

REGULAR / A-FRAME 30'-0" WIDE

CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, OSMA, AISI C360, AISI 100, ASCE 7-16, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12XT SD6 (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA, CORRUGATED GALV, OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=50KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE T52 1/2"X2 1/2" - 14GA, IS EQUIVALENT TO T52 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

PREVAILING CODE:

USE GROUP:

RISK CATEGORY:

1. DEAD LOAD (D)

2. ROOF LIVE/SNOW LOAD (L_r)

3. SNOW LOAD (S)

4. WIND LOAD (W)

5. BASIC WIND SPEED

6. SEISMIC LOAD (E)

7. DESIGN CATEGORY

8. IMPORTANCE FACTOR

9. LOAD COMBINATIONS:

1. D + (L_r OR S)

2. D + (0.6W OR ±0.7E)

3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (L_r OR S)

4. 0.6D + (0.6W OR ±0.7E)

DRAWING INDEX

COVER SHEET

SCHEDULES & MEMBER -

SECTIONS

FRAME SECTIONS & DETAILS

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END WALL FRAMING

OPENINGS

CORNER BRACING DETAILS

OPTIONAL LEAN-TO ADDITION

FOUNDATION OPTION

8-A, 8-B

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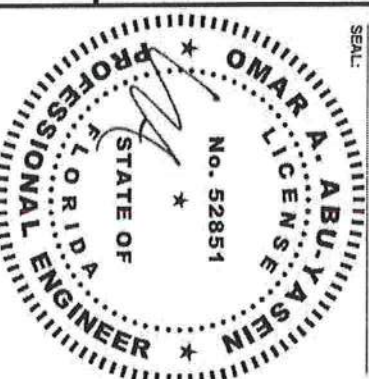
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CERTIFICATION/VALIDITY NOTICE

DATE OF PLANS: JAN 15 2022

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



MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

COVER SHEET

SHEET NO.: 1 / 11

DRAWN BY: A.W. DATE: 1/19/21

CHECKED BY: OAA DATE: 1/19/21

LEGAL INFORMATION

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SEAL:



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DATE SIGNED: JAN 15 2021

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0026

SHEET TITLE:

SCHEDULES &
MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

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TABLE 2.1: MEMBER PROPERTIES

NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE W/ 2.25" X 2.25" X 12GA TUBE INSERT	11
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" X 14GA TUBE	1
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 18GA / 14GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 18GA / 14GA HAT CHANNEL	5
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" X 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	

