HISTORIC DISTRICT COMMISSION
ADDITIONAL INFORMATION REQUEST

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

Date: 06/11/26

Application Number: HDC2026-00290

APPLICANT & PROPERTY INFORMATION

NAME: Ikenna Okereke		**COMPANY NAME:** N/A	
ADDRESS: 1977 Atkinson St.	**CITY:** Detroit	**STATE:** MI	**ZIP:** 48206
PROJECT ADDRESS: 1977 Atkinson St., Detroit, MI			
HISTORIC DISTRICT: Atkinson Avenue			

REQUESTED INFORMATION

We have received your application, but it is not yet complete for review. Please provide additional details based on the comments and questions listed below. Should you need to attach additional files per this request, use the paperclip icons at the end of this form. You may attach up to (5) files per icon up to 25MB:

Thank you for the additional information. We still have some questions about the height and materials to be used.

--Please provide an elevation where heights are marked, including height of the garage door, height of the wall where it meets the roof, and height of the highest point of the proposed building.

--Please provide more product information. Is the roof shingled? If so, with what? If it's not to be shingled, what will the roof look like? Will it be textured? Smooth? Please provide a product cut sheet for the roof that includes photos of how your roof would look.

--Please provide a product cut sheet with photos of the siding material you are proposing. The Commission will need to understand material and design details of the siding.

-- Please provide more product information about the white overhead doors and the walk-in door. Please provide a product cut sheet with photos of the doors you are proposing. The Commission will need to understand material and design details on both kinds of doors. (The walk-in door is listed as steel; are the overhead doors steel as well?)

--Please provide a product cut sheet for the vents in the gables so the Commission can understand in detail how they will look and their material.

--Please provide a product cut sheet for the windows so the Commission can understand in detail how they will look, how they will operate, and their material.

--Please provide a photo of the front of the house so the Commission can see how the proposed garage will relate to the house.

Thank you.

PSR: Ellen 260611et

APPLICANT RESPONSE

Response Date: 06/25/2026

We have responded to the requests for additional information. Thank you.

24' WIDE FRAME
'CARPORT STYLE' METAL BUILDING GENERICS

SCOPE OF PLANS:

1. TO PROVIDE STRUCTURAL DESIGN FOR A VARIETY OF PRE-FAB METAL BUILDINGS PER THE SPECIFIED DESIGN LOADS, AND APPLICABLE BUILDING CODES.
2. DOES NOT PROVIDE ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH DESIGN OR REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY THEIR RESPECTIVE PROFESSIONALS IN CHARGE.
3. DOES NOT PROVIDE ANY DOOR OR WINDOW DESIGN INFORMATION. THOSE SHALL BE ADDRESSED BY DOOR AND WINDOW MANUFACTURER.
4. THESE DOCUMENT SHALL NOT BE USED TO PERMIT OR JUSTIFY DESIGN OF AS-BUILT / EXISTING STRUCTURES OR BUILDINGS BUILT WITHOUT A PERMIT.

GENERAL DESIGN NOTES

1. THESE STRUCTURES ARE DESIGNED AS **RISK CATEGORY I (NON-HABITABLE)**, UTILITY / STORAGE / PRIVATE GARAGE / SHED TYPE BUILDINGS - THAT ONLY DESIGNED TO RESIST THE DEAD LOADS, LIVE LOADS, AND WIND LOADS LISTED UNDER "STRUCTURAL DESIGN CRITERIA". ANY ADDITIONAL LOADINGS WITHOUT RE-DESIGN OR ENGINEERING CONSULTATION SHALL NOT BE PERMITTED.
2. ALL MATERIALS IDENTIFIED BY A MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
3. ALL WELDED CONNECTIONS SHALL BE SHOP WELDED CONNECTIONS. **FIELD WELDING IS NOT PERMITTED NOR REQUIRED.**
4. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE:
   ASTM A500 GRADE C OR EQUAL:
   Fy = 50 KSI **Fu = 65 KSI**
5. GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA OF THIS STRUCTURE, U.N.O.

STRUCTURAL DESIGN CRITERIA

ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PREVAILING CODES LISTED BELOW AND ALL APPLICABLE LOCAL REQUIREMENTS.

PREVAILING CODE:	**MBC** 2015
MINIMUM DESIGN STANDARD:	**ASCE 7-16**
OCCUPANCY GROUP:	U (CARPORT / UTILITY / GARAGE / SHED)
CONSTRUCTION TYPE:	V - B
RISK CATEGORY:	**I (NON-HABITABLE)**
1. ROOF DEAD LOAD (D)	**2.0** PSF (COLLATERAL)
2. ROOF LIVE LOAD (Lr)	Lr = **20** TO **61** PSF *(VARIES BASED ON FRAME SPACING AND DESIGN OPTIONS)*
3. SNOW LOAD (S)	
GROUND SNOW LOAD	Pg = **20** TO **90** PSF *(VARIES BASED ON FRAME SPACING AND DESIGN OPTIONS)*
IMPORTANCE FACTOR	Is = 0.80
THERMAL FACTOR	Ct = 1.2
EXPOSURE FACTOR	Ce = 1.0
ROOF SLOPE FACTOR	Cs = 1.0
FLAT ROOF SNOW LOAD	Pf = **20** TO **61** PSF
SLOPED ROOF SNOW LOAD	Ps = **20** TO **61** PSF
MINIMUM SNOW LOAD	Pm = **20**
4. WIND LOAD (W)	
EXPOSURE	C
DESIGN WIND SPEED	Vult = 105 TO **180** MPH *(VARIES BASED ON FRAME SPACING AND DESIGN OPTIONS)*
5. SEISMIC LOAD (E)	
DESIGN CATEGORY	C
IMPORTANCE FACTOR	Ie = 1.00

ASD 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)

CONTACT INFORMATION

FOR QUESTIONS OR INFORMATION NEEDED PLEASE, CONTACT THE **METAL BUILDINGS MANUFACTURER LISTED ON PLANS.** ENGINEER OF RECORD REQUIRES AUTHORIZATION FROM THE METAL BUILDINGS MANUFACTURER TO ADDRESS ANY QUERIES

ANY REQUESTS, CHANGES, MODIFICATIONS REVISIONS TO INFORMATION PROVIDED IN THIS DOCUMENT WILL REQUIRE A COMPLETELY SEPARATE SITE-SPECIFIC SET OF PLANS; INQUIRE WITH THE LISTED METAL BUILDING MANUFACTURER.

STRUCTURAL SHEET INDEX

MANUFACTURED BY:

MIDWEST STEEL
You Envision. We Build.

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL

DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF MICHIGAN
PROJECT NO.: 227-25-2582
SHEET TITLE: COVER SHEET
SHEET NO.: 1 / 11
CHECKED BY: OAA **DATE:** 1/25/24

LEGAL INFORMATION

SEAL:

STATE OF MICHIGAN
OMAR A. ABU-YASEIN
ENGINEER
NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2028
DATE SIGNED: 04-14-2026

CUSTOMER INFORMATION

OWNER: Ikenna Okereke
ADDRESS: 1977 Atkinson Street
Detroit, MI 48202

DESIGN LOADS

GROUND SNOW: 30 lb
ROOF LIVE LOAD: 20
BASIC WIND SPEED: 115 mph

BUILDING INFORMATION

WIDTH: 24'
LENGTH: 35'
HEIGHT: 9'

FRAME TYPE: ☒ A-FRAME ☐ REGULAR
ENCLOSURE TYPE: ☒ FULL ☐ PARTIAL ☐ OPEN

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS EXPIRATION: 09-16-2026

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

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" X 1" X 14GA / 18GA HAT CHANNEL	5
9	GIRT	4" X 1" 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

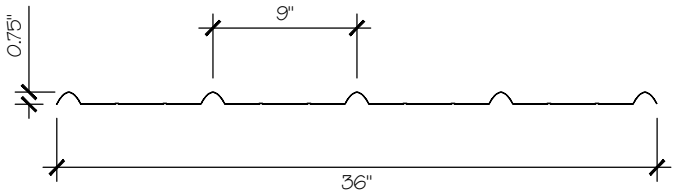
LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4½" C/C	9" C/C

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

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

TABLE 2.3: GAUGE THICKNESS

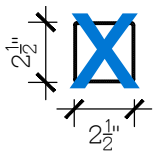
GAUGE	29	18	14	12
THICKNESS (IN)	0.0135	0.049	0.083	0.109



THICKNESS = 29GA

29 GA CORRUGATED SHEATHING (8)

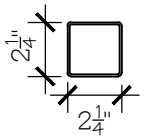
SCALE: NTS



THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE (1)

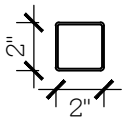
SCALE: NTS



THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE (2)

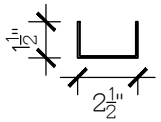
SCALE: NTS



THICKNESS = 14GA

2" X 2" 14GA TUBE (3)

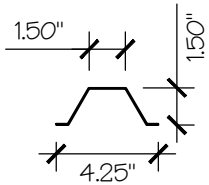
SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL (4)

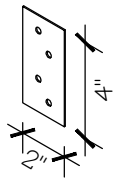
SCALE: NTS



THICKNESS = 14GA / 18GA

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

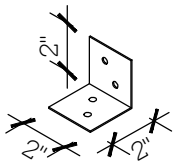
SCALE: NTS



THICKNESS = 14GA

STRAIGHT BRACKET (6)

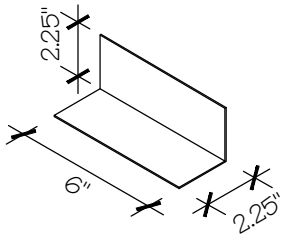
SCALE: NTS



THICKNESS = 14GA

ANGLE BRACKET (7)

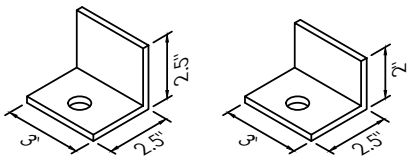
SCALE: NTS



THICKNESS = 14GA

DB BRACKET (9)

SCALE: NTS



OPTION A
L 2½" X 2½" X 3⁄16"

OPTION B
L 2½" X 2" X 3⁄16"
SLV

BASE ANGLE (10)

