

24'-0" WIDE CARPORT STYLE BUILDINGS

DESIGN NOTES

OWNER: ADDRESS:

- 1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2021, OSHA, AISC 360, AISI 100, ASCE 7-16, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- 2. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- 3. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
- 4. ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 X 3 4 SDS (ESR-2196 OR EQ) WITHOUT WASHERS.
- 5. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ. CONNECTIONS SHALL BE #12-14 X 3 L' SDS (ESR-2196 OR EQ) WITH NEOPRENE WASHERS.
- 6. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL (FY = 50 KSI, FU = 65 KSI).
- 7. STRUCTURAL TUBE 2 1/2" X 2 1/2" 14GA. IS EQUIVALENT TO TS 2 V_4 " X 2 V_4 " - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER
- 8. GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT ACCOUNTED FOR IN THE DESIGN CRITERIA.
- 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: FBC 2023 (IBC 2021) USE GROUP: U (CARPORTS, BARNS) RISK CATEGORY:

- ROOF DEAD LOAD (D) D = 4 PSF ROOF LIVE/SNOW LOAD (Lr)
 - Lr = 20 61 PSF
 - (AS PER SNOW LOAD SEE TABLE 4) SNOW LOAD (S)
 - GROUND SNOW LOAD Pg = 20 90 PSF IMPORTANCE FACTOR Is = 0.8 THERMAL FACTOR Ct = 1.2EXPOSURE FACTOR Ce = 1.0 ROOF SLOPE FACTOR Cs = 1.0
- WIND LOAD (W) BASIC WIND SPEED V_{ULT} = 105 - 180 MPH **EXPOSURE**
- SEISMIC LOAD (E) DESIGN CATEGORY D IMPORTANCE FACTOR le = 1.00

LOAD COMBINATIONS:

D + (Lr OR S)

BASIC WIND SPEED:

- D + (0.6W OR ±0.7E)
- 3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
- $O.6D + (O.6W OR \pm 0.7E)$

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VALID FOR ONE YEAR FROM DATE OF ISSUE

MANUFACTURED BY:



Garages, Metal buildings, Barns, Carports, **RV** Covers, & Storage units.

ENGINEERED BY:



A&A ENGINEERING CIVIL • STRUCTURAL

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

DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

COVER SHEET

1 / 11 SHEET NO .:

DRAWN BY: A.W.

CHECKED BY: OAA

DATE: 1/26/22 DATE: 1/26/22

LEGAL INFORMATION

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STAMP EXPIRY: 02-28-2025 DATE SIGNED: 12-27-2023

CUSTOMER INFORMATION	DESIGN LOADS	BUILDING	INFORMATIO	N	CERTIFICATION VALIDITY
			FDAME TVDF	☐ A-FRAME	NOTICE
-	GROUND SNOW:	WIDTH:	FRAME TYPE:	☐ REGULAR	DATE OF PLANS 12-27-2024
	ROOF LIVE LOAD:	LENGTH:		☐ FULL	EXPIRATION:
	100. 11.1 10/13.		ENCLOSURE	☐ PARTIAL	CERTIFICATION ON THESE DRAWINGS IS

HEIGHT:

TYPE:

☐ OPEN

TABLE 21. MEMBER PROPERTIES

	I ADLE 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
9А	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

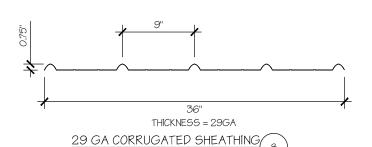
LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4½" C/C	9" C/C

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

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

TABLE 23. GALIGE THICKNESS

17022 2:0: 07002 1710111200										
GAUGE	29	18	14	12						
THICKNESS (IN)	0.0135	0.049	0.083	0.109						





THICKNESS = 14GA





THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE,



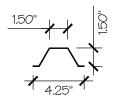
THICKNESS = 14GA 2" X 2" 14GA TUBE

SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL



THICKNESS = 14GA / 18GA 4.25" X 1.5" X 14GA / 18GA HAT CHANNEL SCALE: NTS



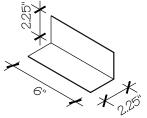
THICKNESS = 14GA

STRAIGHT BRACKET SCALE: NTS



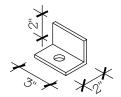
THICKNESS = 14GA

ANGLE BRACKET SCALE: NTS



THICKNESS = 14GA DB BRACKET

SCALE: NTS



THICKNESS = 3/16'

BASE ANGLE SCALE: NTS

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DRAWING INFORMATION

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PROJECT NO.: 711-23-3491

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

2 / 11 SHEET NO .:

DRAWN BY: A.W.