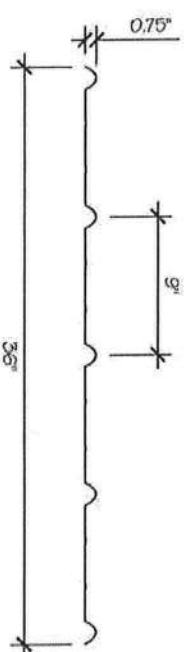
TABLE 2.2: SHEATHING FASTENER SCHEDULE

LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN 1	4 1/2" C/C	9" C/C

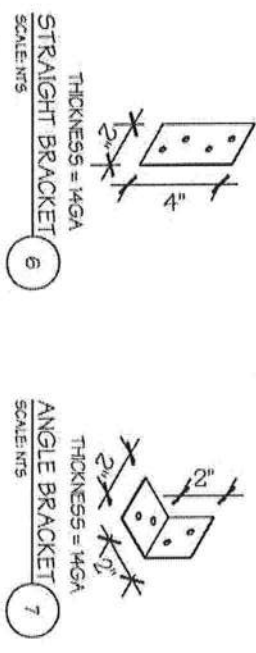
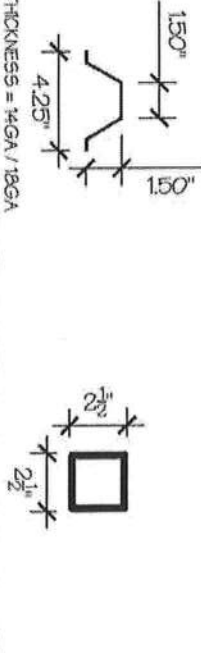
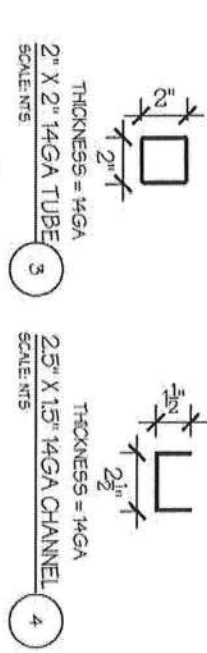
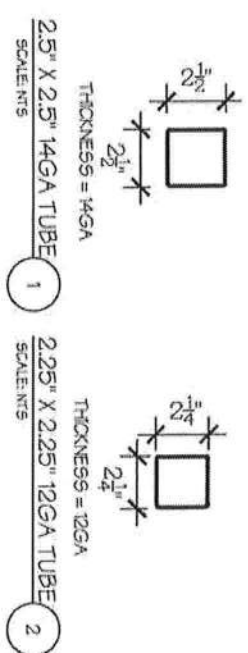
FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER
*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.

TABLE 2.3: GAUGE THICKNESS

GUAGE	29	18	14	12
THICKNESS (IN)	0.0135	0.049	0.063	0.109



29 GA CORRUGATED SHEATHING
SCALE: NTS



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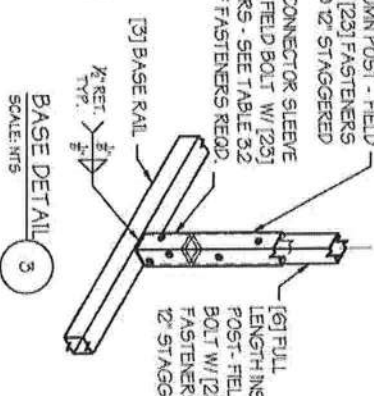
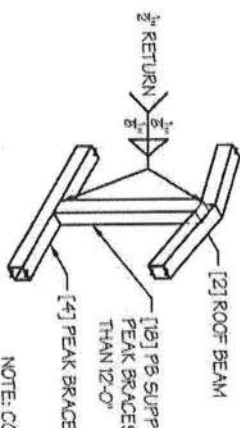
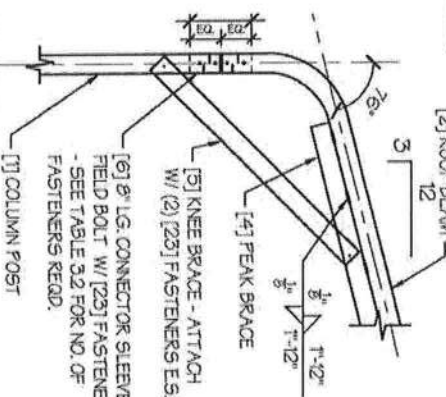
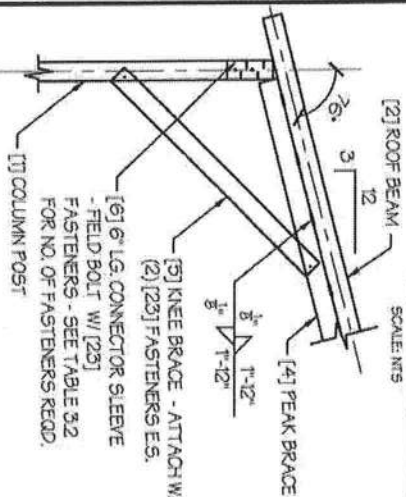
DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-002B
SHEET TITLE: FRAME SECTIONS & DETAILS

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

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EAVE HEIGHT	KNEE BRACE LENGTH
<input type="checkbox"/> UP TO 8'	24"
<input type="checkbox"/> 9' TO 12'	36"