SCALE: NTS

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

STATE OF MICHIGAN
OMAR A. ABU-YASEIN
ENGINEER
NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2028

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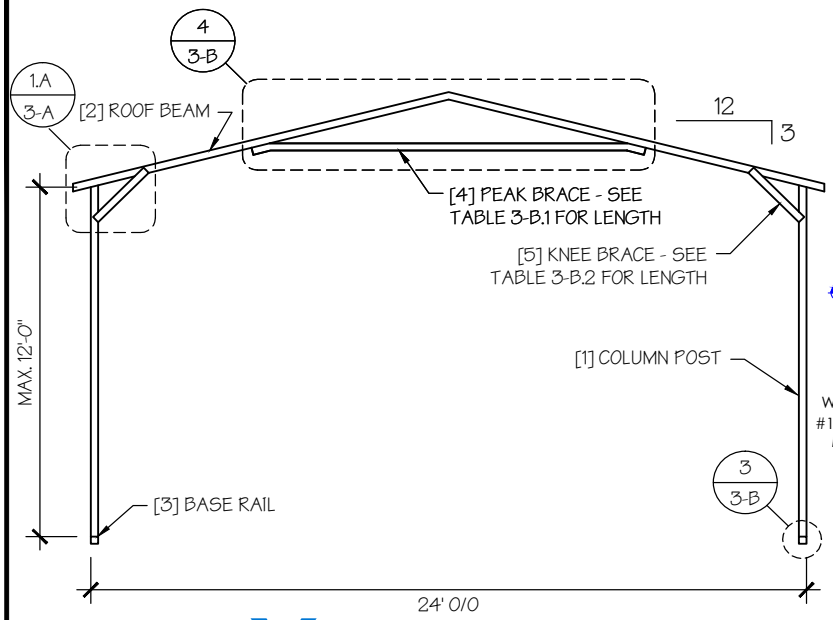
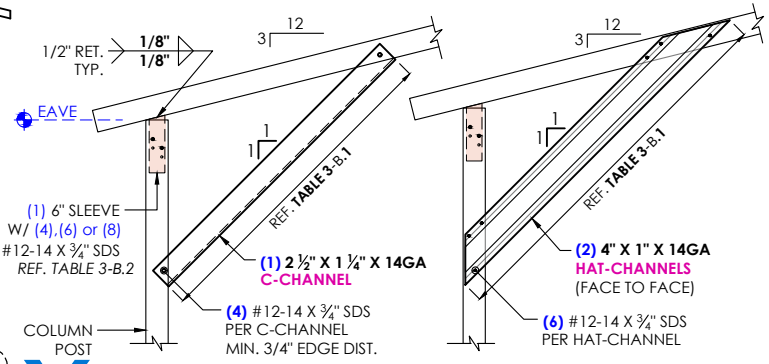
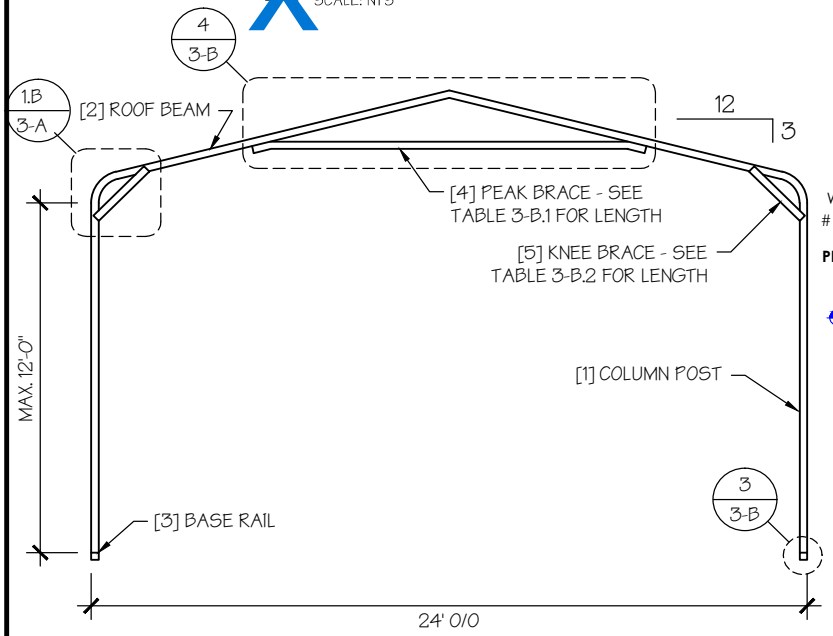


X TYP. A-FRAME SECTION
SCALE: NTS

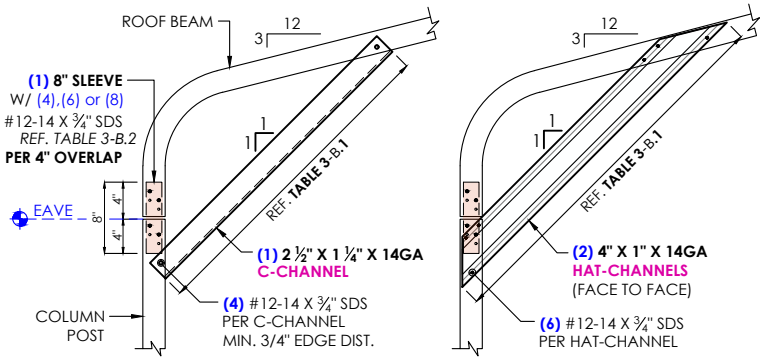


X 4 SIDES FULLY ENCLOSED ONLY X ANY ENCLOSURE

1A **A-FRAME** (BOXED) STYLE - EAVE DETAIL
SCALE : NTS



☐ TYP. REGULAR FRAME SECTION
SCALE: NTS



☐ 4 SIDES FULLY ENCLOSED ONLY ☐ ANY ENCLOSURE

1B **REGULAR** (BENT-BOW) STYLE - EAVE DETAIL
SCALE : NTS

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

SHEET TITLE:
FRAME SECTIONS & DETAILS

SHEET NO.: 3-A / 11

CHECKED BY: OAA **DATE:** 1/25/24

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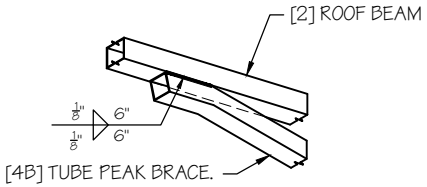
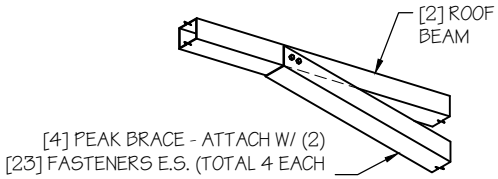
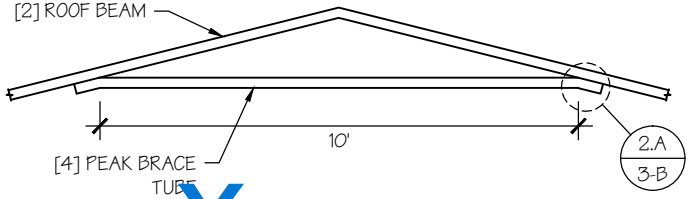


A. PEAK BRACE TUBE

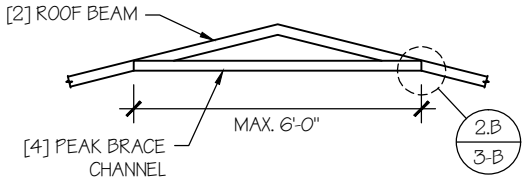


B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS 2
SCALE: NTS

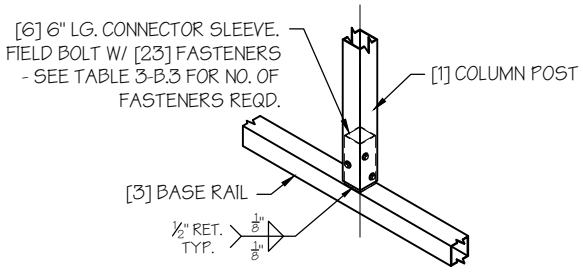


X A. WELDED PEAK BRACE



☐ 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'
☐ 30 / 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.

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF MICHIGAN
PROJECT NO.: 227-25-2582
SHEET TITLE:

FRAME DETAILS

SHEET NO.: 3-B / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

STATE OF MICHIGAN
OMAR A. ABU-YASEIN
LICENSED PROFESSIONAL ENGINEER
NO. 6201040679

STAMP EXPIRY: 03-24-2028
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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
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	☐ 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	---	---	---	---	---	---	---	---	---	---	---	---	---	---

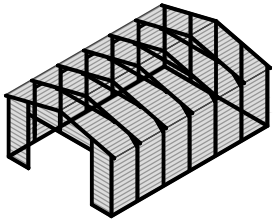
NOTES:
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL ROOF SHEATHING
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO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

ENCLOSURE CLASSIFICATION:

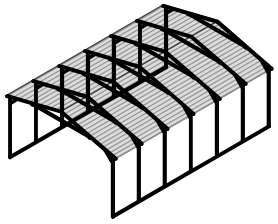
1. ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING 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.

GENERAL NOTES:

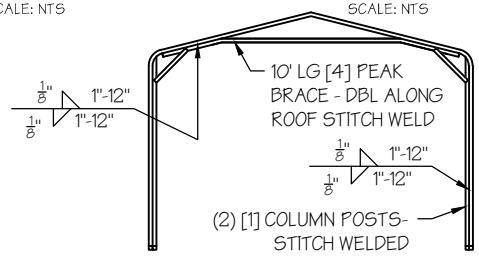
1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET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



TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS



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

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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

SHEET TITLE:
SPACING SCHEDULES & ENCLOSURE NOTES

SHEET NO.: 4 / 11

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LEGAL INFORMATION

SEAL:

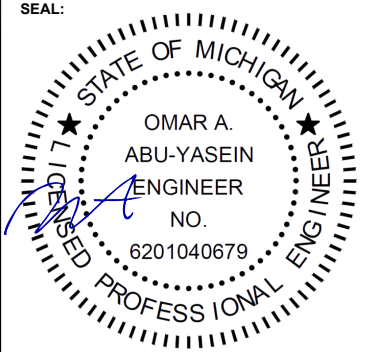

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TABLE 5.1: PURLIN SPACING SCHEDULE

FRAME SPACING:	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ 14GA. HAT CHANNEL PURLIN — WIND SPEED (MPH)							■ 18GA. HAT CHANNEL PURLIN — WIND SPEED (MPH)						
		□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180	□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180
■ 5'-0"	□ 30 / 20	54	48	42	36	30	24	24	36	30	24	18	18	12	12
	□ 40 / 27	42	42	42	36	30	24	24	30	30	24	18	18	12	12
	□ 50 / 34	40	40	40	36	30	24	24	24	24	24	18	18	12	12
	□ 60 / 41	36	36	36	36	30	24	24	18	18	18	18	18	12	12
	□ 70 / 47	32	32	32	32	30	24	24	18	18	18	18	18	12	12
	□ 80 / 54	30	30	30	30	30	24	24	18	18	18	18	18	12	12
	□ 90 / 61	24	24	24	24	24	24	24	12	12	12	12	12	12	12
■ 4'-6"	□ 30 / 20	54	48	42	42	36	30	30	48	36	30	24	18	18	12
	□ 40 / 27	42	42	42	42	36	30	30	42	36	30	24	18	18	12
	□ 50 / 34	40	40	40	40	36	30	30	30	30	30	24	18	18	12
	□ 60 / 41	36	36	36	36	36	30	30	30	30	30	24	18	18	12
	□ 70 / 47	32	32	32	32	32	30	30	24	24	24	24	18	18	12
	□ 80 / 54	32	32	32	32	32	30	30	18	18	18	18	18	18	12
	□ 90 / 61	30	30	30	30	30	30	30	18	18	18	18	18	18	12
■ 4'-0"	□ 30 / 20	54	48	42	42	36	36	30	54	48	36	30	24	24	18
	□ 40 / 27	42	42	42	42	36	36	30	42	42	36	30	24	24	18
	□ 50 / 34	40	40	40	40	36	36	30	40	40	36	30	24	24	18
	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	30	24	24	18
	□ 70 / 47	32	32	32	32	32	32	30	30	30	30	30	24	24	18
	□ 80 / 54	32	32	32	32	32	32	30	24	24	24	24	24	24	18
	□ 90 / 61	30	30	30	30	30	30	30	24	24	24	24	24	24	18
■ 3'-6"	□ 30 / 20	54	48	42	42	36	36	30	54	48	42	42	36	30	30
	□ 40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	30	30
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	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	30	30
	□ 70 / 47	32	32	32	32	32	32	30	32	32	32	32	32	30	30
	□ 80 / 54	32	32	32	32	32	32	30	32	32	32	32	32	30	30
	□ 90 / 61	30	30	30	30	30	30	30	30	30	30	30	30	30	30
■ 3'-0" OR LOWER	□ 30 / 20	54	48	42	42	36	36	30	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30	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.