DATE: 1/26/22

CHECKED BY: OAA

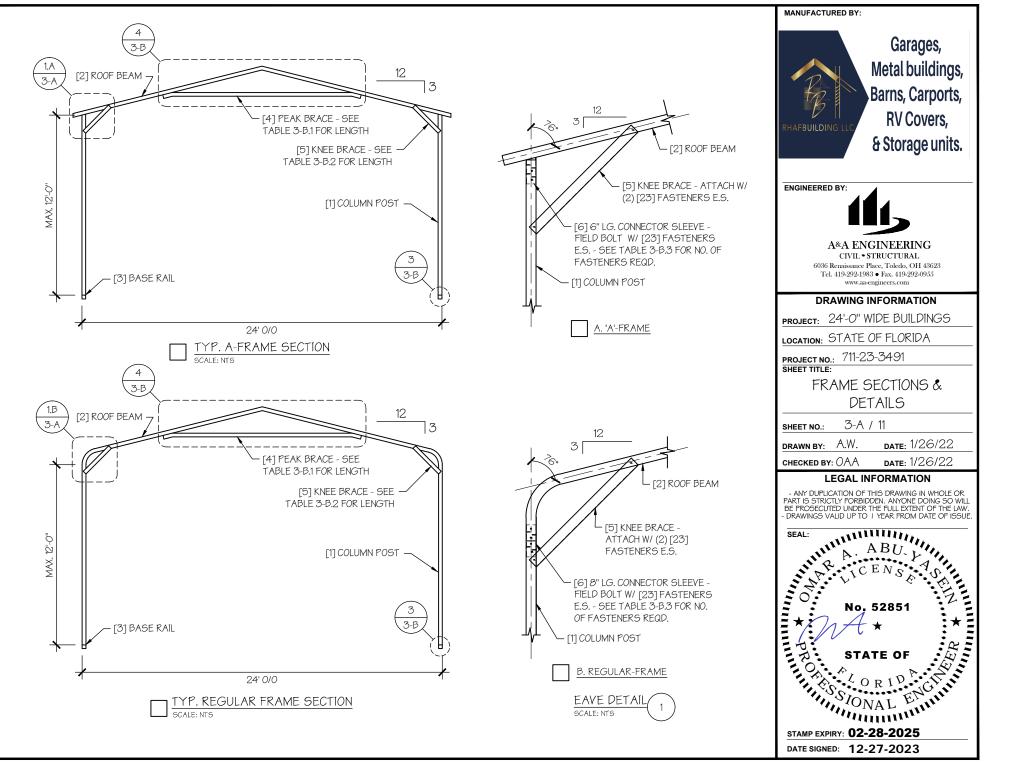
DATE: 1/26/22

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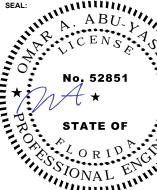
FRAME SECTIONS & **DETAILS**

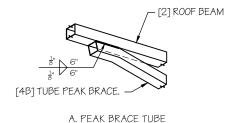
DATE: 1/26/22

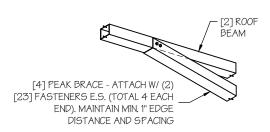
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B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS,

TABLE 3-B.1: PEAK BRACE SCHEDULE

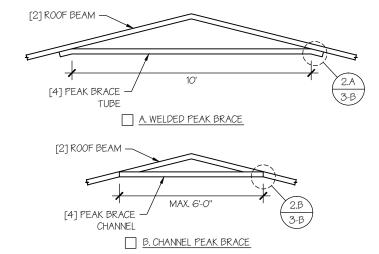
GROUND SNOW / ROOF	WIND SPEED					
LIVE LOAD (PSF)	□105 T0 130	□140 TO 180				
□ 30 / 20	6'	10'				
□ 35 / 25 TO 90 / 61	10'	10'				

TABLE 3-B.2: KNEE BRACE SCHEDULE

EAVE HEIGHT	KNEE BRACE LENGTH
□UP TO 8'	24"
□ 9' TO 12'	36"

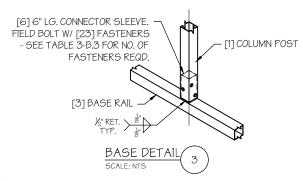
TABLE 3-B.3 FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
□ 105 T0 125	4
□ 130 T0 155	6
□160 TO 180	8



PEAK BRACE DETAILS

SCALE: NTS



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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PROJECT NO.: 711-23-3491

SHEET TITLE:

FRAME DETAILS

3-B / 11 SHEET NO .:

A.W. DRAWN BY:

DATE: 1/26/22

CHECKED BY: OAA

DATE: 1/26/22

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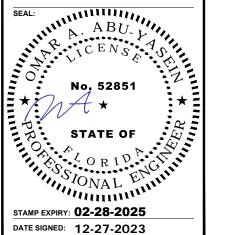


TABLE 4: FRAME SPACING CHART / SCHEDULE

	GROUND SNOW /			■ ENCLO							■ OPE	EN BUILDIN	VGS		
	ROOF LIVE			WIND	SPEED (N	MPH)					WIND	SPEED (N	MPH)		
	LOAD (PSF)	□105	□ 115	□130	□140	□ 155	□165	□180	□105	□ 115	□13 0	□140	□ 155	□165	□180
	30/20	60	60	54/60	54	42	42	36	48	48	48	42	36	30	24
_ <u>_</u> _	□ 40 / 27	48/60	48/60	42/60	42/54	42	42	36	42	42	42	42	36	30	24
등 등	□50/34	40/48	40/48	40/48	40/48	40/42	40/42	36	30	30	30	30	30	30	24
HEIGHT = TO 12'-0"	□ 60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	24
EAVE 10'-0"	□ 70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
₽ E	□ <i>8</i> 0 / 54	24	24	24	24	24	24	24	24	24	18	18	18	18	18
	90 / 61							1							
	□30/20	60	60	54/60	54	48	42/48	42	54	54	48/54	42/54	36/48	36	30
<i>⊢</i>	□ 40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	42	42	42	42	36/42	36	30
HEIGHT = TO 9'-0"	□50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	36	36	36	36	36	36	30
田田	□ 60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	30
何ゆ	□ 70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
EAVE 7'-O"	□ <i>8</i> 0 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	<u> 90 / 61</u>							, ,							
	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
. HEIGHT TO 6'-0"	□ 60 / 41	36	36	36	36	36	36	36	36	36	36	36	36	36	30
一百百	□ 70 <i>l</i> 47	30	30	30	30	30	30	30	30	30	30	30	30	30	30
EAVE UP 1	□80/54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	□ 90 / 61														
NOTEG					•	•	•					•	•		

NOTES:

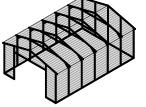
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
- 2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
- 3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF), WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
- 4. FOR VALUES THAT LIE BETWEEN TWO CELLS,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

ENCLOSURE CLASSIFICATION:

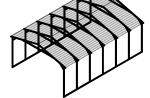
- 1. <u>ENCLOSED BUILDING</u> = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- 2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
- 3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN 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.
- FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.

