



# REGULAR / A-FRAME
# 24'-0" WIDE
# CARPORT STYLE BUILDINGS

## DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2012, OSHA, AISC 360, AISI 100, ASCE 7-10, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE TS2 1/2"X2 1/2" - 14GA. IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

## DESIGN CRITERIA

| | | |
|---|---|---|
| PREVAILING CODE: | | AFPC 2012 (IBC 2012) |
| USE GROUP: | | U (CARPORTS, BARNS) |
| RISK CATEGORY: | | I |
| 1. | DEAD LOAD (D) | D = 4 PSF |
| 2. | ROOF LIVE/SNOW LOAD (Lr) | Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4) |
| 3. | SNOW LOAD (S) | |
| | GROUND SNOW LOAD | Pg = 20 - 90 PSF |
| | IMPORTANCE FACTOR | Is = 0.8 |
| | THERMAL FACTOR | Ct = 1.2 |
| | EXPOSURE FACTOR | Ce = 1.0 |
| | ROOF SLOPE FACTOR | Cs = 1.0 |
| 4. | WIND LOAD (W) | |
| | BASIC WIND SPEED | $V_{ULT}$ = 105 - 180 MPH |
| | EXPOSURE | C |
| 5. | SEISMIC LOAD (E) | |
| | DESIGN CATEGORY | D |
| | IMPORTANCE FACTOR | Ie = 1.00 |

LOAD COMBINATIONS:

1. D + (Lr OR S)
2. D + (0.6W OR ±0.7E)
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
4. 0.6D + (0.6W OR ±0.7E)

## DRAWING INDEX


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**CUSTOMER INFORMATION**

OWNER:
ADDRESS:

**DESIGN LOADS**

GROUND SNOW:
ROOF LIVE LOAD:
BASIC WIND SPEED:

**BUILDING INFORMATION**

WIDTH:
LENGTH:
HEIGHT:

FRAME TYPE: ☐ A-FRAME ☐ REGULAR

ENCLOSURE TYPE: ☐ FULL ☐ PARTIAL ☐ OPEN

**CERTIFICATION VALIDITY NOTICE**

DATE OF PLANS EXPIRATION: **01-18-2024**

CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE

MANUFACTURED BY:


AMERICAN STEEL CARPORTS INC
457 N. Broadway,
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ENGINEERED BY:


A&A ENGINEERING
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www.aa-engineers.com


**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: COVER SHEET
SHEET NO.: 1 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

**LEGAL INFORMATION**


- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.


SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: **12-31-2024**
DATE SIGNED: **01-18-2023**

## TABLE 2.1: MEMBER PROPERTIES

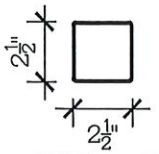
| NO. | LABEL | PROPERTY | DETAIL NO. |
|---|---|---|---|
| 1 | COLUMN POST | 2.5" X 2.5" X 14GA TUBE | 1 |
| 2 | ROOF BEAM | 2.5" X 2.5" X 14GA TUBE | 1 |
| 3 | BASE RAIL | 2.5" X 2.5" X 14GA TUBE | 1 |
| 4 | PEAK BRACE | 2.5" X 2.5" 14GA CHANNEL | 4 |
| 5 | KNEE BRACES | 2.5" X 1.5" 14GA CHANNEL | 4 |
| 6 | CONNECTOR SLEEVE | 2.25" X 2.25" X 12GA TUBE | 2 |
| 7 | BASE ANGLE | 2" X 2" X 3" LG. 3/16" ANGLE | 10 |
| 8 | PURLIN | 4.25" X 1.5" X 14GA / 18GA HAT CHANNEL | 5 |
| 9 | GIRT | 4.25" X 1.5" X 14GA / 18GA HAT CHANNEL | 5 |
| 9A | OPT. END WALL GIRT | 2.5" X 1.5" 14GA CHANNEL | 1 |
| 10 | SHEATHING | 29 GA CORRUGATED SHEET | 8 |
| 11 | END WALL POST | 2.5" X 2.5" X 14GA TUBE | 1 |
| 12 | DOOR POST | 2.5" X 2.5" X 14GA TUBE | 1 |
| 13 | SINGLE HEADER | 2.5" X 2.5" X 14GA TUBE | 1 |
| 14 | DOUBLE HEADER | DBL. 2.5" X 2.5" X 14GA TUBE | 1 |
| 15 | SERVICE DOOR / WINDOW FRAMING | 2.5" X 2.5" X 14GA TUBE | 1 |
| 16 | ANGLE BRACKET | 2" X 2" X 2" LG. 14GA ANGLE | 7 |
| 17 | STRAIGHT BRACKET | 2" X 2" X 4" LG. 14GA PLATE | 6 |
| 18 | PB SUPPORT | 2.5" X 2.5" X 14GA TUBE | 1 |
| 19 | DIAGONAL BRACE | 2" X 2" X 14 GA TUBE | 3 |
| 20 | GABLE BRACE | 2" X 2" X 14 GA TUBE | 3 |
| 21 | DB BRACKET | 2.25" X 2.25" X 6" LG. 14GA ANGLE | 9 |
| 22 | TRUSS SPACER | 2.5" X 2.5" X 14GA TUBE | 1 |
| 23 | ALL FASTENERS | #12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER | |

## TABLE 2.2: SHEATHING FASTENER SCHEDULE

| LOCATION | CORNER PANELS | SIDE LAPS | EDGE LAPS | ELSEWHERE |
|---|---|---|---|---|
| SPACING | 9" C/C | MIN. 1 | 4½" C/C | 9" C/C |

FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER

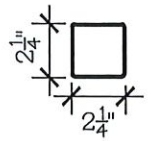
*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.




THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE (1)

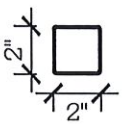
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THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE (2)

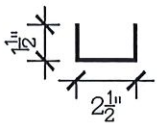
SCALE: NTS




THICKNESS = 14GA

2" X 2" 14GA TUBE (3)

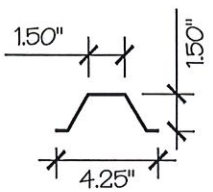
SCALE: NTS




THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL (4)

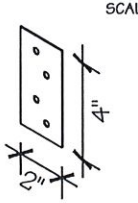
SCALE: NTS




THICKNESS = 14GA / 18GA

4.25" X 1.5" X 14GA / 18GA HAT CHANNEL (5)

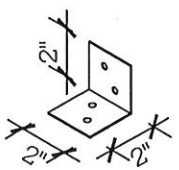
SCALE: NTS




THICKNESS = 14GA

STRAIGHT BRACKET (6)

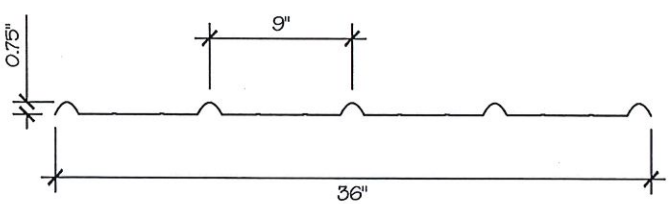
SCALE: NTS




THICKNESS = 14GA

ANGLE BRACKET (7)

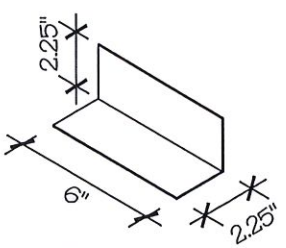
SCALE: NTS




THICKNESS = 29GA

29 GA CORRUGATED SHEATHING (8)

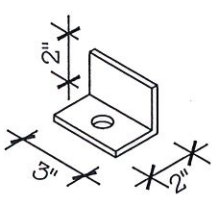
SCALE: NTS




THICKNESS = 14GA

DB BRACKET (9)