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

PB SUPPORT DETAIL
SCALE: NTS

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

TABLE 4: FRAME SPACING CHART / SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	■ ENCLOSED BUILDINGS										■ OPEN BUILDINGS									
	WIND SPEED (MPH)										WIND SPEED (MPH)									
	105	115	130	140	155	165	180	105	115	130	140	155	165	180						
30 / 20	60	60	54/60	54	48	42/48	36/42	54	48/54	42/48	42	36/42	36	30						
40 / 27	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42	36/42	36	30						
50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	36/42	40/42	40/42	40/42	36	36/42	36	30						
60 / 41	36/42	36/42	36	36	36	36	36	36	36	30	30	30	30	24						
70 / 47	32/36	32/36	32/36	32/36	30	30	30	30	30	30	24	24	24	24						
80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24						
90 / 61	18	18	18	18	---	---	---	18	18	---	---	---	---	---						
30 / 20	60	60	54/60	54	48	42/48	36/42	54	48/54	42/48	42/48	36/42	36/42	30/36						
40 / 27	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42/48	36/42	36/42	30/36						
50 / 34	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	36	36	36	30/36						
60 / 41	36/48	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	30/36						
70 / 47	32/36	32/36	32/36	32/36	30	30	30	30	30	30	30	30	30	24						
80 / 54	30	30	30	30	30	30	30	24	24	24	24	24	24	24						
90 / 61	24	24	24	24	24	24	24	18	18	18	18	18	18	18						
30 / 20	60	60	54/60	54	48	42/48	36/42	54	48/54	42/48	42/48	36/42	36/42	30/36						
40 / 27	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42/48	36/42	36/42	30/36						
50 / 34	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	36	36	36	30/36						
60 / 41	36/48	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	30/36						
70 / 47	32/36	32/36	32/36	32/36	30	30	30	30	30	30	30	30	30	24						
80 / 54	30/36	30/36	30/36	30/36	30	30	30	30	30	30	30	30	30	24						
90 / 61	30/36	30/36	30	30	30	30	30	24	24	24	24	24	24	24						

EAVE HEIGHT =
UP TO 6'-0"EAVE HEIGHT =
7'-0" TO 8'-0"EAVE HEIGHT =
10'-0" TO 12'-0"

NOTES:

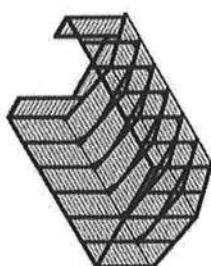
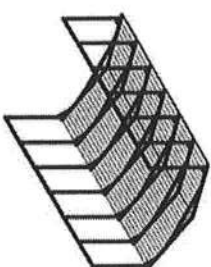
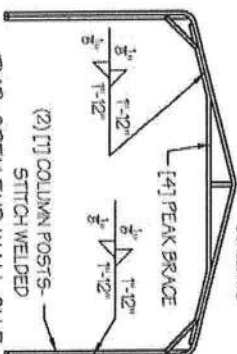
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
- WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
- SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
- FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER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

ENCLOSURE CLASSIFICATION:

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

- 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.
- 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).

TYP. ENCLOSED BUILDING
SCALE: NTSTYP. OPEN BUILDING
SCALE: NTSTYP. OPEN END WALL ON 3
SIDE ENCLOSED BUILDING
SCALE: NTSReal Steel Metal
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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