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 AND 18 GA PURLINS.
3. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

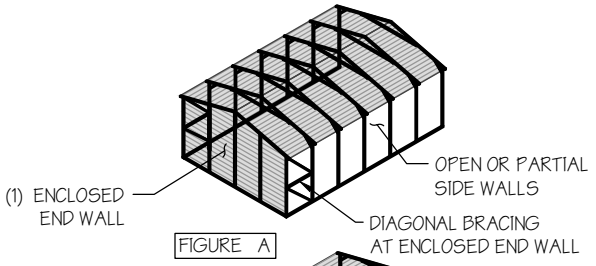

FIGURE A

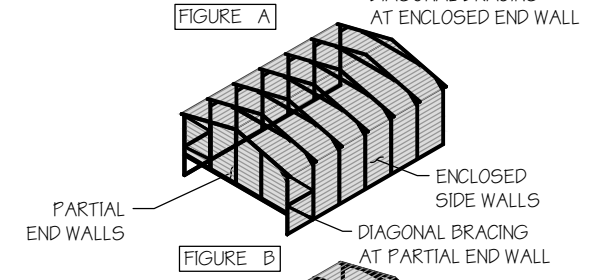

FIGURE B

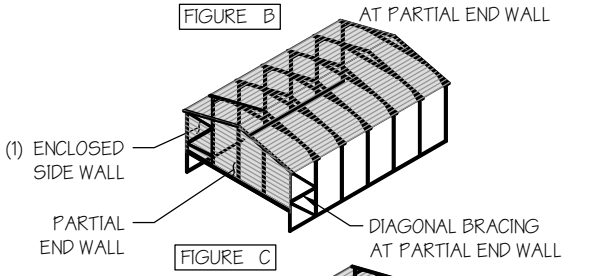

FIGURE C

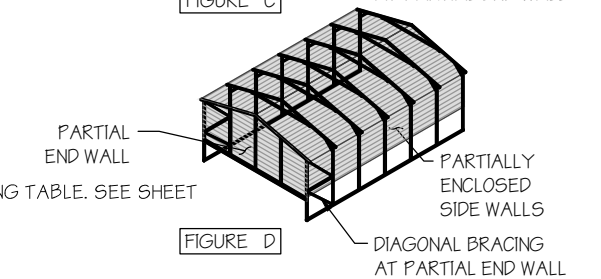

FIGURE D

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.

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LEGAL INFORMATION

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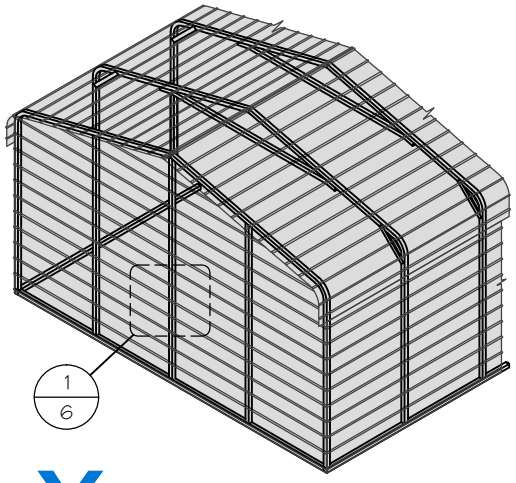
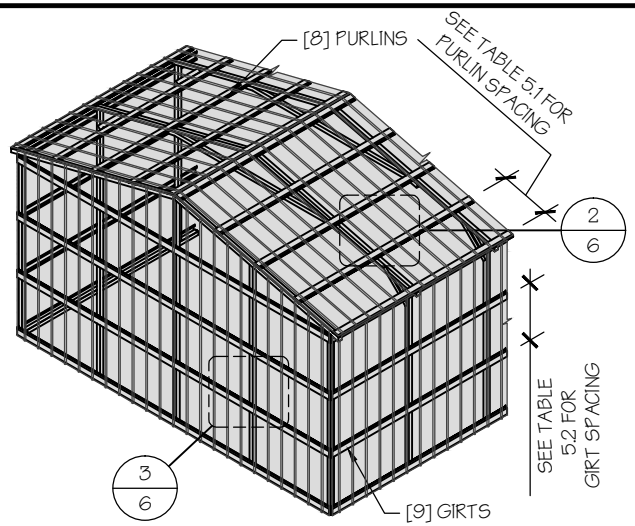


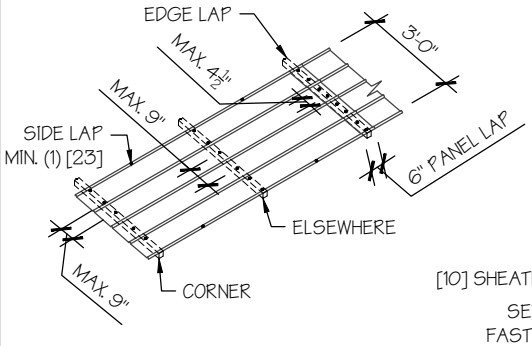
X TYP. HORIZONTAL SHEATHING
SCALE: NTS



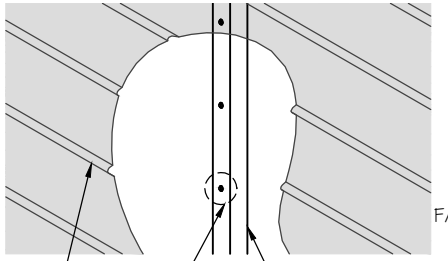
☐ TYP. VERTICAL SHEATHING
SCALE: NTS

GENERAL SHEATHING NOTES:

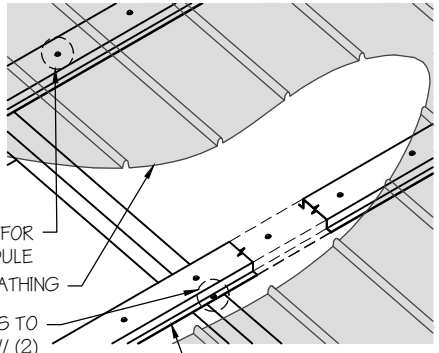
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW 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
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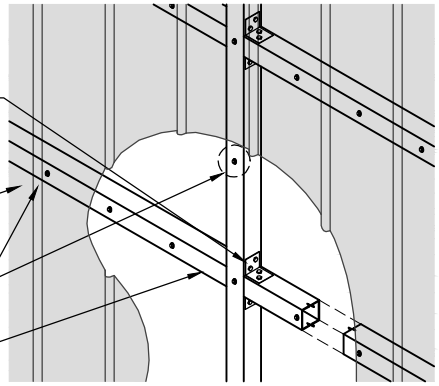
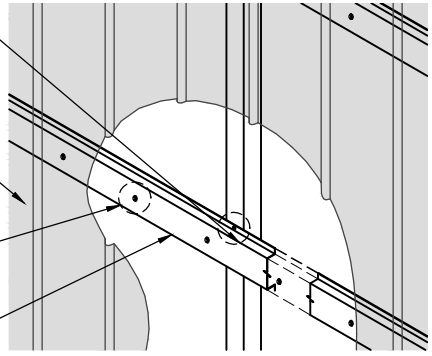


☐ WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS



☐ WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL 3
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LOCATION: STATE OF MICHIGAN
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SHEET NO.: 6 / 11
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LEGAL INFORMATION

SEAL:

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OMAR A. ABU-YASEIN
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NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2028
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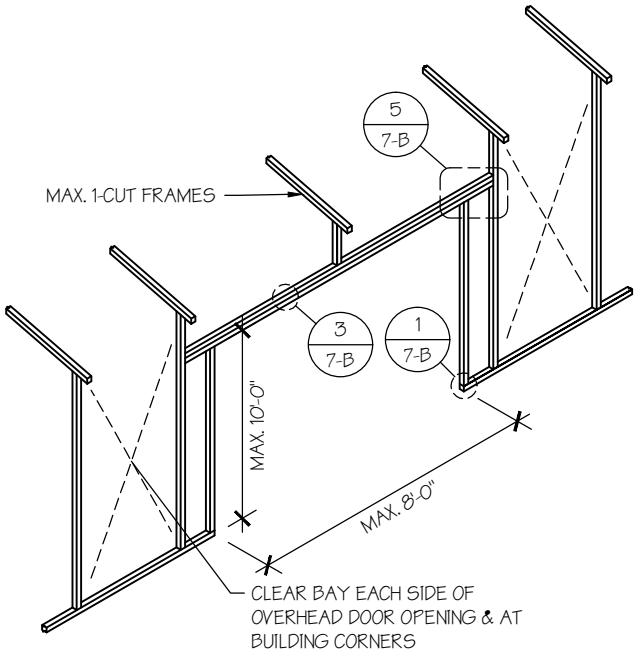
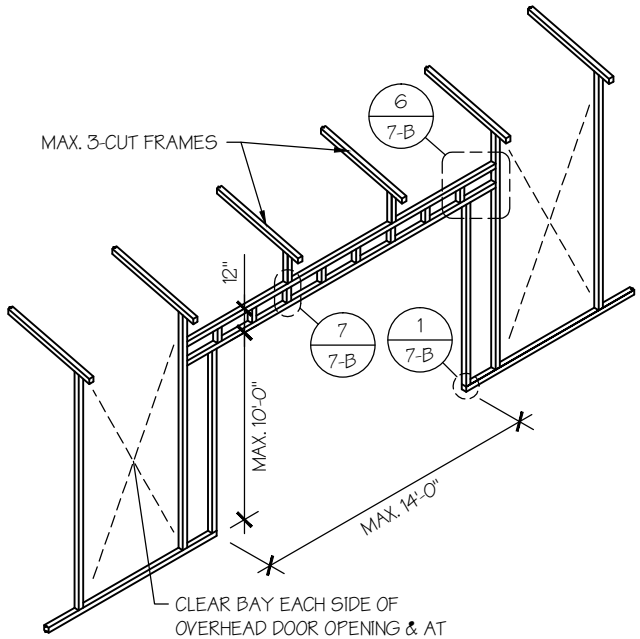