SCALE: NTS




THICKNESS = 3/16"

BASE ANGLE (10)

SCALE: NTS


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**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

**LEGAL INFORMATION**

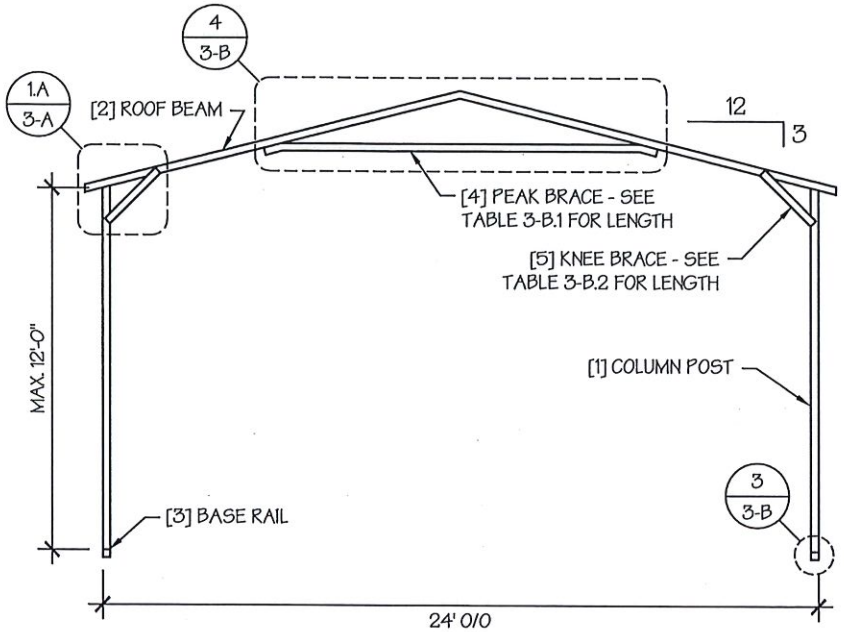

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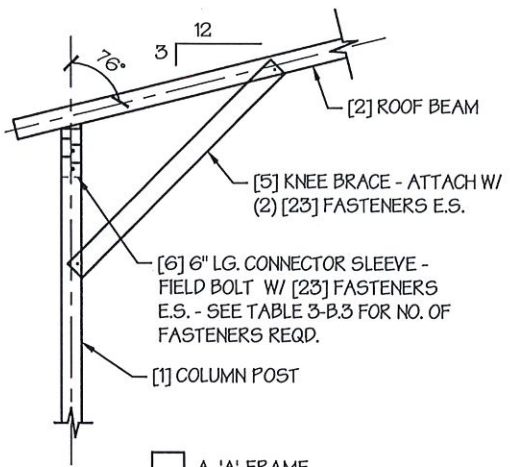
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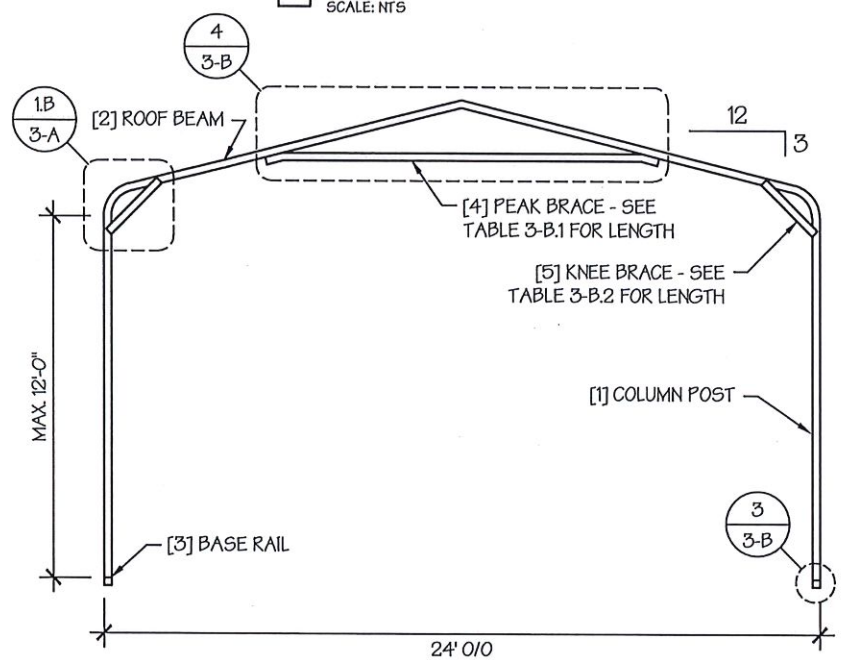
DATE SIGNED: 01-18-2023



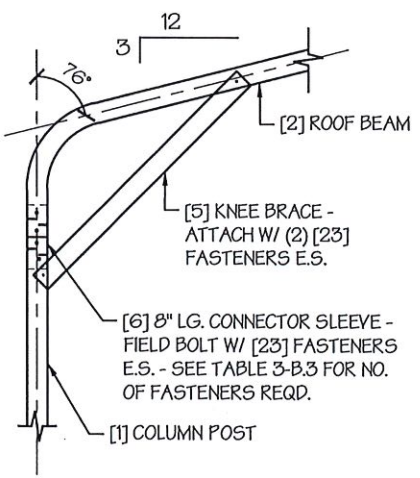

TYP. A-FRAME SECTION
SCALE: NTS




A. 'A'-FRAME




TYP. REGULAR FRAME SECTION
SCALE: NTS




B. REGULAR-FRAME

EAVE DETAIL 1
SCALE: NTS

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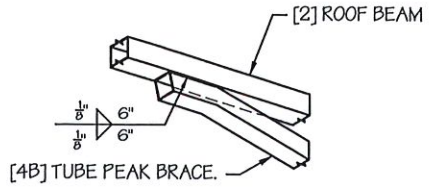
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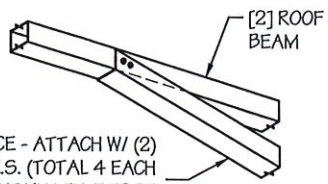
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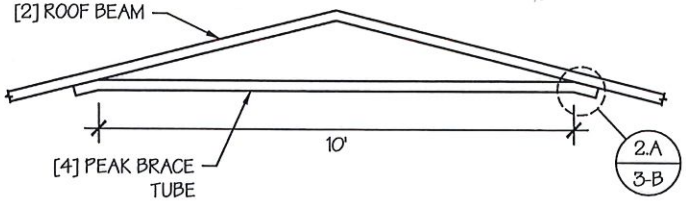



A. PEAK BRACE TUBE

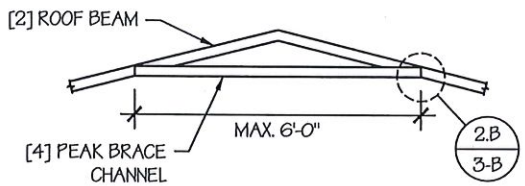



B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS 2
SCALE: NTS

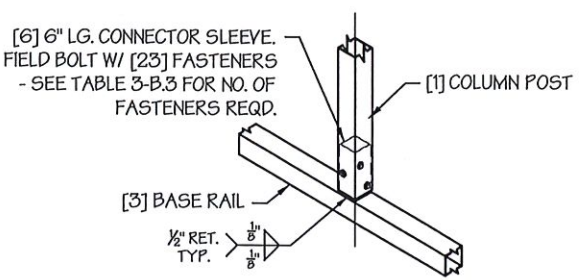



☐ A. WELDED PEAK BRACE




☐ B. CHANNEL PEAK BRACE

PEAK BRACE DETAILS 4
SCALE: NTS




BASE DETAIL 3
SCALE: NTS

TABLE 3-B.1: PEAK BRACE SCHEDULE

| GROUND SNOW / ROOF LIVE LOAD (PSF) | WIND SPEED | |
|---|---|---|
| | ☐105 TO 130 | ☐140 TO 180 |
| ☐ 30 / 20 | 6' | 10' |
| ☐ 35 / 25 TO 90 / 61 | 10' | 10' |