SPACING SCHEDULES
& ENCLOSURE NOTES

SHEET NO.: 4 / 11

DRAWN BY: A.W. DATE: 1/13/21

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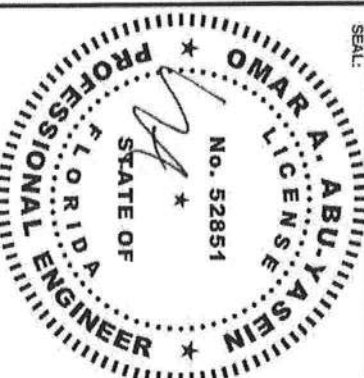
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TABLE 5.1: PURLIN SPACING SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	14GA HAT CHANNEL PURLIN										18GA HAT CHANNEL PURLIN									
	WIND SPEED (MPH)										WIND SPEED (MPH)									
	105	115	130	140	155	165	180				105	115	130	140	155	165	180			
30 / 20	54	48	42	36	30	24	24				36	30	24	18	15	12	12			
40 / 27	42	42	36	30	24	24	24				30	24	18	15	12	12	12			
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90 / 61	24	24	24	24	24	24	24				12	12	12	12	12	12	12			
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70 / 47	32	32	32	32	32	30	30				30	30	30	30	24	24	24			
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70 / 47	32	32	32	32	32	30	30				32	32	32	32	30	30	30			
80 / 54	32	32	32	32	32	30	30				32	32	32	32	30	30	30			
90 / 61	30	30	30	30	30	30	30				30	30	30	30	30	30	30			

- 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.
- 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.

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:

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

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

PURLIN & GIRT
SPACING SCHEDULES

SHEET NO.: 5 / 11

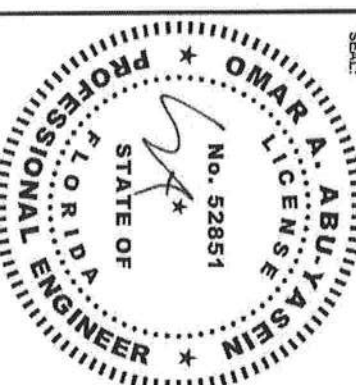
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SEAL:



STAMP EXPIRY: FEB 28 2023
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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

SHEATHING OPTIONS & DETAILS

SHEET NO.: 6 / 11

DRAWN BY: A.W. DATE: 1/13/21

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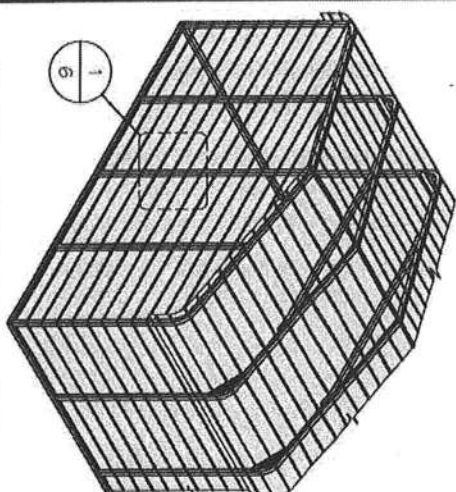
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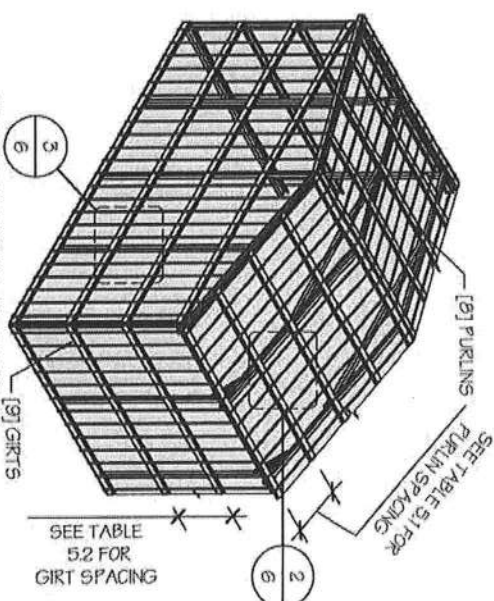
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GENERAL SHEATHING NOTES:

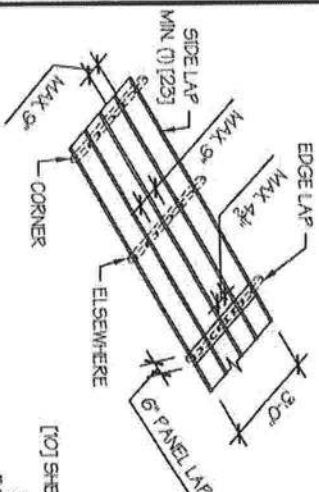
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
2. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER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