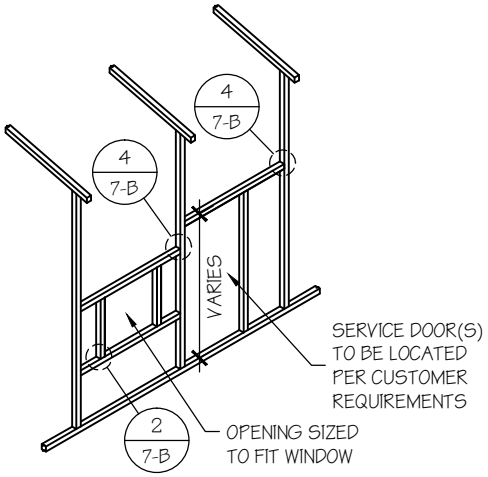
☐ SIDE WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



X SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER

SCALE: NTS



X 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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PROJECT NO.: 227-25-2582

SHEET TITLE:
SIDE WALL FRAMING & OPENINGS

SHEET NO.: 7-A / 11

CHECKED BY: OAA **DATE:** 1/25/24

LEGAL INFORMATION

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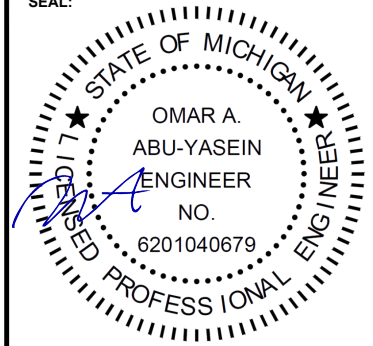

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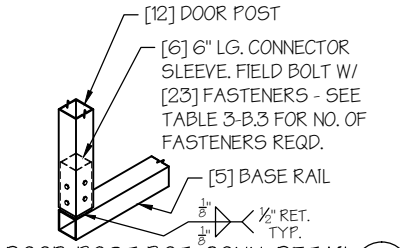
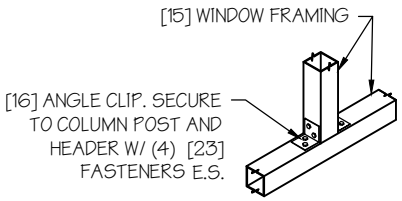


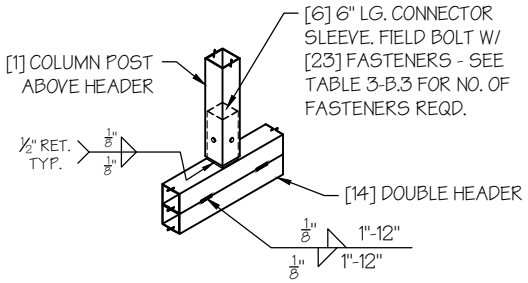
DOOR POST BOT. CONN. DETAIL 1

SCALE: NTS



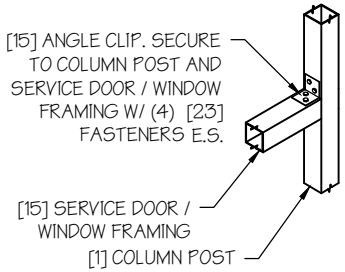
TYP. WINDOW FRAMING CONN. DETAIL 2

SCALE: NTS



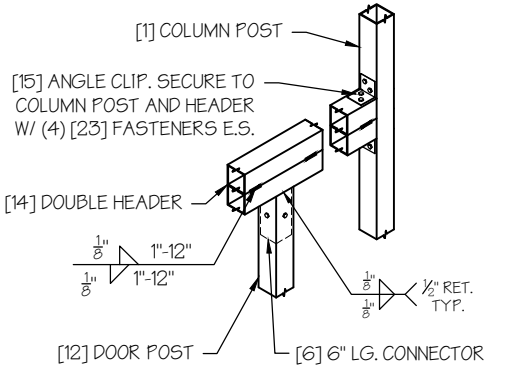
COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL 3

SCALE: NTS



TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 4

SCALE: NTS



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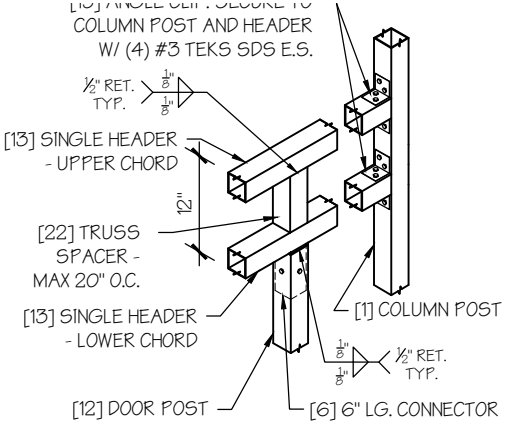
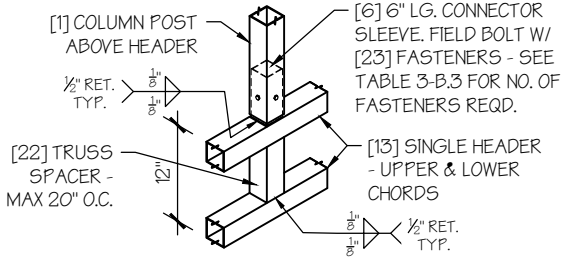
SCALE: NTS



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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PROJECT NO.: 227-25-2582

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SIDE WALL FRAMING DETAILS

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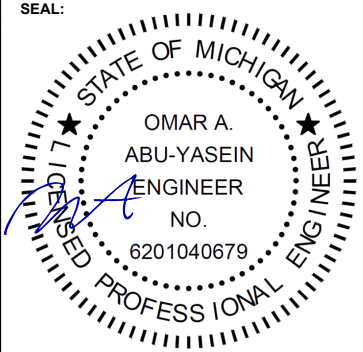

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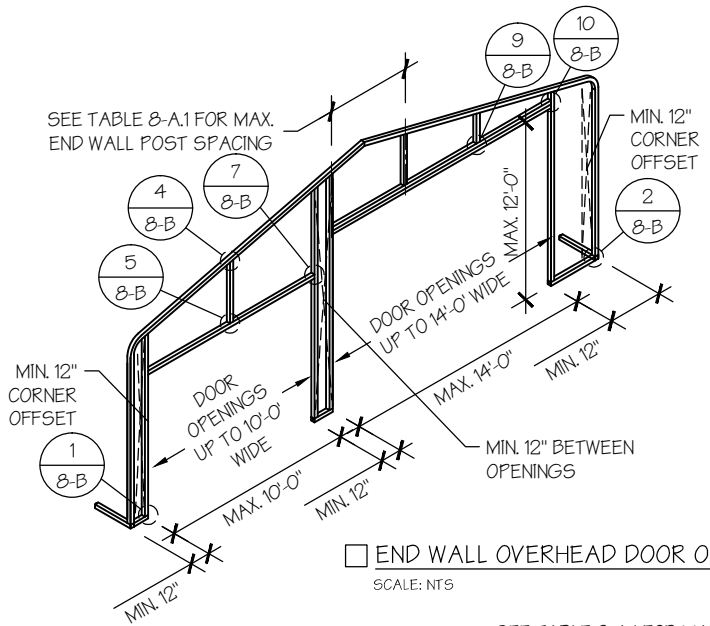
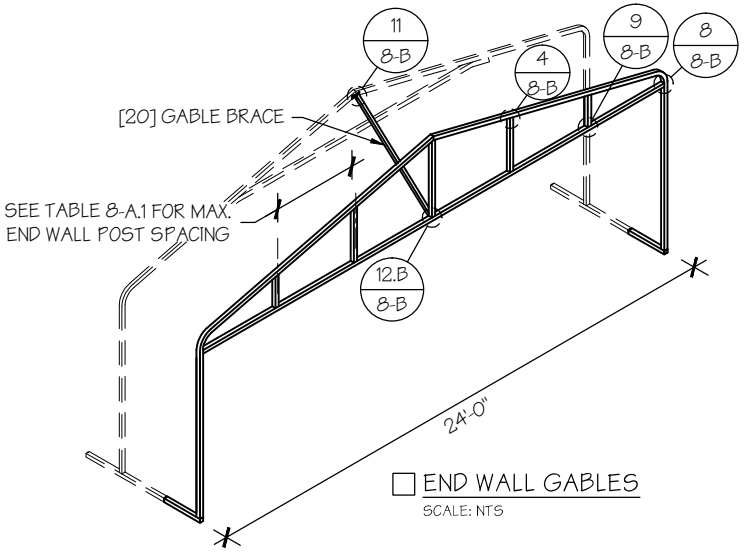


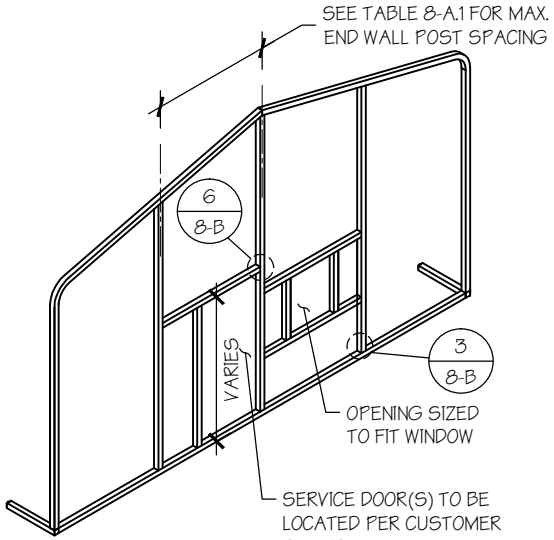
☐ END WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



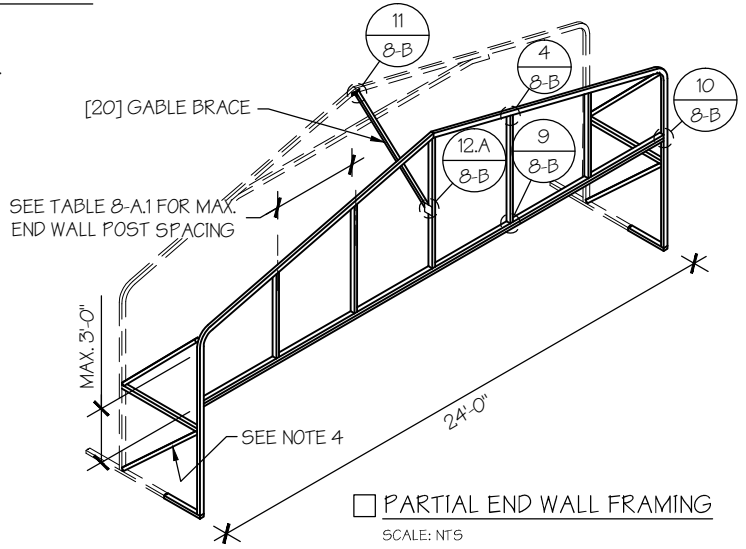
☐ END WALL GABLES

SCALE: NTS



X END WALL SERVICE DOOR AND WINDOW OPENINGS

SCALE: NTS



☐ PARTIAL END WALL FRAMING

SCALE: NTS

GABLE BRACING NOTE

1. GABLE BRACE IS ONLY REQUIRED FOR PARTIALLY ENCLOSED END WALLS (END WALL POSTS ARE NOT ANCHORED TO THE GROUND).
2. FULLY ENCLOSED OR OPEN END WALLS DO NOT REQUIRE GABLE BRACING.