TABLE 3-B.2: KNEE BRACE SCHEDULE

| EAVE HEIGHT | KNEE BRACE LENGTH |
|---|---|
| ☐UP TO 8' | 24" |
| ☐ 9' TO 12' | 36" |

TABLE 3-B.3 FASTENER SCHEDULE

| WIND SPEED (MPH) | NO. OF FASTENERS |
|---|---|
| ☐ 105 TO 125 | 4 |
| ☐ 130 TO 155 | 6 |
| ☐ 160 TO 180 | 8 |

NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING. MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

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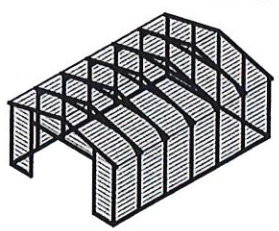
## TABLE 4: FRAME SPACING CHART / SCHEDULE

| | GROUND SNOW / ROOF LIVE LOAD (PSF) | ■ ENCLOSED BUILDINGS — WIND SPEED (MPH) | | | | | | | ■ OPEN BUILDINGS — WIND SPEED (MPH) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ☐105 | ☐115 | ☐130 | ☐140 | ☐155 | ☐165 | ☐180 | ☐105 | ☐115 | ☐130 | ☐140 | ☐155 | ☐165 | ☐180 |
| ■ EAVE HEIGHT = 10'-0" TO 12'-0" | ☐30 / 20 | 60 | 60 | 54/60 | 54 | 42 | 42 | 36 | 48 | 48 | 48 | 42 | 36 | 30 | 24 |
| | ☐40 / 27 | 48/60 | 48/60 | 42/60 | 42/54 | 42 | 42 | 36 | 42 | 42 | 42 | 42 | 36 | 30 | 24 |
| | ☐50 / 34 | 40/48 | 40/48 | 40/48 | 40/48 | 40/42 | 40/42 | 36 | 30 | 30 | 30 | 30 | 30 | 30 | 24 |
| | ☐60 / 41 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 30 | 30 | 30 | 30 | 30 | 30 | 24 |
| | ☐70 / 47 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | ☐80 / 54 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 18 | 18 | 18 | 18 | 18 |
| | ☐90 / 61 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ■ EAVE HEIGHT = 7'-0" TO 9'-0" | ☐30 / 20 | 60 | 60 | 54/60 | 54 | 48 | 42/48 | 42 | 54 | 54 | 48/54 | 42/54 | 36/48 | 36 | 30 |
| | ☐40 / 27 | 48/60 | 48/60 | 42/60 | 42/54 | 42/48 | 42/48 | 42 | 42 | 42 | 42 | 42 | 36/42 | 36 | 30 |
| | ☐50 / 34 | 40/48 | 40/48 | 40/48 | 40/48 | 40/48 | 40/48 | 40/42 | 36 | 36 | 36 | 36 | 36 | 36 | 30 |
| | ☐60 / 41 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| | ☐70 / 47 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | ☐80 / 54 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | ☐90 / 61 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ■ EAVE HEIGHT = UP TO 6'-0" | ☐30 / 20 | 60 | 60 | 54/60 | 54 | 48 | 42/48 | 42 | 60 | 54/60 | 48/60 | 42/54 | 36/48 | 36/42 | 36 |
| | ☐40 / 27 | 48/60 | 48/60 | 42/60 | 42/54 | 42/48 | 42/48 | 42 | 48 | 48 | 42/48 | 42/48 | 36/48 | 36/42 | 36 |
| | ☐50 / 34 | 40/48 | 40/48 | 40/48 | 40/48 | 40/48 | 40/48 | 40/42 | 40/42 | 40/42 | 40/42 | 40/42 | 36/42 | 36 | 36 |
| | ☐60 / 41 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 30 |
| | ☐70 / 47 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| | ☐80 / 54 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | ☐90 / 61 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

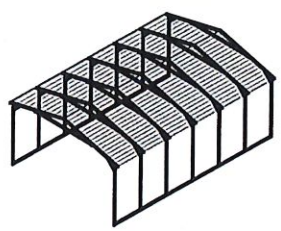
NOTES:
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

## ENCLOSURE CLASSIFICATION:

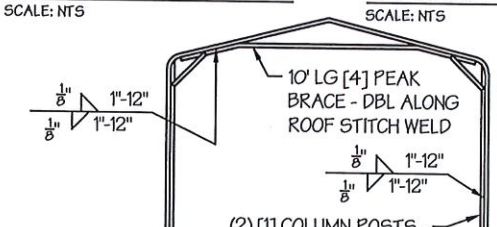
1. ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
4. PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3FT = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
5. 3 SIDED ENCLOSED = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
6. FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.



TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS




TYP. OPEN END WALL ON 3 SIDE ENCLOSED BUILDING
SCALE: NTS

## GENERAL NOTES:

1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).
3. ALL BUILDINGS WITH AN OPEN END WALL MUST HAVE A 10'-0" TUBE PEAK BRACE.


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6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
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**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: SPACING SCHEDULES & ENCLOSURE NOTES
SHEET NO.: 4 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

**LEGAL INFORMATION**


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## TABLE 5.1: PURLIN SPACING SCHEDULE

| | GROUND SNOW / ROOF LIVE LOAD (PSF) | ■ 14GA. HAT CHANNEL PURLIN | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | WIND SPEED (MPH) | | | | | | |
| | | □ 105 | □ 115 | □ 130 | □ 140 | □ 155 | □ 165 | □ 180 |
| FRAME SPACING: ■ 5'-0" | □ 30 / 20 | 54 | 48 | 42 | 36 | 30 | 24 | 24 |
| | □ 40 / 27 | 42 | 42 | 42 | 36 | 30 | 24 | 24 |
| | □ 50 / 34 | 40 | 40 | 40 | 36 | 30 | 24 | 24 |
| | □ 60 / 41 | 36 | 36 | 36 | 36 | 30 | 24 | 24 |
| | □ 70 / 47 | 32 | 32 | 32 | 32 | 30 | 24 | 24 |
| | □ 80 / 54 | 30 | 30 | 30 | 30 | 30 | 24 | 24 |
| | □ 90 / 61 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| FRAME SPACING: ■ 4'-6" | □ 30 / 20 | 54 | 48 | 42 | 42 | 36 | 30 | 30 |
| | □ 40 / 27 | 42 | 42 | 42 | 42 | 36 | 30 | 30 |
| | □ 50 / 34 | 40 | 40 | 40 | 40 | 36 | 30 | 30 |
| | □ 60 / 41 | 36 | 36 | 36 | 36 | 36 | 30 | 30 |
| | □ 70 / 47 | 32 | 32 | 32 | 32 | 32 | 30 | 30 |
| | □ 80 / 54 | 32 | 32 | 32 | 32 | 32 | 30 | 30 |
| | □ 90 / 61 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| FRAME SPACING: ■ 4'-0" | □ 30 / 20 | 54 | 48 | 42 | 42 | 36 | 36 | 30 |
| | □ 40 / 27 | 42 | 42 | 42 | 42 | 36 | 36 | 30 |
| | □ 50 / 34 | 40 | 40 | 40 | 40 | 36 | 36 | 30 |
| | □ 60 / 41 | 36 | 36 | 36 | 36 | 36 | 36 | 30 |
| | □ 70 / 47 | 32 | 32 | 32 | 32 | 32 | 32 | 30 |
| | □ 80 / 54 | 32 | 32 | 32 | 32 | 32 | 32 | 30 |
| | □ 90 / 61 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| FRAME SPACING: ■ 3'-6" | □ 30 / 20 | 54 | 48 | 42 | 42 | 36 | 36 | 30 |
| | □ 40 / 27 | 42 | 42 | 42 | 42 | 36 | 36 | 30 |
| | □ 50 / 34 | 40 | 40 | 40 | 40 | 36 | 36 | 30 |
| | □ 60 / 41 | 36 | 36 | 36 | 36 | 36 | 36 | 30 |
| | □ 70 / 47 | 32 | 32 | 32 | 32 | 32 | 32 | 30 |
| | □ 80 / 54 | 32 | 32 | 32 | 32 | 32 | 32 | 30 |
| | □ 90 / 61 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| FRAME SPACING: ■ 3'-0" OR LOWER | □ 30 / 20 | 54 | 48 | 42 | 42 | 36 | 36 | 30 |
| | □ 40 / 27 | 42 | 42 | 42 | 42 | 36 | 36 | 30 |
| | □ 50 / 34 | 40 | 40 | 40 | 40 | 36 | 36 | 30 |
| | □ 60 / 41 | 36 | 36 | 36 | 36 | 36 | 36 | 30 |
| | □ 70 / 47 | 32 | 32 | 32 | 32 | 32 | 32 | 30 |
| | □ 80 / 54 | 32 | 32 | 32 | 32 | 32 | 32 | 30 |
| | □ 90 / 61 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |

