
      PROVIDE BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALL OR PARTITIONS ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICE CASEWORK, HEAVY TRIM AND FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO THE WALL OR PARTITION. WHERE TYPE OF SUPPLEMENTARY SUPPORT IS NOT OTHERWISE INDICATED, COMPLY WITH STUD MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS IN EACH CASE, CONSIDERING WEIGHT OR LOADING RESULTING FROM ITEM SUPPORTED.
   D. WALL OPENINGS:
      OPENINGS LARGER THAN 2 FEET SQUARE TO BE FRAMED WITH A MINIMUM OF DOUBLE STUDS AT EACH JAMB OR FRAME EXCEPT WHERE MORE ARE REQUIRED.
   E. ALL MEMBERS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO SUPPORTING MEMBERS.
7. ALL SCREWS SHALL BE NON CORROSIVE NO. 12-14 STANDARD SELF DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).
8. ALL SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF 1" UNLESS NOTED OTHERWISE ON DRAWINGS.
9. ALL SCREWS SHALL BE A MINIMUM OF 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS.
10. ALL METAL STUD WALLS SHALL HAVE WALL CONTINUOUS WALL BRIDGING @ 3'-6" OC MAXIMUM. CONTINUOUS BRIDGING MAY CONSIST OF 1 1/2" - 33 MIL STRAPS (2 1/2" - 43 MIL AT WALLS USED AS SHEAR WALLS OR WALLS WITH 'X' STRAP BRACING), AS AN ALTERNATE TO STRAP BRIDGING, FOR 3 5/8" OR 4" STUDS ONLY, PROVIDE 1 1/2" CRC CHANNEL BRIDGING (150-U50-54) AT THE CENTERLINE OF STUDS WITH (2) #8 SCREWS PER ANGLE FLANGE.
11. CONTINUOUS STUDS EACH SIDE OF HEADERS SHALL BE EQUAL TO THE NUMBER OF THE INTERRUPTED STUDS PLUS ONE STUD AT EACH SIDE. USE MINIMUM OF TWO (2) STUDS EACH SIDE.
12. VOIDS BENEATH WALL TRACK SHALL NOT BE PERMITTED. WHERE UNEVENNESS OR SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK.
13. MINIMUM TRACK FASTENING INTO CONCRETE SHALL BE 0.145" DIAMETER POWDER ACTUATED FASTENERS AT 18" OC (UNO) WITH 3/4" PENETRATION INTO CONCRETE.

STRUCTURAL STEEL:

DESIGN CODE:
AMERICAN INSTITUTE OF STEEL CONSTRUCTION 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - 14TH EDITION (AISC)

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL CHANNELS, ANGLES, PLATES, ETC. (UNO)	ASTM A36 (Fy=36ksi)
HIGH STRENGTH BOLTS	ASTM A325
HEX NUTS - GRADE A	ASTM A563
WELDING ELECTRODES	ETXX HARDENED STEEL
WASHERS - TYPE I	ASTM F436

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (2010) EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
3. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN ONLY AS THEY ARE DEEMED APPROPRIATE AND ADEQUATE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC 14TH EDITION 'SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS'.
4. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
5. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
6. FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP.
7. UNLESS OTHERWISE SHOWN ON DRAWINGS, SIZE OF WELDS SHALL NOT BE SMALLER THAN 3/16". ALL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
8. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
9. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
11. WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.
12. ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER.

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FIVE BELOW

A DEVELOPMENT BY:

Hall Equities Group
Real Estate Investment - Development - Management

7401 ALCOA RD
BRYANT, AR 72022

Print Record

13 MARCH 2018	PERMIT SET

Revisions

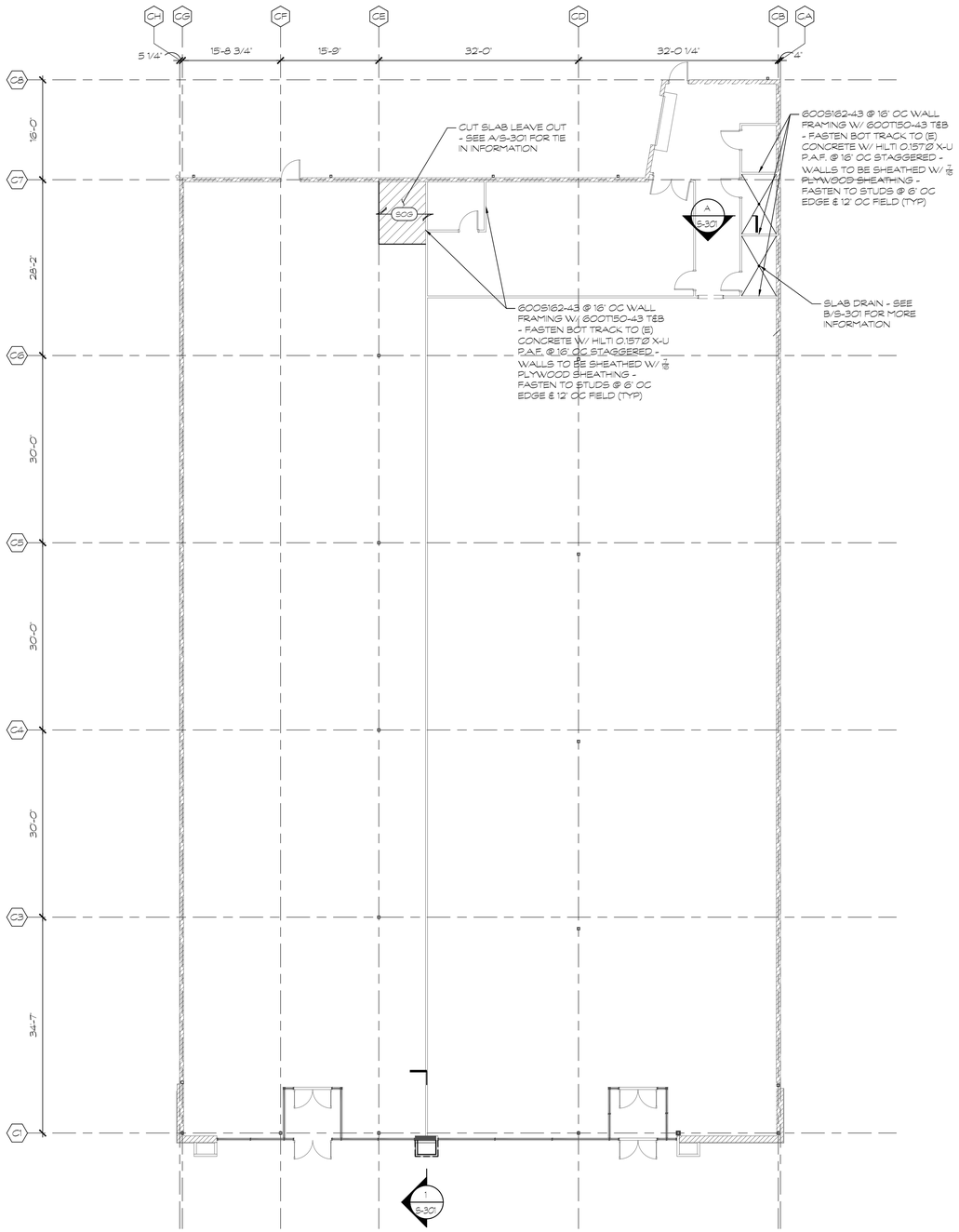
Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
STRUCTURAL NOTES

Sheet No.
S-001

■ Released for Construction
☐ Not Released for Construction

ARKANSAS PROFESSIONAL ENGINEER No. 14404 WILLIAM J. PEELER 3/13/18



1 S-101 FOUNDATION PLAN

SCALE: 3/32" = 1'-0"

FOUNDATION NOTES:

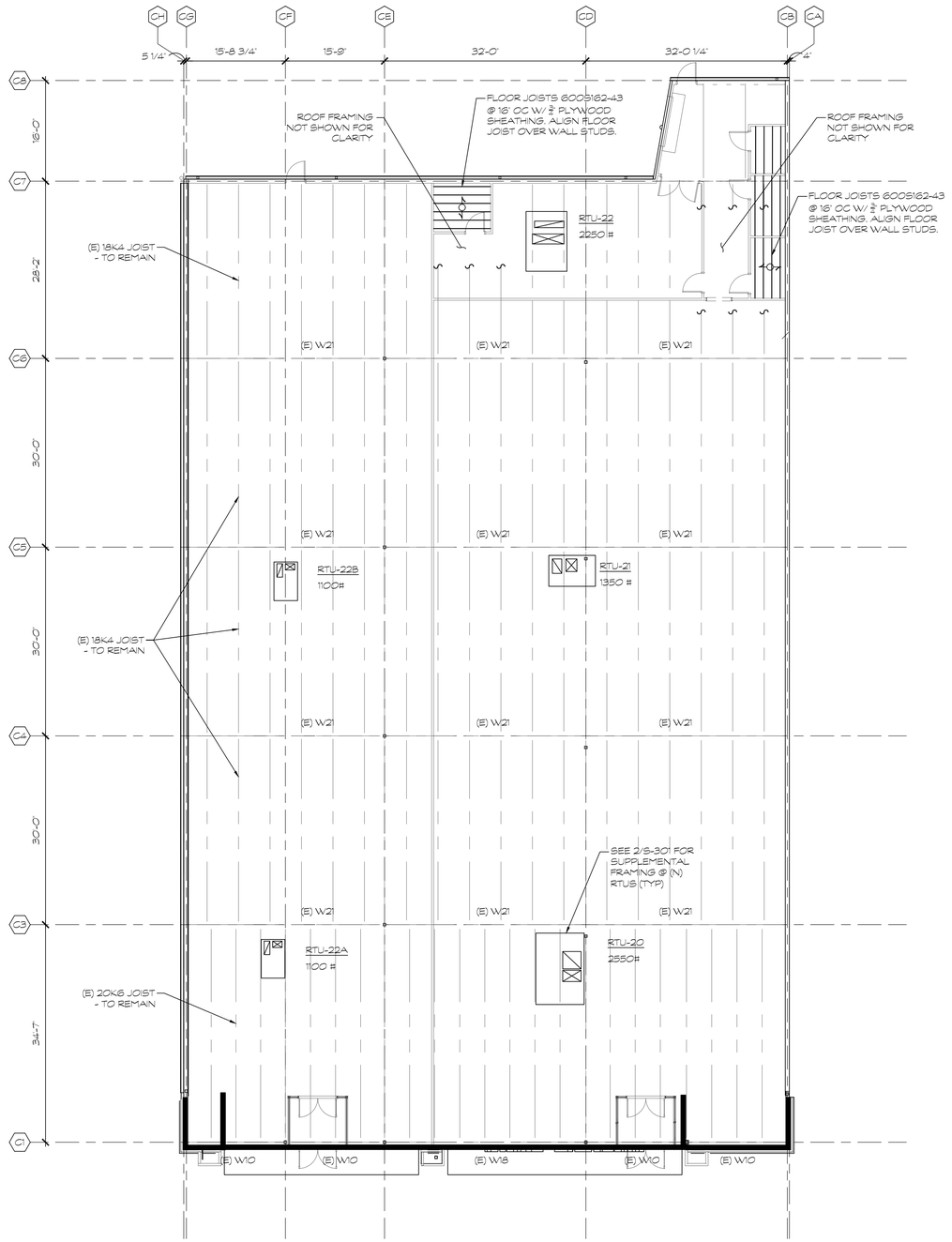
1. (N) INDICATES NEW
2. (E) INDICATES EXISTING
3. SOG SLAB ON GRADE SHALL BE 4" CONC SLAB (3000 PSI) ON 10 MIL (MIN.) VAPOR RETARDER ON 4" GAB. (GRADED AGGREGATE BASE) W/(1) LAYER 6x6-W1.4x1.4 WWF 1" FROM TOP OF SLAB, UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE (SEE B/S-301).
4. ⊕ INDICATES FLOOR DRAIN - SEE ARCH AND PLUMBING FOR LOCATION AND ADDITIONAL INFORMATION.

NOTICE TO CONTRACTOR:

NO PRIOR GEOTECHNICAL INVESTIGATION WAS PERFORMED PRIOR TO THE ISSUANCE OF THE DRAWINGS. THE STRUCTURAL ENGINEER OF RECORD (SEOR) HAS MADE ASSUMPTIONS REGARDING THE EXISTING SOIL PARAMETERS BASED ON THE LIMITED SITE INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE ISSUED. THE DESIGN ASSUMES AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AND ASSUMES SLAB ON GRADE AND FOUNDATIONS ARE GEOTECHNICALLY VIABLE FOR THIS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL ASSUMPTIONS AS STATED ABOVE AND NOTIFYING THE SEOR OF ANY VARIANCES FROM THESE ASSUMPTIONS.

EXISTING CONDITIONS DISCLAIMER:

1. ASSUMPTIONS ON THE EXISTING STRUCTURE (NOTED AS '(E)' ON THE STRUCTURAL DRAWINGS) MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO ENECUTING WORK INCLUDED IN THIS SCOPE OF STRUCTURAL CONTRACT DOCUMENTS. THESE VERIFICATIONS MAY REQUIRE THE ALTERATION, DAMAGE, OR DESTRUCTION OF DESIRABLE OR OTHERWISE SERVICEABLE BUILDING COMPONENTS. ALTERATION, DAMAGE, OR DESTRUCTION OF SAID COMPONENTS SHALL NOT CONSTITUTE A BASIS OF CLAIMS AGAINST WILLIAM J. PELTIER AND ASSOCIATES. THE OWNER AND GENERAL CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS WILLIAM J. PELTIER AND ASSOCIATES FROM ALL SUCH CLAIMS. DISCOVERY OF VARIATIONS FROM THESE ASSUMPTIONS MAY REQUIRE ADDITIONAL DESIGN SERVICES BY WILLIAM J. PELTIER AND ASSOCIATES WHICH WILL BE BILLED AT THE HOURLY RATE PER RATE SCHEDULE INCLUDED IN THE CONTRACT.
2. THE GENERAL CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN ASSUMPTIONS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT/ENGINEER.



2 S-101 ROOF FRAMING PLAN

SCALE: 3/32" = 1'-0"

NOTES:

1. (E) INDICATES EXISTING.
2. (N) INDICATES NEW.
3. SEE 1-4/S-301 FOR REQUIRED TYPICAL ROOF TOP RTU SUPPORT SUPPLEMENTAL FRAMING.
4. 4O7 INDICATES 3/4" PLYWOOD DECK - FASTEN TO FLOOR FRAMING @ 6" OC EDGE & 12" OC FIELD W/ #10 TEK SCREWS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER WILLIAM J. PELTIER No. 14464 3/13/18

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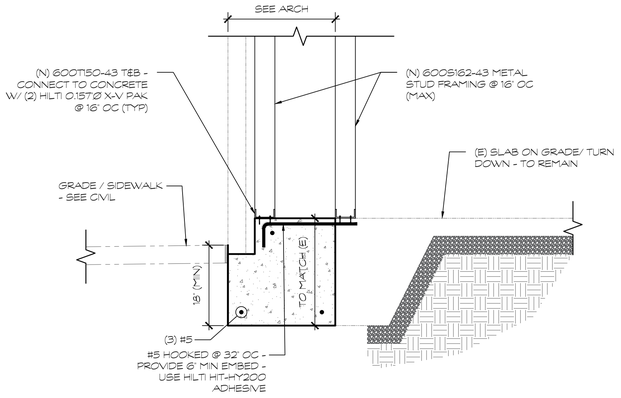
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

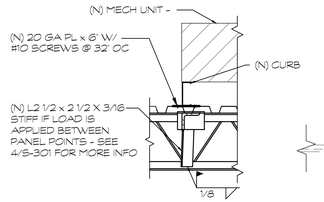
Sheet Title
FOUNDATION AND ROOF FRAMING PLAN

Sheet No.
S-101

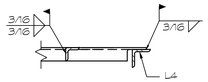
■ Released for Construction
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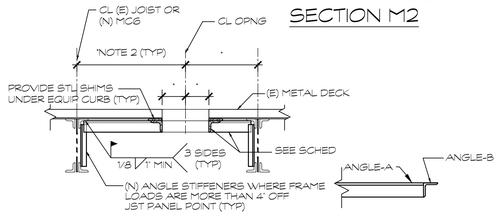
1 / S3.1 — 3000 PSI CONCRETE PILASTER EXTENSION
SCALE: 3/4" = 1'-0"



SECTION M1



SECTION M2

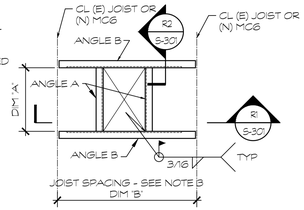


SECTION R1

SECTION R2

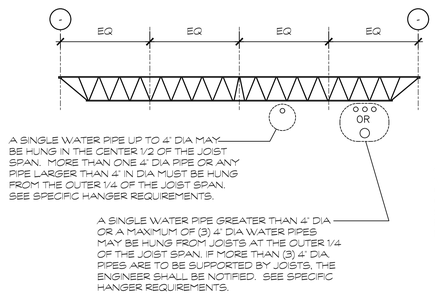
NOTES:
1. FRAMED OPENINGS REQUIRED IN ROOF FOR ALL OPENINGS GREATER THAN 6" OR SUPPORTING EQUIPMENT GREATER THAN 100 POUNDS.
2. COORDINATE TYPE & SIZE OF OPENING REQUIRED WITH EQUIPMENT MANUFACTURER.
3. EXISTING JOIST SPACING IS (+/-) 5-6". GC TO VERIFY JOIST SPACING AT EACH NEW MECHANICAL EQUIPMENT LOCATION.
4. WHEN JOIST BRIDGING INTERFERES WITH ROOF OPENING, STOP BRIDGING AT EACH SIDE OF OPENING AND REPLACE WITH ONE RUN OF 'X' BRIDGING EACH SIDE OF THE OPENING AND EXTEND ADDITIONAL 'X' BRIDGING ONE JOIST SPACE IN EACH DIRECTION.

ROOF OPENING FRAME SCHEDULE FOR ANGLE FRAMING			
DIM 'A'	ANGLE A	DIM 'B'	ANGLE B
2'-0"	L3x3x3/16	4'-0"	L3x3x3/16
3'-0"	L3x3x3/16	5'-0"	L3x3x1/4
4'-0"	L3x3x3/16	6'-0"	L3 1/2 x 3 1/2 x 1/4

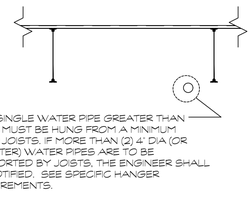


TYPICAL FRAMED ROOF OPENING
(WITH FRAME BELOW DECK)

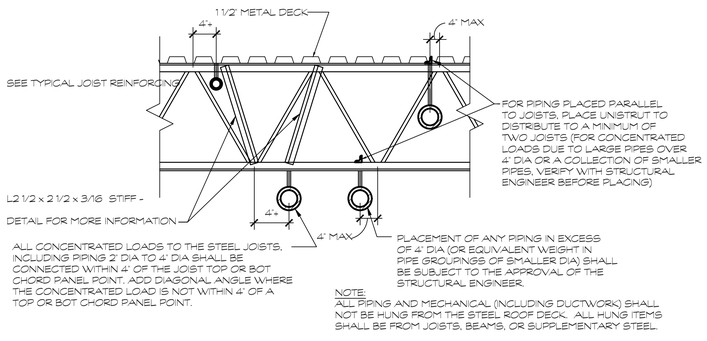
2 / S-301 — TYP MECHANICAL UNIT SUPPORT FRAMING DETAILS
SCALE: NTS



PERPENDICULAR TO JOISTS



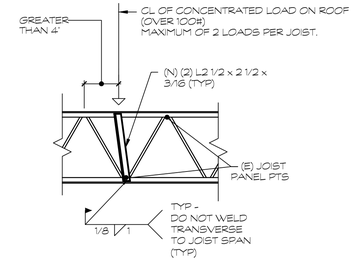
PARALLEL TO JOISTS



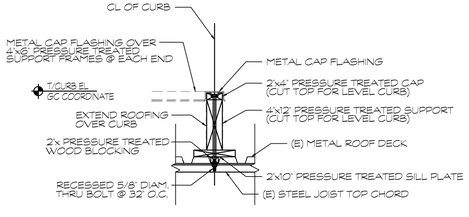
NOTE:
ALL PIPING AND MECHANICAL (INCLUDING DUCTWORK) SHALL NOT BE HUNG FROM THE STEEL ROOF DECK. ALL HUNG ITEMS SHALL BE FROM JOISTS, BEAMS, OR SUPPLEMENTARY STEEL.

SPECIFIC HANGER REQUIREMENTS

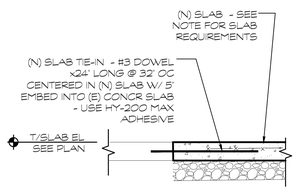
3 / S-301 — TYP DETAILS OF PIPES SUPPORTED BY JOISTS
SCALE: NTS



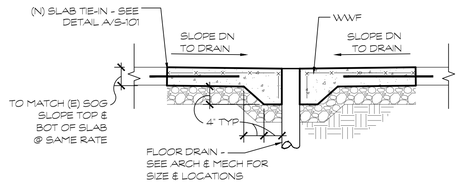
4 / S-301 — TYP JOIST REINFORCING DETAIL
SCALE: NTS



5 / S-301 — TYP EQUIPMENT CURB DETAIL
SCALE: NTS



A / S-301 — (N) SLAB/(E) SLAB INTERFACE DETAIL
SCALE: 3/4"=1'-0"



B / S-301 — FLOOR SLAB DRAIN DETAIL
SCALE: 3/4"=1'-0"

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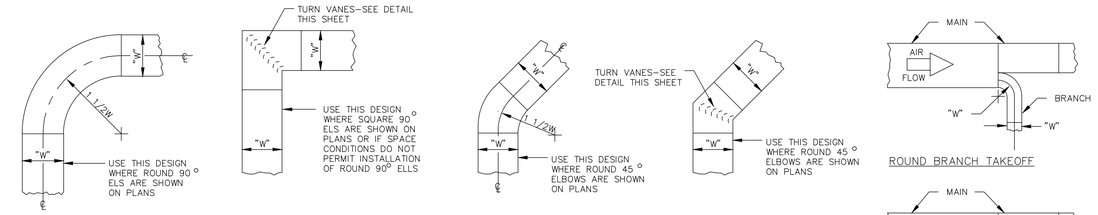
Date	Project No.
13 MARCH 2018	2017259.00

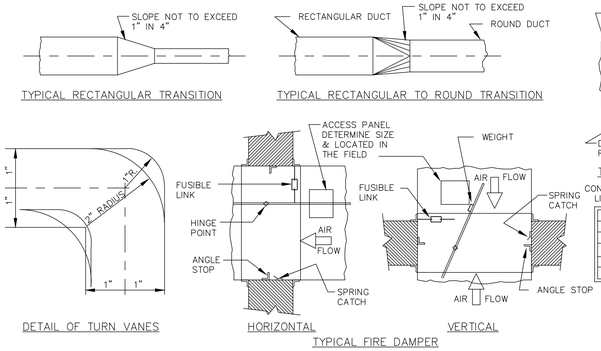
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TYPICAL SECTIONS AND DETAILS

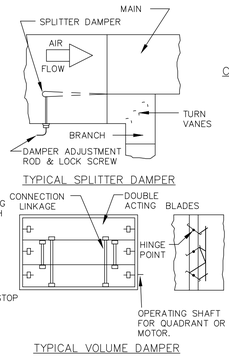
Sheet No.
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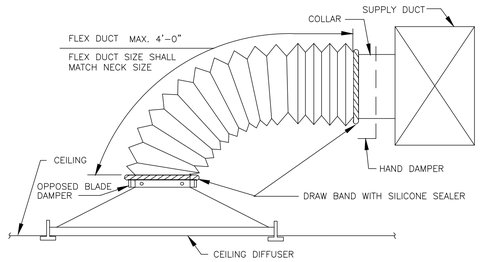


INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

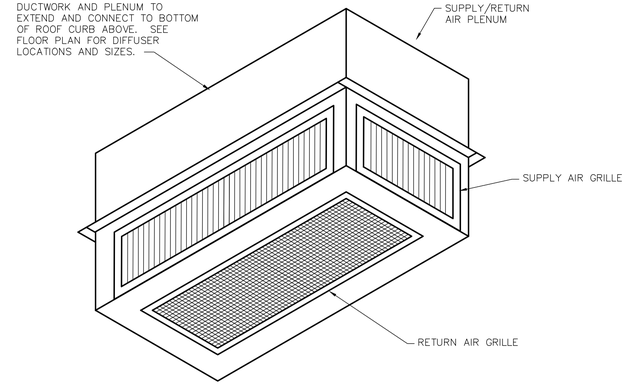
1 M-001 DETAILS OF THE LOW VELOCITY DUCT LAYOUT

SCALE: N.T.S.