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.

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'

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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11

CHECKED BY: OAA DATE: 1/25/24

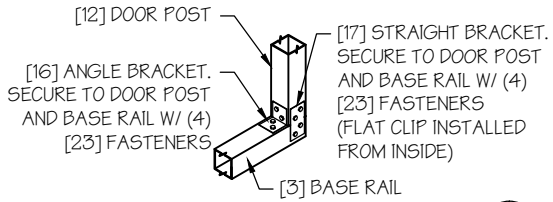
LEGAL INFORMATION

SEAL:

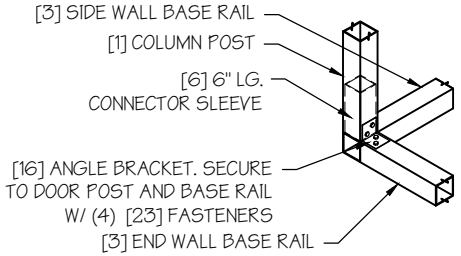
STATE OF MICHIGAN
LICENSED PROFESSIONAL ENGINEER
OMAR A. ABU-YASEIN
ENGINEER NO. 6201040679

STAMP EXPIRY: 03-24-2028

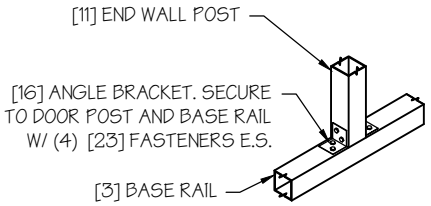
DATE SIGNED: 04-14-2026



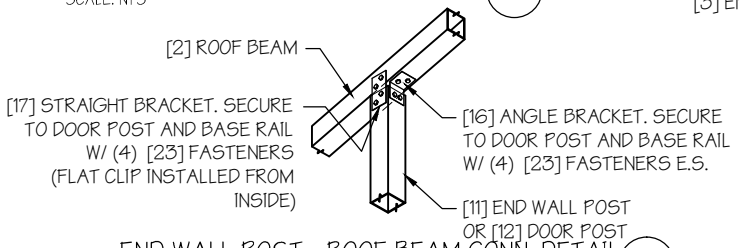
DOOR POST BASE RAIL CONN. DETAIL 1
SCALE: NTS



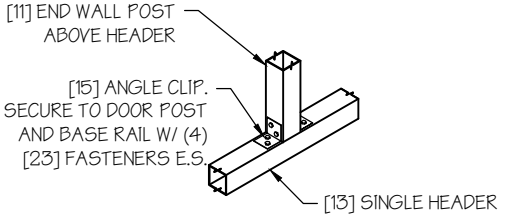
CORNER DETAIL 2
SCALE: NTS



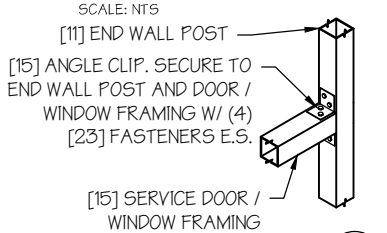
END WALL POST - BASE RAIL CONN. DETAIL 3
SCALE: NTS



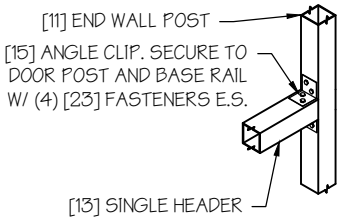
END WALL POST - ROOF BEAM CONN. DETAIL 4
SCALE: NTS



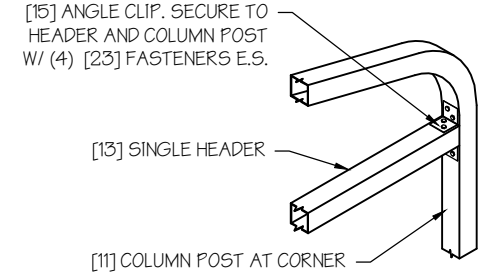
END WALL POST ABOVE HEADER CONN. DETAIL 5
SCALE: NTS



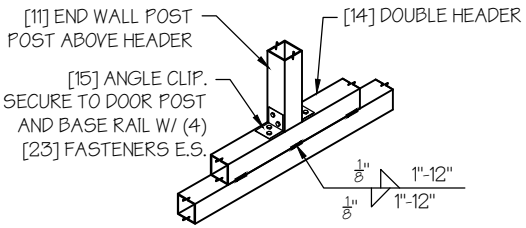
TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 6
SCALE: NTS



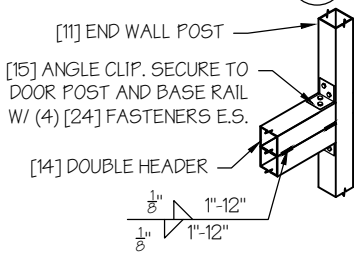
HEADER - END WALL POST CONN. DETAIL 7
SCALE: NTS



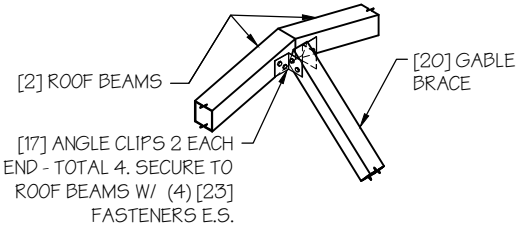
GABLE HEADER - CORNER POST CONN. DETAIL 8
SCALE: NTS



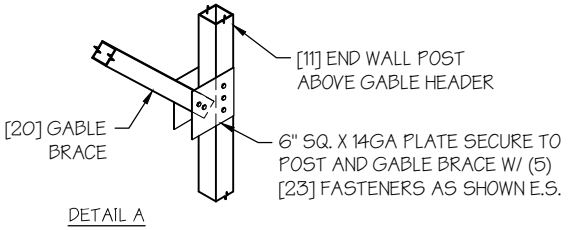
END WALL POST ABOVE DOUBLE HEADER CONN. DETAIL 9
SCALE: NTS



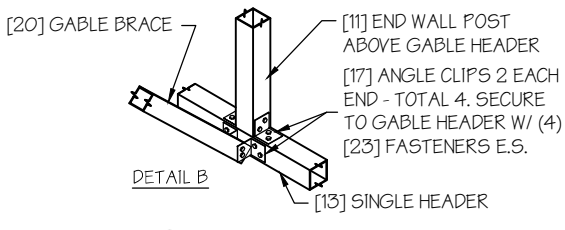
DOUBLE HEADER - END WALL POST CONN. DETAIL 10
SCALE: NTS



TYP. GABLE BRACE CONN. DETAIL 11
SCALE: NTS



DETAIL A



DETAIL B

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

GABLE BRACING NOTE

1. GABLE BRACE IS ONLY REQUIRED FOR PARTIALLY ENCLOSED END WALLS (END WALL POSTS ARE NOT ANCHORED TO THE GROUND).
2. FULLY ENCLOSED OR OPEN END WALLS DO NOT REQUIRE GABLE BRACING.

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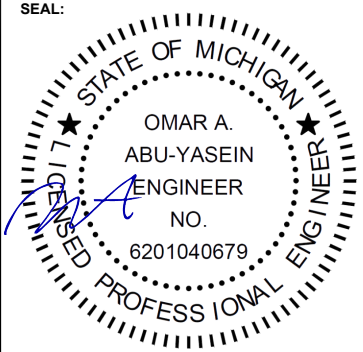
DRAWING INFORMATION

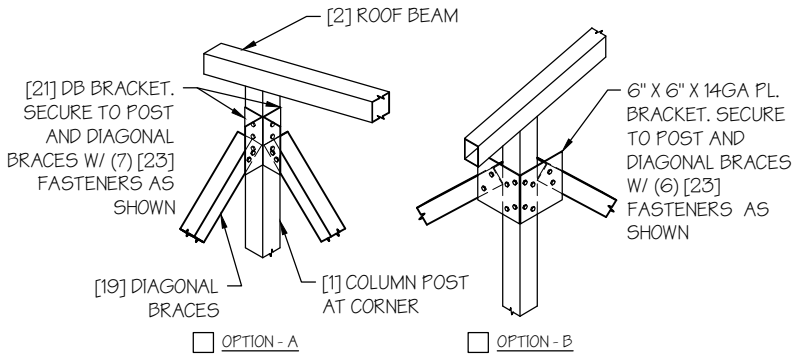
PROJECT: 24' WIDE
LOCATION: STATE OF MICHIGAN
PROJECT NO.: 227-25-2582
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11
CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