NOTES:
1. PURLIN SPACING UNITS ARE IN INCHES.
2. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

IRREGULAR BUILDING NOTES:
1. FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
2. FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 6" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
3. SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
4. IRREGULAR BUILDING & BUILDINGS W/ MORE THAN 2 SIDE OPENINGS MUST HAVE A 10' TUBE PEAK BRACE ON ALL FRAMES.

## TABLE 5.2: GIRT SPACING SCHEDULE

| FRAME SPACING | WIND SPEED (MPH) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 105 | 115 | 130 | 140 | 155 | 165 | 180 |
| □ 5'-0" | 60 | 48 | 36 | 30 | 24 | 24 | 18 |
| □ 4'-6" | 60 | 60 | 48 | 42 | 36 | 30 | 24 |
| □ 4'-0" | 60 | 60 | 54 | 54 | 42 | 36 | 30 |
| □ 3'-6" | 60 | 60 | 54 | 54 | 48 | 42 | 42 |
| □ 2'-0" TO 3'-0" | 60 | 60 | 54 | 54 | 48 | 42 | 42 |

NOTES:
1. GIRT SPACING UNITS ARE IN INCHES.
2. THIS SCHEDULE IS TO BE USED FOR BOTH 14GA
3. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

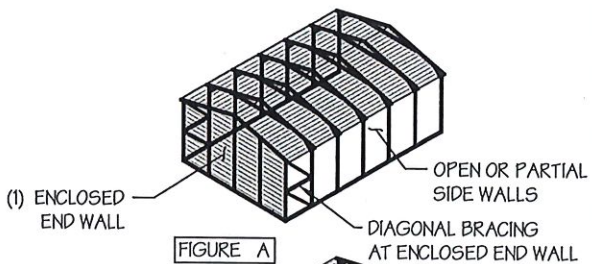


FIGURE A

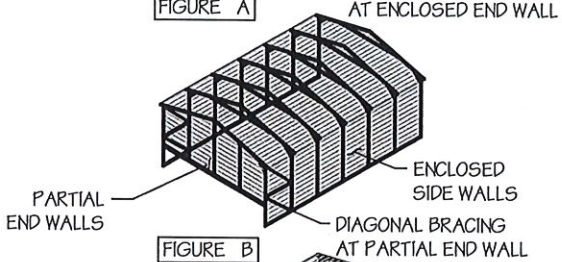


FIGURE B

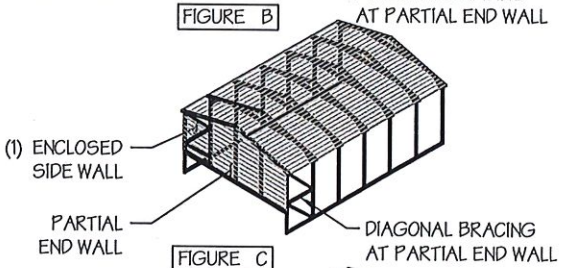


FIGURE C

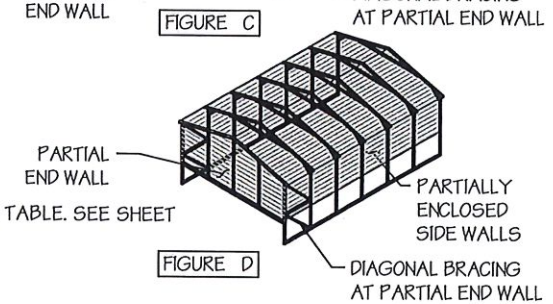


FIGURE D

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**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: PURLIN & GIRT SPACING SCHEDULES
SHEET NO.: 5 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

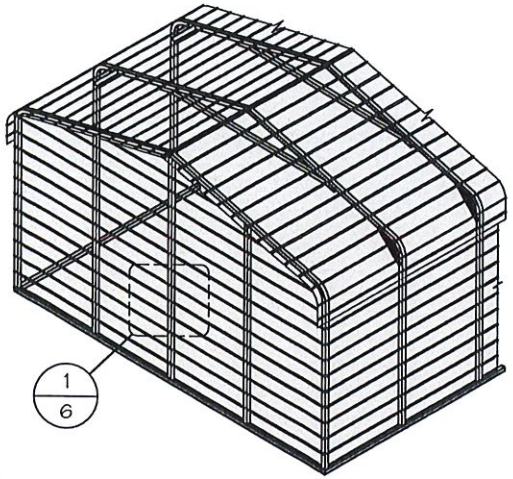
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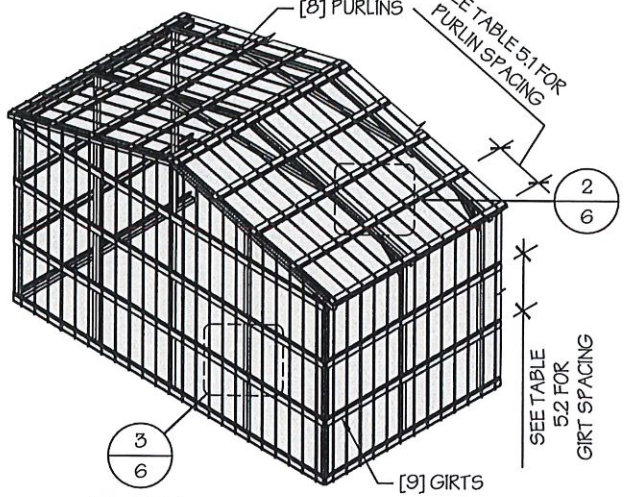
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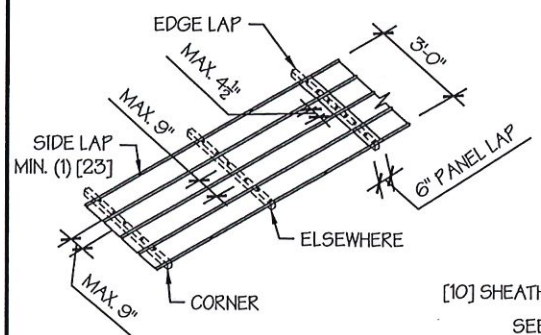