GENERAL NOTES:

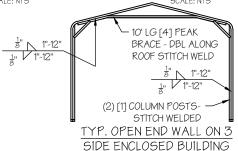
- 1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-O". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
- 2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON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







TYP. OPEN BUILDING



SCALE: NTS

MANUFACTURED BY:



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SHEET TITLE:

SPACING SCHEDULES & ENCLOSURE NOTES

SHEET NO.: 4 / 11

DRAWN BY: A.W.

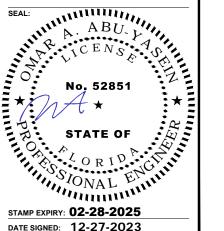
date: 1/26/22

снескед ву: ОАА

date: 1/26/22

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DATE SIGNED

TABLE 5.1: PURLIN SPACING SCHEDULE

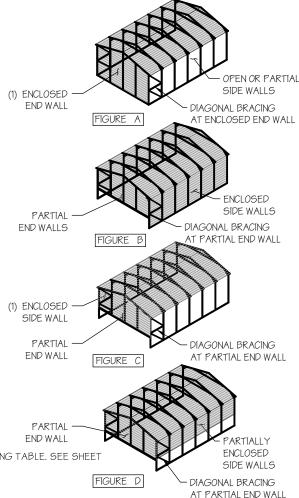
	GROUND SNOW /		14GA	HAT	CHAI	NNEL	PURL	JN		18GA	HAT	CHA	NNEL	PURL	IN
	ROOF LIVE		٧	VIND S	PEED	(MPH	1)			٧	/IND S	PEED	(MPH	1)	
	LOAD (PSF)	105	115	130	140	П 155	□ 165	 180	105	115	130	140	_ 155	□ 165	180
ii.	□ 30 / 20	54	48	42	36	30	24	24	36	30	24	18	18	12	12
ACING:	40 / 27	42	42	42	36	30	24	24	30	30	24	18	18	12	12
Y =	□ 50 / 34	40	40	40	36	30	24	24	24	24	24	18	18	12	12
: SP, 5-0-13	□ 60 / 41	36	36	36	36	30	24	24	18	18	18	18	18	12	12
FRAME	□ 70 / 47	32	32	32	32	30	24	24	18	18	18	18	18	12	12
₩ W	□ <i>8</i> 0 / 54	30	30	30	30	30	24	24	18	18	18	18	18	12	12
ш_	<u> </u>	24	24	24	24	24	24	24	12	12	12	12	12	12	12
<i>ii</i> .	□ 30 / 20	54	48	42	42	36	30	30	48	36	30	24	18	18	12
ACING:	40 / 27	42	42	42	42	36	30	30	42	36	30	24	18	18	12
A ==	□ 50 / 34	40	40	40	40	36	30	30	30	30	30	24	18	18	12
1.5P.	60 / 41	36	36	36	36	36	30	30	30	30	30	24	18	18	12
\mathbb{Z}_{1}	□ 70 / 47	32	32	32	32	32	30	30	24	24	24	24	18	18	12
FRAME	□ <i>8</i> 0 / 54	32	32	32	32	32	30	30	18	18	18	18	18	18	12
Ψ_	<u> </u>	30	30	30	30	30	30	30	18	18	18	18	18	18	12
Ü.	□ 30 / 20	54	48	42	42	36	36	30	54	48	36	30	24	24	18
ACING:	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
1.5P.	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	30	24	24	18
FRAME	□ 70 / 4 7	32	32	32	32	32	32	30	30	30	30	30	24	24	18
Ř	□ <i>8</i> 0 / 54	32	32	32	32	32	32	30	24	24	24	24	24	24	18
ш_	<u> </u>	30	30	30	30	30	30	30	24	24	24	24	24	24	18
ii.	□ 30 / 20	54	48	42	42	36	36	30	54	48	42	42	36	30	30
Ž	40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	30	30
SPACING:	□ 50 / 34	40	40	40	40	36	36	30	40	40	40	40	36	30	30
	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	30	30
FRAME	□ 70 / 4 7	32	32	32	32	32	32	30	32	32	32	32	32	30	30
Ϋ́	□ <i>8</i> 0 / 54	32	32	32	32	32	32	30	32	32	32	32	32	30	30
<u> </u>	<u> </u>	30	30	30	30	30	30	30	30	30	30	30	30	30	30
(ii ~	□ 30 / 20	54	48	42	42	36	36	30	54	48	42	42	36	36	30
ACING: OWER	□ 40 <i>l</i> 27	42	42	42	42	36	36	30	42	42	42	42	36	36	30
Z &	□ 50 / 34	40	40	40	40	36	36	30	40	40	40	40	36	36	30
ESP, ORL	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	36	30
AME -O"O	□ 70 / 47	32	32	32	32	32	32	30	32	32	32	32	32	32	30
Ά. Α. Δ.	□ <i>80 </i> 54	32	32	32	32	32	32	30	32	32	32	32	32	32	30
ш =	90 / 61	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Γ	Α	B	ΙF	5	2.	GIRT	SP	ACIN	G	50	HFD	Ш	F
Ι.	/ ۱	いノ	I_I_		/	COINT		/ \L > \			1 11 12		1 .