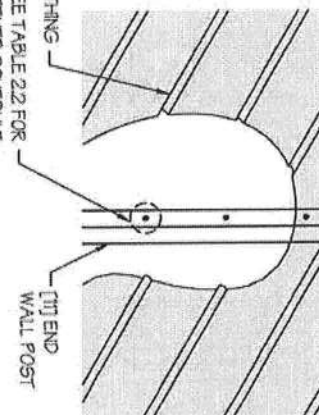
☐ TYP. HORIZONTAL SHEATHING
SCALE: NTS



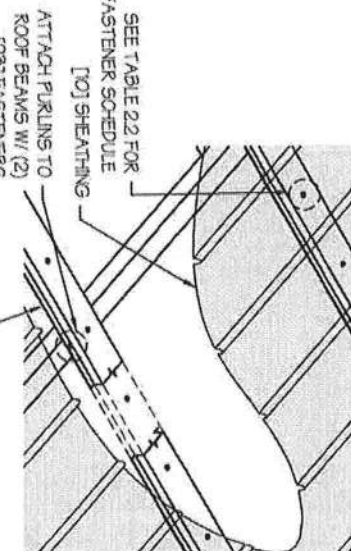
☐ TYP. VERTICAL SHEATHING
SCALE: NTS



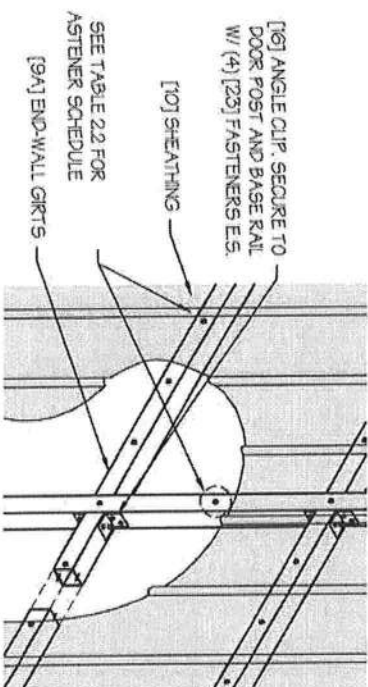
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



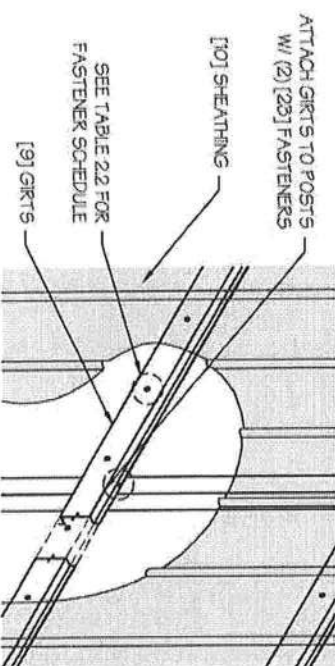
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL 2
SCALE: NTS



☐ WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS



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

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

SIDE WALL FRAMING & OPENINGS

SHEET NO.: 7-A / 11

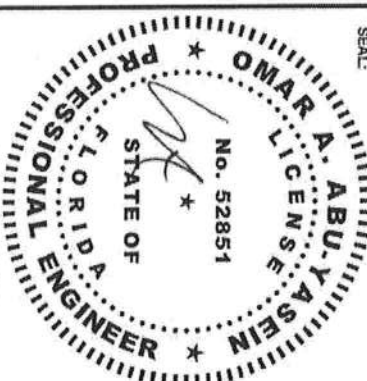
DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