2 M-001 TYPICAL DIFFUSER CONNECTION

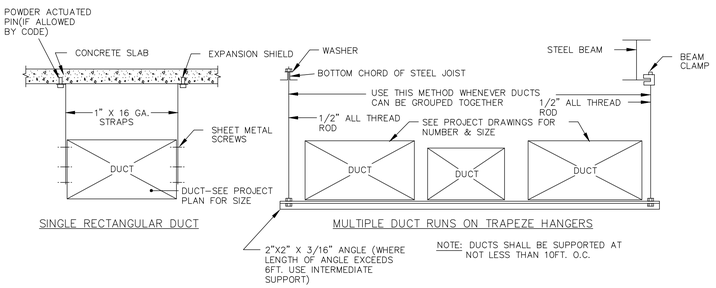
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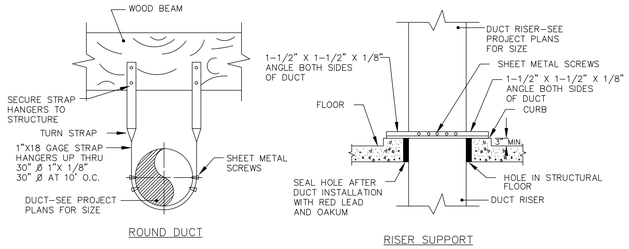


LAYOUT BASIS:
RUSKIN CDS SERIES

3 M-001 CONCENTRIC DIFFUSER DETAIL

SCALE: N.T.S.

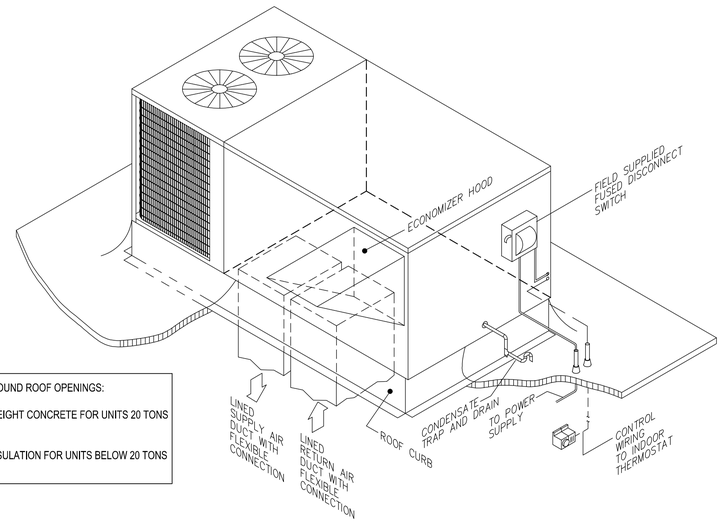




HANGAR AND SUPPORT DETAILS FOR LOW PRESSURE DUCTWORK

4 M-001

SCALE: N.T.S.



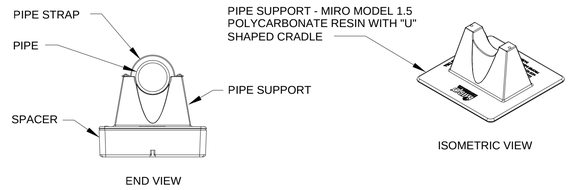
FILL CURB AROUND ROOF OPENINGS:

WITH LIGHTWEIGHT CONCRETE FOR UNITS 20 TONS AND ABOVE

WITH BATT INSULATION FOR UNITS BELOW 20 TONS

5 M-001 ROOFTOP PACKAGED HVAC UNIT

SCALE: N.T.S.



6 M-001 PIPE SUPPORT DETAIL (ROOF)

SCALE: N.T.S.

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Print Record

13 MARCH 2018	PERMIT SET

Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
DETAILS - HVAC

Sheet No.
M-001

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FAN SCHEDULE

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR		MANUFACTURER & MODEL	OPTIONS–ACCESSORIES
					HP	VOLT.–PH.–CY.		
TEF–1	EXHAUST	CEILING	78	0.125	25 W	120–1–60	DAYTON 1UBH7	1, 2, 3
TEF–2	EXHAUST	CEILING	78	0.125	41	120–1–60	DAYTON 1UBH7	1, 2, 3

NOTES:
1. FAN SHALL BE CONTROLLED BY LIGHT SWITCH.
2. SOLID STATE SPEED CONTROL.
3. FAN SHALL BE PROVIDED WITH LOW LEAKAGE BACKDRAFT DAMPER.

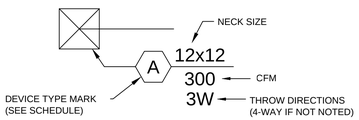
ROOFTOP AIR HANDLING UNIT SCHEDULE

TAG	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	E.S.P. (IN. W.G.)	COOLING		HEATING		ELECTRICAL			MANUFACTURER & MODEL	NOTES
				NOM. TONS	SEER (EER)	MBH INPUT	MBH OUTPUT	V.–PH.–CY.	MCA	MOCP		
RTU–22A	4,000	860	0.6	10	(10.5)	180	147.6	460–3–60	24.8	30	CARRIER 48HJD012	1, 4 (RELOCATED)
RTU–22B	4,500	860	0.6	12.5	(8.6)	250	200	460–3–60	30.7	35	CARRIER 48HJD014	1, 4 (RELOCATED)
RTU–20	6,000	1175	0.6	15	(12.2)	300	240	460–3–60	32.2	45	YORK ZJ180N30R4D5HAA1C1	1 – 4
RTU–21	5,000	1175	0.6	12.5	(12..0)	240	192	460–3–60	41.3	50	YORK ZA150N24R4D5HAA1A1	1 – 4
RTU–22	7,500	–	0.6	15	(11.5)	250	205	460–3–60	37.0	45	CARRIER 48HGD016	5

NOTES:
1. OUTSIDE AIR BASED ON 2010 ARKANSAS CODE TABLE 403.3 FOR RETAIL SPACE. OUTSIDE AIR VALUES TO BE COORDINATED WITH TENANT FIT–UP PLANS.
2. PROVIDE UNIT WITH ASITE TM46 THERMOSTAT, ORDERED THROUGH POWERHOUSE DYNAMICS.
3. PROVIDE UNIT WITH DOWNFLOW ECONOMIZER WITH POWER EXHAUST, LOW AMBIENT HEAD PRESSURE CONTROLS, SMOKE DETECTOR, ROOF CURB, THRU–THE–BOTTOM SERVICE CONNECTIONS AND 120V GFCI CONVENIENCE OUTLET.
4. PROVIDE UNIT WITH A SMOKE DETECTOR.
5. UNIT TO BE ABANDONED IN PLACE.

OUTSIDE AIR CALCULATIONS

SPACE NAME	CLASSIFICATION	AREA (SF)	PEOPLE/1000SF	PEOPLE	CFM/PERSON	CFM/SF	PPL OA (CFM)	SF OA (CFM)	CFM REQUIRED	EFFECTIVENESS FACTOR	TOTAL CFM REQUIRED
5 BELOW	SALES	7,500	15	113	7.5	0.12	843.8	900	1743.8	0.8	2179.8
5 BELOW	OFFICE	70	5	0	5	0.06	1.8	4.2	6.0	0.8	7.5
5 BELOW	STORAGE	1,037	0	0	0	0.12	0	124.4	124.4	0.8	155.5
5 BELOW	BATHROOM	140	0	0	0	0.00	0	0.00	0.00	0.8	EXHAUST ONLY
									RTU–20 & RTU–21 REQUIRED		2342.8
									RTU–20 & RTU–21 DELIVERED		2350
TENANT B	SALES	5,900	15	89	7.5	0.12	663.8	708	1371.8	0.8	1713.8
AIRFLOW VALUES ARE FROM THE 2010 ARKANSAS MECHANICAL CODE, CHAPTER 4, TABLE 403.3									RTU–22A & RTU–22B REQUIRED		1713.8
									RTU–22A & RTU–22B DELIVERED		1720



AIR DISTRIBUTION DEVICES KEY

NO SCALE

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION
A	LOUVERED FACE SUPPLY AIR DIFFUSER: TITUS MODEL TMS–AA, NOMINAL 12"x12" PANEL SIZE. FRAME SUITABLE FOR T–BAR CEILING OR GYPSUM. STEEL CONSTRUCTION. PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION –– SEE PLANS. PROVIDE WITH MODEL D–75 OPPOSED BLADE DAMPER.
B	RETURN AIR GRILLE WITH BLADES ON 3/4" CENTER, PARALLEL TO THE LONG DIMENSION AND SET AT 35 DEG. PROVIDE WITH STANDARD WHITE FINISH, LAY–IN BORDER FOR INSTALLATION IN CEILING OR SURFACE MOUNT BORDER SUITABLE FOR INSTALLATION IN DRYWALL TYPE CEILING. TITUS MODEL #350–FL OR APPROVED EQUIVALENT.
C	ALUMINUM CONSTRUCTION, SURFACE MOUNTED, LOUVERED FACE DOUBLE DEFLECTION REGISTER. PROVIDE WITH STANDARD WHITE FINISH AND OPPOSED BLADE DAMPER. TITUS MODEL #300–FS OR APPROVED EQUIVALENT.
D	ALUMINUM CONSTRUCTION, CONCENTRIC SUPPLY/RETURN DIFFUSER WITH PLENUM. PROVIDE WITH STANDARD FINISH. RUSKIN MODEL CDS–20.

NOTES:
1. ALL DIFFUSERS, GRILLES & REGISTERS SHALL HAVE A BAKED OFF–WHITE ENAMEL FINISH.
2. PROVIDE ALUMINIUM CONSTRUCTION IN ALL TOILET ROOMS, LOCKER ROOMS AND SHOWER ROOMS.
3. LISTED SIZE ON DRAWING IS NECK SIZE.
4. TRANSITION FROM DUCT SIZE TO NECK SIZE AS REQUIRED.

GAS FIRED UNIT HEATER SCHEDULE

EQUIPMENT NO.	SERVICE	CFM	INPUT (MBH)	OUTPUT (MBH)	EFFIC–IENCY A.F.U.E.	GAS RATE (CFH)	GAS CONN. SIZE	VENT OUTLET SIZE	ELECTRIC			MANUFACTURER & MODEL	OPTIONS–ACCESSORIES
									AMPS	V.–PH.–CY.	MOTOR HP		
UH	RECEIVING	2049	120	99.6	83%	120	1/2"	4"Ø	30	115–1–60	3/4	REZNOR UDBS125	NOTES 1, 2, 3, 4

NOTES:
1. VERTICAL CONCENTRIC COMBUSTION AIR/VENT KIT (CC2)
2. FACTORY INSTALLED DISCONNECT SWITCH
3. 1–STAGE REMOTE THERMOSTAT (PROVIDED, INSTALLED, AND WIRED BY MECHANICAL CONTRACTOR)
4. 30° DOWNTURN NOZZLE

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Revisions

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13 MARCH 2018	2017259.00

Sheet Title
DETAILS & SCHEDULES - HVAC

Sheet No.
M-002

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SECTION 230010 - MECHANICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.1 PROJECT DESCRIPTION

A. THIS PROJECT INVOLVES THE INSTALLATION OF NEW AND RELOCATION OF EXISTING EQUIPMENT IN AN EXISTING BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MECHANICAL, ELECTRICAL, CONTROLS, ETC WORK AS REQUIRED TO ATTAIN A COMPLETE, OPERABLE SYSTEM.

1.2 EXISTING CONDITIONS

A. CONTRACTOR SHALL NOTE THAT ALL WORK IS TO OCCUR WITHIN AN EXISTING FACILITY. CONTRACTOR SHALL CAREFULLY AND THOROUGHLY REVIEW EXISTING CONDITIONS WHICH WILL AFFECT WORK. WORK SHALL BE SCHEDULED TO AVOID CONFLICTS WITH BUILDING ACTIVITIES.

B. CONTRACTOR SHALL NOTE THAT THE BUILDING UTILIZES THE SPACE ABOVE THE CEILING AS A RETURN AIR PLENUM. ALL MATERIALS INSTALLED IN THE PLENUM SHALL BE RATED FOR USE IN A RETURN AIR PLENUM.

1.3 COORDINATION

A. CONTRACTOR SHALL CAREFULLY COORDINATE WORK WITH ALL TRADES THROUGHOUT PROJECT.

B. IN THE EVENT OF A BLATANT OR PERCEIVED DISCREPANCY BETWEEN EQUIPMENT QUANTITIES, SIZES, OR SCOPE DEFINITION WHEN COMPARING SPECIFICATIONS, DRAWINGS, EXISTING CONDITIONS, AND/OR VERBAL COMMUNICATION RECEIVED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

C. WHERE NEW EQUIPMENT IS REPLACING EXISTING, CONTRACTOR IS RESPONSIBLE FOR VERIFYING EQUIPMENT VOLTAGES PRIOR TO ORDERING EQUIPMENT. CONTRACTOR SHALL VERIFY ALL EQUIPMENT VOLTAGES PRIOR TO ORDERING EQUIPMENT.

D. CONTRACTOR SHALL COORDINATE TO ALLOW PROPER ACCESS AROUND ALL NEW EQUIPMENT ALLOWING FOR ADEQUATE CLEARANCE TO ALLOW FOR MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE-REQUIRED CLEARANCES.

1.4 CODE COMPLIANCE

A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS, CODES, ORDINANCES, REGULATIONS, ETC. OF ALL FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION.

1.5 SLEEVES, SEALS, AND ESCUTCHEONS

A. ALL PIPE PENETRATIONS OF CONCRETE OR MASONRY WALLS, ELEVATED FLOORS, OR ROOFS SHALL BE PROVIDED WITH SCHEDULE 40 STEEL PIPE SLEEVES WITH WATER STOP RINGS. SLEEVES SHALL BE FINISHED FLUSH WITH THE WALL OR ROOF SURFACE.

B. ALL SLEEVES PENETRATING EXTERIOR WALLS OR ROOFS SHALL BE PACKED AND SEALED WATERTIGHT.

1.6 FIRE-STOPS

A. A FIRE-STOP SHALL BE PROVIDED WHEREVER DUCTWORK, PIPING, CONDUIT, ETC. PENETRATES FIRE PARTITIONS, FIRE WALLS AND FLOORS TO MAINTAIN AN EFFECTIVE FIRE, SMOKE, AND GAS BARRIER.

1.7 TESTING AND BALANCING

A. TEST AND BALANCE SHALL BE PERFORMED BY A CERTIFIED TESTING AND BALANCING CONTRACTOR.

1.8 MISCELLANEOUS

A. DO NOT SCALE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

B. THE MECHANICAL PLANS ARE INTENDED TO BE DIGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

PART 2 - PRODUCTS

2.1 BID BASIS / SUBSTITUTION PROCEDURES

A. ENCLOSED DOCUMENTS LIST SPECIFIC MANUFACTURERS, MODEL NUMBERS, AND PERFORMANCE REQUIREMENTS FOR THE TYPE OF EQUIPMENT SPECIFIED. EQUIPMENT MUST MEET ALL SPECIFIED REQUIREMENTS. EQUIPMENT MUST BE OF THE SPECIFIED OR LISTED ALTERNATE MANUFACTURERS. ALTERNATE MANUFACTURERS SHALL MATCH SIZE, CAPACITY, AND APPEARANCE OF SPECIFIED EQUIPMENT. PROPOSED SUBSTITUTIONS WHICH REQUIRE A CHANGE IN DIMENSIONS, APPEARANCE, OR DESIGN SHALL BE SUBMITTED IN WRITING FOR APPROVAL.

PART 3 - EXECUTION

3.1 SUBMITTALS/SHOP DRAWINGS

A. CONTRACTOR SHALL PROVIDE FOUR (4) COPIES OF MANUFACTURER'S PRODUCT LITERATURE FOR ALL EQUIPMENT AND MATERIAL PROPOSED FOR INSTALLATION. SUBMITTALS SHALL INCLUDE CATALOG INFORMATION, INSTALLATION DRAWINGS, AND PERFORMANCE CRITERIA FOR EACH PIECE OF EQUIPMENT.

B. FOR ANY SUBSTITUTE EQUIPMENT WHICH IS APPROVED FOR INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL REQUIREMENTS INCLUDING ELECTRICAL, STRUCTURAL, SPACING, CLEARANCE, ETC. AS REQUIRED.

C. FOR ALL DUCTWORK, PIPING, AND ASSOCIATED EQUIPMENT, CONTRACTOR SHALL PROVIDE FOUR (4) COPIES OF DETAILED PRODUCTION SHOP DRAWINGS DETAILING EXACT ROUTING/LOCATION OF PIPING, DUCTWORK, EQUIPMENT, ETC. SPOOL LENGTHS, TRANSITION SIZES, EXACT DIMENSIONS, SUPPORT METHODS, ETC. SHALL BE CLEARLY INDICATED.

3.2 INSTALLATION REQUIREMENTS

A. ALL EQUIPMENT SHALL BE PROVIDED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

B. CONTRACTOR SHALL PROVIDE A COPY OF INSTALLATION, OPERATION, AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT PROVIDED.

C. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED MOUNTING HARDWARE, SUPPORT STRUCTURES, PADS, CURBS, ETC. AS REQUIRED.

3.3 CLEANING, LUBRICATION, AND ADJUSTMENT

A. ALL INSTALLED EQUIPMENT AND COMPONENTS SHALL BE CLEANED AND FREE OF DEBRIS PRIOR TO COMPLETION OF WORK.

B. NEW FILTERS SHALL BE PROVIDED AT THE END OF CONSTRUCTION FOR ALL NEW & EXISTING EQUIPMENT REQUIRING FILTERS.

3.4 TESTING AND BALANCING

A. HVAC TEST AND BALANCE SHALL BE PERFORMED ON ALL AIRSIDE EQUIPMENT TO VERIFY AIR FLOWS OF ALL EQUIPMENT/COMPONENTS SPECIFIED. TEST AND BALANCE SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED TEST AND BALANCE ENGINEER.

B. CONTRACTOR SHALL PROVIDE 5 (FIVE) COPIES OF TEST AND BALANCE REPORTS NOTING TEMPERATURES SUPPLY/RETURN AIR TEMPERATURES. AIRFLOW READINGS FOR SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR SHALL ALSO BE REPORTED.

3.5 WARRANTY

A. ALL WORK PERFORMED UNDER THIS SCOPE OF WORK SHALL BE SUBJECT TO A WARRANTY FOR A MINIMUM OF ONE YEAR. THE WARRANTY SHALL INCLUDE ALL REQUIRED PARTS AND LABOR.

END OF SECTION 230010

SECTION 230713 - INSULATION

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES INSULATING MATERIALS FOR PIPING AND DUCTWORK REQUIRED FOR THE WORK. REFER TO SCHEDULES ON THIS SHEET.

PART 2 - PRODUCTS

2.1 INSULATION GENERAL:

A. DUCTWORK, PIPING, VALVES AND FITTINGS SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATIONS AND SCHEDULES.

2.2 GLASS FIBER

A. MATERIAL: INORGANIC GLASS FIBERS, BONDED WITH A THERMOSETTING RESIN.

B. JACKET: AS SPECIFIED FOR TYPES OF INSULATION.

C. BOARD: ASTM C 612, CLASS 2, SEMI-RIGID JACKETED BOARD.

1. THERMAL CONDUCTIVITY: 0.26 AVERAGE MAXIMUM, AT 75ºF MEAN TEMPERATURE.
2. DENSITY: 6 PCF AVERAGE MAXIMUM.
3. JACKET: FACTORY APPLIED, KRAFT PAPER, REINFORCING SCRIM, WITH ALUMINUM FOIL OR VINYL FILM.

D. BLANKET: ASTM C 533, TYPE II, CLASS F-1, JACKETED FLEXIBLE BLANKETS.

1. THERMAL CONDUCTIVITY: 0.32 AVERAGE MAXIMUM AT 75ºF MEAN TEMPERATURE.
2. DENSITY: 0.75 PCF AVERAGE MAXIMUM.
3. JACKET: FACTORY APPLIED, KRAFT PAPER, REINFORCING SCRIM, WITH ALUMINUM FOIL OR VINYL FILM.

E. PREFORMED PIPE INSULATION: ASTM C 547, CLASS 1, RIGID PIPE INSULATION, JACKETED.

1. THERMAL CONDUCTIVITY: 0.26 AVERAGE MAXIMUM AT 75ºF MEAN TEMPERATURE.
2. DENSITY: 10 PCF AVERAGE MAXIMUM.
3. JACKET: FACTORY APPLIED, KRAFT PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS.

F. ADHESIVE: PRODUCED UNDER THE UL CLASSIFICATION AND FOLLOW-UP SERVICE.
1. TYPE: NON-FLAMMABLE, SOLVENT BASED.
2. SERVICE TEMPERATURE RANGE: MINUS 20ºF TO 180ºF.

2.2 FLEXIBLE ELASTOMERIC CELLULAR

A. MATERIAL FLEXIBLE EXPANDED CLOSED-CELL STRUCTURE WITH SMOOTH SKIN ON BOTH SIDES.
1. TUBULAR MATERIALS: ASTM C 534, TYPE I.
2. SHEET MATERIALS: ASTM C 534, TYPE II.

B. THERMAL CONDUCTIVITY: 0.30 AVERAGE MAXIMUM AT 75ºF.

C. COATING: WATER-BASED LATEX ENAMEL COATING RECOMMENDED BY INSULATION MANUFACTURER. PROVIDE ULTRAVIOLET-PROTECTIVE COATING RECOMMENDED BY THE MANUFACTURER.

D. APPLICATION: EXTERIOR PIPING ONLY. NOT ACCEPTABLE IN RETURN AIR PLENUM.

2.3 FIRE BARRIER PLENUM WRAP

A. FLEXIBLE, FIRE-RESISTANT WRAP WITH INNER BLANKET ENCAPSULATED WITH A SCRIM-REINFORCED FOIL COVERING; 1" THICK, MINIMUM 6 PCF, WITH MAX. FLAME SPREAD INDEX AND SMOKE DEVELOPED INDEX OF THE FOIL ENCAPSULATED BLANKET = 25/50.

B. APPLICATION: PROVIDE FOR ITEMS IN RETURN AIR PLENUM TO PROVIDE A PROTECTIVE COVERING OVER EXISTING ITEMS THAT DO NOT MEET CODE REQUIREMENTS FOR INSTALLATION IN A RETURN AIR PLENUM.

2.4 INSULATING CEMENTS

A. PROVIDE INSULATING CEMENTS AS RECOMMENDED BY INSULATION MANUFACTURER COMPLYING WITH APPLICABLE ASTM SECTION.

2.5 ADHESIVES

A. PROVIDE ADHESIVES AS RECOMMENDED BY INSULATION MANUFACTURER FOR TYPE AND LOCATION OF INSULATING MATERIALS.

2.6 JACKETS

A. ALUMINUM JACKET: ASTM B209, 3003 ALLOY, H-14 TEMPERED, ROLL STOCK READY FOR SHOP OR FIELD CUTTING.
1. SMOOTH FINISH, 0.010 INCH THICK.
2. CORRUGATED FINISH, 0.010 INCH THICK.
3. ELBOWS: PREFORMED, 45 AND 90 DEGREE ELBOWS; SAME MATERIAL, FINISH AND THICKNESS AS JACKET.

2.7 REMOVABLE/REUSABLE INSULATION COVERS

A. APPLICATION: PROVIDE OVER ALL OPERABLE VALVES AND PRESSURE REDUCING STATION COMPONENTS NOT COVERED WITH CONTINUOUS INSULATION.

B. MATERIALS
1. INNER JACKETING: 17 OZ/CU. FT. PTFE COATED FIBERGLASS CLOTH.
2. OUTER JACKETING: 17 OZ/CU. FT. PTFE COATED FIBERGLASS CLOTH.
3. SIDE GUSSETS: 17 OZ/CU. FT. PTFE COATED FIBERGLASS CLOTH.
4. INSULATION CORE: 2" THICK - 6#/CU. FT. DENSITY "ET" BLANKET
5. SEAM CLOSURE: PTFE COATED FIBERGLASS THREAD
6. SEAM FASTENERS: PTFE CLOTH STRAPS WITH STAINLESS STEEL DOUBLE D-RINGS AND TYPE 304 LACING HOOKS & 16 GA S.S. TIE WIRE.

PART 3 - EXECUTION

3.1 PREPARATION

A. SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION.

3.2 GENERAL INSTALLATION REQUIREMENTS

A. INSTALL INSULATION MATERIALS, ACCESSORIES, AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES FREE OF VOIDS THROUGHOUT THE LENGTH OF DUCTS AND FITTINGS.

B. INSTALL INSULATION MATERIALS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESSES REQUIRED FOR EACH ITEM OF DUCT SYSTEM AS SPECIFIED IN INSULATION SYSTEM SCHEDULES.

C. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE. INSTALL ACCESSORIES THAT DO NOT CORRODE, SOFTEN, OR OTHERWISE ATTACK INSULATION OR JACKET IN EITHER WET OR DRY STATE.