FRAME		WIND SPEED (MPH)										
SPACING	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'-O"	60	60	54	54	42	36	30					
□3'-6"	60	60	54	54	48	42	42					
□2'-0' T0 3'-0"	60	60	54	54	48	42	42					

NOTES:

- GIRT SPACING UNITS ARE IN INCHES.
- THIS SCHEDULE IS TO BE USED FOR BOTH 14GA AND 18 GA PURLINS.
- FROM TABLE 4.



- 3. FRAME SPACING NEEDS TO BE DETERMINED

Tel. 419-292-1983 • Fax. 419-292-0955 www.aa-engineers.com DRAWING INFORMATION

A&A ENGINEERING CIVIL • STRUCTURAL 6036 Renaissance Place, Toledo, OH 43623

Garages, Metal buildings, Barns, Carports, **RV** Covers, & Storage units.

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

MANUFACTURED BY:

ENGINEERED BY

PURLIN & GIRT SPACING SCHEDULES

5 / 11 SHEET NO .:

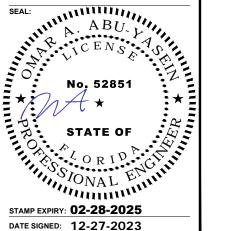
DRAWN BY: A.W.

CHECKED BY: OAA DATE: 1/26/22

LEGAL INFORMATION

DATE: 1/26/22

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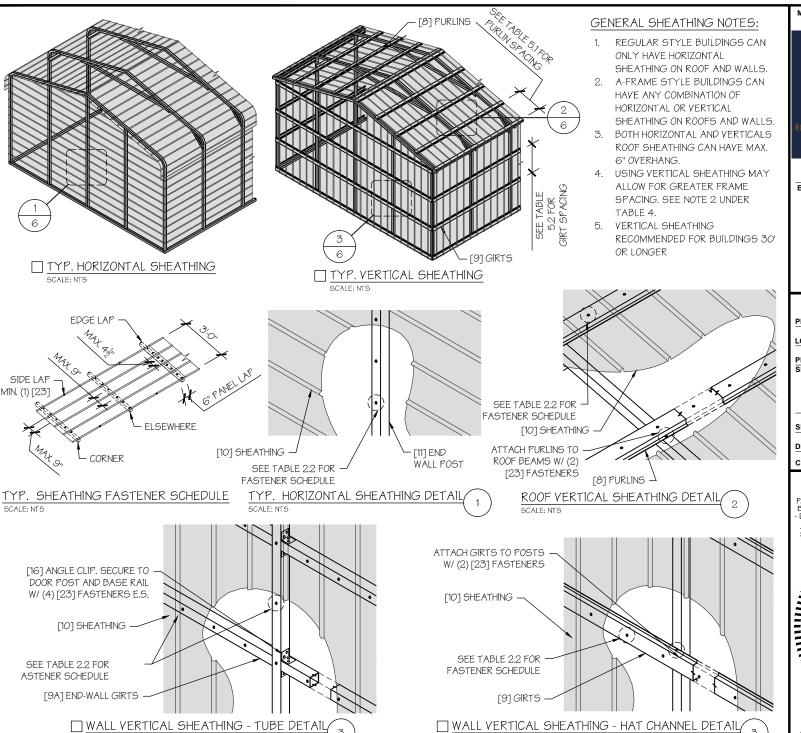
DATE SIGNED: 12-27-2023

NOTES: PURLIN SPACING UNITS ARE IN INCHES.

FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

IRREGULAR BUILDING NOTES:

- 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.
- SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
- IRREGULAR BUILDING & BUILDINGS W/ MORE THAN 2 SIDE OPENINGS MUST HAVE A 10' TUBE PEAK BRACE ON ALL FRAMES.



SCALE: NTS

MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

SHEATHING OPTIONS & DETAILS

SHEET NO.:

6 / 11

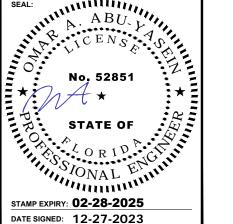
A.W. DRAWN BY:

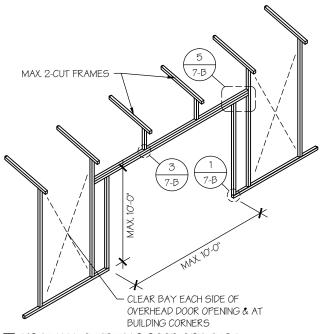
CHECKED BY: OAA

DATE: 1/26/22 DATE: 1/26/22

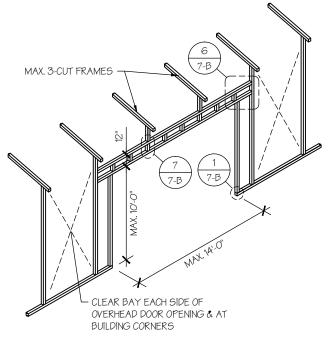
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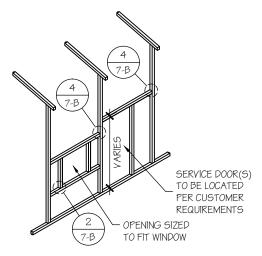




7 SIDE WALL OVERHEAD DOOR OPENINGS



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.
- 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.
- 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
- 6. MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
- SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.

MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

SIDE WALL FRAMING & OPENINGS

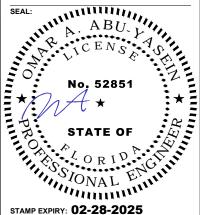
7-A / 11 SHEET NO .:

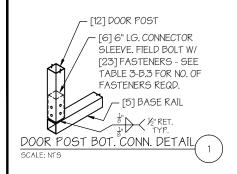
DATE: 1/26/22 A.W. DRAWN BY:

CHECKED BY: OAA DATE: 1/26/22

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[15] ANGLE CLIP. SECURE

SERVICE DOOR / WINDOW

[15] SERVICE DOOR /

WINDOW FRAMING

FRAMING CONN. DETAIL

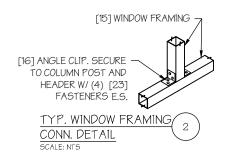
SCALE: NTS

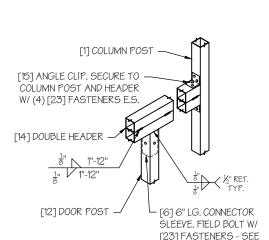
[1] COLUMN POST

TYP. SERVICE DOOR / WINDOW,

TO COLUMN POST AND

FRAMING W/ (4) [23] FASTENERS E.S.





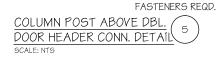
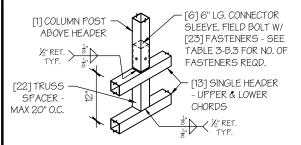
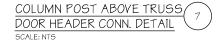
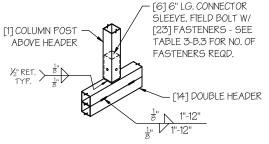


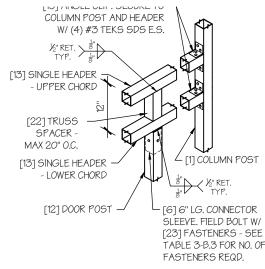
TABLE 3-B.3 FOR NO. OF







COLUMN POST ABOVE DBL DOOR HEADER CONN. DETAI SCALE: NTS



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

MANUFACTURED BY:



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LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

SIDE WALL FRAMING DETAILS

7-B / 11 SHEET NO.:

A.W. DRAWN BY:

DATE: 1/26/22

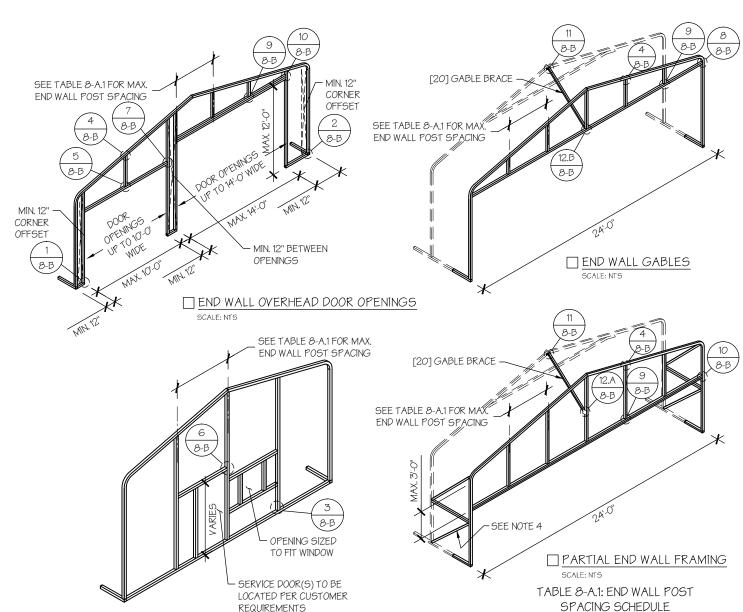
CHECKED BY: OAA

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PEND WALL SERVICE DOOR AND WINDOW OPENINGS SCALE: NTS

WIND SPEED

(MPH)

105

115

130

140

155

□ 165 - 180

EAVE HEIGHT

■ 8' TO 9'

5'

5'

4.5'

4.5

4'

3'

■10' T0 12

4.5'

4'

3'

2.5'

2'

■ UP TO 7'

5'

5'

4.5'

4.5

4'

3.5

END WALL FRAMING NOTES:

- 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.
- SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
- DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

END WALL FRAMING

8-A / 11 SHEET NO.:

DATE: 1/26/22 A.W. DRAWN BY:

CHECKED BY: OAA

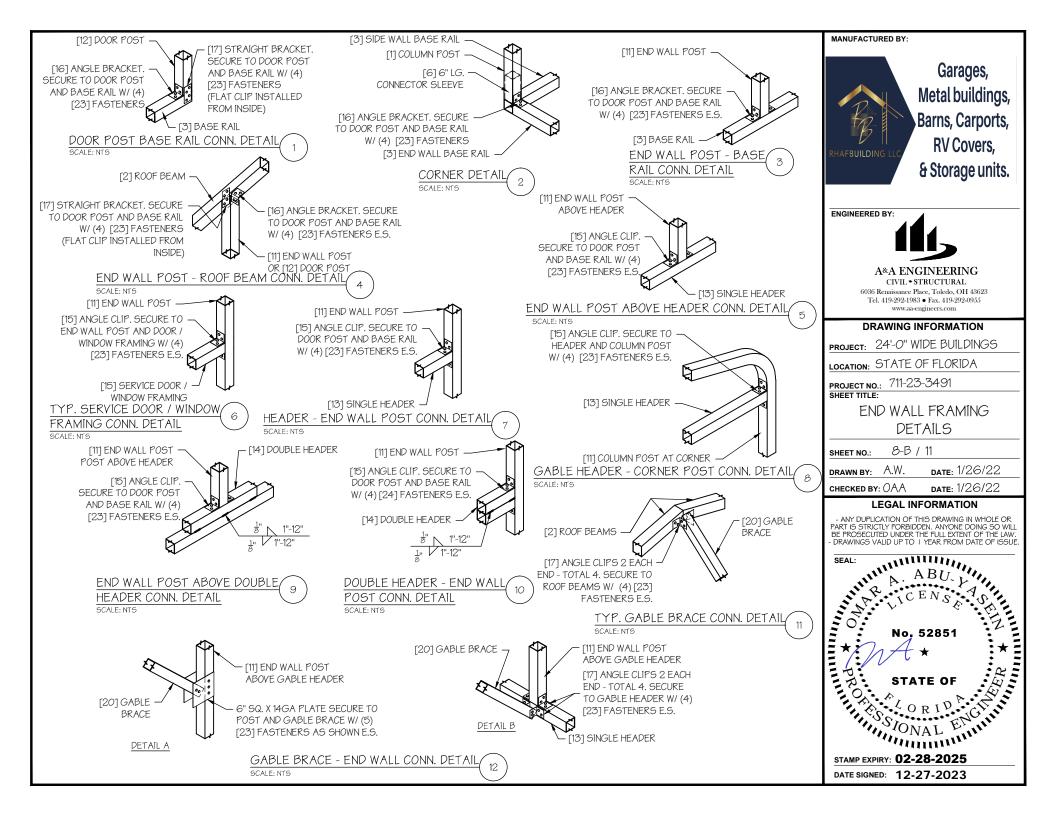
DATE: 1/26/22

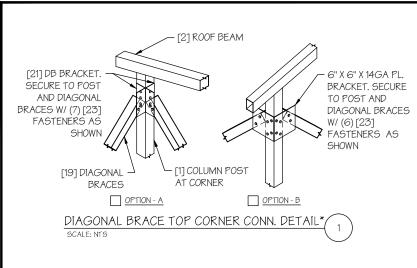
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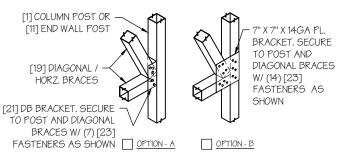
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STAMP EXPIRY: 02-28-2025







7" X 7" X 14GA PL.

BRACKET. SECURE TO POST AND DIAGONAL

BRACES W/ (14) [23]

OPTION - B

FASTENERS AS SHOWN



[1] COLUMN POST

BRACES W/ (7) [23] FASTENERS AS SHOWN

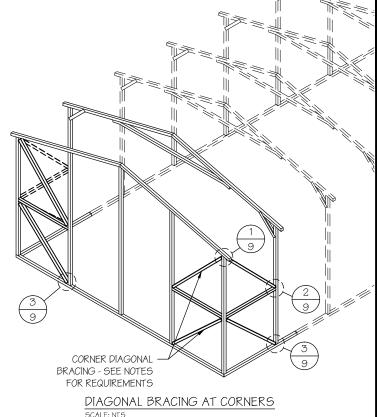
[3] BASE RAIL

[21] DB BRACKET. SECURE

TO POST AND DIAGONAL

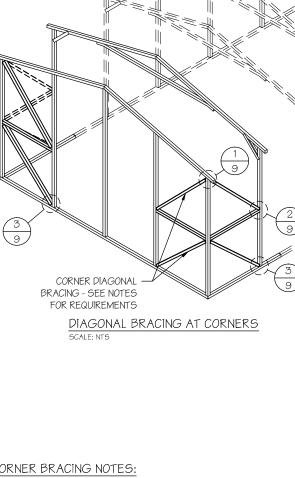
[19] DIAGONAL BRACES

SCALE: NTS



CORNER BRACING NOTES:

- 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.



DIAGONAL BRACING AT BUILDING CORNERS IS REQUIRED FOR ALL





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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

CORNER BRACING **DETAILS**

9 / 11 SHEET NO.:

A.W. DRAWN BY:

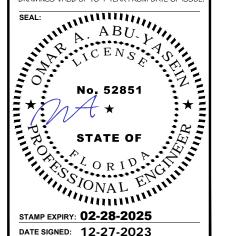
DATE: 1/26/22

CHECKED BY: OAA

DATE: 1/26/22

LEGAL INFORMATION

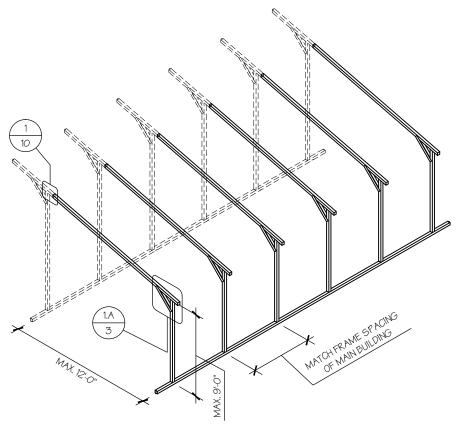
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* INSIDE VIEW SHOWN FOR CLARITY

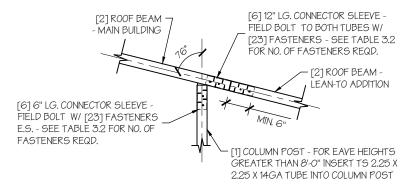
DIAGONAL BRACE BOT. CORNER CONN. DETAIL

OPTION - A



OPTIONAL LEAN-TO ADDITION

SCALE: NTS



LEAN-TO ATTACHMENT DETAIL

SCALE: NTS

LEAN-TO ADDITION NOTES:

- 1. LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
- ROOF SLOPE, PURLIN, GIRT AND FRAME SPACING OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
- 3. IF THE LEAN-TO ADDITION IS "OPEN "(BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF AN OPEN BUILDING FROM TABLE 4.

MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

OPTIONAL LEAN-TO **ADDITION**

10 / 11 SHEET NO .:

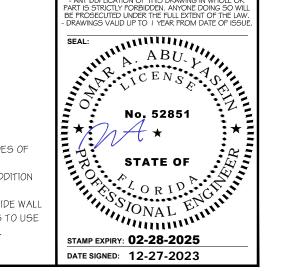
A.W. DRAWN BY:

CHECKED BY: OAA

DATE: 1/26/22 DATE: 1/26/22

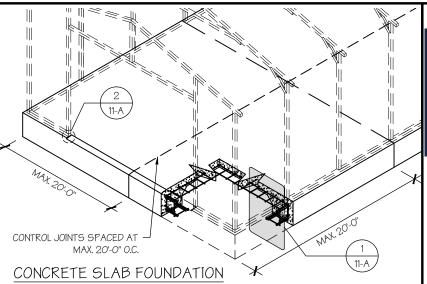
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CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 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. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4"
- 4. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
- 5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 53" FOR 14GA MATERIAL AND 53" FOR 12GA MATERIAL.
- 6. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



SCALE: NTS

2" WIDE X 1" DEEP NOTCH ALONG NOVERHEAD DOOR AND SLOPE TO 2" OVERHEAD DOOR NOTCH DETAI SCALE: NTS

TABLE 11-A.1: NOTCH WIDTH

	HORIZONTAL/OPEN		VERTICAL	
[□14GA	□ 12GA	□ 14GA	□ 12GA
	2 3/4"	2 7/8"	13/4"	17/8"

NOTE: DEPTH IS TO BE 11/2"

ANCHOR - SEE TABLE 11-A.2

W6X6-6/6 WELDED

WIRE OR #4 @ 24" E.W., OR FIBER MESH

AS RECOMMENDED BY MANUFACTURER

(3) #4 REBAR CONT.

MIN. 4" THK.

ICRETE SLAB

[1] COLUMN POST

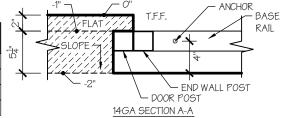
TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

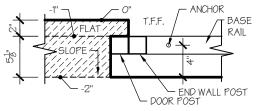
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER	
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"	
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"	
OPEN	□105 T0 135	(1) 1/2"Ø X 7"	
OFEN	□136 TO 180	(2) 1/2"Ø X 7"	

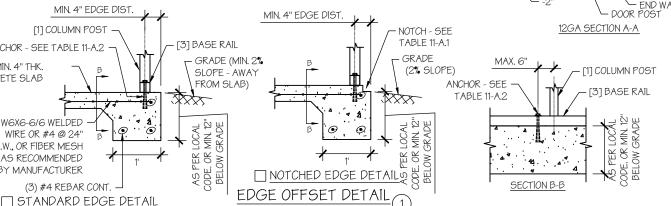
NOTES:

SCALE: NTS

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE 23"
- ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.







MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

FOUNDATION OPTION 1: CONCRETE SLAB

11-A / 11 SHEET NO.:

A.W. DATE: 1/26/22 DRAWN BY:

CHECKED BY: OAA

DATE: 1/26/22

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CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB 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.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" > SPACING
- 4. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A 1
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS ½" FOR 14GA MATERIAL AND 1" FOR 12GA MATERIAL.
- 6. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- 7. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- 8. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- 9. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

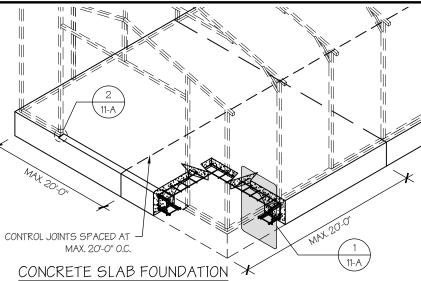


TABLE 11-A.1: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 T0 135	(1) 1/2"Ø X 7"
OF EIN	□136 TO 180	(2) 1/2"Ø X 7"

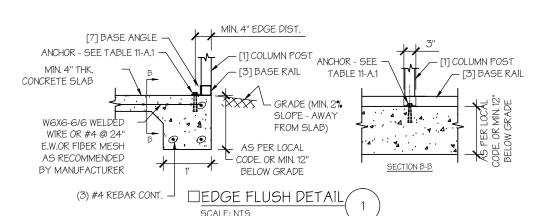
NOTES:

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

BUILDING POST BEYOND A 2" WIDE X 1" DEEP NOTCH ALONG OVERHEAD DOOR AND SLOPE TO 2" END WALL POST ANCHOR ANCHOR ANCHOR T.F.F. BASE RAIL T. FLAT T.

OVERHEAD DOOR NOTCH DETAIL

SCALE: NTS



SCALE: NTS

DOOR POST

SECTION A-A

MANUFACTURED BY:



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LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

FOUNDATION OPTION 1: CONCRETE SLAB

SHEET NO.: 11-A / 11

311221 NO.: 117 17 11

DRAWN BY: A.W. DATE: 1/26/22

CHECKED BY: OAA

date: 1/26/22

LEGAL INFORMATION

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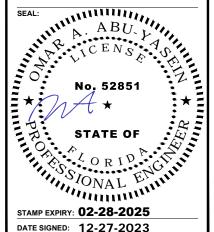


TABLE 11-B.1: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 T0 135	(1) 1/2"Ø X 7"
OFEN	□136 TO 180	(2) 1/2"Ø X 7"

NOTES:

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- 2. MIN. EMBEDMENT DEPTH TO BE $2\frac{7}{8}$ ".
- 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 T0 155	24" X 12"
□165 TO 180	30" X 12" 24 X 15" 20" X 18"

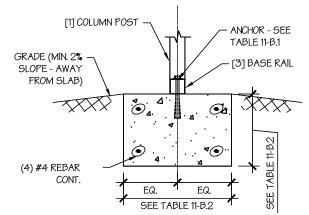
NOTES:

WIDTH AND DEPTH DIMENSIONS CAN
BE INTERCHANGED.