☐ TYP. HORIZONTAL SHEATHING
SCALE: NTS



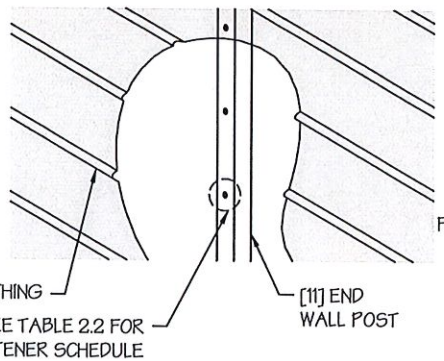

☐ TYP. VERTICAL SHEATHING
SCALE: NTS

## GENERAL SHEATHING NOTES:

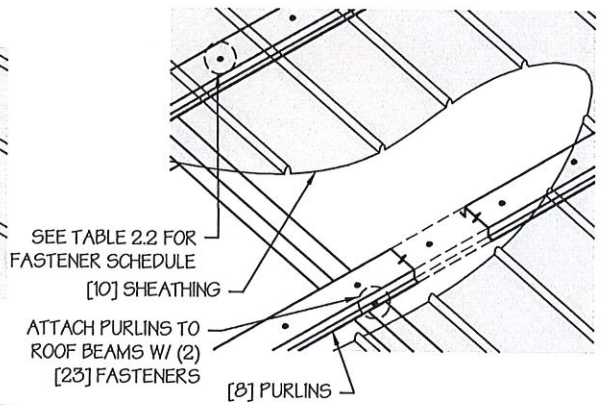
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING. SEE NOTE 2 UNDER TABLE 4.
5. VERTICAL SHEATHING RECOMMENDED FOR BUILDINGS 30' OR LONGER



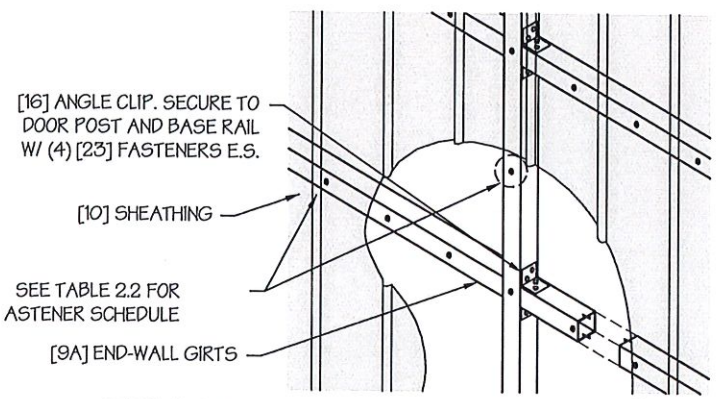

TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



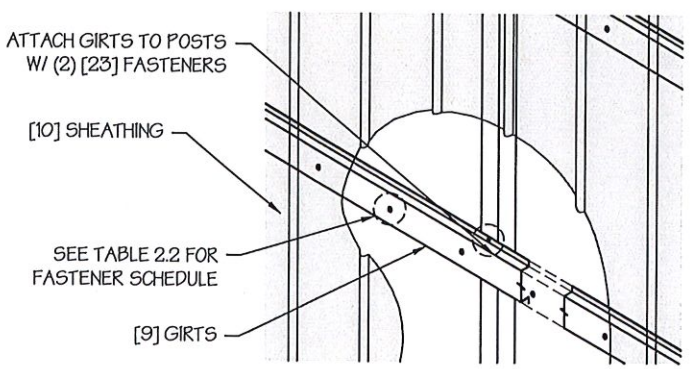

TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS




ROOF VERTICAL SHEATHING DETAIL 2
SCALE: NTS




☐ WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS




☐ WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL 3
SCALE: NTS

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**DRAWING INFORMATION**

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LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE:
SHEATHING OPTIONS & DETAILS
SHEET NO.: 6 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

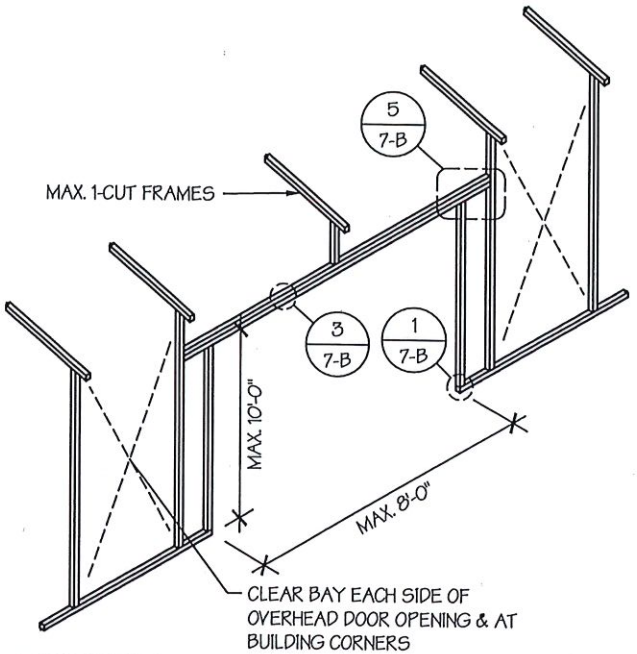
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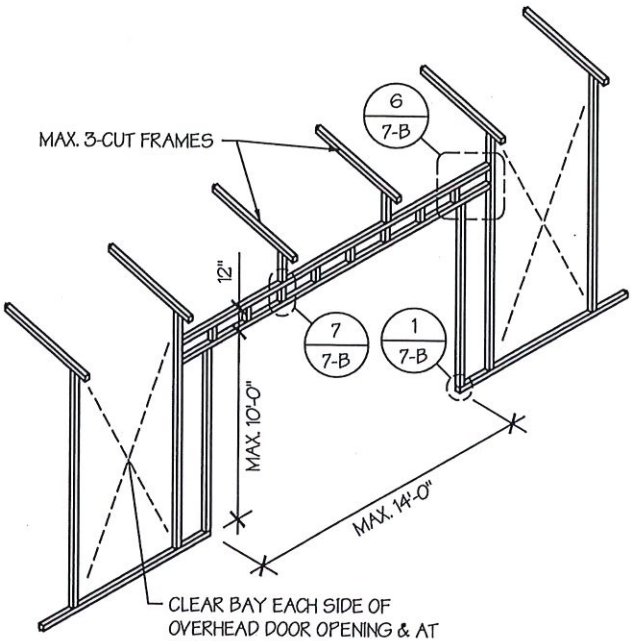
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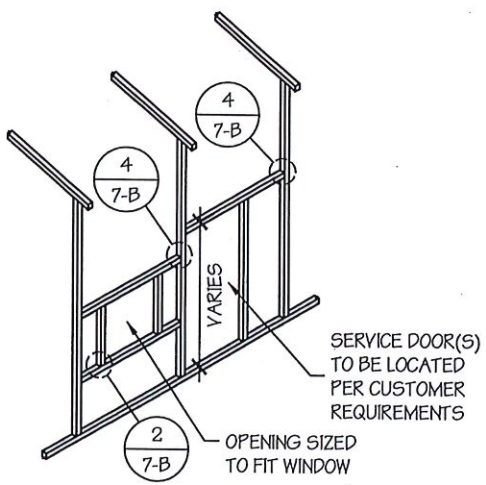

☐ SIDE WALL OVERHEAD DOOR OPENINGS

SCALE: NTS




☐ SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER

SCALE: NTS




☐ SIDE WALL SERVICE DOOR / WINDOW OPENINGS

SCALE: NTS

## SIDE WALL FRAMING NOTES:

1. TRUSS-STYLE HEADERS ARE REQUIRED FOR WHERE THE GROUND SNOW LOAD IS 40 PSF OR GREATER.
2. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
3. MAX. HEIGHT OF SIDE WALL OVERHEAD DOOR OPENINGS IS 2 FT LESS THAN THE EAVE HEIGHT.
4. OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
5. MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY 2 OVERHEAD DOOR OPENINGS. A CLEAR BAY IS A SPACE BETWEEN TWO FRAMES THAT HAS NO OVERHEAD DOOR OPENINGS.
6. MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
7. SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.