END OF SECTION 230713

SECTION 233113 - DUCTWORK

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:
1. RECTANGULAR DUCTS AND FITTINGS.
2. ROUND DUCTS AND FITTINGS.
3. SHEET METAL MATERIALS.
4. FLEXIBLE DUCT.
5. DUCT LINER.
6. SEALANTS AND GASKETS.
7. HANGERS AND SUPPORTS.

1.2 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

PART 2 - PRODUCTS

2.1 RECTANGULAR AND ROUND DUCTS AND FITTINGS

A. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", INCLUDING CHAPTER 3 "ROUND, OVAL AND FLEXIBLE DUCT," BASED ON APPROPRIATE STATIC-PRESSURE CLASS.

2.2 SHEET METAL MATERIALS

A. GENERAL MATERIAL REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

2.3 FLEXIBLE TYPE DUCT

A. GENERAL: FLEXIBLE DUCTWORK SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.

2.4 SEALANT AND GASKETS

A. GENERAL SEALANT AND GASKET REQUIREMENTS: SURFACE-BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL BE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723; CERTIFIED BY AN NRTL.

PART 3 - EXECUTION

3.1 DUCT INSTALLATION

A. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.

B. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED.

C. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6 LINEAR FEET PER RUN.

D. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.

E. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON THE DRAWINGS.

F. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.

G. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.

H. ALL DUCT DIMENSIONS SHOWN ON PLANS ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.

I. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.

J. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A ½" ACOUSTICAL DUCT LINER.

3.2 DUCT SEALING

A. SEAL DUCTS FOR DUCT STATIC-PRESSURE, SEAL CLASSES, AND LEAKAGE CLASSES SPECIFIED IN "DUCT SCHEDULE" ARTICLE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."

3.3 HANGER AND SUPPORT INSTALLATION

A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 5, "HANGERS AND SUPPORTS."

END OF SECTION 233113

SECTION 233713 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:
1. AIR DISTRIBUTION DEVICES

1.2 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED, INCLUDE THE FOLLOWING:
1. DATA SHEET: INDICATE MATERIALS OF CONSTRUCTION, FINISH, AND MOUNTING DETAILS; AND PERFORMANCE DATA INCLUDING THROW AND DROP, STATIC-PRESSURE DROP, AND NOISE RATINGS.
2. DIFFUSER, REGISTER, AND GRILLE SCHEDULE: INDICATE DRAWING DESIGNATION, ROOM LOCATION, QUANTITY, MODEL NUMBER, SIZE, AND ACCESSORIES FURNISHED.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. METALAIRE, INC.
2. NAILOR INDUSTRIES INC.
3. PRICE INDUSTRIES.
4. TITUS.

2.2 SELECTION CRITERIA

A. ALL AIR DISTRIBUTION DEVICES SHALL BE SELECTED IN ACCORDANCE WITH THE METHOD OF MOUNTING, CEILING FINISH, AND COLOR. THE MOUNTING METHOD SHALL BE COMPATIBLE WITH THE CEILING, WALL OR DUCT SURFACE IN WHICH IT MOUNTS. REFER TO THE ARCHITECTURAL DRAWINGS TO DETERMINE THE MOUNTING METHOD FOR EACH DEVICE, AND SELECT THE COLOR TO MATCH THE COLOR OF THE ADJACENT CEILING OR WALL, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO SCHEDULE ON MECHANICAL PLANS.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE AREAS WHERE DIFFUSERS, REGISTERS, AND GRILLES ARE TO BE INSTALLED FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF EQUIPMENT.

B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

A. INSTALL DIFFUSERS, REGISTERS, AND GRILLES LEVEL AND PLUMB, AND IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. CEILING-MOUNTED OUTLETS AND INLETS: DRAWINGS INDICATE GENERAL ARRANGEMENT OF DUCTS, FITTINGS, AND ACCESSORIES. AIR OUTLET AND INLET LOCATIONS HAVE BEEN INDICATED TO ACHIEVE DESIGN REQUIREMENTS FOR AIR VOLUME, NOISE CRITERIA, AIRFLOW PATTERN, THROW, AND PRESSURE DROP. MAKE FINAL LOCATIONS WHERE INDICATED, AS MUCH AS PRACTICAL. FOR UNITS INSTALLED IN LAY-IN CEILING PANELS, LOCATE UNITS IN THE CENTER OF PANEL. WHERE ARCHITECTURAL FEATURES OR OTHER ITEMS CONFLICT WITH INSTALLATION, NOTIFY ARCHITECT FOR A DETERMINATION OF FINAL LOCATION.

C. INSTALL DIFFUSERS, REGISTERS, AND GRILLES WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS, AIR EXTRACTORS, AND FIRE DAMPERS. ALL ADJUSTABLE AIR DISTRIBUTION DEVICES LOCATED WITHIN THREE FEET OF ANY WALL SHALL BE SET TO BLOW DIRECTLY AWAY FROM, OR PARALLEL TO, THE WALL.

3.3 ADJUSTING

A. AFTER INSTALLATION, ADJUST DIFFUSERS, REGISTERS, AND GRILLES TO AIR PATTERNS INDICATED, OR AS DIRECTED, BEFORE STARTING AIR BALANCING.

END OF SECTION 233713

SECTION 233423 - HVAC POWER VENTILATORS

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:
1. CEILING-MOUNTED VENTILATORS.

1.2 PERFORMANCE REQUIREMENTS

A. PROJECT ALTITUDE: BASE FAN-PERFORMANCE RATINGS ON SEA LEVEL.

1.3 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES. ALSO INCLUDE THE FOLLOWING:
1. CERTIFIED FAN PERFORMANCE CURVES WITH SYSTEM OPERATING CONDITIONS INDICATED.
2. CERTIFIED FAN SOUND-POWER RATINGS.
3. MOTOR RATINGS AND ELECTRICAL CHARACTERISTICS, PLUS MOTOR AND ELECTRICAL ACCESSORIES.
4. MATERIAL THICKNESS AND FINISHES, INCLUDING COLOR CHARTS.
5. DAMPERS, INCLUDING HOUSINGS, LINKAGES, AND OPERATORS.
6. FAN SPEED CONTROLLERS.

1.4 QUALITY ASSURANCE

A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. AMCA COMPLIANCE: FANS SHALL HAVE AMCA-CERTIFIED PERFORMANCE RATINGS AND SHALL BEAR THE AMCA-CERTIFIED RATINGS SEAL.

1.5 COORDINATION

A. COORDINATE SIZES AND LOCATIONS OF ROOF CURBS, EQUIPMENT SUPPORTS, AND ROOF PENETRATIONS WITH ACTUAL EQUIPMENT PROVIDED.

PART 2 - PRODUCTS

2.1 CEILING-MOUNTED VENTILATORS

A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
1. BROAN-NUTONE LLC.
2. GREENHECK FAN CORPORATION.
3. LOREN COOK COMPANY.
4. PENNBARRY.

B. CAPACITIES AND CHARACTERISTICS: AS SCHEDULED ON THE PLANS.

PART 3 - EXECUTION

3.1 INSTALLATION

A. INSTALL POWER VENTILATORS LEVEL AND PLUMB.

B. CEILING UNITS: SUSPEND UNITS FROM STRUCTURE.

C. SUPPORT SUSPENDED UNITS FROM STRUCTURE USING THREADED STEEL RODS AND VIBRATION-CONTROL DEVICES.

D. INSTALL UNITS WITH CLEARANCES FOR SERVICE AND MAINTENANCE.

3.2 CONNECTIONS

A. DRAWINGS INDICATE GENERAL ARRANGEMENT OF DUCTS AND DUCT ACCESSORIES. MAKE FINAL DUCT CONNECTIONS WITH FLEXIBLE NRCA STANDARDS.

B. INSTALL DUCTS ADJACENT TO POWER VENTILATORS TO ALLOW SERVICE AND MAINTENANCE.

3.3 FIELD QUALITY CONTROL

A. PERFORM TESTS AND INSPECTIONS.

B. TESTS AND INSPECTIONS:
1. VERIFY THAT SHIPPING, BLOCKING, AND BRACING ARE REMOVED.
2. VERIFY THAT UNIT IS SECURE ON MOUNTINGS AND SUPPORTING DEVICES AND THAT CONNECTIONS TO DUCTS AND ELECTRICAL COMPONENTS ARE COMPLETE. VERIFY THAT PROPER THERMAL-OVERLOAD PROTECTION IS INSTALLED IN MOTORS, STARTERS, AND DISCONNECT SWITCHES.
3. VERIFY THAT CLEANING AND ADJUSTING ARE COMPLETE.
4. DISCONNECT FAN DRIVE FROM MOTOR, VERIFY PROPER MOTOR ROTATION DIRECTION, AND VERIFY FAN WHEEL FREE ROTATION AND SMOOTH BEARING OPERATION.
5. ADJUST DAMPER LINKAGES FOR PROPER DAMPER OPERATION.
6. VERIFY LUBRICATION FOR BEARINGS AND OTHER MOVING PARTS.
7. REMOVE AND REPLACE MALFUNCTIONING UNITS AND RETEST AS SPECIFIED ABOVE.

C. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

D. PREPARE TEST AND INSPECTION REPORTS.

END OF SECTION 233423

SECTION 237413 - PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS (ROOFTOP UNITS) WITH THE FOLLOWING COMPONENTS AND ACCESSORIES:
1. DIRECT-EXPANSION COOLING.
2. GAS FURNACE.
3. ECONOMIZER OUTDOOR- AND RETURN-AIR DAMPER SECTION.
4. INTEGRAL, SPACE TEMPERATURE CONTROLS.
5. ROOF CURBS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: INCLUDE MANUFACTURER'S TECHNICAL DATA FOR EACH RTU, INCLUDING RATED CAPACITIES, DIMENSIONS, REQUIRED CLEARANCES, CHARACTERISTICS, FURNISHED SPECIALTIES, AND ACCESSORIES.

1.3 QUALITY ASSURANCE

A. ARI COMPLIANCE:
1. COMPLY WITH ARI 210/240 AND ARI 340/360 FOR TESTING AND RATING ENERGY EFFICIENCIES FOR RTUS.
2. COMPLY WITH ARI 270 FOR TESTING AND RATING SOUND PERFORMANCE FOR RTUS.

B. ASHRAE COMPLIANCE:
1. COMPLY WITH ASHRAE 15 FOR REFRIGERATION SYSTEM SAFETY.
2. COMPLY WITH ASHRAE 33 FOR METHODS OF TESTING COOLING AND HEATING COILS.

C. NFPA COMPLIANCE: COMPLY WITH NFPA 90A AND NFPA 90B.

D. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

1.4 WARRANTY

VERIFY AVAILABLE WARRANTIES FOR RTUS AND COMPONENTS AND INSERT NUMBER IN SUBPARAGRAPHS BELOW. PERIODS INDICATED ARE INCLUDED WITH MANUFACTURER'S PUBLISHED DATA AND VARY AMONG MANUFACTURERS AND UNIT SIZES.
1. WARRANTY PERIOD FOR COMPRESSORS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
2. WARRANTY PERIOD FOR GAS FURNACE HEAT EXCHANGERS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
3. WARRANTY PERIOD FOR SOLID-STATE IGNITION MODULES: MANUFACTURER'S STANDARD, BUT NOT LESS THAN THREE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
4. WARRANTY PERIOD FOR CONTROL BOARDS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN THREE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
1. LENNOX INDUSTRIES INC.
2. MCQUAY INTERNATIONAL.
3. TRANE; AMERICAN STANDARD COMPANIES, INC.
4. YORK INTERNATIONAL CORPORATION.
5. CARRIER UNITED TECHNOLOGIES

2.2 CASING

A. GENERAL FABRICATION REQUIREMENTS FOR CASINGS: FORMED AND REINFORCED DOUBLE-WALL INSULATED PANELS, FABRICATED TO ALLOW REMOVAL FOR ACCESS TO INTERNAL PARTS AND COMPONENTS, WITH JOINTS BETWEEN SECTIONS SEALED.

B. EXTERIOR CASING MATERIAL: GALVANIZED STEEL WITH FACTORY-PAINTED FINISH, WITH PITCHED ROOF PANELS AND KNOCKOUTS WITH GROMMET SEALS FOR ELECTRICAL AND PIPING CONNECTIONS AND LIFTING LUGS.
1. EXTERIOR CASING THICKNESS: 0.052 INCH THICK.

C. INNER CASING FABRICATION REQUIREMENTS:
1. INSIDE CASING: GALVANIZED STEEL, 0.034 INCH THICK.

D. CASING INSULATION AND ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B.
1. MATERIALS: ASTM C 1071, TYPE I.
2. THICKNESS: 1/2 INCH.

RETAIN THIRD OPTION IN FIRST PARAGRAPH BELOW TO COMPLY WITH LEED PREREQUISITE IEQ 1 OR IF REQUIRED BY PROJECT REQUIREMENTS OR AUTHORITIES HAVING JURISDICTION.

E. CONDENSATE DRAIN PANS: FORMED SECTIONS OF GALVANIZED-STEEL SHEET, A MINIMUM OF 2 INCHES DEEP.
1. DRAIN CONNECTIONS: THREADED NIPPLE.

RETAIN SUBPARAGRAPH BELOW FOR GALVANIZED-STEEL DRAIN PANS AND DELETE FOR STAINLESS-STEEL DRAIN PANS.
2. PAN-TOP SURFACE COATING: CORROSION-RESISTANT COMPOUND.

2.3 FANS

RETAIN ONE OF FIRST TWO PARAGRAPHS BELOW. RETAIN BOTH IF MULTIPLE-TYPE RTUS ARE REQUIRED. IF RETAINING BOTH, INDICATE FAN TYPE IN A SCHEDULE.

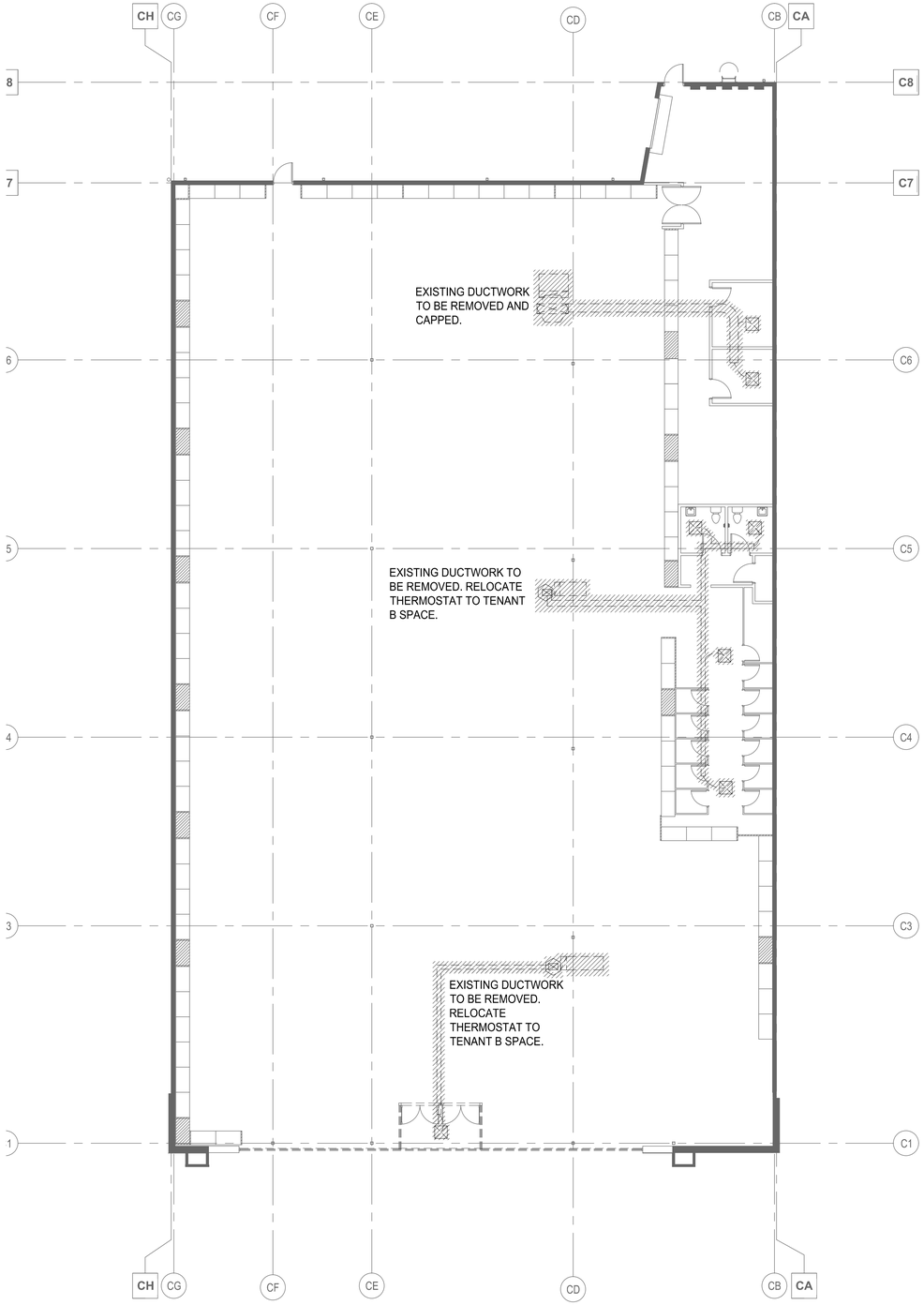
A. BELT-DRIVEN SUPPLY-AIR FANS: DOUBLE WIDTH, FORWARD CURVED, CENTRIFUGAL; WITH PERMANENTLY LUBRICATED, SINGLE-SPEED MOTOR INSTALLED ON AN ADJUSTABLE FAN BASE RESILIENTLY MOUNTED IN THE CASING. ALUMINUM OR PAINTED-STEEL WHEELS, AND GALVANIZED- OR PAINTED-STEEL FAN SCROLLS.

B. CONDENSER-COIL FAN: PROPELLER, MOUNTED ON SHAFT OF PERMANENTLY LUBRICATED MOTOR.

2.4 COILS

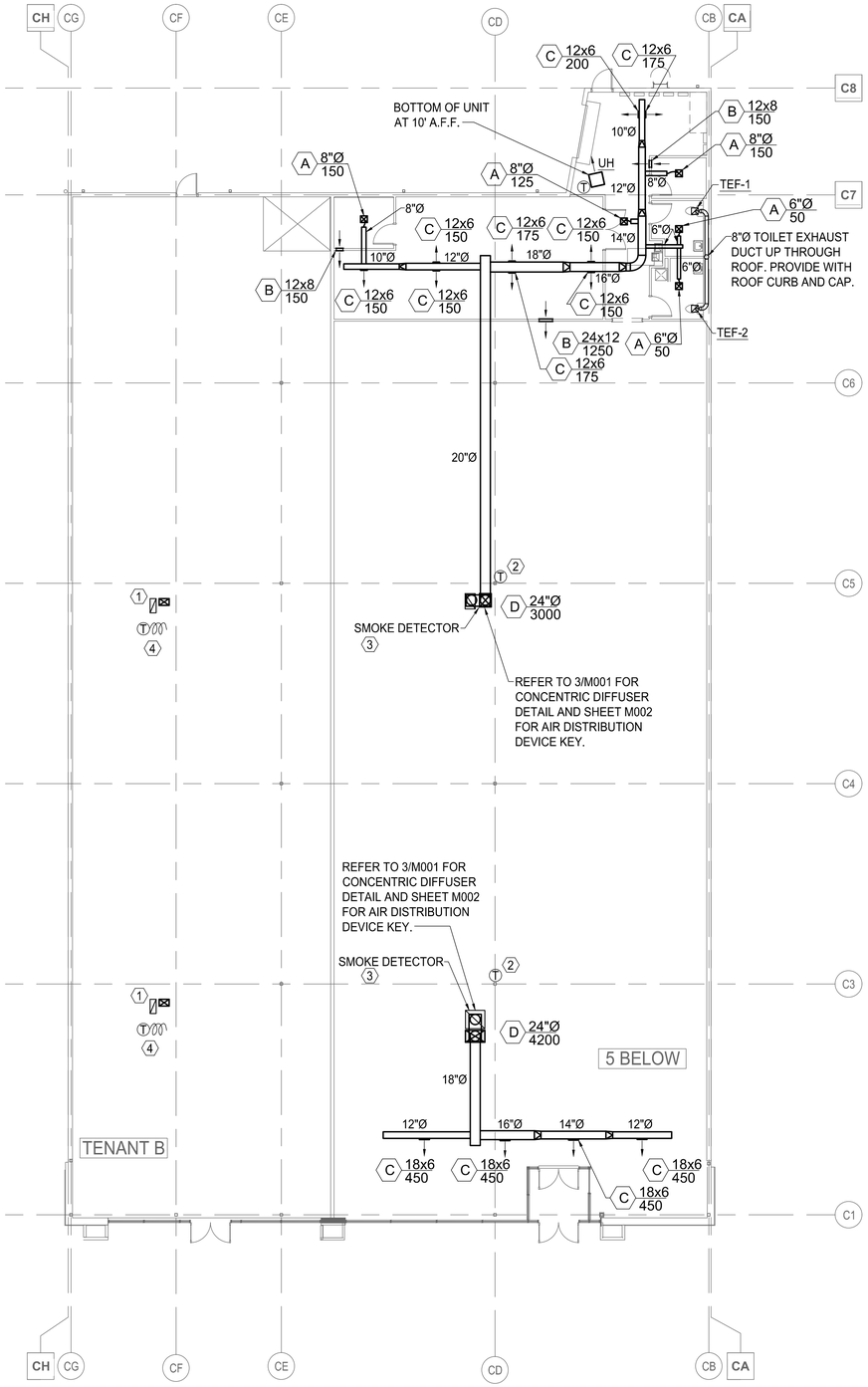
A. SUPPLY-AIR REFRIGERANT COIL:
1. ALUMINUM-PLATE FIN AND SEAMLESS INTERNALLY GROOVED COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR.
2. COIL SPLIT: INTERLACED.

2.5 REFRIGERANT CIRCUIT



1 M-101 FLOOR PLAN - HVAC DEMOLITION

SCALE: 3/32" = 1' - 0"



2 M-101 FLOOR PLAN - HVAC NEW WORK

SCALE: 3/32" = 1' - 0"

GENERAL NOTES:

1. CONCENTRIC DIFFUSERS ARE TO BE MINIMUM OF 12'6" AFF.
2. ALL DUCTWORK TO BE INSTALLED AT A MINIMUM OF 12'6" AFF.

KEY NOTES:

1. LINED (1") SUPPLY AND RETURN DROPS FROM RTU ABOVE, FULL SIZE OF UNIT OPENING. EXTEND 24" BELOW ROOF DECK FOR FUTURE TENANT CONNECTION.
2. COORDINATE WITH TENANT PLANS FOR THERMOSTAT LOCATIONS AND MODEL.
3. COORDINATE WITH TENANT PLANS FOR REMOTE TEST STATION LOCATION AND MODEL (FOR DUCT SMOKE DETECTORS).
4. RELOCATE THERMOSTATS WITH MINIMUM OF 30 FEET THERMOSTAT CABLE FOR FUTURE TENANT USE.