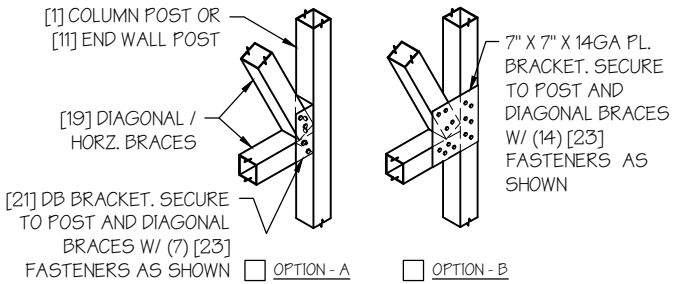


STAMP EXPIRY: 03-24-2028
DATE SIGNED: 04-14-2026



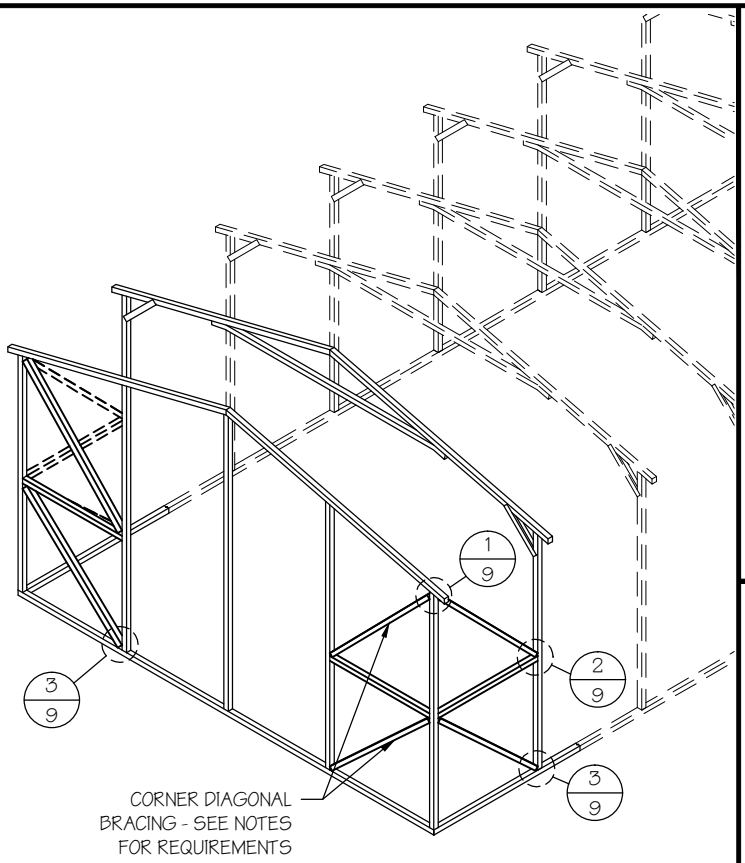
DIAGONAL BRACE TOP CORNER CONN. DETAIL* 1

SCALE: NTS



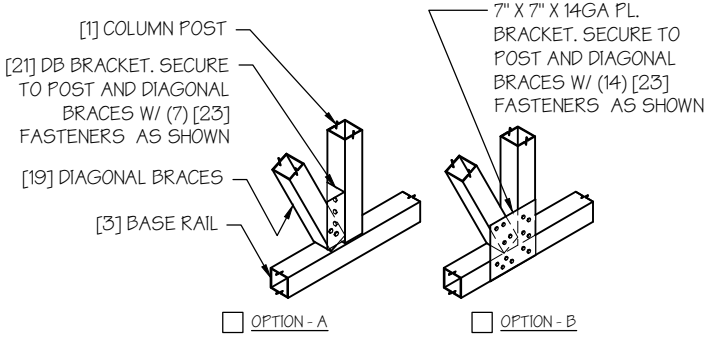
DIAGONAL BRACE - POST CONN. DETAIL* 2

SCALE: NTS



DIAGONAL BRACING AT CORNERS

SCALE: NTS



DIAGONAL BRACE BOT. CORNER CONN. DETAIL* 3

SCALE: NTS

* INSIDE VIEW SHOWN FOR CLARITY

CORNER BRACING NOTES:

1. DIAGONAL BRACING AT BUILDING CORNERS IS REQUIRED FOR ALL BUILDINGS IN LOCATIONS WHERE WIND SPEED IS 140 MPH OR GREATER.
   - FOR 3 SIDED ENCLOSED BUILDINGS 140 MPH OR GREATER WIND SPEED - THE BUILDING MUST BE DESIGNED WITH OPEN BUILDING SPACING AND DIAGONAL BRACING IS REQUIRED ON ALL ENCLOSED WALLS.
2. SIDE-WALL DIAGONAL BRACING IS REQUIRED WHEN THE ADJACENT END-WALL IS PARTIALLY ENCLOSED.
3. ALL BUILDINGS WITH IRREGULAR ENCLOSURE (SEE SHEET 5) WILL REQUIRE SIDE-WALL BRACING CLOSE TO THE PARTIALLY ENCLOSED END-WALL.

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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

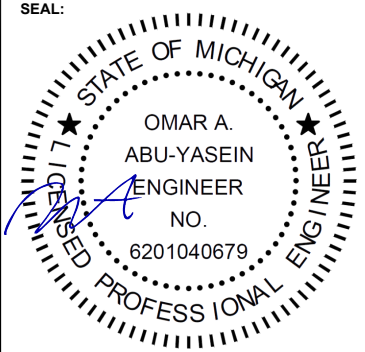
SHEET TITLE:
CORNER BRACING DETAILS

SHEET NO.: 9 / 11

CHECKED BY: OAA **DATE:** 1/25/24

LEGAL INFORMATION

SEAL:



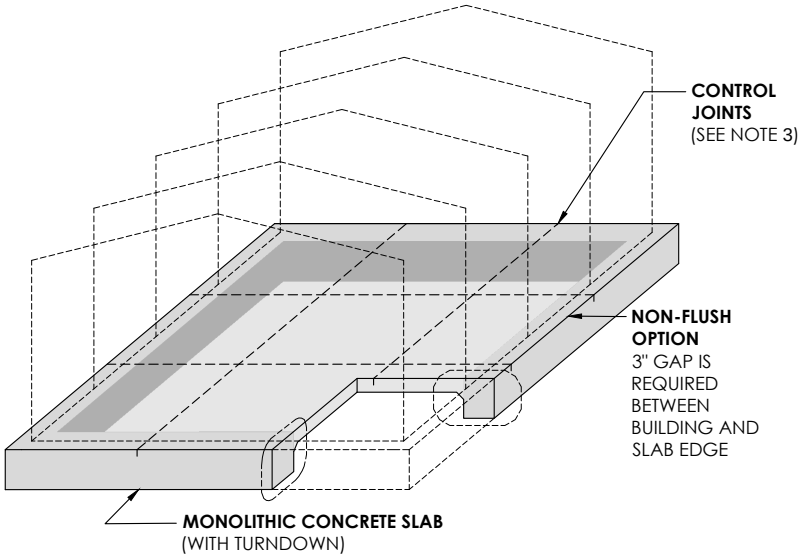
STAMP EXPIRY: 03-24-2028

DATE SIGNED: 04-14-2026

NON-FLUSH CONCRETE SLAB FOUNDATION NOTES:

1. THE LENGTH AND WIDTH OF THE SLAB SHALL **+6" GREATER** (3" GAP AROUND BUILDING PERIMETER ON ALL 4 SIDES) THAN THE FOOT-PRINT OF THE BUILDING TO ALLOW ANCHOR EDGE DISTANCE.
2. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
3. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
4. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
5. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
6. IT IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR TO SECURE AND VERIFY ALL DESIGN DETAILS PRIOR TO STARTING ANY WORK.

NOTE: ANY FOUNDATION POURED PRIOR TO BUILDING DEPARTMENTS APPROVAL OF THESE GENERICS, **IS CONSIDERED "BY OTHERS"**, AND IT'S DESIGN IS NO LONGER CERTIFIABLE BY THIS ENGINEER OF RECORD.



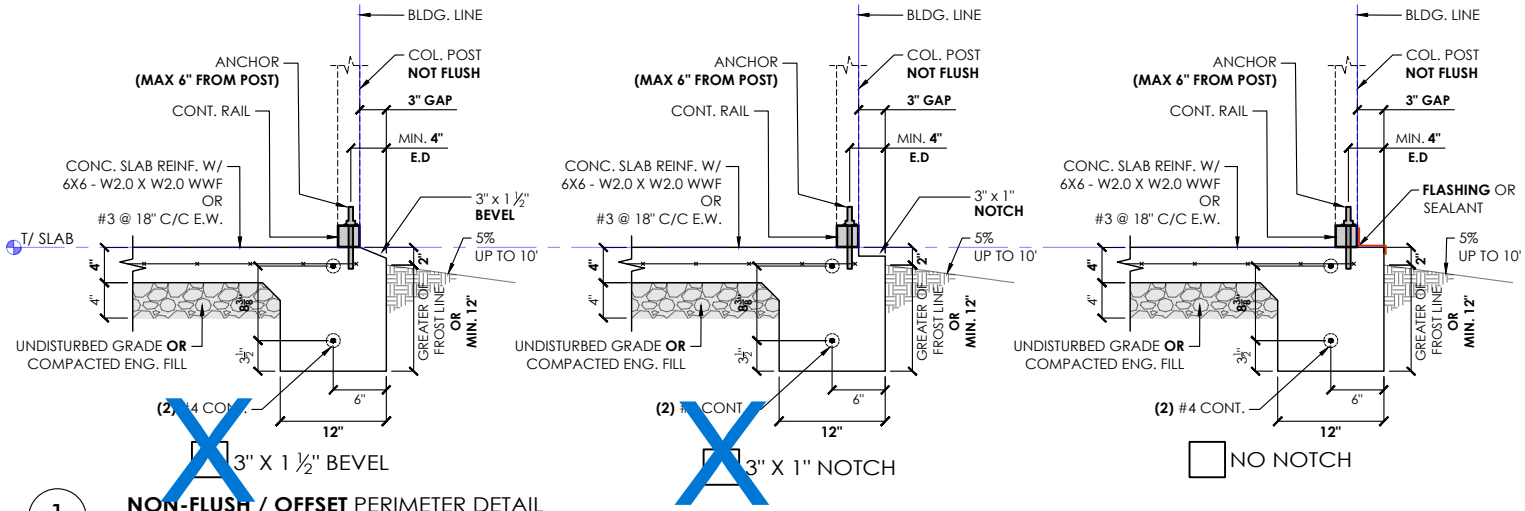
NON-FLUSH CONCRETE SLAB
SCALE : NTS

ANCHORAGE NOTES:

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 3".
3. MINIMUM SPACING BETWEEN TWO ADJACENT ANCHORS TO BE 4".
4. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
5. REF. TABLE 11 FOR ANCHORAGE SCHEDULE.
   - IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
   - AT MINIMUM, **1** CONCRETE ANCHOR SHALL BE LOCATED NEXT TO EVERY POST AND **1** ANCHOR ON EITHER SIDE OF OPENINGS.
   - AT MINIMUM, **2** ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL.