CONCRETE STRIP FOUNDATION FOOTING OPTIONAL AT OPEN END WALLS AND OVERHEAD SCALE: NTS DOOR OPENINGS 11-B

CONCRETE STRIP FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 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.
- 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.
- 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

MANUFACTURED BY:



Garages, Metal buildings, Barns, Carports, RV Covers, & Storage units.

ENGINEERED BY



A&A ENGINEERING CIVIL • STRUCTURAL

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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

FOUNDATION OPTION 2: CONCRETE STRIP

SHEET NO.: 11-B / 11

DRAWN BY: A.W.

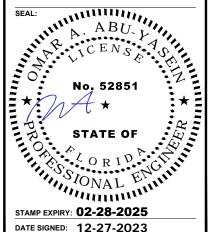
NATIO I. 7 WITE

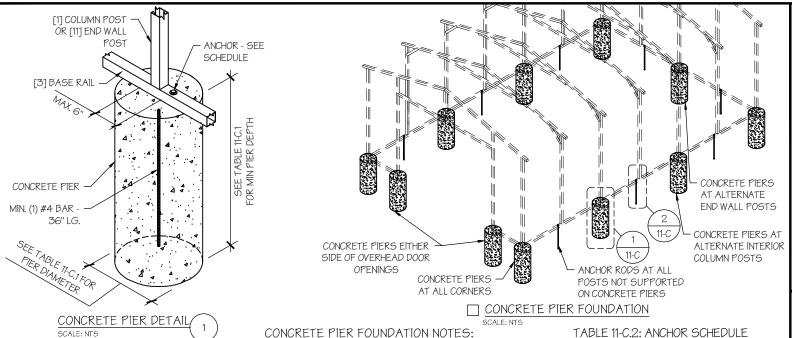
DATE: 1/26/22

CHECKED BY: 0AA DATE: 1/26/22

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- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE PIER FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 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.
- 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.
- 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.
- 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.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLOSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 T0 135	(1) 1/2"Ø X 7"
OF EN	□136 TO 180	(2) 1/2"Ø X 7"

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- 2. MIN. EMBEDMENT DEPTH TO BE 2\(\frac{7}{6}\)".
- ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

MANUFACTURED BY:



Garages, Metal buildings, Barns, Carports, **RV** Covers, & Storage units.

ENGINEERED BY:



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DRAWING INFORMATION

PROJECT: 24'-O" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

FOUNDATION OPTION 3: CONCRETE PIERS

11-C / 11 SHEET NO.:

A.W. DATE: 1/26/22 DRAWN BY:

CHECKED BY: OAA

LEGAL INFORMATION

DATE: 1/26/22

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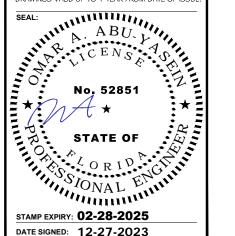


TABLE 11-C.1: CONC. PIER SCHEDULE

ANCHOR ROD INTO SOIL DETAIL

[1] COLUMN POST

OR [11] END WALL

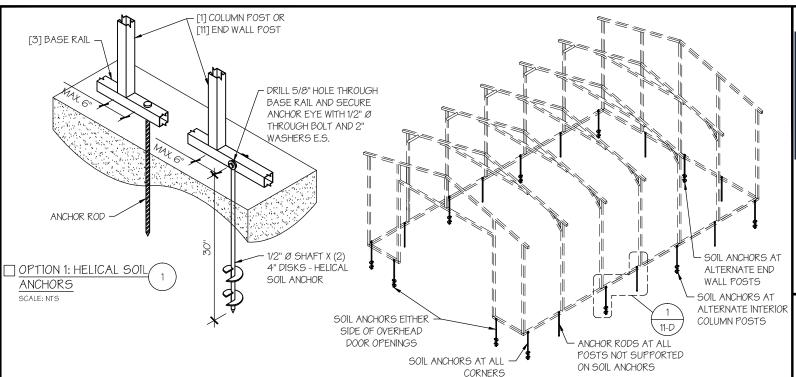
[3] BASE RAIL

SCALE: NTS

POST

ANCHOR ROD

WIND SPEED (MPH)	MIN. SIZE REQD.
□105 T0 130	24"Ø X 36"
□140 T0 155	24"Ø X 42"
□165 TO 180	24"Ø X 48"



SOIL FOUNDATION NOTES:

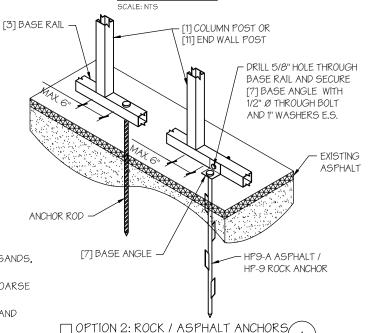
- 1. DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
- SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4
 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH
 DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN
 POSTS AND END WALLS POSTS.
- 3. HELICAL 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"



SCALE: NTS

SOIL FOUNDATION

MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 711-23-3491

SHEET TITLE:

FOUNDATION OPTION 4: SOIL ANCHORS

SHEET NO.:

11-D / 11

DRAWN BY:

A.W. DATE: 1/26/22

CHECKED BY: $\bigcirc \land \land$

OAA **date**: 1/26/22

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