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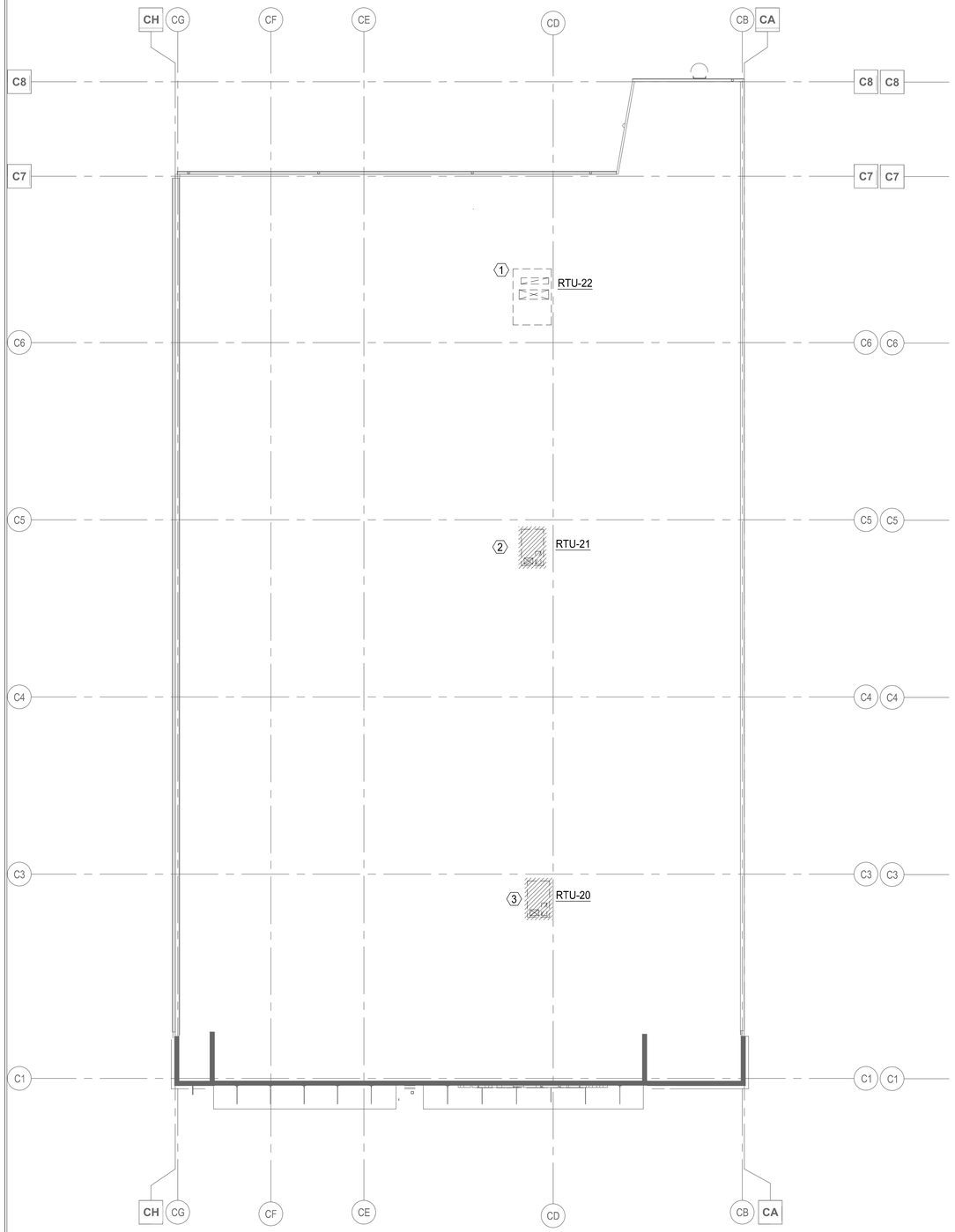
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
FLOOR PLAN - HVAC

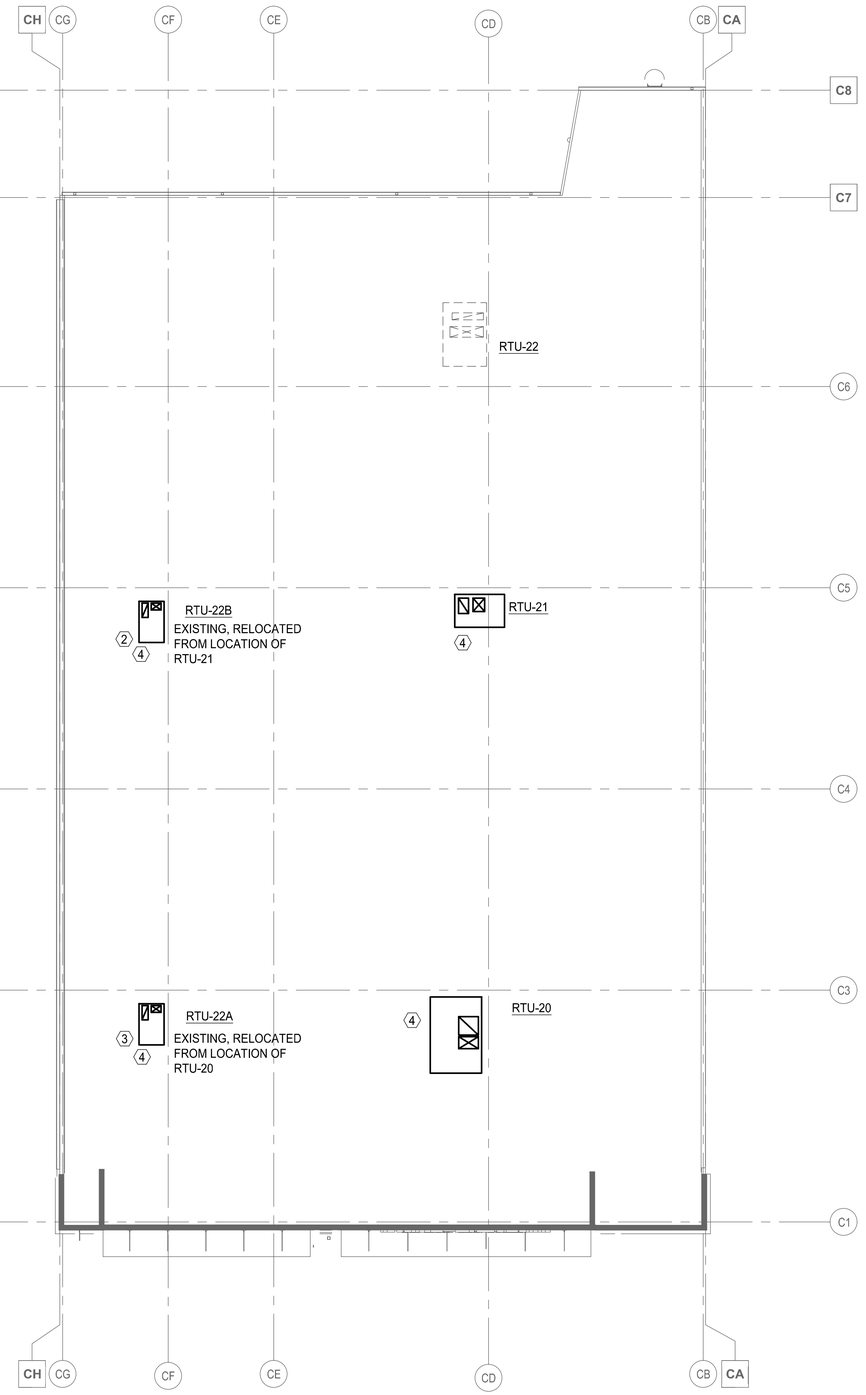
Sheet No.
M-101

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1 M-102 ROOF PLAN - HVAC DEMOLITION

SCALE: 3/32" = 1' - 0"



2 M-102 ROOF PLAN - HVAC NEW WORK

SCALE: 3/32" = 1' - 0"

GENERAL NOTES:

1. RTU-21 ON 1/M102 HAS BEEN RELOCATED AND RENAMED TO RTU-22B ON 2/M102.
2. RTU-22 ON 1/M102 HAS BEEN RELOCATED AND RENAMED TO RTU-22A ON 2/M102

KEY NOTES:

1. EXISTING ROOFTOP UNIT TO REMAIN, ABANDON IN PLACE.
2. EXISTING 12.5 TON ROOFTOP UNIT TO BE RELOCATED AND RENAMED. REFER TO 2/M102.
3. EXISTING 10 TON ROOFTOP UNIT TO BE RELOCATED AND RENAMED. REFER TO 2/M102.
4. COORDINATE WITH STRUCTURAL.

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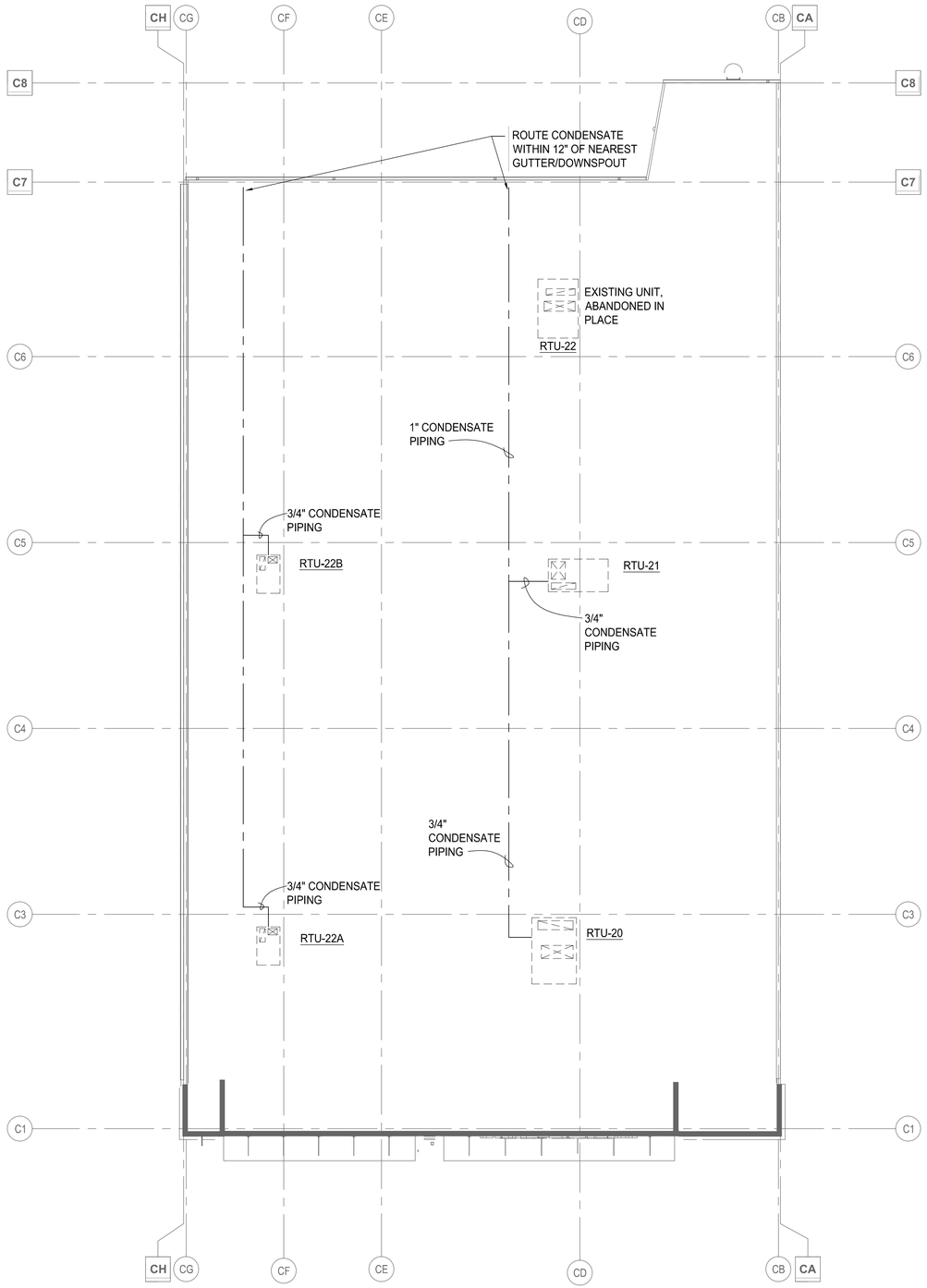
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
ROOF PLAN - HVAC

Sheet No.
M-102

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2 / M-102 ROOF PLAN - HVAC NEW WORK

SCALE: 3/32" = 1' - 0"

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13 MARCH 2018	2017259.00

Sheet Title
ROOF PLAN - HVAC

Sheet No.
M-103

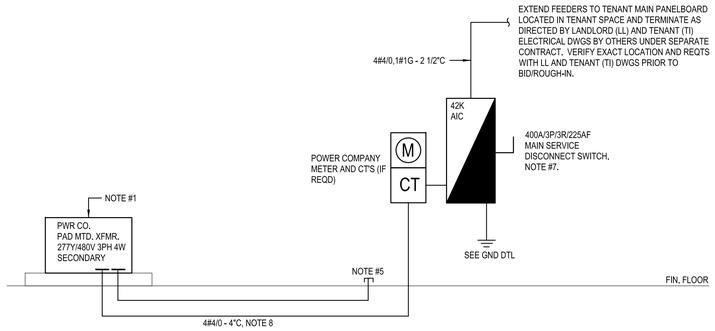
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RISER DIAGRAM NOTES - TENANT "B"

1. FIELD VERIFY WITH POWER COMPANY AND CIVIL DRAWINGS THE EXACT LOCATION AND REQUIREMENTS OF THE POWER COMPANY TRANSFORMER PRIOR TO BID/ROUGH-IN.
2. VERIFY LOCATION, DIMENSIONS AND CLEARANCES FOR ELECTRICAL SERVICE WITH ARCHITECTURAL AND CIVIL DRAWINGS PRIOR TO BID/ROUGH-IN.
3. PROVIDE LIGHTNING ARRESTOR.
4. ARRANGE EQUIPMENT SO AS TO MAXIMIZE SPACE FOR FUTURE EQUIPMENT REQUIREMENTS.
5. EXTEND (1) 4" EC WITH PULL STRING TO PAD MOUNTED TRANSFORMER AND CAP FOR FUTURE.
6. VERIFY EXACT LOCATION AND REQUIREMENTS FOR IRRIGATION SYSTEM (IF REQUIRED) WITH OWNER PRIOR TO BID/ROUGH-IN.
7. ALL SERVICE DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED.
8. 277/480VOLT, 3 PHASE, 4 WIRE U.G. SERVICE TO POWER COMPANY PAD MOUNTED TRANSFORMER. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS WITH CIVIL DRAWINGS AND POWER COMPANY PRIOR TO BID/ROUGH-IN.



RISER DIAGRAM - TENANT "B"

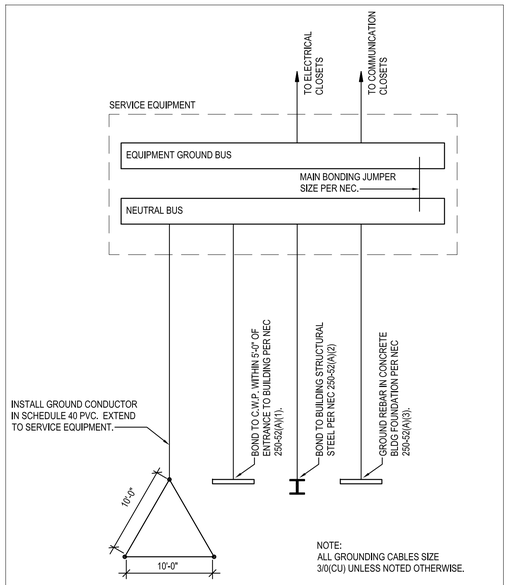
N.T.S.

PANELBOARD SCHEDULE " D " (TENANT - B)

MAINS: 225A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE

CIR #	TRIP / POLE	DESCRIPTION	CONNECTED LOAD KVA PHASE A	PHASE B	PHASE C	DESCRIPTION	TRIP / POLE	CIR #
1	20/1 e,c	STORE FRONT SIGN	1.5 / .			SPARE	20/1	2
3	20/1 e,d	LTS - NORM/EM		0.5 / .		SPARE	20/1	4
5	20/1	SPARE			. / .	SPARE	20/1	6
7	20/1	SPARE	. / .			SPARE	20/1	8
9	20/1	SPARE		. / .		SPARE	20/1	10
11	20/1	SPARE			. / .	SPARE	20/1	12
13	20/1	SPARE	. / .			SPARE	20/1	14
15	20/1	SPARE		. / .		SPARE	20/1	16
17	20/1	SPARE			. / .	SPARE	20/1	18
19	20/1	SPARE	. / .			SPARE	20/1	20
21	20/1	SPARE		. / .		SPARE	20/1	22
23	20/1	SPARE			. / .	SPARE	20/1	24
25	20/1	SPARE	. / .			SPARE	20/1	26
27	20/1	SPARE		. / .		SPARE	20/1	28
29	20/1	SPARE			. / .	SPARE	20/1	30
31	20/1	SPARE	. / .			SPARE	20/1	32
33	20/1	SPARE		. / .		SPARE	20/1	34
35	20/1	SPARE			. / .	SPARE	20/1	36
37	30/3 e	RTU - 22A	6.2 / 7.8			RTU - 22B	35/3 e	38
39	---	---		6.2 / 7.8		---	---	40
41	---	---			6.2 / 7.8	---	---	42
MIN. BREAKER A.I.C.		42,000	15.5	14.5	14.0	TOTAL CONNECTED LOAD:	44.0	
NOTES:		.				TOTAL DEMAND LOAD:	49.9	

a. CONTROLLED VIA TIME CLOCK. 7-DAY, SKIP-A-DAY, ASTRODIAL (TORK OR EQUAL).
b. ROUTE THRU CONTACTOR FOR TIME CLOCK "ON" / TIME CLOCK "OFF" OPERATION.
c. ROUTE THRU CONTACTOR FOR PHOTOCELL "ON" / TIME CLOCK "OFF" OPERATION.
d. PROVIDE LOCK "ON" DEVICE THIS CIRCUIT.
e. FIELD VERIFY REQTS PRIOR TO BID/ROUGH-IN.



NOTE:
ALL GROUNDING CABLES SIZE 3/0(CU) UNLESS NOTED OTHERWISE.

NOTE:
IN ADDITION TO THE GROUNDING MAT, THE CONTRACTOR SHALL PROVIDE A COMPLETE GROUNDING SYSTEM TO MEET ALL REQUIREMENTS OF NEC ARTICLE 250.

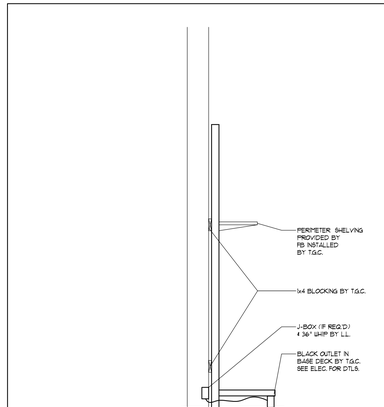
THERMAL WELD #3/0 BARE COPPER CABLE TO 5/8" DIAMETER x 10'-0" LONG COPPER-WELD GROUND RODS 8" BELOW GRADE. THERMAL WELD ALL CONNECTIONS BELOW GRADE. ALL WIRE FOR GROUND GRIDS SHALL BE #3/0 AWG BARE COPPER. RESISTANCE TO EARTH SHALL BE 25 OHMS OR LESS.

GROUNDING SYSTEM DETAIL

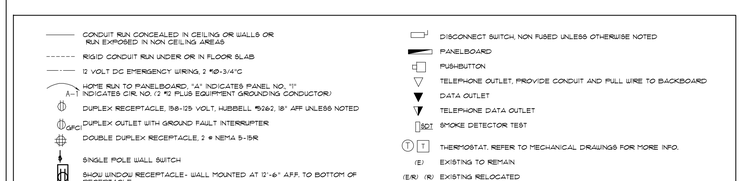
NOT TO SCALE

ELECTRICAL KEY NOTES (x)

1. JBOX FOR TENANT SIGNAGE. FIELD VERIFY EXACT LOCATION AND REQTS WITH OWNER, TENANT AND ARCH DWGS PRIOR TO ROUGH-IN.
2. FIELD VERIFY TENANT PANELBOARD AND TELEPHONE TERMINAL BOARD (TTB) LOCATION AND REQUIREMENTS WITH LANDLORD AND TENANT DRAWINGS PRIOR TO ROUGH-IN.
3. STUB AND CAP 1" EC WITH PULL WIRE FROM NEAREST MAIN BUILDING TELEPHONE CABINET. STUB 6" ABOVE TTB IN TENANT SPACE. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS OF TTB WITH OWNER AND TENANT DWGS PRIOR TO ROUGH-IN.
4. APPROXIMATE LOCATION OF EXISTING WALL MOUNTED AREA LIGHTING FIXTURE. FIELD VERIFY WITH OWNER AND ARCH DWGS THE EXACT LOCATION AND REQTS. IF FIXTURE IS TO REMAIN, CLEAN, REPAIR, RE-LAMP, RE-BALLAST AND PAINT FIXTURE PER OWNER REQTS. OWNER SHALL DETERMINE WHETHER FIXTURE IS TO REMAIN AND BE RESTORED OR BE REPLACED WITH NEW FIXTURE TO MEET NEW TENANT REQTS. SEE SHEET E2.0.
5. APPROXIMATE LOCATION OF EXISTING WALL MOUNTED TENANT PERSONNEL DOOR LIGHTING FIXTURE. FIELD VERIFY WITH OWNER AND ARCH DWGS THE EXACT LOCATION AND REQTS. IF FIXTURE IS TO REMAIN, CLEAN, REPAIR, RE-LAMP, RE-BALLAST AND PAINT FIXTURE PER OWNER REQTS. OWNER SHALL DETERMINE WHETHER FIXTURE IS TO REMAIN AND BE RESTORED OR BE REPLACED WITH NEW FIXTURE TO MEET NEW TENANT REQTS. SEE SHEET E2.0.
6. EXISTING TENANT PANELBOARDS TO REMAIN. RECONFIGURE AS SHOWN ON PLANS. CLEAN, REPAIR AND REPLACE AS REQD. REFER TO PANEL SCHEDULES FOR ADDITIONAL REQTS. FIELD VERIFY EXACT LOCATION AND REQTS WITH OWNER, TENANT AND ARCH DRAWING PRIOR TO BID/ROUGH-IN.
7. EXISTING FIRE SPRINKLER RISER. FIELD VERIFY WITH OWNER AND FIRE PROTECTION DWGS THE EXACT LOCATION AND REQTS. SEE SPRINKLER RISER DETAIL ON SHEET E4.0 FOR ADDITIONAL REQTS.



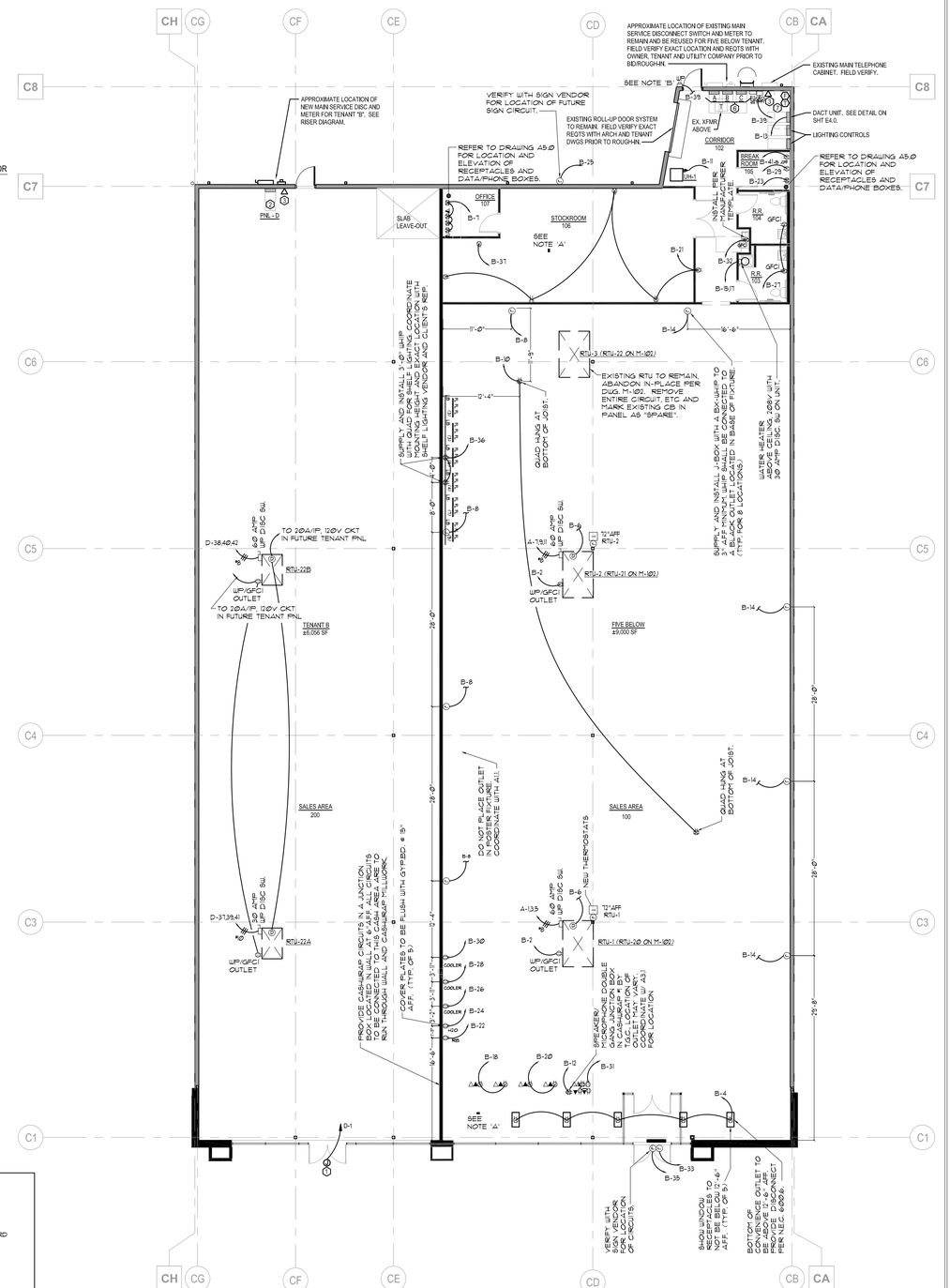
B SEC. @ PERIMETER SHELVING



A ELECTRICAL LEGEND

SHEET NOTES

1. REFER TO TENANT IMPROVEMENT (TI) DRAWINGS FOR ADDITIONAL REQTS.



NOTES:
A - SIGNAL BELL SHALL BE MOUNTED ABOVE CEILING NEAR STOREFRONT AND IN STOCK ROOM NEAR MANAGER'S OFFICE. EDWARDS - #EDW130

B - SIGNAL BELL PUSH BUTTON TO SIGNAL BELL NEAR STOREFRONT AND BELL IN STOCK ROOM NEAR MANAGER'S OFFICE. TRANSFORMER 4 P.B. 48" AFF. CIRCUIT B-39. EDWARDS #EDU5-92.