TABLE 11 : ANCHORAGE SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	☒105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"
OPEN	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"



1 **NON-FLUSH / OFFSET** PERIMETER DETAIL
SCALE : NTS

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF MICHIGAN
PROJECT NO.: 227-25-2582
SHEET TITLE: FOUNDATION OPTION 1: CONCRETE SLAB
SHEET NO.: 11-A / 11
CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

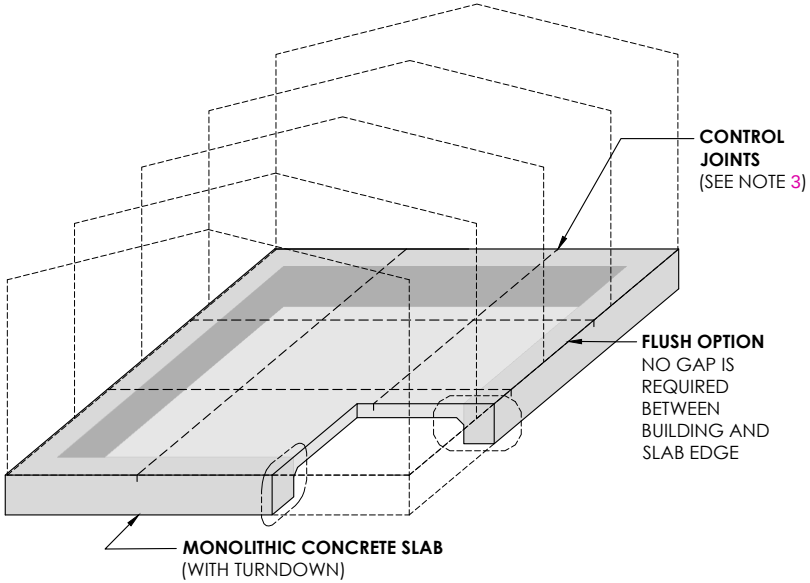
STATE OF MICHIGAN
OMAR A. ABU-YASEIN
ENGINEER
NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2028
DATE SIGNED: 04-14-2026

FLUSH CONCRETE SLAB FOUNDATION NOTES:

1. THE SIZE OF THE SLAB SHALL EQUAL THE FOOT-PRINT OF THE BUILDING. **ANCHORS CANNOT BE INSTALLED THRU THE BASE RAIL. ANCHORS SHALL BE INSTALLED THRU WELDED ANGLES OR INTERNAL TUBE PIECES** (REF. DETAIL 1) TO ALLOW ANCHOR EDGE DISTANCE.
2. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
3. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
4. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
5. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
6. IT IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR TO SECURE AND VERIFY ALL DESIGN DETAILS PRIOR TO STARTING ANY WORK.

NOTE: ANY FOUNDATION POURED PRIOR TO BUILDING DEPARTMENTS APPROVAL OF THESE GENERICS, **IS CONSIDERED "BY OTHERS"**, AND IT'S DESIGN IS NO LONGER CERTIFIABLE BY THIS ENGINEER OF RECORD.



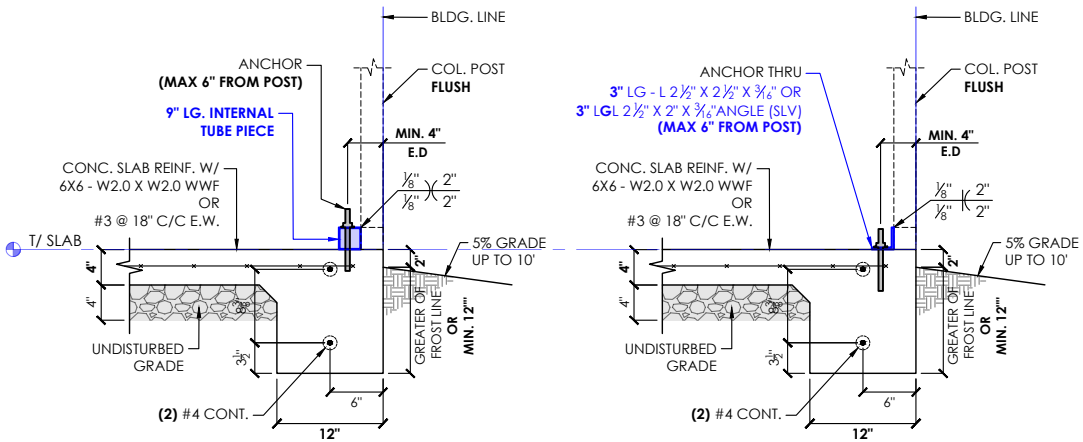
FLUSH CONCRETE SLAB
SCALE : NTS

ANCHORAGE NOTES:

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 3".
3. MINIMUM SPACING BETWEEN TWO ADJACENT ANCHORS TO BE 4".
4. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
5. REF. TABLE 11 FOR ANCHORAGE SCHEDULE.
   - IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
   - AT MINIMUM, **1** CONCRETE ANCHOR SHALL BE LOCATED NEXT TO EVERY POST AND **1** ANCHOR ON EITHER SIDE OF OPENINGS.
   - AT MINIMUM, **2** ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL.

TABLE 11 : ANCHORAGE SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"
OPEN	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"



1 **FLUSH** PERIMETER DETAIL
SCALE : NTS

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF MICHIGAN
PROJECT NO.: 227-25-2582
SHEET TITLE:
FOUNDATION OPTION 1:
FLUSH CONCRETE SLAB
SHEET NO.: 11-A / 11
CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

STATE OF MICHIGAN
OMAR A. ABU-YASEIN
ENGINEER
NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: **03-24-2028**
DATE SIGNED: **04-14-2026**

TABLE 11-B.1: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	☒105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"
OPEN	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"

NOTES:

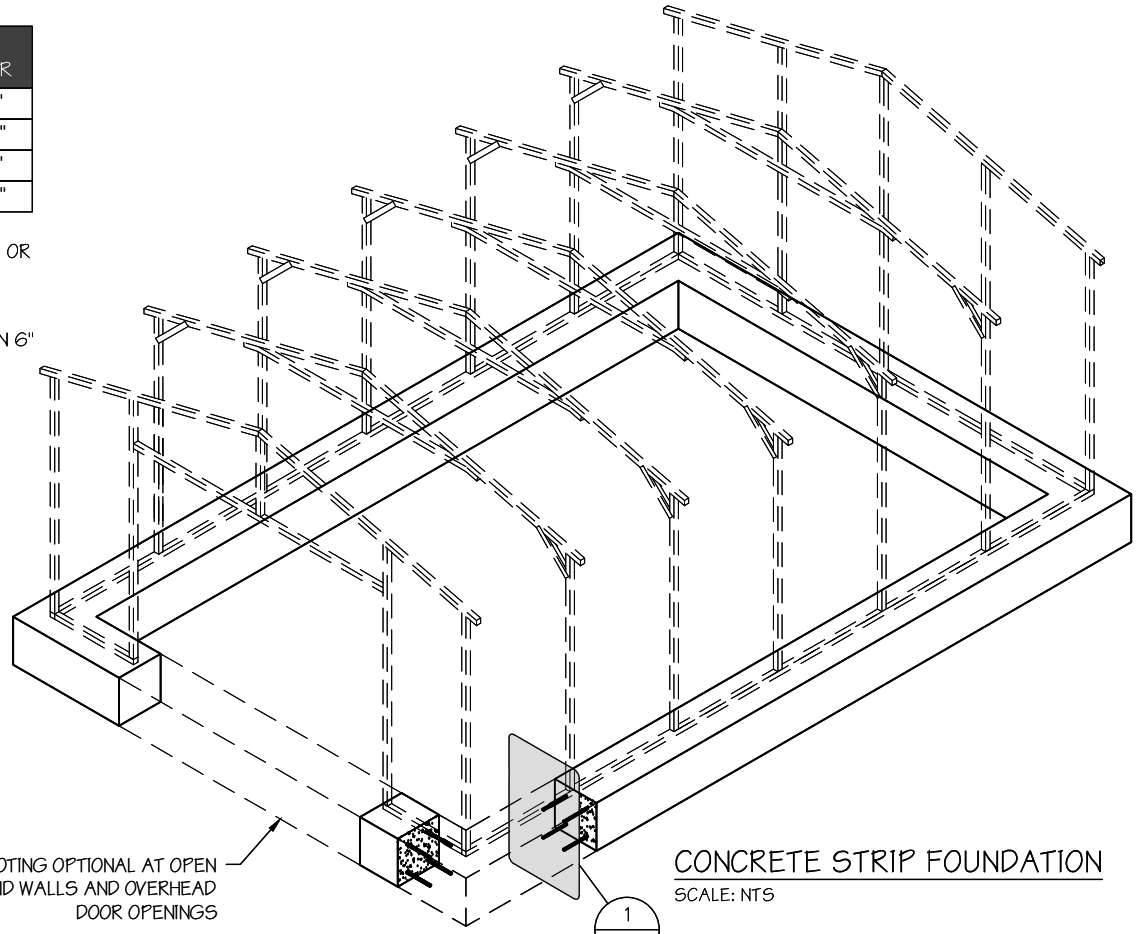
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE $2\frac{7}{8}$".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

TABLE 11-B.2: CONC. STRIP SCHEDULE

WIND SPEED (MPH)	MIN. SIZE REQD.
☒105 TO 130	15" X 12"
☐140 TO 155	24" X 12"
☐165 TO 180	30" X 12" 24 X 15" 20" X 18"

NOTES:

1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.

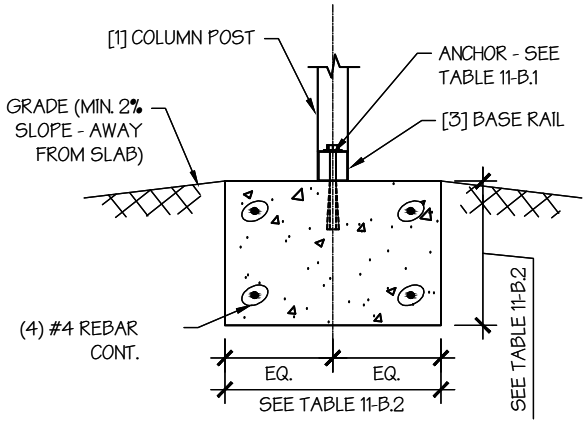


CONCRETE STRIP FOUNDATION

SCALE: NTS

CONCRETE STRIP FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
3. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-B.1.
4. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
5. DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
6. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
7. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
8. BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION.