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LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

SIDE WALL FRAMING & OPENINGS

SHEET NO.: 7-A / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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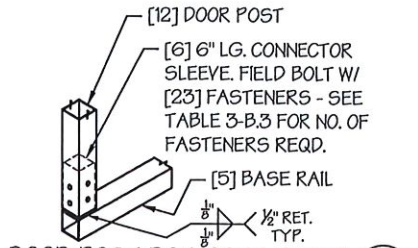
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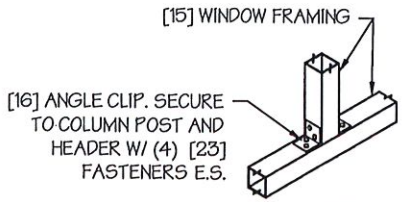
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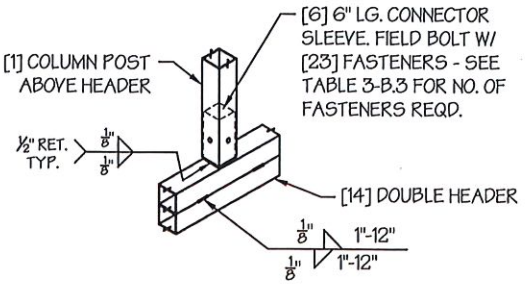
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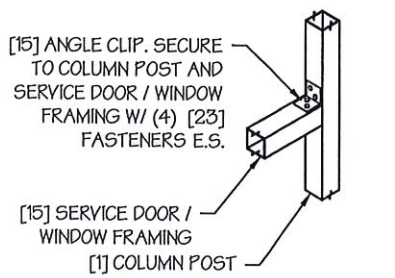

DOOR POST BOT. CONN. DETAIL 1
SCALE: NTS



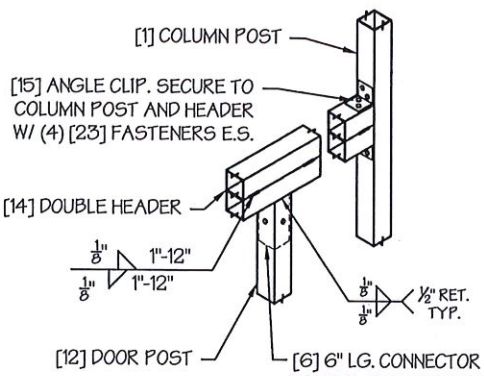

TYP. WINDOW FRAMING CONN. DETAIL 2
SCALE: NTS



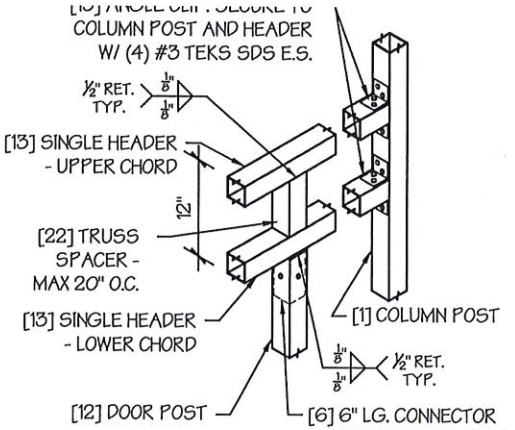

COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL 3
SCALE: NTS



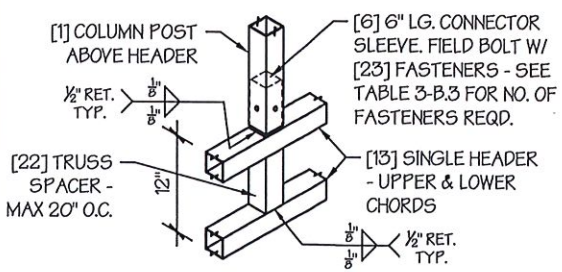

TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 4
SCALE: NTS




COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL 5
SCALE: NTS




COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL 6
SCALE: NTS




COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL 7
SCALE: NTS

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**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE:
SIDE WALL FRAMING DETAILS
SHEET NO.: 7-B / 11
DRAWN BY: A.W. DATE: 1/22/21
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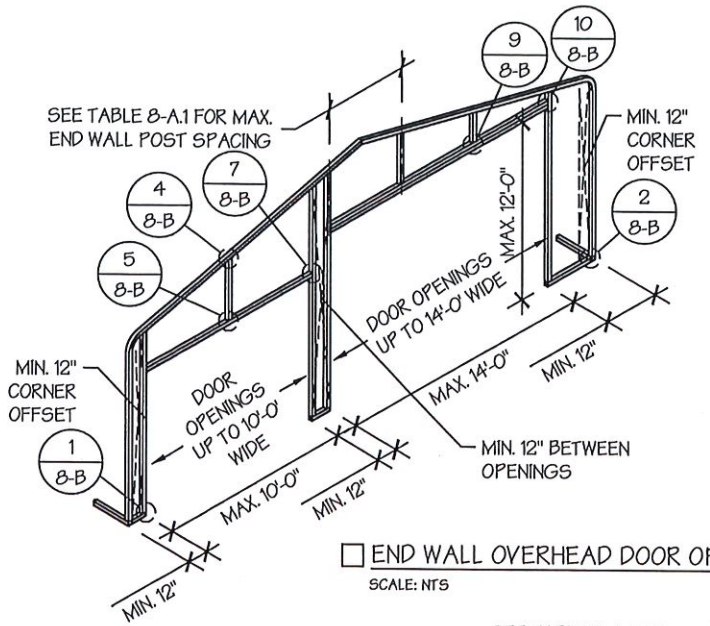
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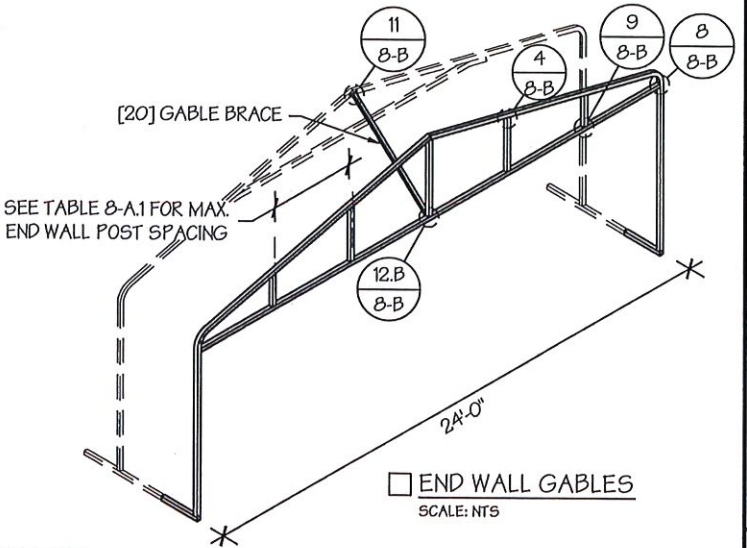
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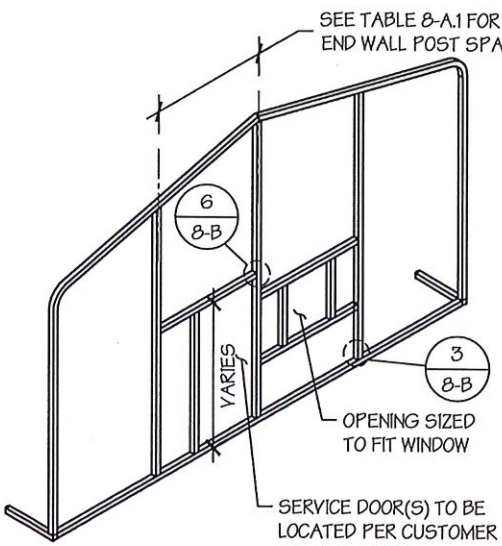

END WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



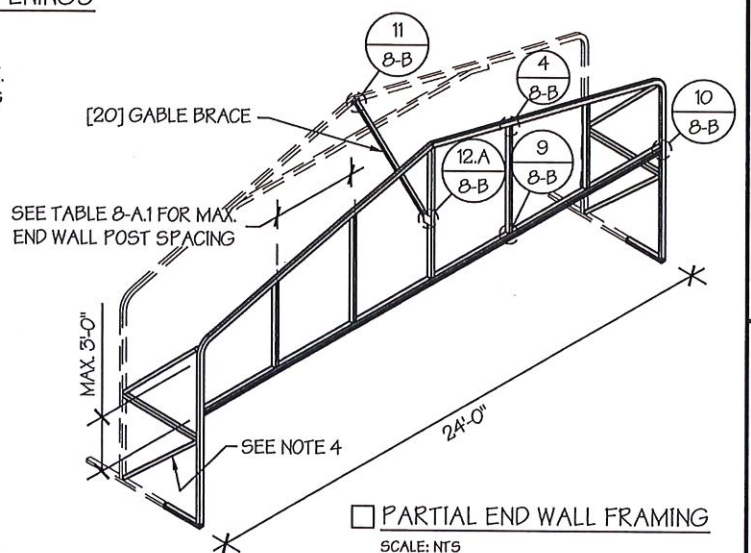

END WALL GABLES

SCALE: NTS




END WALL SERVICE DOOR AND WINDOW OPENINGS

SCALE: NTS




PARTIAL END WALL FRAMING

SCALE: NTS

TABLE 8-A.1: END WALL POST SPACING SCHEDULE

| WIND SPEED (MPH) | EAVE HEIGHT | | |
|---|---|---|---|
| | ■ UP TO 7' | ■ 8' TO 9' | ■ 10' TO 12' |
| □ 105 | 5' | 5' | 5' |
| □ 115 | 5' | 5' | 4.5' |
| □ 130 | 4.5' | 4.5' | 4' |
| □ 140 | 4.5' | 4.5' | 3' |
| □ 155 | 4' | 4' | 2.5' |
| □ 165 - 180 | 3.5' | 3' | 2' |

## END WALL FRAMING NOTES:

1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
4. DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

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AMERICAN STEEL CARPORTS INC

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CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

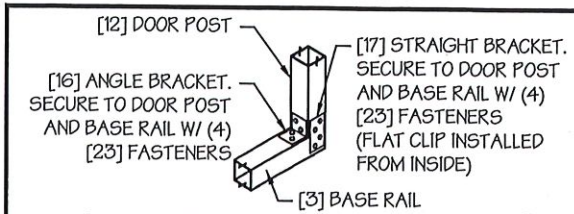
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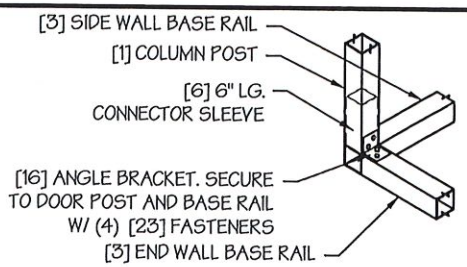
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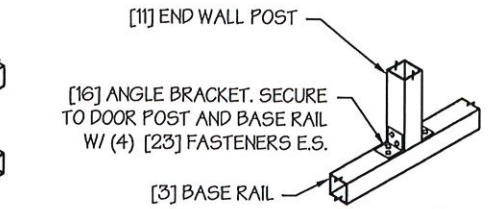
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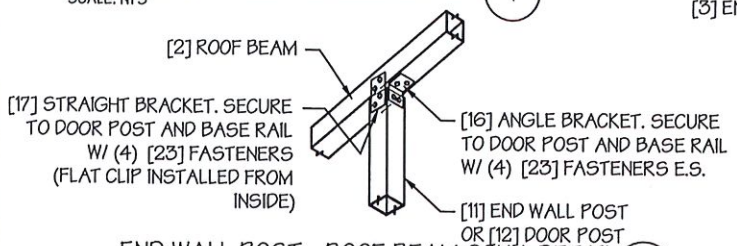