ELECTRICAL NOTES:

ALL WIRING BY CONTRACTOR UNLESS OTHERWISE NOTED.

ALL OUTLET COVERS AND FACEPLATES SHOWN TO BE WHITE, EXCEPT TOE KICK AT LOZIER FIXTURES

1 / E1.0 FLOOR PLAN - ELECTRICAL
3/32" = 1'-0"

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Date	Project No.
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Sheet Title
POWER PLAN

Sheet No.
E1.0

■ Released for Construction
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TYPE	SYMBOL	MANUFACT./CAT. #	DESCRIPTION	MOUNTING TYPE	LAMP(S)	VOLTS	WATTS	REMARKS
A		DAY-BRITE LIGHTING T-2-32-UNV	4' 2- LAMP STRIP SINGLE END WIRED	CEILING MOUNTED	LED T8	277	34	.
A1		DAY-BRITE LIGHTING TIK-8-3-32-UNV/ (2) IK-BF	8' INDUSTRIAL WITH CROSS BAFFLE	CABLE MOUNTED	LED T8	277	102	A1/NL SIM.- SEE ELEC. PLANS FOR WIRING
A1.1		DAY-BRITE TIK-8-3-32-UNV/ (1) IK-BF	4' INDUSTRIAL WITH CROSS BAFFLE	CABLE MOUNTED	LED T8	277	51	A1/NL SIM.- SEE ELEC. PLANS FOR WIRING
A2		DAY-BRITE LIGHTING TT-2-32-UNV	8' 2-LAMP STRIP SINGLE END WIRED	CABLE MOUNTED	LED T8	277	68	A2/NL SIM- SEE ELEC. PLANS FOR WIRING
A3		DAY-BRITE LIGHTING TT-2-32-UNV	8' 2-LAMP STRIP SINGLE END WIRED	CEILING MOUNTED	LED T8	277	68	A2/NL SIM- SEE ELEC. PLANS FOR WIRING
B		SENNCO SOLUTION 9-0650-1000-01-00	DUMMY DOME DROP CAMERA	PENDANT MOUNTED	-	-	-	PROVIDED BY FB & INSTALLED BY T.G.C. T.G.C. TO PROVIDE & INSTALL BATTERIES
E	SP		SPEAKER		-	-	-	PROVIDED & INSTALLED BY F.B.
F		EXITRONIX APXTR	UNIVERSAL EXIT LED RED	SURFACE MOUNTED	LED	277	2	.
FL		LOZIER QUICK CONNECT LIGHTS LKQC-3-LED4000	3' OR 4' UNDER SHELF LIGHTING REFER TO PLAN	MAGNET MOUNTED	LED	24	3/FT	PROVIDED BY FB & INSTALLED BY T.G.C.
G		SURE-LITE APEL	DUAL HEAD EMERGENCY W/ BATTERY PACK	CEILING MOUNTED (HUNG) SEE DETAIL	LED	277	.78	SEE DTL. 4/A2.0 FOR MOUNTING
I		CON-TECH LIGHTING RL38- CTR3802-CLR	6" INCANDESCENT DOWNLIGHT SPECULATOR & TRIM: CLEAR	RECESSED FIXTURE	17W PAR 38 LED	120	25	.
J		EXITRONIX LL12-54-0-W/ T1212W	DUAL HEAD REMOTE W/ BATTERY	SURFACE MOUNTED	-	12	12	.
L		COOPER XTOR2B-W	EXTERIOR WALL PACK	SURFACE MOUNTED	LED	277	18	.
LB		MDI WORLDWIDE X-6196-4BRK-8LM7@	4' FIXTURE LIGHTING IN STYLE SECTION	CLIP MOUNTED	LED	120	--	PROVIDED BY F.B. & INSTALLED BY T.G.C.
LT-4		HOUSING: JUNO T4LH LAMP:PHILLIPS 17PAR38X540940/R534WH	4' TRACK	THREADED ROD PAINTED P-1	LED	120	17	B.O. TRACK LIGHTS @ 12'-4" A.F.F. U.O.N.
LT-8		HOUSING: JUNO T8LH LAMP:PHILLIPS 17PAR38X540940/R534WH	8' TRACK	THREADED ROD PAINTED P-1	LED	120	17	B.O. TRACK LIGHTS @ 12'-4" A.F.F. U.O.N.
M		EELIP WP29-Q-46L-QT-50K	EXTERIOR SCONCE	SURFACE MOUNTED	LED	277	46	.
N		COOPER PR8S-30-D@0-MW/ PR8M34-MD-MW	UNDER CANOPY LIGHT	SURFACE MOUNTED	LED	277	28.5	.
	OS		OCCUPANCY SENSOR	CEILING, WALL				.

NOTE:
LIGHT FIXTURES WILL BE PROCURED THROUGH A NATIONAL LIGHTING PROGRAM WITH VILLA LIGHTING. VILLA-LIGHTING CORPORATE HAS NEGOTIATED DISCOUNTED, BULK PRICING FOR BENEFIT OF ITSM. LANDLORD BUILT PROJECTS NATIONWIDE. PRODUCT WILL BE STOCKED AT VILLA LIGHTING'S DISTRIBUTION CENTER IN ST. LOUIS, MO. AND CAN SHIP WITHIN 48 HOURS OF RELEASE. PLEASE ALLOW A MAXIMUM OF 4-5 DAYS OF TRAVEL AFTER RELEASE. CONTACT DEREK VICKROY AT (314) 633-0564 OR DEREK.VICKROY@VILLALIGHTING.COM

VERIFY EXACT LOCATION, MOUNTING AND FINISH REQUIREMENTS OF ALL LIGHTING FIXTURES WITH ARCH AND TENANT IMPROVEMENT DWGS PRIOR TO BID/ROUGH-IN. VERIFY LIGHTING FIXTURE SPECIFICATIONS WITH OWNER AND TENANT PRIOR TO ORDERING FIXTURES AND ACCESSORIES.

2 LIGHTING FIXTURE SCHEDULE

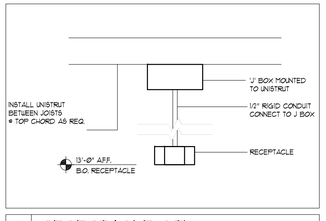
TAG	CON-TECH CURRENT LIMITING DEVICES		
TC-0.5	TCLCB-0.5A	60W	0.5A
TC-1	TCLCB-1A	120W	1A
TC-2	TCLCB-2A	240W	2A
TC-3	TCLCB-3A	360W	3A
TC-4	TCLCB-4A	480W	4A
TC-5	TCLCB-5A	600W	5A
TC-6	TCLCB-6A	720W	6A
TC-7	TCLCB-7A	840W	7A
TC-8	TCLCB-8A	960W	8A
TC-9	TCLCB-9A	1,080W	9A
TC-10	TCLCB-10A	1,200W	10A
TC-12	TCLCB-12A	1,440W	12A
TC-14	TCLCB-14A	1,680W	14A

CONTRACTOR TO FURNISH AND INSTALL CURRENT LIMITERS TO LIMIT THE WATTAGE AVAILABLE FOR THE TRACK. CONTRACTOR TO UTILIZE JUNO TCLFM11 WH (TITLE 24 COMPLIANT-CALIFORNIA) CURRENT LIMITING DEVICE OR EQUIVALENT.

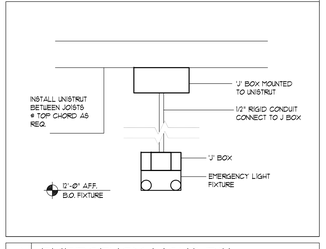
ALL TRACK LIGHTING TO BE MOUNTED PER SHEET A2.0

NOTE:
ALL UNIT EQUIPMENT (EMERGENCY LIGHTING) SHALL BE WIRED AHEAD OF SWITCH OR CONTROL OF NORMAL LIGHTING CIRCUIT SERVING THAT AREA. THE BRANCH CIRCUIT FEEDING THE UNIT EQUIPMENT SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES. THE BRANCH CIRCUIT THAT FEEDS UNIT EQUIPMENT SHALL BE CLEARLY IDENTIFIED AT THE DISTRIBUTION PANEL.
IN A SEPARATE AND UNINTERRUPTED AREA SUPPLIED BY A MINIMUM OF THREE NORMAL LIGHTING CIRCUITS, A SEPARATE BRANCH CIRCUIT FOR UNIT EQUIPMENT SHALL BE FROM THE SAME PANELBOARD AS THAT OF THE NORMAL LIGHTING CIRCUITS AND PROVIDED WITH A LOCK-ON FEATURE.

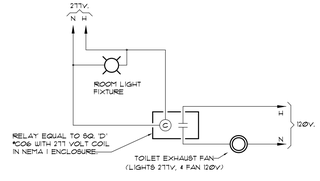
NOTE:
REFER TO ARCH A2.0 FOR DIMENSIONS OF LIGHTING



3 RECEPTACLE DTL.



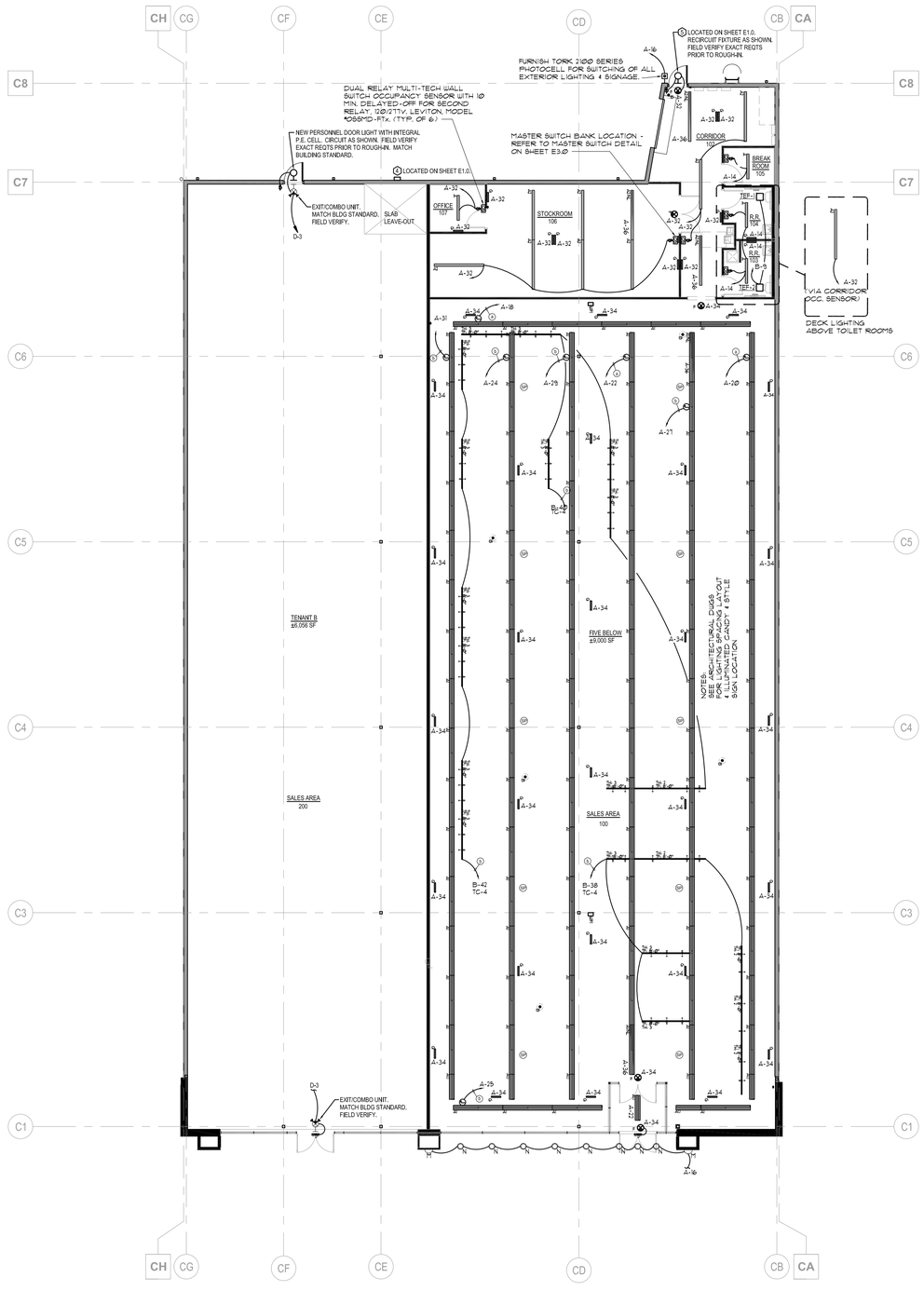
4 EMERGENCY LIGHT DTL.



5 TOILET LIGHT (277V) / EXHAUST FAN (120V) CONTROL DIAGRAM

SHEET NOTES

1. REFER TO TENANT IMPROVEMENT (TI) DRAWINGS FOR ADDITIONAL REQTS.



1 E2.0 FLOOR PLAN - LIGHTING
3/32" = 1'-0"

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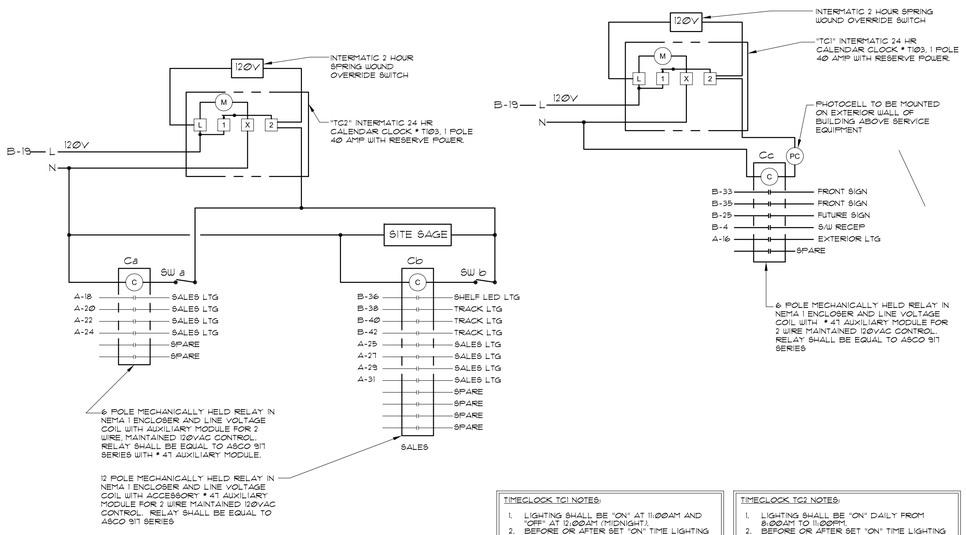
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
LIGHTING PLAN

Sheet No.
E2.0

■ Released for Construction
□ Not Released for Construction



TIMECLOCK TC1 NOTES:

1. LIGHTING SHALL BE "ON" AT 11:00AM AND "OFF" AT 12:00AM (MIDNIGHT), BEFORE OR AFTER SET "ON" TIME LIGHTING TO BE CONTROLLED BY MANUAL OVERRIDE SWITCH.

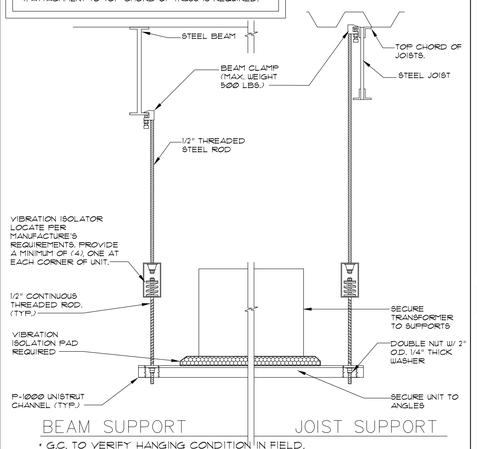
TIMECLOCK TC2 NOTES:

1. LIGHTING SHALL BE "ON" DAILY FROM 8:00AM TO 11:00PM
2. BEFORE OR AFTER SET "ON" TIME LIGHTING TO BE CONTROLLED BY MANUAL OVERRIDE SWITCH.

3 CONTACTOR TIME CLOCK DETAILS
NTS

NOTES:

1. CONSULT WITH LANDLORD'S STRUCTURAL ENGINEER FOR LOCATION AND HANGING REQUIREMENTS FOR EQUIPMENT 300 LBS. OR MORE.
2. SIZE OF STRUCTURAL SUPPORTS (ROD ANGLES, ETC.) ARE MIN. AND SHALL BE SIZED BY TENANT OR TENANT'S CONTRACTOR AS REQUIRED FOR PROPER SUPPORT AND STRUCTURAL INTEGRITY.
3. DO NOT DRILL HOLES IN EXISTING STRUCTURAL MEMBERS UNLESS APPROVED BY LANDLORD IN WRITING.
4. ATTACHMENT TO TOP CHORD OF TRUSS IS REQUIRED.



6 HANGING TRANSFORMER DETAIL

ALL PANEL BRANCH CIRCUITS ARE BY L.L. UNLESS OTHERWISE NOTED.

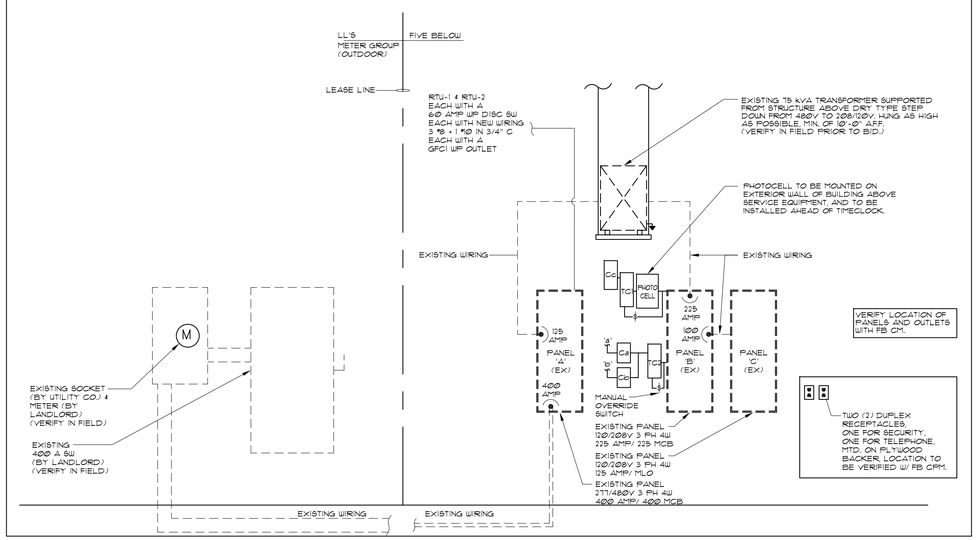
ELECTRICAL LOAD SUMMARY
277/480V, 3PH, 4W

LOAD DESCRIPTION	CONNECTED LOAD (W)	DEMAND FACTOR	DEMAND LOAD (WATTS)	DEMAND LOAD (AMPS)
LED LIGHTING	13,088	1.25	16,400	19.7
INCANDESCENT LIGHTING	0	1.25	0	0
RECEPTACLES	18,846	1.0 [1]	14,400	17.3
STOREFRONT SIGN	3,600	1.25	4,500	5.4
S/W & PUCK RECEPTACLES	1,020	1.0	1,000	1.2
WATER HEATER	3,000	1.25	3,800	4.6
EXHAUST FANS	200	1.0	200	0.2
HVAC UNITS	27168	1.0 [2]	27168	32.7
UNIT HEATER	200	1.0	200	0.2
SPARE	0	1.0	0	0
ADD'L TO MEET NEC 220.12	6,580	1.25 [3]	8,200	9.9
TOTAL	73701		75668	91.2

NOTES:
1. DEMAND FACTOR OF 1.0 FOR FIRST 10KW, 0.5 IN EXCESS OF 10KW
2. 125% OF LARGEST MOTOR OR COMPRESSOR IN SYSTEM APPLIED ONLY ON ONE UNIT.
3. NEC ARTICLE 220-12 REQUIREMENT (200 VA PER FOOT OF SHOW WINDOW) MINUS ACTUAL SHOW WINDOW LIGHTING KVA.

2 ELECTRICAL PANEL SCHEDULE AND LOAD SUMMARY
NTS

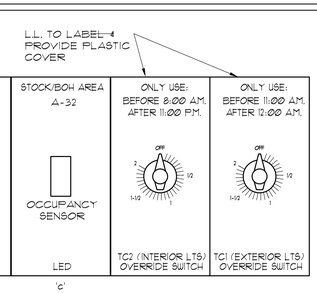
NOTES:
1. ALL WORK BY LANDLORD CONTRACTOR.
2. TELEPHONE CONDUIT TO HAVE 25 PAIR WIRE FROM LANDLORD ROOM TO TENANT SPACE.
3. ELECTRICAL CONTRACTOR TO INSTALL PANELS IN A CLOSE, COMPACT LAYOUT.
4. ONLY USE 7 DAY TIMECLOCK IN BLUE LAW AREAS OTHERWISE USE A 24 HOUR TIMECLOCK.



1 RISER DIAGRAM
NTS

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION.
2. ALL SWITCHES ARE TO BE @ 46" AFF, AND ARE TO BE 20A 120/277V 'T' RATED SPEC. GRADE TYPE.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE, AND ANY OTHER LOCAL CODES AND ORDINANCES.
4. WORKMANSHIP SHALL BE FIRST QUALITY AND IN ACCORDANCE WITH BEST PRACTICES FOR THE TRADE BY SKILLED WORKERS.
5. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH OTHER TRADES AND THE OWNER OF THE OWNERS AUTHORIZED REPRESENTATIVE.
6. UNLESS OTHERWISE NOTED, CONDUCTOR INSULATION SHALL BE TYPE THHN, RATED 600V AC AND 75 DEG. C. CONDUCTORS FOR USE IN POWER AND LIGHTING CIRCUITS NO. 10 AND SMALLER SHALL BE SOLID, NO. 8 AND LARGER CONDUCTORS SHALL BE STRANDED. CONDUCTORS FOR USE IN CONTROL AND SIGNAL CIRCUITS SHALL BE NO. 14 STRANDED. ALL CONDUCTORS SHALL BE COPPER.
7. CONDUIT RUNS SHALL BE INSTALLED PER STATE AND LOCAL CODES.
8. ALL MATERIALS SHALL BE NEW, WITH UL. APPROVED LABELS.
9. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT AND OPEN CIRCUITS.
10. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.
11. THE CONTRACTOR SHALL FURNISH THE CERTIFICATE OF ELECTRICAL INSPECTION TO THE OWNER AT THE COMPLETION OF THIS PROJECT.
12. ALL ELECTRICAL EQUIPMENT SHOWN SHALL BE ELECTRICALLY PROTECTED AND PROPERLY WIRED IN ACCORDANCE WITH THE STATE BUILDING CODES. COORDINATE LOCATIONS AND ELECTRICAL DATA WITH THE OWNER.
13. FLEXIBLE METAL RACEWAYS 6 FEET OR LESS IN LENGTH SHALL BE PROVIDED TO ALL ELECTRICAL EQUIPMENT SUBJECT TO VIBRATION OF MOVEMENT AND FOR ALL MOTORS. LIQUID TIGHT RACEWAYS SHALL BE USED IN WET LOCATIONS.
14. SUPPLY AND INSTALL NEW ELECTRICAL SERVICE AND PANELS AS SHOWN.
15. ALL EXISTING CONDUIT AND CONDUCTORS THAT ARE NOT TO BE USED IN THE REMODEL MUST BE REMOVED, OBSOLETE AND DILAPIDATED WIRING AND EQUIPMENT SHALL NOT BE REUSED.