☐ CONCRETE STRIP FOUNDATION DETAIL 1

SCALE: NTS

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

SHEET TITLE: FOUNDATION OPTION 2: CONCRETE STRIP

SHEET NO.: 11-B / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

STATE OF MICHIGAN
OMAR A. ABU-YASEIN
ENGINEER
NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2028

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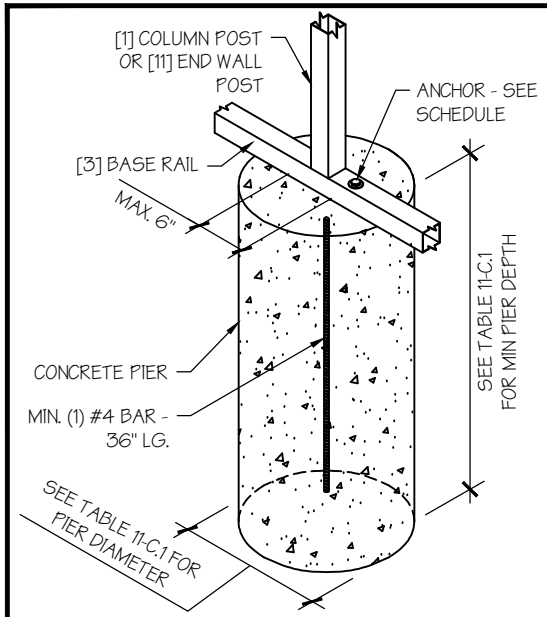
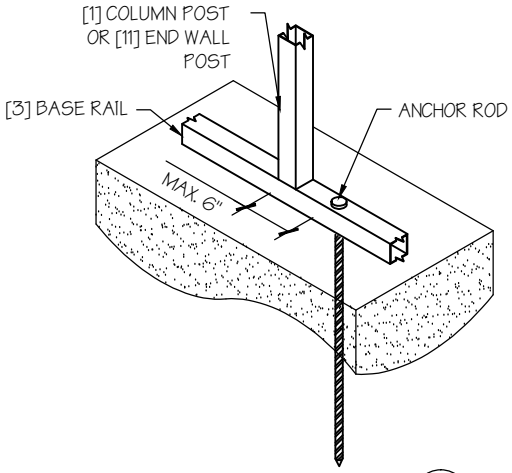


CONCRETE PIER DETAIL 1

SCALE: NTS

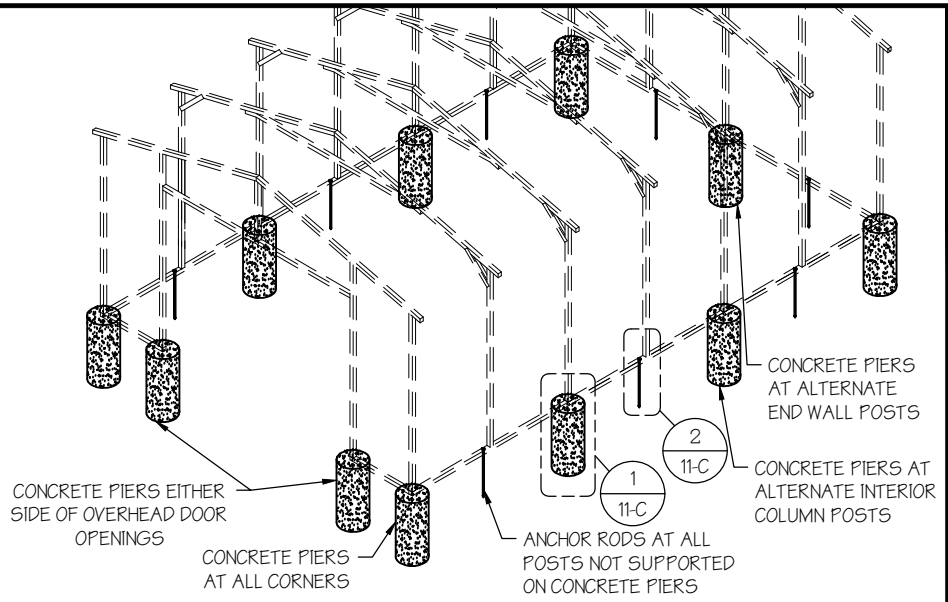


ANCHOR ROD INTO SOIL DETAIL 2

SCALE: NTS

TABLE 11-C.1: CONC. PIER SCHEDULE

WIND SPEED (MPH)	MIN. SIZE REQD.
☒105 TO 130	24"Ø X 36"
☐ TO 155	24"Ø X 42"
☐165 TO 180	24"Ø X 48"



☐ CONCRETE PIER FOUNDATION

SCALE: NTS

CONCRETE PIER FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE PIER FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE PIERS SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
3. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST WITH A PIER.
4. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
5. MIN. NUMBER OF CONCRETE ANCHORS PER POST WITH A PIER SHALL BE AS SHOWN IN TABLE 11-C.2.
6. TWO ANCHORS AND A PIER ARE REQUIRED AT DIAGONAL BRACING LOCATIONS WHEN REQUIRED.
7. ALL POSTS NOT SUPPORTED ON CONCRETE PIERS SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. THREADED ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
8. PIERS SHALL BE FORMED BY DIGGING A HOLE OF THE SAME SIZE AS THE PIER ON LEVEL GRADE AND FILLING IT WITH CONCRETE. THRD. ROD ANCHORS SHOULD BE DROPPED INTO THE PIERS PRIOR TO POURING THE CONCRETE.
9. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
10. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

TABLE 11-C.2: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	☒105 TO 135	(1) 1/2"Ø X 7"
	☐ TO 180	(2) 1/2"Ø X 7"
OPEN	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"

NOTES:

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE $2\frac{7}{8}$".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

MANUFACTURED BY:

MIDWEST STEEL
You Envision. We Build.

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL

DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 227-25-2582

SHEET TITLE: FOUNDATION OPTION 3: CONCRETE PIERS

SHEET NO.: 11-C / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

SEAL:

STATE OF MICHIGAN
OMAR A. ABU-YASEIN
ENGINEER
NO. 6201040679
LICENSED PROFESSIONAL ENGINEER

STAMP EXPIRY: 03-24-2028

DATE SIGNED: 04-14-2026

PLYCO Series 95EV Door

SIZES	2/6 x 6/8 2/8 x 6/8 3/0 x 6/8 3/6 x 6/8 4/0 x 6/8 Dbl. 6/0 x 6/8 Dbl. 8/0 x 6/8 3/0 x 7/0 3/6 x 7/0 4/0 x 7/0 Dbl. 6/0 x 7/0 Dbl. 8/0 x 7/0
OVERALL DIMENSIONS	a) For correct out to out dimensions see Data Sheet DO-3, 3068 size is 38" x 81 3/8 b) For Rough Opening dimensions, use dimensions (above - a) and add 1/2" to width and 3/8" to height
MULLION / ASTRAGAL	Double doors have attached astragal on the inactive panel of the pair - shipped knocked- down. Hinges are attached to jambs. Manual head and foot bolt concealed in the astragal with full header
HINGES	(3) 4" x 4" zinc plated fixed-pin hinges are standard, SS/NRP available as an option
THRESHOLD	Aluminum

DOOR PANEL

THICKNESS	1 3/4"
SKIN	Smooth 26 ga. Galvanized steel painted finish Polar White
EDGES	Rolled edge in aluminum core rails
BLOCKING	HDPE lock reinforced structure, optional closer blocking Special lock blocking is available
INSULATION	Panel R-13
EMBOSSING	3/0 x 6/8 only - Six panel style
COLORS	Available in Polar White and Chocolate Brown
LOCK FACE PREP	Standard with 2 1/8" lockset bore, backset of 2 3/4" (no bore is optional)
DEAD BOLT	Prep is optional, latchguard available as an option
SWEEP	Durable Alcryn Bulb & fin
LITE KITS	1-LI-2 20" x 24" Insulated 1-LE-2 16" x 16" Insulated 1-LU-2 4" x 48" Single glazed 1-LS-2 4" x 48" Insulated 1-LA-2 20" x 24" Single glazed 1-LB-2 22" x 36" Insulated 9-LB-2 22" x 36" Insulated with 9-Lite internal grids

Other glass sized available - lite kits listed above are most common

JAMB

TYPE	PREHUNG with kerf 3 1/2"
MATERIAL	16 ga Steel galvanized pre-painted
FEATURES	Q-Lon Weather Seal kerf seal
FLASHING	N/A

TESTING

AMMA/WDMA/CSA 101/I.S.2/A440-08 - Standard - NAFS - Certified Performance Label Available.

Air Infiltration	ASTM-E283	<.20 CFM/ft	Passed
Water Penetration	ASTM-E331	No leakage	Passed
Physical Endurance	AAMA 920	100,000 cycles	Passed
Forced Entry Resistance	AMMA 1304	300 lb. Point Load	Passed
Wind-Storm Resistance	ASTM-E330-02	Single Lock	+/-50 psf Class LC-PG50 (38x86)
(Flush Doors, up to 3070)		Deadlock added	+/-75 psf Class LC-PG75 (38x86)

(See Texas Product Evaluation #DR-538 & Florida FBC Product Approval #FL14800 95EV)

MADE IN AMERICA

PLYCO CORPORATION
PO BOX 386 • ELKHART LAKE, WI 53020

www.plyco.com 800/558-5895 FAX: 800/257-5926
INTERNATIONAL 920/876-3611 FAX: 920/876-3527

WINDOWS • WALK DOORS • WALL VENTS • RIDGE VENTS
SLIDING DOOR TRACK • SLIDE DOOR RAILS • PLY-FOIL INSULATION
HORSE STALLS • FASTENERS & CLOSURES • SPECIALTY PRODUCTS

TIMBERLAND PRODUCT INFORMATION

25 gauge in white with 24" x 12" windows

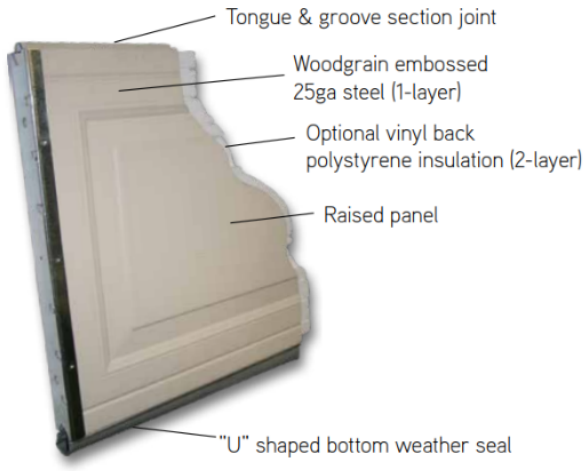
ADDITIONAL FEATURES

- Woodgrain embossed, hot-dipped galvanized steel is pre-finished exterior & interior then coated with baked-on polyester primer and acrylic finish.
- Optional polystyrene insulation reduces heat loss and features a laminated vinyl High Impact Thermal Styrene (HITS) backer.
- Wind load package available.
- Keyed or slide lock set.
- Nylon rollers for quiet operation.
- Window glass available - double strength or insulated.
- Environmentally-friendly polystyrene insulation.

WHY CHOOSE NORTH CENTRAL DOOR?

North Central Door Company understands that you have high standards when it comes to enhancing the appearance of your home. That is why we have been uncompromising in maintaining the high quality of our products since our beginning in 1966.

CONSTRUCTION



- 2" sections available with optional polystyrene insulation to increase thermal efficiency.
- 25-gauge woodgrain embossed exterior steel provides strength and durability.
- Raised panel design, in short and long panel versions, or woodgrain embossed ribbed design.
- Tongue and groove section joints create a weather-resistant seal against rain, snow and wind.
- 18 gauge stiles are mechanically fastened, providing section strength while eliminating welds that often rust.
- Hinges are 14-gauge, hot-dipped galvanized steel for lasting durability.
- Heavy-duty "U" shaped bottom weather seal helps protect against elements.
- R-value of 6.9 (2-layer)

For complete specifications, visit northcentraldoor.com