DOOR POST BASE RAIL CONN. DETAIL 1
SCALE: NTS



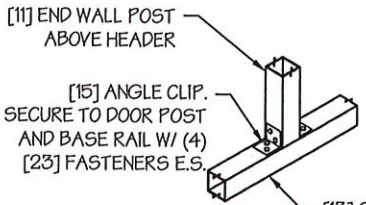

CORNER DETAIL 2
SCALE: NTS



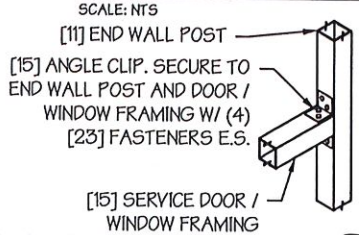

END WALL POST - BASE RAIL CONN. DETAIL 3
SCALE: NTS



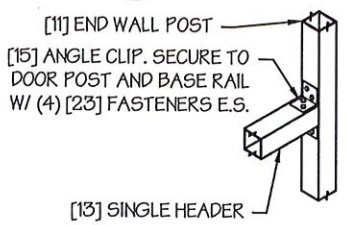

END WALL POST - ROOF BEAM CONN. DETAIL 4
SCALE: NTS



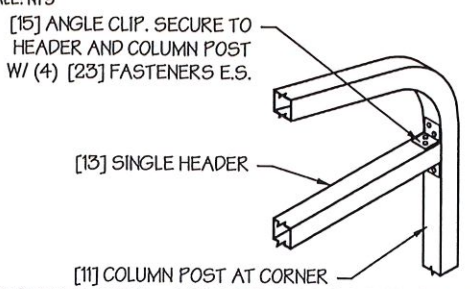

END WALL POST ABOVE HEADER CONN. DETAIL 5
SCALE: NTS



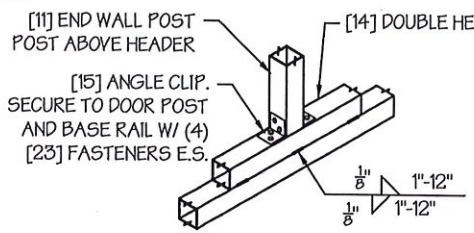

TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 6
SCALE: NTS



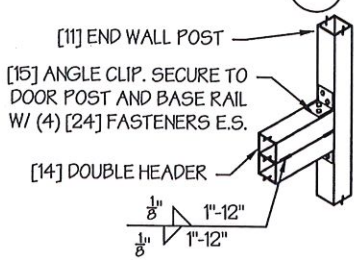

HEADER - END WALL POST CONN. DETAIL 7
SCALE: NTS



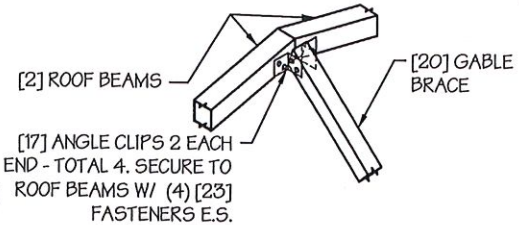

GABLE HEADER - CORNER POST CONN. DETAIL 8
SCALE: NTS



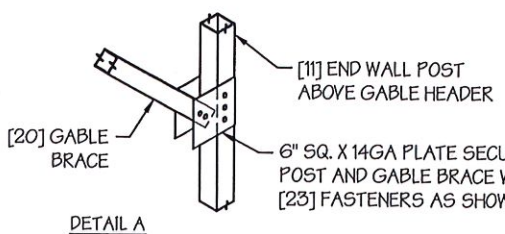

END WALL POST ABOVE DOUBLE HEADER CONN. DETAIL 9
SCALE: NTS



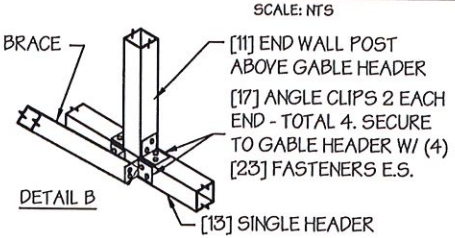

DOUBLE HEADER - END WALL POST CONN. DETAIL 10
SCALE: NTS




TYP. GABLE BRACE CONN. DETAIL 11
SCALE: NTS




DETAIL A




DETAIL B

GABLE BRACE - END WALL CONN. DETAIL 12
SCALE: NTS

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6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

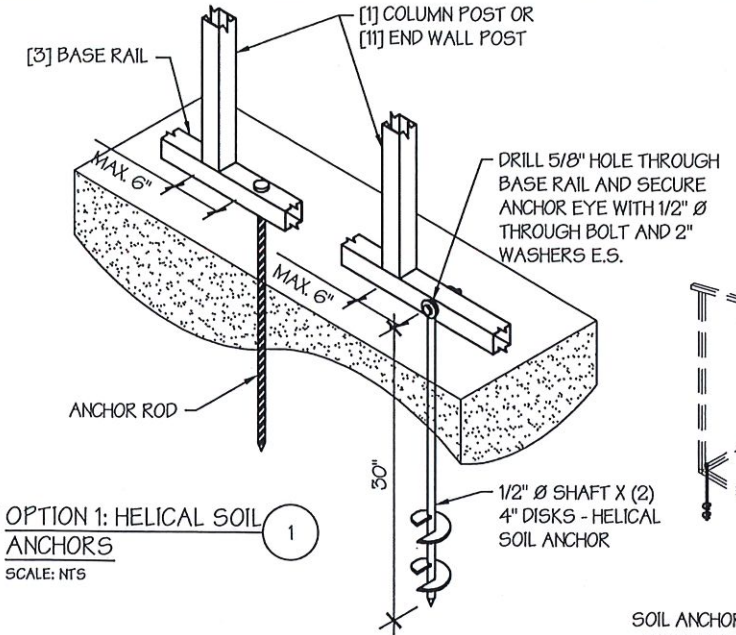
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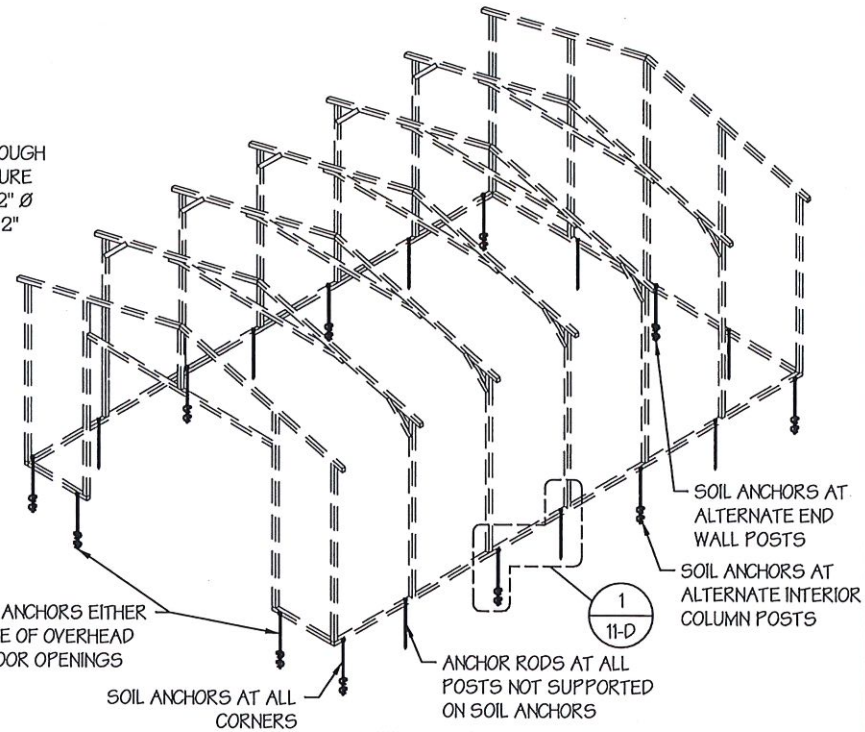
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023




☐ OPTION 1: HELICAL SOIL ANCHORS (1)

SCALE: NTS




SOIL FOUNDATION

SCALE: NTS

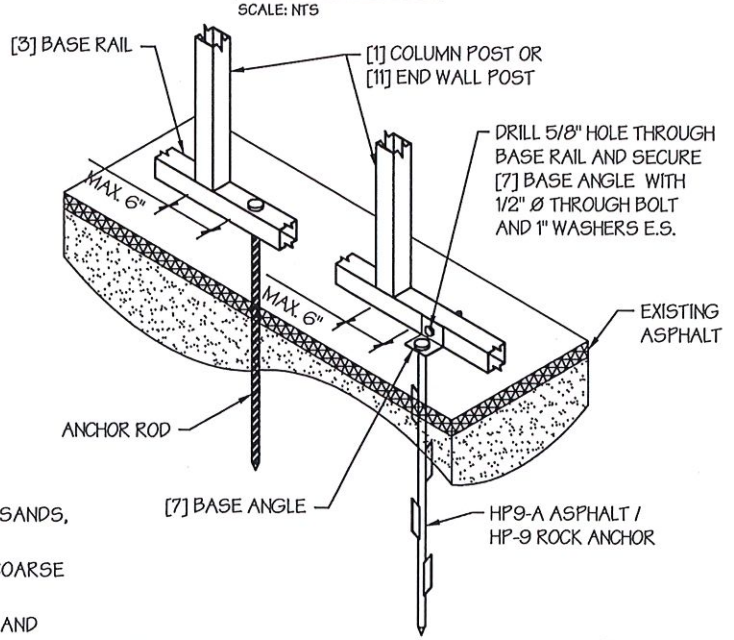
## SOIL FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
2. SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
3. HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
4. HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
5. ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
6. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

## SOIL CLASSIFICATIONS:

| SOIL CLASS | DESCRIPTION |
|---|---|
| 2 | SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL/COBBLES, PRELOADED SILTS, CLAYS AND CORAL. |
| 3 | SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS. |
| 4 | LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS. |

*FROM HUD *"MODEL MANUFACTURED HOME INSTALLATION STANDARDS"*




☐ OPTION 2: ROCK / ASPHALT ANCHORS (1)

SCALE: NTS

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AMERICAN STEEL CARPORTS INC

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**DRAWING INFORMATION**

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

FOUNDATION OPTION 4: SOIL ANCHORS

SHEET NO.: 11-D / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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