5 NOTES
NTS



4 MASTER LIGHTING SWITCH BANK
NTS

EXISTING PANEL "A"

REMKS		ITEM	CONT	N.C.	A	B	C	N.C.	CONT	ITEM		REMKS
3P/45A	1	RTU-1 (AKA:RTU-20)		8026				.			2	3P/45A
---	3	---		8026				.		---	4	---
---	5	---		8026				.		---	6	---
3P/50A	7	RTU-2 (AKA:RTU-21)		1030				1500		ROLL UP DOOR (EX)	8	3P/15A
---	9	---		1030				1500		---	10	---
---	11	---		1030				1500		---	12	---
	13	SPARE							120	TOILET LIGHTING	14	
	15	SPARE							428	EXTERIOR LIGHTING	16	TC1
	17	SPARE							612	SALES LIGHTING	18	TC2(a)
	19	SPARE							1581	SALES LIGHTING	20	TC2(a)
	21	SPARE							1480	SALES LIGHTING	22	TC2(a)
	23	SPARE							1581	SALES LIGHTING	24	TC2(a)
TC2(b)	25	SALES LIGHTING	612							SPARE	26	
TC2(b)	27	SALES LIGHTING	1480							SPARE	28	
TC2(b)	29	SALES LIGHTING	1581							SPARE	30	
TC2(b)	31	SALES LIGHTING	1581						700	STOCK RM LIGHTING	32	
	33	SPARE							300	EM/EXIT LIGHTS	34	L
	35	SPARE							450	NIGHT LIGHTS	36	L
	37	SPARE								SPARE	38	
	39	UNUSABLE								UNUSABLE	40	
	41	UNUSABLE								UNUSABLE	42	
								8280	1550	TRANSFORMER		3P/125A
								7465	1680	SUBFEED		
								7640	2080			
TOTALS			5254	27168				27885	12572	TOTALS		
PHASE 'A'			36902	6154	30748			HIGH PHASE		36902		
PHASE 'B'			35301	5368	29933			LOW PHASE		35301		
PHASE 'C'			36412	5854	30108			DIFFERENCE		1601		
TOTALS			72879									
								5% IS < 10% SO PANEL IS BALANCED				
CONTINUOUS LOADS			17826	1.25				22283				
NONCONTINUOUS LOADS			55053	1				55053				
CONNECTED LOAD			72879					77336	WATTS AT 480 VOLTS / 3 PHASE			
								93	AMPERES			

SERVICE IS 277/480 VOLT; 3 PHASE; 4 WIRE
PANEL SHALL BE RATED AT 400 AMPS WITH 400 AMP MAIN CIRCUIT BREAKER
L = BREAKER WITH LOCK ON DEVICE — WP = A NEMA 3R RATED DEVICE
TC1, TC2 = CIRCUIT CONTROLLED BY A TIMER CONTACTOR — GFI = GROUND FAULT
* = DEDICATED CIRCUIT WITH AN ISOLATED GROUND

EXISTING PANEL "B"

REMKS		ITEM	CONT	N.C.	A	B	C	N.C.	CONT	ITEM		REMKS
3P/100A	1	PANEL C	0	0				540		RTU RECEPTS	2	WP/GFI
---	3	---	0	0				1200		S/W & PUCK RECEPTS	4	TC1
---	5	---	0	0				200		SMOKE DETECTORS	6	
	7	MAN QUAD RECEPT		1440				1200		SALES J-BOX	8	
	9	TF-1 & TEF-2		305				720		CEILING RECEPTS	10	
1P/30A	11	UH-1		200				380		SPKR RECEPT	12	
1P/20A/L	13	DACT UNIT		200				1200		SALES J-BOX	14	
2P/20A/L	15	WATER HEATER		1500						SPARE	16	
---	17	---		1500				900		CASHWRAP	18	*
L	19	TIME CLOCKS		400				540		CASHWRAP	20	*
	21	STOCK RM RECEPTS		900				1000		RB COOLER	22	
	23	STOCK DESK RECEPT		360				1000		COOLER	24	
TC1	25	FUTURE SIGN	1200					1000		COOLER	26	
	27	TOILET RM RECEPTS		360				1000		COOLER	28	
	29	STOCK MICROWAVE		1100				1000		COOLER	30	
	31	CASHWRAP		360				600		DRNK FNTN	32	
TC1	33	STOREFRONT SIGN	1200							SPARE	34	
TC1	35	STOREFRONT SIGN	1200						400	SHELF LIGHTING	36	TC2(a)
	37	STOCK COOLER		1000					360	TRACK LIGHTING	38	TC2(a)
L	39	SECURITY/ TELE/ BUZZER		480					480	TRACK LIGHTING	40	TC2(a)
	41	STOCK REFRIGERATOR		1000					480	TRACK LIGHTING	42	TC2(a)
TOTALS			3600	10905				12480	1720	TOTALS		
PHASE 'A'			9840	1560	8280			HIGH PHASE		9840		
PHASE 'B'			9145	1680	7465			LOW PHASE		9145		
PHASE 'C'			9720	2080	7640			DIFFERENCE		695		
TOTALS			28705									
								8% IS < 10%, SO PANEL IS BALANCED				
CONTINUOUS LOADS			5320	1.25				6650				
NONCONTINUOUS LOADS			23385	1				23385				
CONNECTED LOAD			28705					30035	WATTS AT 208 VOLTS / 3 PHASE			
								93	AMPERES			

SERVICE IS 120/208 VOLT; 3 PHASE; 4 WIRE
PANEL SHALL BE RATED AT 225 AMPS WITH 225 AMP MAIN CIRCUIT BREAKER
L = BREAKER WITH LOCK ON DEVICE — WP = A NEMA 3R RATED DEVICE
TC1, TC2 = CIRCUIT CONTROLLED BY A TIMER CONTACTOR — GFI = GROUND FAULT
* = DEDICATED CIRCUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS: 10,000 A.I.C
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE.
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE.

EXISTING PANEL "C"

REMKS		ITEM	CONT	N.C.	A	B	C	N.C.	CONT	ITEM		REMKS
	1	SPARE								SPARE	2	
	3	SPARE								SPARE	4	
	5	SPARE								SPARE	6	
	7	SPARE								SPARE	8	
	9	SPARE								SPARE	10	
	11	SPARE								SPARE	12	
	13	SPARE								SPARE	14	
	15	SPARE								SPARE	16	
	17	SPARE								SPARE	18	
	19	SPARE								SPARE	20	
	21	SPARE								SPARE	22	
	23	SPARE								SPARE	24	
	25	SPARE								SPARE	26	
	27	SPARE								SPARE	28	
	29	SPARE								SPARE	30	
	31	SPARE								SPARE	32	
	33	SPARE								SPARE	34	
	35	SPARE								SPARE	36	
	37	SPARE								SPARE	38	
	39	SPARE								SPARE	40	
	41	SPARE								SPARE	42	
TOTALS			0	0				0	0	TOTALS		
PHASE 'A'			0	0	0			HIGH PHASE		0		
PHASE 'B'			0	0	0			LOW PHASE		0		
PHASE 'C'			0	0	0			DIFFERENCE		0		
TOTALS			0									
CONTINUOUS LOADS			0	1.25				0				
NONCONTINUOUS LOADS			0	1				0				
CONNECTED LOAD			0					0	WATTS AT 208 VOLTS / 3 PHASE			
								0	AMPERES			

SERVICE IS 120/208 VOLT; 3 PHASE; 4 WIRE
PANEL SHALL BE RATED AT 125 AMPS WITH MAIN LUGS ONLY
L = BREAKER WITH LOCK ON DEVICE — WP = A NEMA 3R RATED DEVICE
TC1, TC2 = CIRCUIT CONTROLLED BY A TIMER CONTACTOR — GFI = GROUND FAULT
* = DEDICATED CIRCUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS: 10,000 A.I.C
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE.
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE.

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architecture/interiors

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FIVE BELOW

A DEVELOPMENT BY:

Hall Equities Group
Real Estate Investment • Development • Management

7401 ALCOA RD
BRYANT, AR 72022

Print Record

13 MARCH 2018	PERMIT SET

Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
ELECTRICAL PANEL SCHEDULE, RISER & NOTES

Sheet No.
E3.0

■ Released for Construction
□ Not Released for Construction

DEMOLITION NOTES

A. EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED, EXISTING WORK IS TO REMAIN AND BE MAINTAINED OPERATIONAL.

B. CONTRACTOR SHALL DO ANY AND ALL CUTTING AND PATCHING REQUIRED FOR THIS SCOPE OF WORK, RESTORING ALL SURFACES TO THEIR ORIGINAL CONDITION. ALTERATIONS TO ANY STRUCTURAL MEMBER, EITHER STEEL OR CONCRETE, SHALL REQUIRE THE APPROVAL OF THE OWNER.

C. ALL DIMENSIONS INDICATED ON PLANS ARE NOMINAL. EXACT DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

D. WHERE PIPES, CONTROL DEVICES AND WIRING ARE DISCONNECTED FOR THE REMOVAL OR RELOCATION OF EQUIPMENT OR BECAUSE OF BUILDING ALTERATIONS, THEY SHALL BE RECONNECTED AND MADE OPERATIONAL.

E. CONTRACTOR SHALL REMOVE ALL SUPPORTING FACILITIES NO LONGER NEEDED OR MADE OBSOLETE BY THE NEW EQUIPMENT AND MATERIALS FURNISHED IN THIS CONTRACT. SUCH REMOVAL INCLUDES, BUT IS NOT LIMITED TO, EXPOSED CONDUIT RUNS WITH WIRING AND SUPPORT BRACKETS, ABANDONED PIPING SUPPORT FRAMES OR BASES, SWITCHES AND CONTROLS.

F. EXISTING CONDITIONS: VISIT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE SUBMITTING BID. THE CONTRACTOR, IN UNDERTAKING THIS CONTRACT, IS ASSUMED TO HAVE VISITED THE PREMISES AND TO HAVE TAKEN INTO CONSIDERATION ALL CONDITIONS WHICH MIGHT AFFECT HIS WORK. NO CONSIDERATION WILL BE GIVEN ANY CLAIMS BASED ON LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

G. THE CONTRACT DOCUMENTS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE MODIFICATIONS AND ADDITIONS TO THE EXISTING SYSTEM. IF ANY DEPARTURES FROM THE CONTRACT DOCUMENTS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED IN WRITING FOR APPROVAL.

H. WHERE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, SHUTDOWN AT NIGHT OR AT SUCH TIMES AS APPROVED BY OWNER WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, TO ASSURE THAT SERVICES WILL BE SHUTDOWN ONLY DURING TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTION TO EXISTING WORK.

I. REPLACE CONDUIT AND CONDUCTORS REMOVED OR DAMAGED DURING THE PROGRESS OF THE WORK WITH NEW INSTALLATION EQUIVALENT TO THE ORIGINAL.

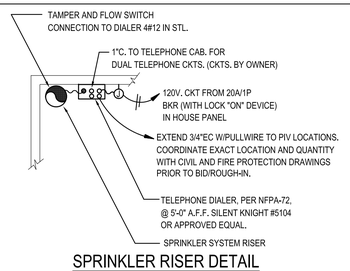
J. UNLESS OTHERWISE NOTED, ALL MATERIALS AND EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.

K. DEMOLITION OF ALL ELECTRICAL EQUIPMENT SHALL BE INCLUDED IN BID PRICE.

L. NO EXISTING DEVICE TO REMAIN SHALL BE LEFT WITHOUT POWER.

ELECTRICAL ABBREVIATIONS

A	.....AMPERE
AFF	.....ABOVE FINISHED FLOOR
AIC	.....AMPERE INTERRUPTING CAPACITY
AWG	.....AMERICAN WIRE GUAGE
BC	.....BELOW CEILING
BKR	.....BREAKER
CKT	.....CIRCUIT
DF	.....DRINKING FOUNTAIN
EX	.....EXISTING
FACP	.....FIRE ALARM CONTROL PANEL
GFI	.....GROUND FAULT INTERRUPTER
G OR GND	.....GROUND
HP	.....HORSE POWER
J OR JB	.....JUNCTION BOX
KCMIL	.....THOUSAND CIRCULAR MILS
MCB	.....MAIN CIRCUIT BREAKER
MCM	.....THOUSAND CIRCULAR MILS
MLO	.....MAIN LUGS ONLY
NL	.....NIGHT LIGHT
NTS	.....NOT TO SCALE
MH	.....MOUNTING HEIGHT
RT	.....RAINTIGHT
ST	.....SHUNT TRIP
TV	.....TELEVISION
TVSS	.....TRANSIENT VOLTAGE SURGE SUPP.
UL	.....UNDERWRITER; LABORATORY
UNO	.....UNLESS NOTED OTHERWISE
V	.....VOLTS
W	.....WATTS
WP	.....WEATHERPROOF
Y	.....WYE



SPRINKLER RISER DETAIL

NOT TO SCALE

A. SCOPE OF WORK

1. FURNISH ALL LABOR AND MATERIAL TO COMPLETE ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS

2. THE LISTING OF ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL PROVIDE AND INSTALL, UNLESS NOTED TO BE SUPPLIED BY OTHERS, EACH ITEM LISTED OF QUALITY OR SUBJECT TO QUALIFICATION NOTED, EACH OPERATION SHALL BE PERFORMED ACCORDING TO STANDARD PRACTICE, MANUFACTURER'S INSTRUCTIONS AND CONDITIONS STATED, PROVIDING, THEREFORE, ALL NECESSARY LABOR, EQUIPMENT AND INCIDENTALS.

3. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE HIS WORK TO CONFORM TO THE PROGRESS OF THE OTHER TRADES AND CONTRACTORS EMPLOYED ON THIS PROJECT. THE PRINCIPAL ITEMS OF WORK INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

   A. PROVIDE ELECTRICAL SERVICE INCLUDING CONDUITS, CABLES, TERMINATIONS, METERING EQUIPMENT, ETC. IN ACCORDANCE WITH UTILITY REQUIREMENTS AND DRAWINGS

   B. PROVIDE LIGHTING FIXTURE AS SHOWN ON DRAWINGS. THIS SHALL INCLUDE ALL ASSOCIATED LAMPS, BOXES, SWITCHES, CONTRACTORS, AND BRANCH CIRCUIT WIRING AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

   C. PROVIDE DEVICES (RECEPTACLES, SWITCHES, ETC.) AS SHOWN ON DRAWINGS. THIS SHALL INCLUDE ALL ASSOCIATED BRANCH CIRCUIT WIRING AND MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.

   D. POWER FEEDERS TO HVAC EQUIPMENT INCLUDING RTU'S, EXHAUST FANS, INCLUDING DISCONNECT SWITCHES, CONTROL DEVICES, STARTERS FOR MOTORS NOT FURNISHED BY OTHERS. (CONSULT HVAC CONTRACTOR FOR PHASE AND VOLTAGE OF EQUIPMENT AND ACTUAL NAMEPLATE RATINGS FOR FEEDER MINIMUM CONDUCTOR AMPACITIES (MCA) AND MAXIMUM OVERCURRENT PROTECTION DEVICES (MOCPD) INFORMATION PRIOR TO INSTALLATION AND PRIOR TO PURCHASING ELECTRICAL EQUIPMENT.

   E. PROVIDE POWER DISTRIBUTION EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, CONTRACTORS, MOTOR STARTERS, ENCLOSED CIRCUIT BREAKERS, ETC.) AS SHOWN ON DRAWINGS OR AS REQUIRED FOR THIS PROJECT. THIS SHALL INCLUDE ALL WIRING AND ASSOCIATED MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.

   F. NOT USED.

   G. PROVIDE TESTING OF ALL ELECTRICAL EQUIPMENT.

   H. PROVIDE TIMERS, PHOTOCELLS, AND CONTRACTORS FOR CONTROL OF EXTERIOR LIGHTING AND HVAC EQUIPMENT.

   I. PROVIDE BACKBOXES, FULLSTATIONS, AND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ALL VOICE AND COMMUNICATIONS OUTLETS.

   J. PROVIDE CONDUIT, JUNCTION BOXES, 115 VOLT FEEDERS, BACKBOXES, ETC. AS REQUIRED FOR SECURITY SYSTEM CAMERAS, ELECTRICAL DOOR STRIKES, ALARMS, REQUEST TO EXIT, MOTION SENSORS, CARD READERS, KEYPADS AND MAIN SECURITY PANEL AS PER DRAWINGS OR AS DIRECTED BY OWNER OR ARCHITECT. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BIDS.

   K. PROVIDE EMERGENCY LIGHTING, BATTERY UNITES, REMOTE HEADS, EXIT LIGHTS AND ALL ASSOCIATED WIRING, CONDUIT, JUNCTION BOXES, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.

A. INSTALLATION

1. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE PRESENT CONDITIONS AND VERIFY EXACT LOCATION OF EQUIPMENT AND LOCAL REGULATIONS PRIOR TO SUBMITTING BID.

2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AN PATCHING OF EXISTING WALLS CEILINGS AND FLOOR SLABS NECESSARY FOR THE COMPLETION OF HIS WORK.

3. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK AND MATERIAL SHOUN SHALL BE PERFORMED, FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

4. THE COMPLETE INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND CITY CODES, RULES, REGULATIONS AND ORDINANCE. ALSO MAKE APPLICATION FOR AN ND PAY ALL FEES IN CONNECTION WITH ANY PERMITS, TESTS AND INSPECTIONS THAT MAY BE REQUIRED.

5. GUARANTEE ALL WORKMANSHIP, MATERIAL AND PERFORMANCE FOR PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

6. THE EXACT MOUNTING LOCATIONS OF APPARATUS, DEVICES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM OUNER OR THEIR REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAID OUT ACCORDINGLY. SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT THIS OUN EXPENSE WHEN SO ORDERED BY OUNER, THE OUNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CABLE, CONDUIT AND EQUIPMENT INSTALLED BY THIS CONTRACTOR UP TO THE TIME OF INSTALLATION, WITHOUT ADDITIONAL COST.

7. ALL CONDUCTORS SHALL BE COPPER, THHN INSULATION UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE IN EMT OR MC CABLE RUN CONCEALED IN FINISHED AREAS AND NOT SUBJECT TO PHYSICAL DAMAGE. RUN EMT IN UNFINISHED CEILING AREAS.

8. RUN ALL CONDUIT CONCEALED IN BLOCK WALLS AND RECESS ALL DEVICES IN BIRCH WALLS TO THE EXTENT POSSIBLE AND/OR PRACTICAL.

B. DRAWINGS AND SPECIFICATIONS

1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND PIPING. DIMENSIONS GIVEN ON THE PLANS SHALL BE VERIFIED IN THE FIELD. DRAWINGS MAY NOT BE SCALED TO OBTAIN EXACT DIMENSIONS.

2. THE EXACT LOCATIONS OF APPARATUS, FIXTURES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM THE OUNER OR HIS REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAID OUT ACCORDINGLY. SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT HIS OUN EXPENSE WHEN SO ORDERED BY THE OUNER.

3. THIS CONTRACTOR SHALL FURNISH SUCH LABOR AND MATERIALS AS HERE-IN-AFTER SPECIFIED AND AS REQUIRED TO COMPLETE ALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT AND OUNER'S EQUIPMENT AS SHOUN AND/OR SPECIFIED.

D. VISITING TO THE SITE

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK, AND THE SUBMISSION OF HIS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE, NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM LACK OF SUCH KNOWLEDGE OF EXISTING CONDITIONS.

E. MATERIALS AND WORKMANSHIP

1. ALL WORK SHALL BE INSTALLED IN FRACTICAL AND WORKMANLIKE MANNER BY COMPETENT WORKMEN, SKILLED IN THEIR BRANCH OF THE TRADE.

2. UNLESS SPECIFICALLY SPECIFIED OR INDICATED ONT HE DRAWINGS TO THE CONTRARY, ALL MATERIALS SHALL BE NEU AND FREE FROM DEFECTS, AND SHALL BE THE BEST OF THEIR SEVERAL KINDS.

3. ALL MATERIALS SHALL MEET OR EXCEED STANDARDS SPECIFIED BY UL, NEMA, ANSI AND IEEE WHEREVER SUCH STANDARDS HAVE BEEN ESTABLISHED.

4. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS ASSOCIATED WITH HIS WORK AND LEAVE THE WORK AREA CLEAN AT THE END OF EACH WORK DAY.

5. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.

F. DEFINITIONS

1. "INSTALL" SHALL MEAN TO PLACE, FIX IN POSITION, SECURE, ANCHOR, ETC. INCLUDING NECESSARY APPURTENANCES AND LABOR SO THAT THE EQUIPMENT OR INSTALLATION WILL FUNCTION AS SPECIFIED AND INTENDED.

2. "FURNISH" SHALL MEAN TO PURCHASE AND SUPPLY EQUIPMENT OR COMPONENTS,

3. "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL".

4. "OR APPROVED EQUAL" AND "OR EQUAL" SHALL MEAN EQUAL IN TYPE, DESIGN, QUALITY, ETC. AS DETERMINED BY THE OUNER AND APPROVED BY THE ENGINEER.

G. CODES, PERMITS, AND INSPECTIONS

1. INSTALL ALL WORK IN FULL ACCORDANCE WITH CODES, RULES, AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS SHALL INCLUDE ALL DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODES, AS INTERPRETED BY THE LOCAL INSPECTION DIVISION. ALL THESE CODES, RULES AND REGULATIONS ARE HEREBY INCORPORATED INTO THIS SPECIFICATION.

2. COMPLY WITH SPECIFICATION REQUIREMENTS WHICH ARE IN EXCESS OF CODE REQUIREMENTS AND NOT IN CONFLICT WITH SAME.

3. THE CONTRACTOR SHALL SECURE ALL PERMITS AND CERTIFICATED OR INSPECTION INCIDENTAL TO HIS WORK, REQUIRED BY THE FOREGOING AUTHORITIES. ALL SUCH CERTIFICATES SHALL BE DELIVERED TO THE OUNER IN DUPLICATE, BEFORE FINAL PAYMENT ON CONTRACT WILL BE ALLOUED. THE CONTRACTOR SHALL PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREWITH.

H. LABELING AND NAMEPLATES

1. PERMANENTLY LABEL PANELBOARDS, TIME SWITCHES, CONTRACTORS AND SAFETY SWITCHES INDICATING EQUIPMENT OR PANELS AND AREAS WHICH THEY SERVE. LABEL ALL PULL AND JUNCTION BOXES SERVING MECHANICAL EQUIPMENT.

2. LIGHTING AND APPLIANCE PANELS SHALL BE LABELED AS SHOUN ON DRAWINGS.

3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION FOR PULL OR JUNCTION BOXES FURNISHED BY HIM.

4. IDENTIFY AS TO USE ON FACE OF EQUIPMENT BY MEANS OF LAMINATED BLACK AND WHITE PHENOLIC LABEL WITH 1/2" LETTERS ENGRAVED THROUGH BLACK TO WHITE.

I. TESTS AND VOLTAGE RECORD

1. ELECTRICAL CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS. WHEN THE INSULATION RESISTANCE TEST SHALL INDICATE THE POSSIBILITY OF FAULTY INSULATION, THE CONTRACTOR SHALL LOCATED THE POINTS OF SUCH FAULT INSULATION AND HE SHALL PULL OUT THE CONDUCTOR AT FAULT, REPLACE SAME WITH NEW, AND DEMONSTRATE, BY FURTHER TEST THE ELIMINATION OF SUCH FAULT.

2. RECORD FEEDER LOAD CURRENTS AND LINE VOLTAGES MEASURED AT EACH PANELBOARD, ADJUST SINGLE PHASE LOAD CONNECTIONS TO BALANCE FEEDER LOADS WITH 10%. PROVIDE THE OUNER WITH A COMPLETE COPY OF ALL LOAD AND VOLTAGE RECORDS.

J. BRANCH CIRCUIT WIRING

1. PROVIDE A SYSTEM OF PANELS, CONDUITS, FITTING, BOXES, SUPPORTS AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED FOR EQUIPMENT INDICATED ON PLANS, COMPLETE AND READY FOR OPERATION BY THE OUNER.

2. HOME RUNS FROM 20A OUTLETS 125 FT. OR OVER AT 277 VOLTS, OR 60 FT. OR OVER AT 120 VOLTS SHALL BE #10D WIRE.

3. ALL FIXTURE AND BRANCH CIRCUIT WIRING CONNECTIONS OR SPLICES SHALL BE MADE IN JUNCTION AND OUTLET BOXES WITH UL. LISTED PRESSURE TYPE. CONNECTORS AND LISTED FOR 600 VOLTS (1000 VOLTS WHEN ENCLOSED IN FIXTURE). IDEAL INDUSTRIES WING NUTS AND/OR WIRE NUTS OR APPROVED EQUAL MAY BE USED FOR JOINTS IN WIRE OF #8 GAUGE OR LESS.

K. CONDUCTORS

1. SIZES OF CONDUCTORS FOR FEEDERS ARE GIVEN ON THE DRAWINGS, AND NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED FOR BRANCH LIGHTING OR POUER CIRCUITS. ALL WIRING SHALL HAVE THE UL. LABEL, AND BE OF 98% CONDUCTIVITY COPPER, ALUMINUM WIRE OR ALUMINUM CABLE IS NOT ACCEPTABLE UNLESS SPECIFICALLY SHOUN ON DRAWINGS.

2. THE GAUGE OF ALL WIRE SHALL BE IN ACCORDANCE WITH B & S STANDARD.

3. ALL WIRE AND CABLE FOR BRANCH LIGHTING OR SMALL POUER CIRCUITS SHALL HAVE "NEC: TYPE "THHN" 600 VOLT INSULATION.

4. WIRE AND CABLE ABOVE #8 GAUGE SHALL BE STRANDED TYPE "THHN" INSULATED 600 VOLTS.

L. CONDUIT AND CABLES

1. ALL CONDUIT SHALL BE RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.

2. CONDUIT AND EMT SHALL BE DELIVERED TO THE BUILDING IN 10 FOOT LENGTHS AND EACH LENGTH SHALL HAVE THE APPROVED UNDERWRITER'S LABORATORIES LABEL.