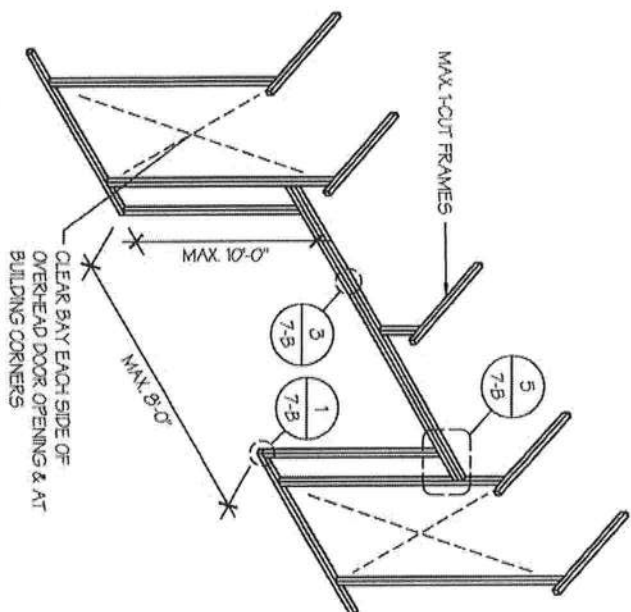
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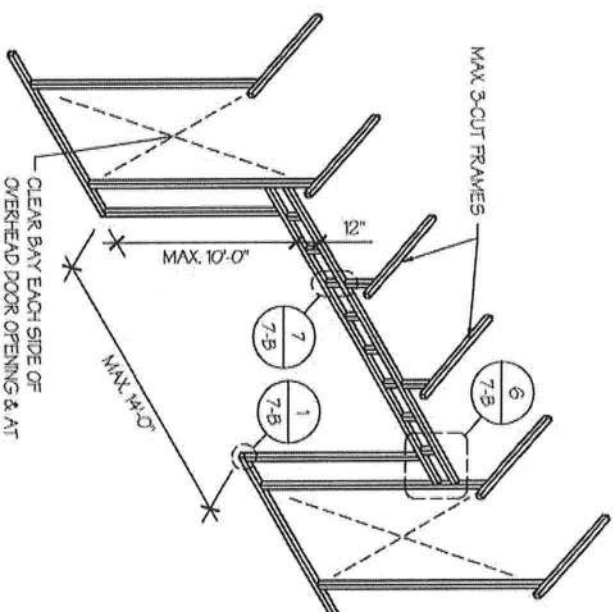


STAMP EXPIRY: FEB 28 2023

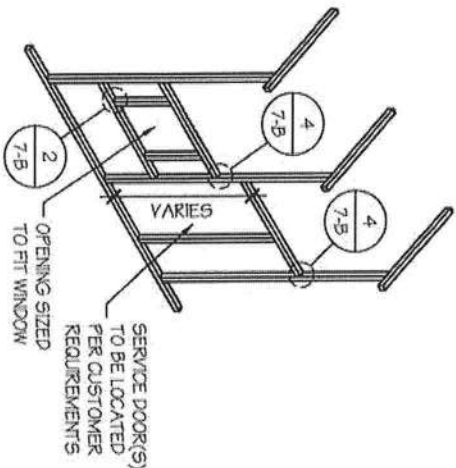
DATE SIGNED: JAN 15 2021



☐ SIDE WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



☐ SIDE WALL OVERHEAD DOOR OPENINGS
WITH TRUSS STYLE HEADER
SCALE: NTS



☐ SIDE WALL SERVICE DOOR / WINDOW OPENINGS
SCALE: NTS

SIDE WALL FRAMING NOTES:

1. TRUSS-STYLE HEADERS ARE REQUIRED FOR WHERE THE GROUND SNOW LOAD IS 40 PSF OR GREATER.
2. DESIGN 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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www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