3. CONDUIT SHALL BE RUN CONCEALED IN ALL FINISHED AREAS OF THE BUILDING AND MAY BE RUN EXPOSED IN UNFINISHED AREAS AT CEILING OF JOIST LEVEL. RUN CONCEALED IN BLOCK WALLS THE EXTENT THAT IS FRACTICAL.

4. EMT CONNECTORS AND COUPLERS SHALL BE RAIN TIGHT COMPRESSION TYPE (OR SET-SCREW WHERE ACCEPTABLE TO OUNER AND LOCAL CODES) MADE OF STEEL AS MANUFACTURED BY THOMAS & BETTS, STEEL CITY OF APPLETON. BENDS AND OFFSETS SHALL BE MADE WITH A HICKEY OR POUER BENDER (WITHOUT KINKING OR DESTROYING THE SMOOTH BORE OF THE CONDUIT. PARALLELED CONDUITS SHALL RUN STRAIGHT AND TRUE WITH OFFSETS UNIFORM AND SYMMETRICAL. CONDUIT TERMINALS AT BOXES AND CABINETS SHALL BE RIGIDLY SECURED WITH LOCKNUTS AND BUSHINGS AS REQUIRED BY THE NATION ELECTRICAL CODE. INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER.

5. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AT NO MORE THAN 10 FT. CENTERS, AND HANGER SUPPORTS, OR FASTENINGS SHALL BE PROVIDED WITHIN EACH CONDUIT ELBOW AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUSPENDED FROM THE CEILING OR CEILING SUSPENSION WIRES.

6. HORIZONTAL AND VERTICAL CONDUIT RUNS SHALL BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, OR THEIR APPROVED METAL DEVICE WITH SUITABLE BOLTS, OR BEAM CLAMPS FOR MOUNTING TO BUILDING STRUCTURE. USE SPECIAL BRACKETS. CONDUIT SHALL BE SUPPORTED FROM STRUCTURAL STEEL OR JOIST AND INDEPENDENT OF OTHER PIPING. DO NOT SUPPORT CONDUIT FROM METAL ROOF DECK, OR ANY OTHER SUPPORT DEVICE OF ANOTHER TRADE.

7. NON-METALLIC SHEATHED CABLE (ROMEX) OR AC CABLE SHALL NOT BE USED. TYPE MC CABLE MAY BE USED ONLY WHEN CONCEALED IN FINISHED WALLS OR ABOVE CEILING AND WHEN NOT SUBJECT TO PHYSICAL DAMAGE UNLESS ITS USE IS NOT APPROVED ABBEY OUNER OR LOCAL CODES.

8. ONLY SHORT RUNS OF FLEXIBLE METAL CONDUIT NOT OVER 30" IN LENGTH SHALL BE USED FOR TERMINAL CONNECTIONS TO MOTORS AND OTHER VIBRATING EQUIPMENT, AND ALSO FOR ELECTRICAL EQUIPMENT WHERE IT IS NOT PRACTICAL TO MAKE FINAL CONNECTION WITH RIGID CONDUIT. FLEXIBLE CONDUIT EXPOSED TO WEATHER SHALL BE "SEALTITE" OR EQUAL.

9. CONDUIT SYSTEM SHALL CONFORM TO ALL THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

M. GROUNDING

1. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

2. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.

3. PANELS, CONDUIT SYSTEMS MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE PART OF OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.

4. MAIN GROUNDING SYSTEM (WHEN APPLICABLE) SHALL BE SIZED TO CONFORM WITH TABLE 250-66 OF NATIONAL ELECTRIC CODE. PROVIED CONDUIT TO PROTECT GROUND WIRE FROM DAMAGE TO ANY AREA 6 FEET ABOVE FLOOR

N. LIGHTING/APPLIANCE PANELBOARDS AND DISTRIBUTION PANELS

1. DISTRIBUTION PANELS SHALL BE SQUARE "D" CO. TYPE "ILINE" OR APPROVED EQUAL G.E., SIEMENS, OR CUTLER HAMMER.

2. 480/277V PANELS SHALL BE SQUARE "D" CO. TYPE "NF" OR APPROVED EQUAL BY G.E, SIEMENS, OR CUTLER HAMMER. BREAKERS SHALL BE BOLTED TO BUS TYPE, QUICK-MAKE, BREAK-BREAKERS, AND CAPABLE OF INTERCHANGING ONE, TWO OR THREE POLE UNITS. MULTIPLE UNITS SHALL BE COMMON TRIP. PROVIDE SPARE BREAKERS IN EACH PANEL AS SHOUN. ALL BUSSING SHALL BE 98% CONDUCTIVITY COPPER, ALUMINUM BUS, ALUMINUM CONDUCTORS OR ALUMINUM LUGS ARE NOT ACCEPTABLE.

3. 208/120V PANELS SHALL BE SQUARE "D" CO. TYPE "NQOD" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER WITH TYPE "QOB" BOLT-ON BRANCH BREAKERS ONLY.

4. SHORT CIRCUIT RATINGS OF NEW PANELS SHALL BE AS NOTED ON DRAWINGS, OR AS OTHERWISE DIRECTED BY LOCAL UTILITY COMPANY. UL TESTED AND CERTIFIED SERIES RATINGS ARE ACCEPTABLE WITH WRITTEN DOCUMENTATION SHOWING SERIES RATINGS BUT ONLY IF ACCEPTABLE TO OUNER OR LOCAL CODES.

O. GENERAL FOR ALL PANELS

1. METAL FRAMED CARDHOLDERS WITH TYPEURITTEN CIRCUIT DIRECTORY MUST BE PROVIDED FOR EACH PANEL. DIRECTORY SHALL BE CLEAR AND DESIGNATION SHALL MATCH IDENTIFICATION ON EQUIPMENT. PANELBOARDS (POUER PANELS AND LIGHTING PANELS) SHALL BE WITH IDENTIFICATION LABELED ON SWITCH AND/OR PANEL DOOR. PROVIDE ENGRAVED LAMINATED PHENOLIC NAMEPLATE WITH 1/2" LETTERS.

2. ALL PANELS SAFETY SWITCHES, STARTERS AND IN GENERAL, ALL EQUIPMENT REQUIRING LUGS SHALL BE EQUIPPED WITH SOLDERLESS TYPE UL. APPROVED LUGS.

3. PROVIDE ALL NECESSARY UNISTRUT, CHANNEL, BACKING AND SUPPORTS TO MOUNT PANELBOARDS SECURELY IN PLACE.

4. SCREW FASTENED HANDLE LOCK-ON DEVICES ARE REQUIRED ON CIRCUIT BREAKERS PROTECTING SERVICES TO THE FOLLOWING EQUIPMENT:

   A. EMERGENCY, EXIT, SECURITY AND NIGHT LIGHTS.

   B. HEATING AND COOLING CONTROL CIRCUITS.

   C. ALL TIME SWITCHES.

P. TOGGLE SWITCHES AND RECEPTACLES

1. SINGLE POLE 121 AND THREE(3) WAY #223- SWITCHES SHALL BE RATED 20 AMPERE, 277/120 VOLTS, COLOR TO BE BID AS WHITE (FINAL SELECTION BY ARCHITECT) HUBBELL OR EQUAL. SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE.

2. DUPLEX RECEPTACLES SHALL BE AS SPECIFIED ON DRAWINGS.

Q. DISCONNECT SWITCHES

1. AN APPROVED HORSEPOUER RATED, HEAVY DUTY, DISCONNECT SWITCH SHALL BE PROVIDED WITHIN SIGHT OF EACH MOTOR AND EACH HEATING UNIT. PROVIDE FUSED SWITCHES WHERE BRANCH CIRCUIT FUSES ARE NOT SIZED FOR OVERLOAD PROTECTION.

2. SWITCHES ON THE ROOF SHALL BE WEATHERPROOF MOUNTED ON UNISTRUT.

3. SWITCHES SHALL BE LABELED ON THEIR COVER IDENTIFYING THE EQUIPMENT TO BE PROTECTED.

R. MOTORS AND WIRING

1. FURNISH AND INSTALL DISCONNECT SWITCHES (EXCEPT WHERE SPECIFICALLY SPECIFIED BY OTHERS) AND RUN POUER CIRCUITS FROM THE POUER PANEL THROUGH DISCONNECT SWITCHES & CONTROL DEVICES TO MOTOR TERMINALS.

2. PROVIDE ALL STARTERS, CONTROLS AND PUSH BUTTON STATIONS ETC. NOT SUPPLIED BY MECHANICAL OR OTHER CONTRACTORS REQUIRED FOR THE PROPER AND INTENDED OPERATION OF MOTORS AND OR MOTORIZED EQUIPMENT SUPPLIED BY OTHERS.

   A. THE ABOVE ELECTRICAL EQUIPMENT SHALL BE MOUNTED SECURELY TO WALL OR FRAMES AND THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY BRACKETS, STRUCTURAL PIECES, EXPANSION BOLTS AND OTHER ACCESSORIES REQUIRED.

   B. WOODEN PLUGS SHALL NOT BE PERMITTED FOR ANCHORING.

   C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LUBRICATION OF ALL MOTORS.

3. REFER ALSO TO MECHANICAL SPECIFICATIONS FOR WORK BY MECHANICAL CONTRACTOR WHICH MAY RESULT IN ADDITIONAL WORK FOR THIS ELECTRICAL CONTRACTOR.

4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POUER WIRING AN CONNECTIONS TO ALL HVAC EQUIPMENT.

5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS TO ALL HVAC EQUIPMENT NOT PROVIDED BY OTHERS.

6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL EQUIPMENT (STARTERS, CONTRACTORS ETC.) NOT SUPPLIED BY HVAC CONTRACTOR BUT REQUIRED FOR THE INTENDED OPERATION OF HVAC EQUIPMENT

7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT NOT SUPPLIED BY OTHERS.

8. REFER TO MECHANICAL SPECIFICATION AND DRAWINGS FOR ADDITIONAL ELECTRICAL WORK AND COORDINATION.

S. FUSES

1. REPLACE ALL FUSES BLOUN DURING CONSTRUCTION AND TESTING AN PROVIDE A COMPLETE SET OF FUSES IN ALL FUSE HOLDERS, SWITCHES, PANELS AND ALL OTHER DEVICES REQUIRING FUSES.

2. FUSES SHALL BE CURRENT LIMITING, DUAL ELEMENT TIME DELAY TYPE PROVIDE OUNER WITH ONE SET OF SPARE FUSES FOR EACH FUSED SWITCH.

T. GUARANTEE

1. IN ADDITION TO WARRANTIES OF EQUIPMENT BY MANUFACTURER OF SAME, THIS CONTRACTOR SHALL ALSO GUARANTEE EQUIPMENT PROVIDED BY HIM AND SHALL BEHELD FOR A PERIOD OF ONE (1) YEAR TO BE GOOD ANY DEFECTS IN MATERIALS OR WORKMANSHIP OCCURRING DURING THIS PERIOD, AT HIS SOLE EXPENSE. THE ONE (1) YEAR PERIOD SHALL START FROM DATE OF FINAL ACCEPTANCE BY OUNER.

U. FIELD DRAWING

1. KEEP ONE (1) SET OF WORKING DRAWINGS AND SHIP DRAWINGS AT THE JOB SITE FOR SOLE PURPOSE OF RECORDING ALL CHANGES MADE DURING CONSTRUCTION. AFTER COMPLETION OF THE WORK AND BEFORE REQUESTING FINAL PAYMENT, THE ABOVE MENTIONED DRAWINGS SHALL BE DELIVERED TO THE OUNER.

V. SUBSTITUTION

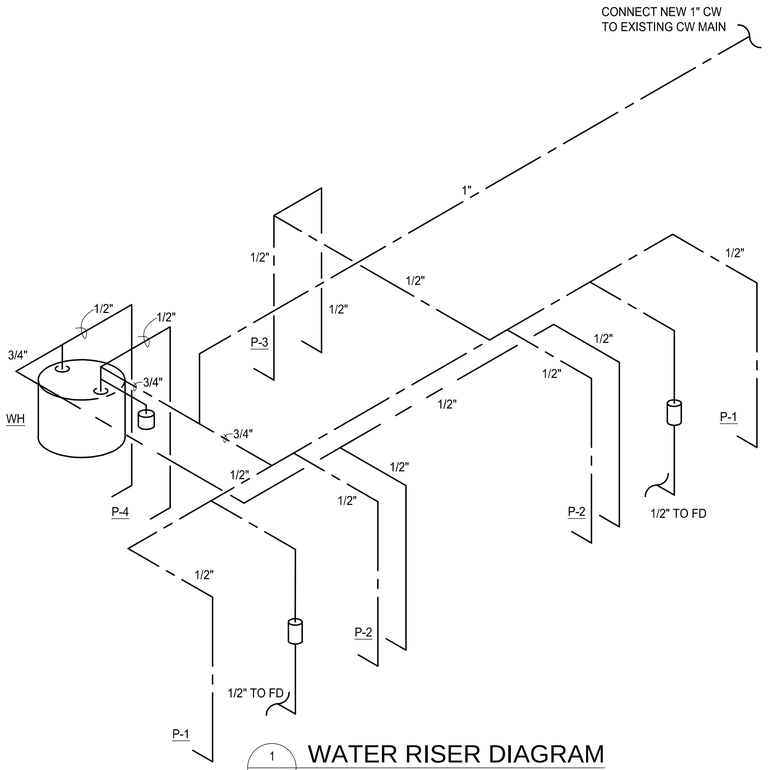
1. WHENEVER ALTERNATE MATERIALS ARE SPECIFIED, IT IS WITH THE UNDERSTANDING THAT ANY ONE OF THE MATERIALS IS ACCEPTABLE TO THE OUNER. MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED ARE NOT TO BE ASSUMED TO BE SATISFACTORY SUBSTITUTES WITHOUT PRIOR APPROVAL OF THE OUNER.

W. SHOP DRAWINGS

1. ONLY MANDATORY SHOP DRAWINGS AS LIMITED OUTLINE HEREIN SHALL BE SUBMITTED.

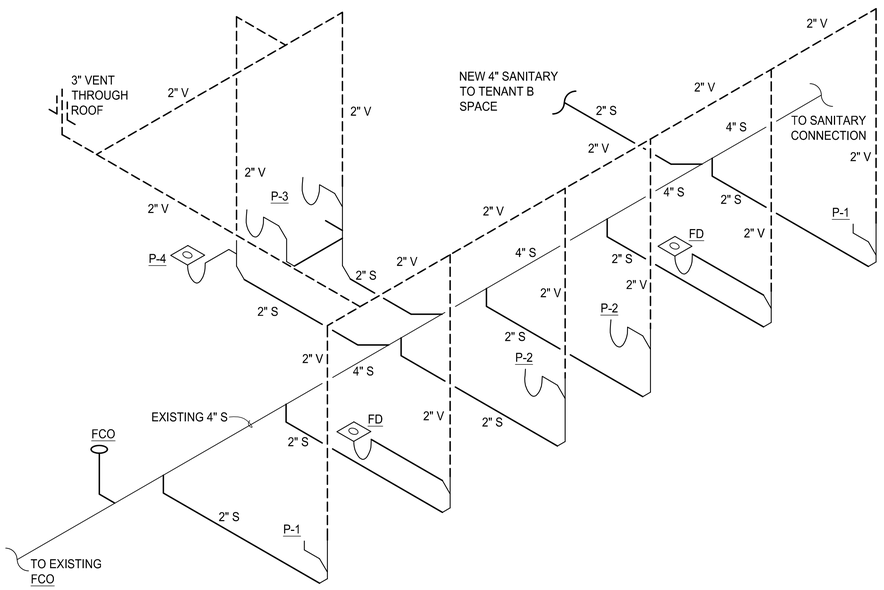
2. NO WORK SHALL BE INSTALLED UNTIL THE MANDATORY SHOP DRAWINGS HAVE BEEN APPROVED BY THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER SHALL REVIEW SUBJECT SHOP DRAWINGS BEFORE A COPY IS SUBMITTED TO THE OUNER FOR RECORD PURPOSES.

3. ONLY MATERIAL AND EQUIPMENT MANUFACTURERS OF PRODUCTS OR SYSTEMS LISTED BELOW SHALL FURNISH MANDATORY SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR T CONTRACTORS PURC



1 P-001 WATER RISER DIAGRAM

SCALE: N.T.S.

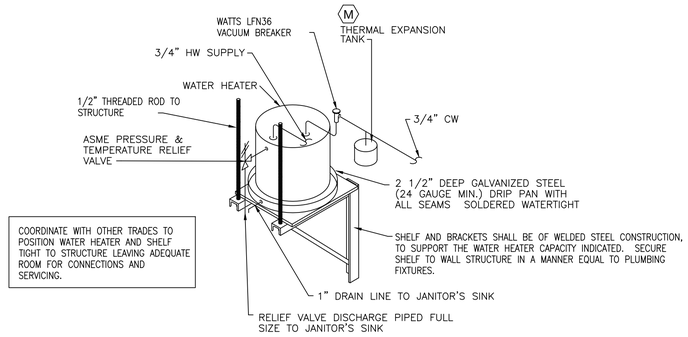


2 P-001 SANITARY RISER DIAGRAM

SCALE: N.T.S.

PLUMBING NOTES

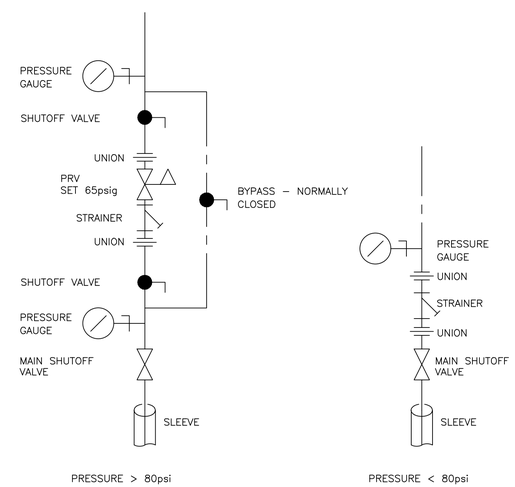
1. SCOPE OF WORK
   - A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
   - B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES GOVERNING WORK OF THIS NATURE.
   - C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
   - D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.
2. PERMITS
   - A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
3. SHOP DRAWINGS
   - A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT AN ELECTRONIC SET OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
4. DOMESTIC WATER SUPPLY PIPING
   - A. UNDERGROUND: PROVIDE TYPE "K" SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
   - B. ABOVE GROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.
   - C. ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.
   - D. ALL COLD WATER PIPING TO BE INSULATED WITH 1/2" FOAM INSULATION.
5. SANITARY/STORM DRAINAGE AND VENT PIPING
   - A. ABOVE GRADE:
     - –2" AND BELOW: SCH. 40 GALV. STL. PIPE WITH SCREWED ENDS OR SCH. 40 PVC WITH SOLVENT JOINTS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE "NO LEAD" TYPE.
     - –3" AND ABOVE: SERVICE WT. CAST IRON WITH NO–HUB OR BELL AND SPIGOT JOINTS; OR SCH. 40 PVC WITH SOLVENT JOINTS.
   - B. BELOW GRADE: SERVICE WT. CAST IRON WITH BELL AND SPIGOT JOINTS OR SCH. 40 PVC WITH SOLVENT JOINTS.
   - C. PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
   - D. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
   - E. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.
   - F. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
   - G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.
6. PENETRATIONS
   - A. ALL STUB–INS AND/OR SLAB OR WALL PENETRATION TO BE PER 2006 ARKANSAS STATE PLUMBING CODE. ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED.
7. GAS PIPING
   - A. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS. WHERE GAS PIPE CONNECTS TO EQUIPMENT, IT SHALL BE PROVIDED WITH A DRIP LEG THE FULL SIZE OF THE RUNOUT, A 100% SHUTOFF VALVE AND A UNION. GAS PIPING CONTAINING PRESSURE GREATER THAN 9" W.G. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH WELDED JOINTS.
   - B. GAS PIPING SHALL BE PAINTED WITH RUST INHIBITING PAINT IN SAFETY YELLOW.
8. PIPE SUPPORTS
   - A. ABOVE GRADE ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN THE 2006 ARKANSAS STATE PLUMBING CODE.
   - B. BELOW GRADE EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.
     - –INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHER– WISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.
     - –EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.
9. MISCELLANEOUS
   - A. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
   - B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
   - C. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
10. TESTING
    - A. PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE 2006 ARKANSAS STATE PLUMBING CODE.
11. GUARANTEE
    - A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
    - B. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.



COORDINATE WITH OTHER TRADES TO POSITION WATER HEATER AND SHELF TIGHT TO STRUCTURE LEAVING ADEQUATE ROOM FOR CONNECTIONS AND SERVICING.

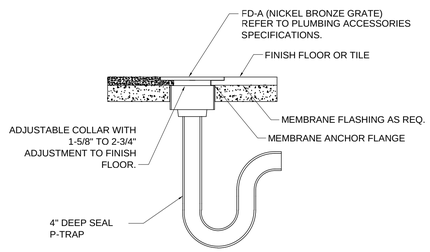
3 P-001 ELECTRIC WATER HEATER

SCALE: N.T.S.



4 P-001 DOMESTIC WATER SERVICE ENTRANCE

SCALE: N.T.S.



5 P-001 FLOOR DRAIN DETAIL

SCALE: N.T.S.

ELECTRIC WATER HEATER SCHEDULE

TAG	CAPACITY	RECOVERY @ 100 DEG. F. RISE	HEATING ELEMENT KW	ELECTRIC V./PH.	WATER CONN.	MANUFACTURER & MODEL	REMARKS
WH	6 GAL.	12	3	208/1	3/4"	A.O. SMITH NO. DEL–6	SET TEMP AT 120°F MAX.

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FIVE BELOW

A DEVELOPMENT BY:

Hall Equities Group
Real Estate Investment - Development - Management

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BRYANT, AR 72022

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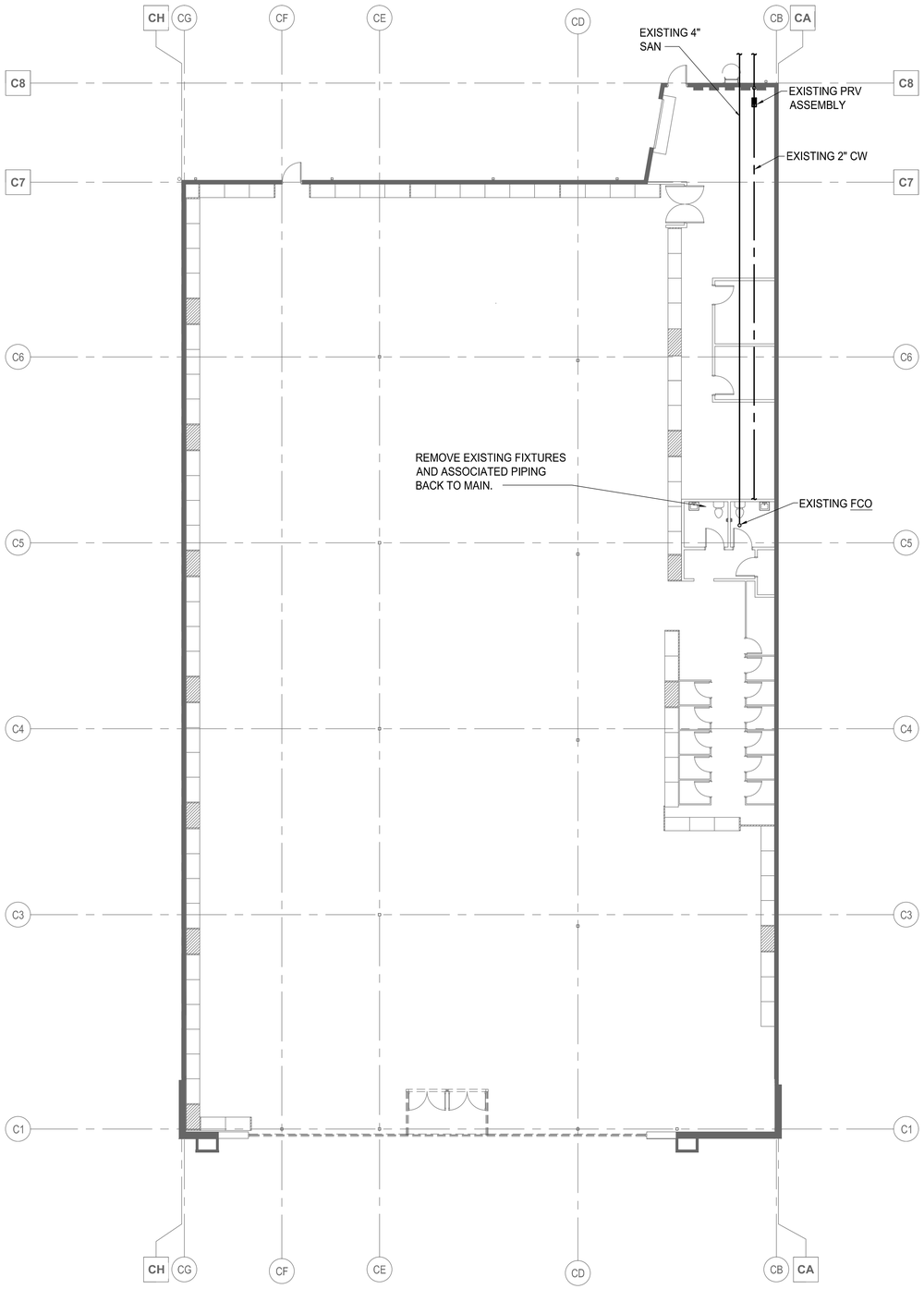
Revisions

Date	Project No.
13 MARCH 2018	2017259.00

Sheet Title
DETAILS AND SCHEDULES - PLUMBING

Sheet No.
P-001

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1 P-101

EXISTING FLOOR PLAN - HVAC

SCALE: 3/32" = 1' - 0"

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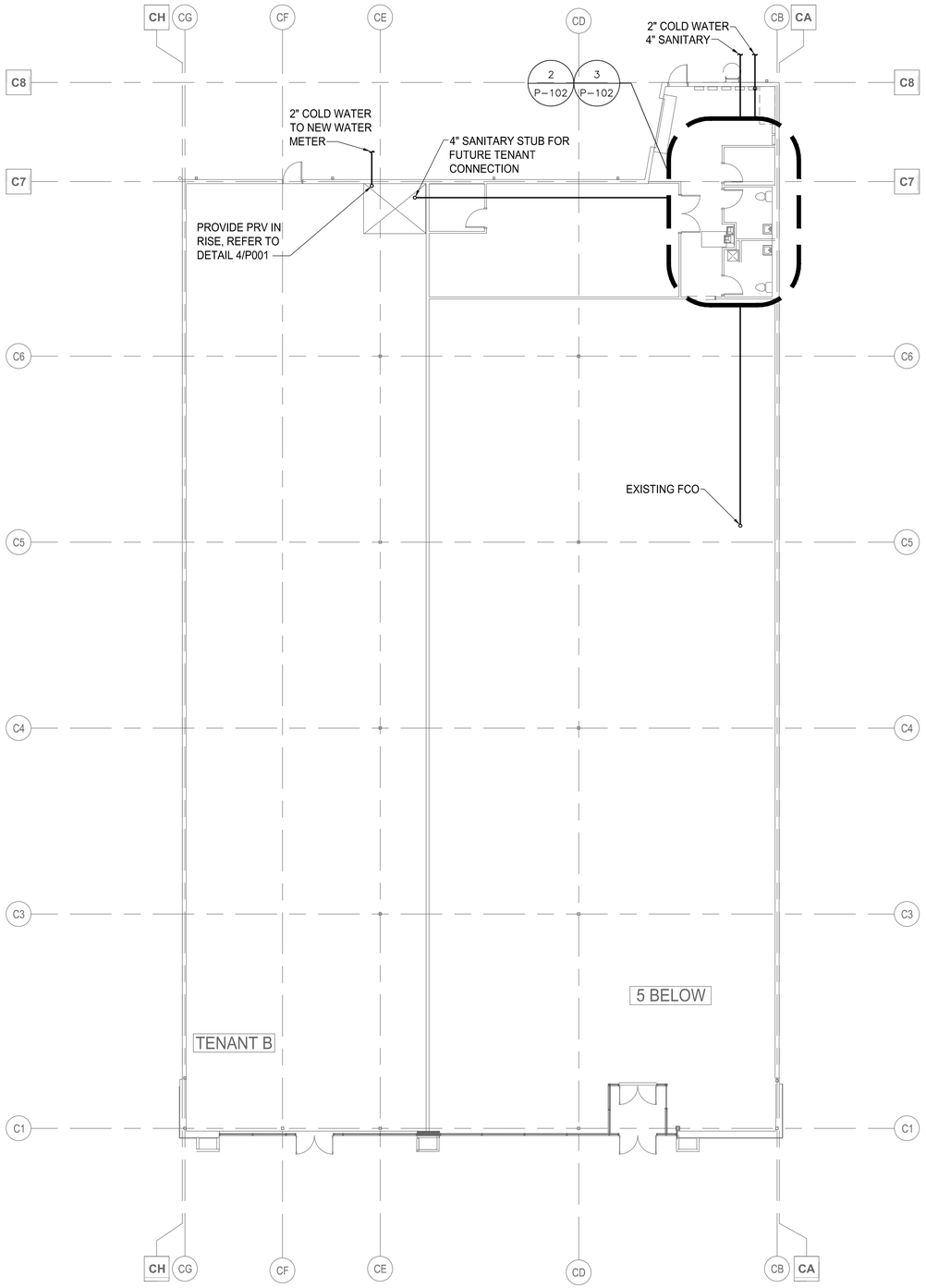
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EXISTING FLOOR PLAN - PLUMBING

Sheet No.
P-101

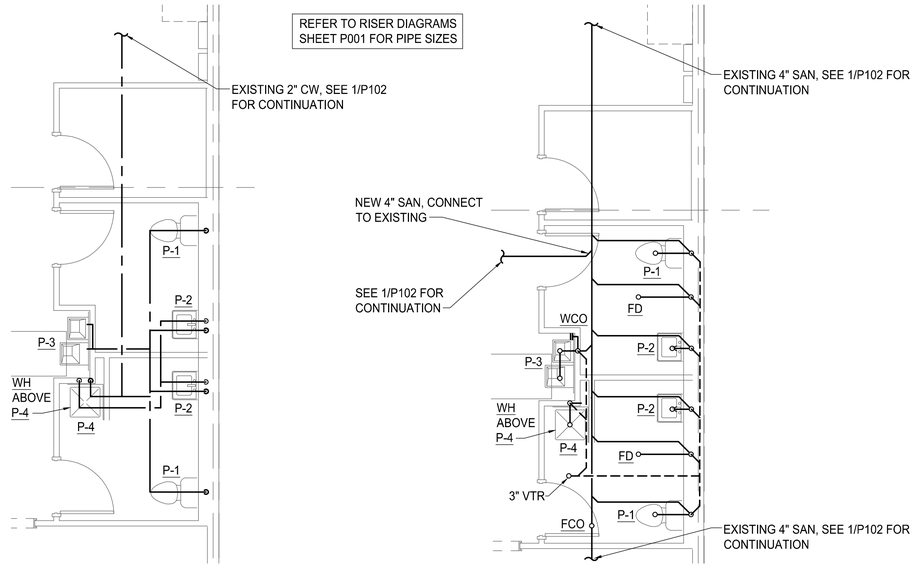
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1 P-102 NEW FLOOR PLAN - PLUMBING
SCALE: 3/32" = 1' - 0"



2 P-102 PART FLOOR PLAN - WATER
SCALE: 1/4" = 1' - 0"

3 P-102 PART FLOOR PLAN - SANITATION
SCALE: 1/4" = 1' - 0"

PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	MANUFACTURER & CAT. NO.	PIPING CONNECTIONS S/W	VENT	C.W.	H.W.	REMARKS
P-1	TOILET – FLOOR MOUNTED	AMERICAN STANDARD NO. 2467.016	4"	2"	1/2"	N/A	FLOOR MOUNTED, FLUSH TANK TYPE, PRESSURE ASSIST FLUSHING SYSTEM, 1.6 GPF, CHURCH NO. 534.016 SOLID TOP, ELONGATED VITREOUS CHINA, ADA COMPLIANT.
P-2	LAVATORY – WALL MOUNTED	AMERICAN STANDARD NO. 0321.075	2"	2"	1/2"	1/2"	PROVIDE WITH CERAMIX 2000.100 FAUCET WITH 0.5 GPM AERATOR AND McGUIRE "PROWRAP" MODEL PW 2125 WC OFF-SET WASTE WITH P-TRAP, GRID WASTE AND SUPPLIES ALL COATED WITH SEAMLESS ANTI-MICROBIAL PIPE INSULATOR MADE OF PVC RESIN. TEMPERING VALVE, TACO 5120 OR EQUAL TO MAINTAIN 110°F OR LESS TO LAVATORY.
P-3	WATER FOUNTAIN – WALL MOUNTED, ADA	ELKAY EZOSTL8L2JOC	2"	2"	1/2"	N/A	WALL MOUNTED, HI-LO WATER FOUNTAIN WITH FRONT/SIDE TOUCH PADS, 8 GPH CAPACITY, ADA COMPLIANT, 50 DEGREE F SUPPLY WATER,
P-4	MOP SINK	CRANE PLUMBING MODEL MSB2424	3	2"	1/2"	1/2"	FURNISH WITH FIAT #830-AA FAUCET. 24X24X10 MOP BASIN, WHITE.
WCO	WALL CLEANOUT	JOSAM SERIES 58910	SEE DWG	N/A	N/A	N/A	PROVIDE WITH GAS-TIGHT, WATER-TIGHT ABS PLUG
FCO	FLOOR CLEANOUT	JOSAM SERIES 58360	SEE DWG	N/A	N/A	N/A	PROVIDE WITH GAS-TIGHT, WATER-TIGHT ABS PLUG

1. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE KOHLER AND TOTO.
2. SUBMIT CUT SHEETS OF PLUMBING FIXTURES TO ARCHITECT FOR APPROVAL BEFORE ORDERING.

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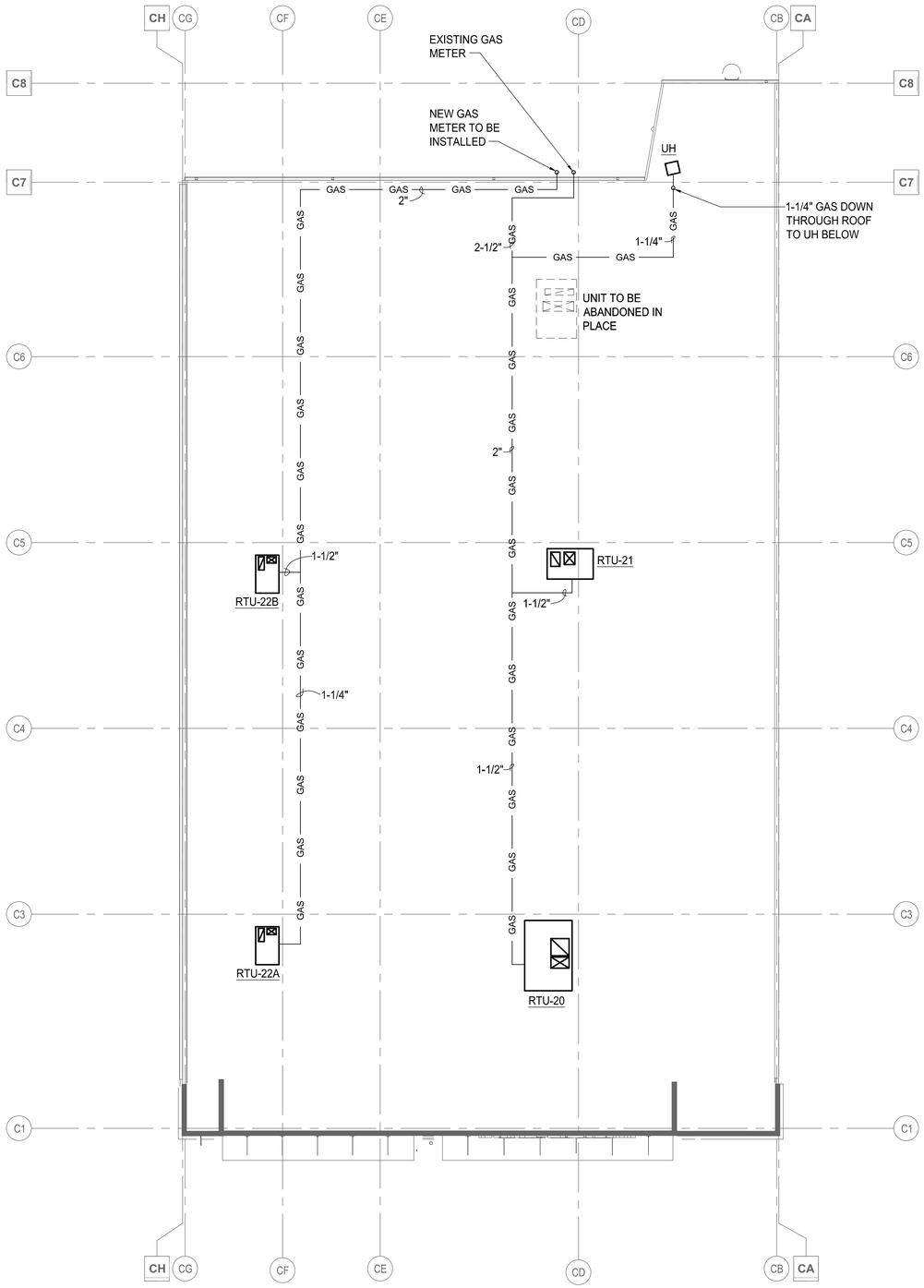
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NEW FLOOR PLAN - PLUMBING

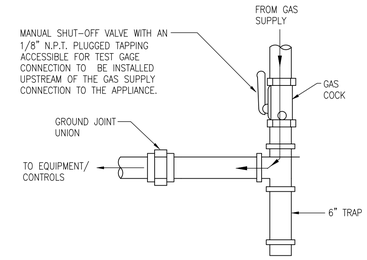
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NEW ROOF PLAN - PLUMBING

1 / P-103 SCALE: 3/32" = 1' - 0"



GAS CONNECTION TO EQUIPMENT

2 / P-103 SCALE: NOT TO SCALE

GAS PIPE SIZING SUMMARY

SIZING BASED ON NATURAL GAS AT 0.6 SPECIFIC GRAVITY AT LESS THAN 2 PSI DELIVERY PRESSURE (13" WC OR LESS) AND 0.3" WC PRESSURE DROP.

	TENANT B	5 BELOW
MBH INPUT (SPACE HEATING)	430	660
MBH INPUT (FOR FUTURE TENANT USE)	100	0
DEVELOPED LENGTH (FEET)	240	200
GAS PRESSURE AT APPLIANCE	13" WC OR LESS	13" WC OR LESS

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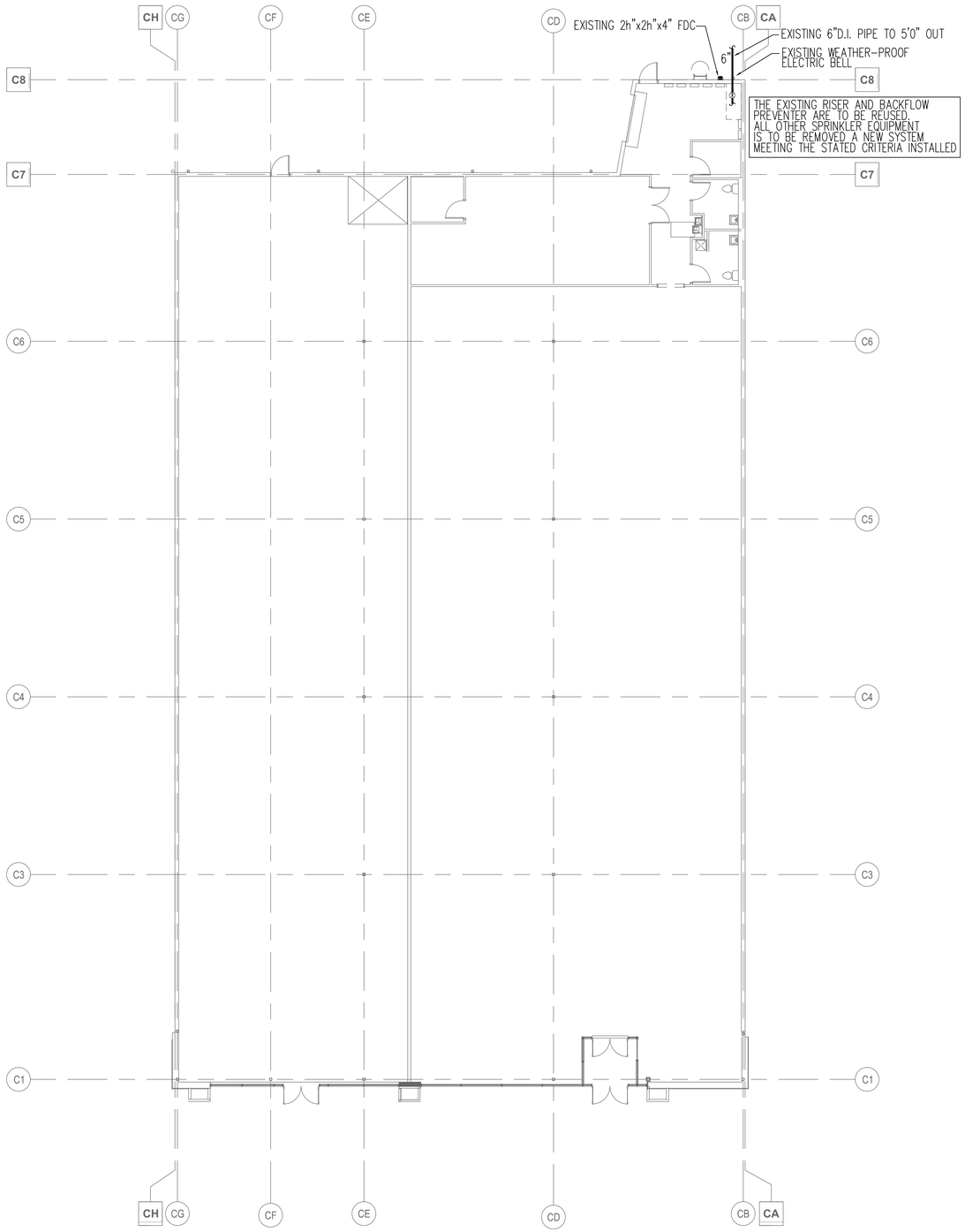
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NEW ROOF PLAN - PLUMBING

Sheet No.
P-103

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1 FP-101 FLOOR PLAN - FIRE PROTECTION

SCALE: 3/32" = 1' - 0"

FIRE PROTECTION GENERAL NOTES

1. THIS BUILDING SHALL BE PROTECTED WITH A WET PIPE SPRINKLER SYSTEM DESIGNED PER THE CURRENTLY ACCEPTED EDITION OF NFPA #13, #24, THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL FIRE CODE, THE STATE FIRE MARSHAL, THE LOCAL AUTHORITY HAVING JURISDICTION, THE OWNERS INSURANCE UNDERWRITER, AND THESE DOCUMENTS.

2. THE EXISTING SPRINKLER SYSTEM SHALL BE REMOVED BACK TO THE TOP OF THE RISER. A NEW SPRINKLER SYSTEM HYDRAULICALLY DESIGNED TO THE AVAILABLE CITY WATER WATER SUPPLY SHALL BE INSTALLED IN THE SPACE. THE CONTRACTOR SHALL HAVE A CURRENT WATER FLOW TEST (LESS THAN THREE MONTHS OLD) PERFORMED PRIOR TO STARTING DESIGN. THE CONTRACTOR SHALL ALSO HAVE A 24 HOUR WATER TEST PERFORMED AT THE SAME TIME AS THE FLOW TEST. THIS TEST SHALL BE USED TO ADJUST THE STATIC AND RESIDUAL PRESSURES TO USE FOR HIS CALCULATIONS.

3. SPRINKLER HEADS INSTALLED IN LAY-IN ACOUSTICAL TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE CEILING TILES.

4. THE SHOP DRAWINGS SHALL BE ON A (MINIMUM) SCALE OF 1/8 "=1'-0". BUILDING SECTIONS, RISER DETAILS, TEST/DRAIN ASSEMBLIES AND OTHER DETAILS SHALL BE ON AT (MINIMUM) SCALE OF 1/2"=1'-0". THESE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS REVIEW AND COMMENTS PRIOR TO ORDERING, PURCHASING, FABRICATING, AND OR INSTALLING ANY FIRE PROTECTION EQUIPMENT. SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE LOCAL AND STATE AUTHORITIES HAVING JURISDICTION AND THE OWNERS INSURANCE UNDERWRITER FOR THEIR REVIEW AND APPROVAL PRIOR TO ORDERING, PURCHASING, FABRICATING, AND OR INSTALLING ANY FIRE PROTECTION EQUIPMENT. THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE STAMPED BY THE SPRINKLER CONTRACTORS CERTIFICATE HOLDER, OR ENGINEER PRIOR TO SUBMITTAL.

5. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTRION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREON.

6. THE SPRINKLER SYSTEM SHALL BE DESIGNED WITH A 10 PSI SAFETY MARGIN.

7. THE SPRINKLER SYSTEM SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP II OCCUPANCY (.18 GPM PER SQ. FT. OVER THE MOST HYDRAULICALLY REMOTE 2500 SQ. FT. PLUS 250 GPM FOR HOSE STREAMS.). ALL SPRINKLERS SHALL BE QUICK RESPONSE HOWEVER A REDUCTION IN THE REMOTE AREA FOR THE USE OF QUICK RESPONSE SPRINKLERS IS NOT ALLOWED. THE HYDRAULIC CALCULATIONS SHALL BE PREPAIRED USING THE AREA DENSITY METHOD, HOWEVER AS STATED BEFORE THE HYDRAULICALLY REMOTE AREA SHALL NOT BE REDUCED BELOW 2500 SQ. FT. FOR THE SYSTEM. THE SPRINKLERS SHALL BE SPACED TO ANY AND ALL OBSTRUCTIONS. EXTENDED COVERAGE SPRINKLERS CAN NOT BE USED! ALL SPRINKLERS SHALL BE INSTALLED ON 1" OUTLETS WITH NIPPLES AND REDUCING COUPLINGS. THE MINIMUM PIPE SIZE PIPE SIZE SHALL BE 1-1/4", EXCEPT PIPES SUPPLYING ONLY ONE(1) SPRINKLER HEAD MAY BE 1" IF A GRID SYSTEM IS USED THE MINILNUM BL SIZE SHALL BE 1-1/2" IF THE SPACE IS SPRINKLED AS A SHELL SPACE THE SPRINKLER SPACING IN SHELL AREAS SHALL BE LIMITED TO 100 SQ. FT. PER SPRINKLER ON 1" OUTLETS.

8. PIPE SLEEVES SHALL BE SET FOR CONCRETE FLOORS AND FIRE WALLS PRIOR TO BEING THEM BEING POURED OR CONSTRUCTED.

9 . ALL HOLES THROUGH FIRE WALLS SHALL BE CAULKED WITH SUITABLE MATERIALS APPROVED FOR THAT PURPOSE.

10. ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S RECOMMENDATIONS AND NFPA.

11. ALL CONTROL VALVES SHALL HAVE A TAMPER SWTICH SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR. WIRING OF THE SWITCHES WILL BE BY THE ELECTRICAL CONTRACTOR.

12. ALL SPRINKLER PIPING SHALL BE INSTALLED ABOVE THE CEILINGS WHERE CEILINGS ARE TO BE INSTALLED AND AS HIGH AS IS POSSIBLE IN AREAS WITHOUT FINISHED CEILINGS. THE SPRINKLER PIPING CANNOT BE BELOW 12'6". SPRINKLERS SHALL BE SPACED TO THE BUILDING STRUCTURE AND OTHER BUILDING COMPONANTS AS REQUIRED BY NFPA.

13. WHERE THE REQUIREMENTS OF OWNERS AND THE OWNERS INSURANCE UNDERWRITERS AND THESE DOCUMENTS EXCEED THOSE OF THE NATIONAL FIRE CODES AND THE BUILDING CODE THEY SHALL PREVAIL.

14. 1" THROUGH 1-1/2" PIPE SHALL BE BE SCHEDULE 40. 2" AND LARGER PIPE MAY BE SCHEDULE 10 OR SCHEDULE 7. THREADABLE LITE WALL PIPE SHALL "NOT" BE USED.

15. SPRINKLERS HEADS SHALL BE:

    A. BRASS UPRIGHT OR PENDENT ON 1" SPRIGS OR DROPS IN AREAS OF EXPOSED STRUCTURE.

    B. FULLY CONCEALED PENDENT IN AREAS WITH CEILINGS.

    C. EXTENDED COVERAGE SPRINKLERS SHALL NOT BE USED.

16. A PROPERLY COMPLETED CONTRACTORS MATERIAL AND TEST CERTIFICATE SHALL BE PROVIDED FOR THE INSIDE PORTION OF THE SYSTEM.

17. THE SPRINKLER SYSTEMS SHALL BE HUNG, SUPPORTED, IN ACCORDANCE WITH NFPA #13. HANGER LOCATIONS SHALL BE SHOWN ON THE SUBMITTAL DRAWINGS AT THE LOCATIONS THEY ARE REQUIRED TO BE PER NFPA 13.

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