SIDE WALL FRAMING DETAILS

SHEET NO.: 7-B / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

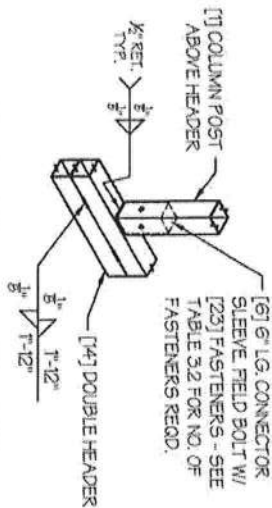
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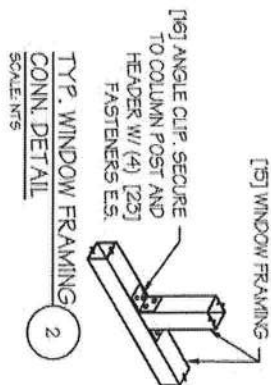


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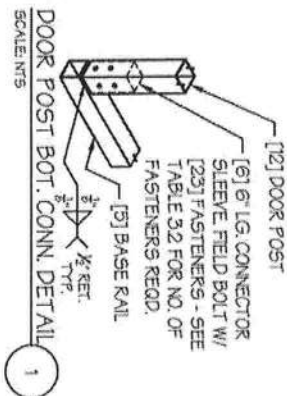
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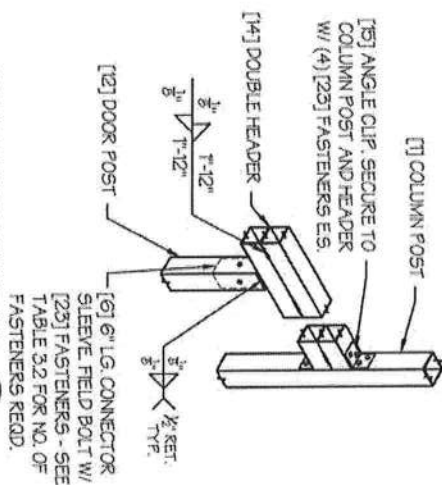
COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL
SCALE: NTS



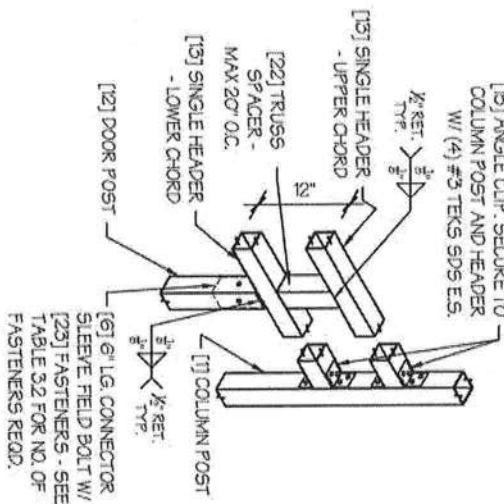
TY.P. WINDOW FRAMING CONN. DETAIL
SCALE: NTS



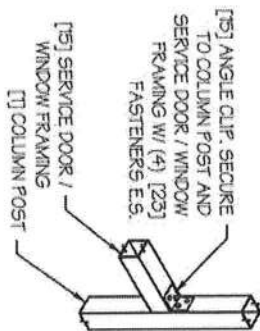
DOOR POST BOT. CONN. DETAIL
SCALE: NTS



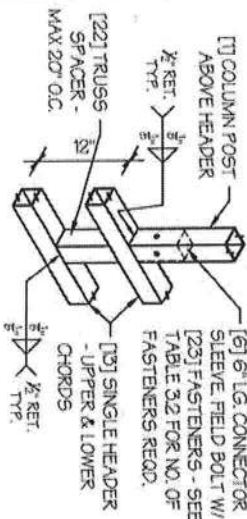
COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL
SCALE: NTS



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



TY.P. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL
SCALE: NTS



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

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ENGINEERED BY:



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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-0028
SHEET TITLE:

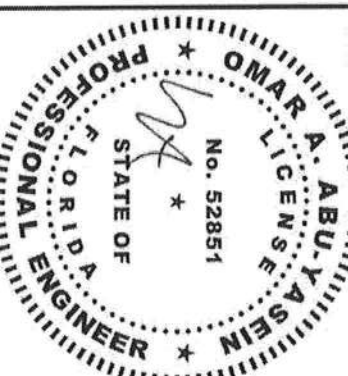
END WALL FRAMING

SHEET NO.: 8-A / 11
DRAWN BY: A.W. DATE: 1/13/21
CHECKED BY: OAA DATE: 1/13/21

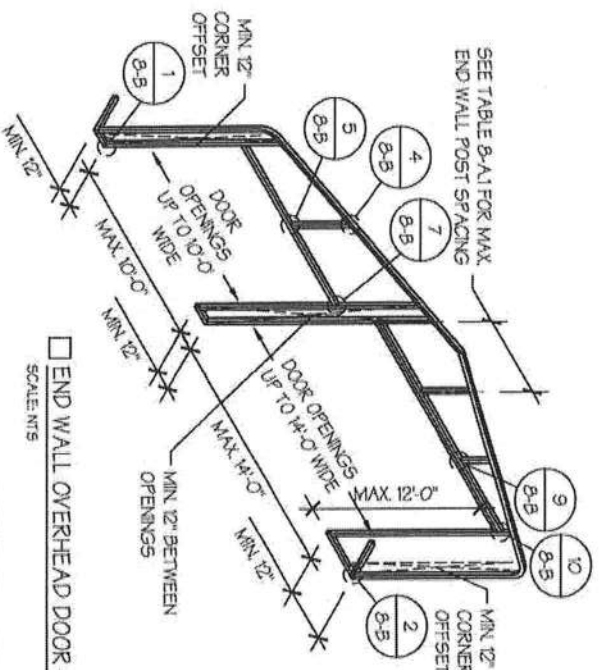
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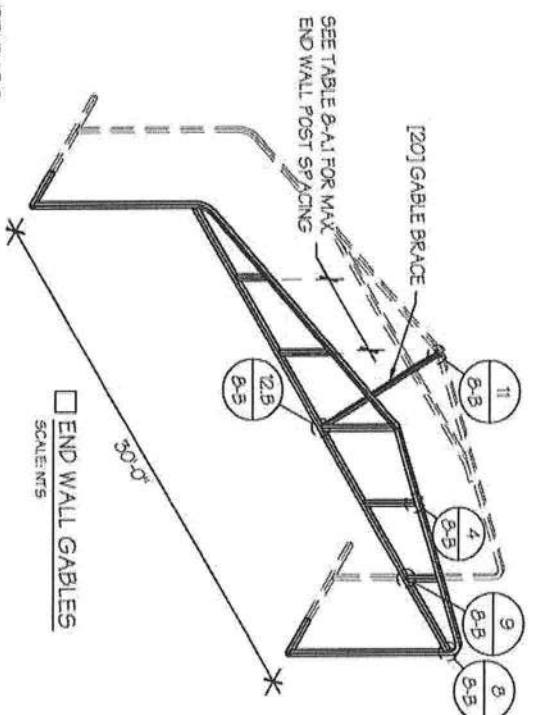
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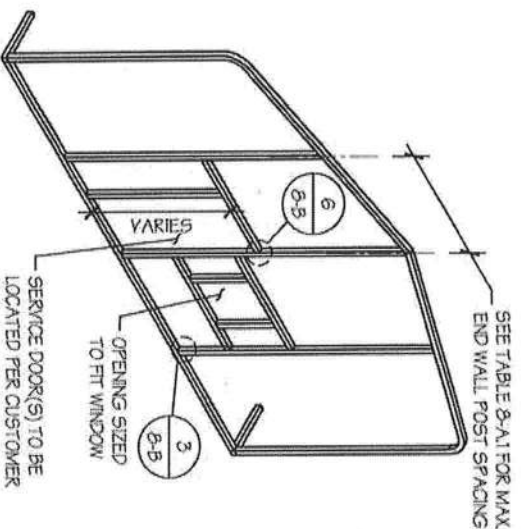
STAMP EXPIRY: FEB 28 2023
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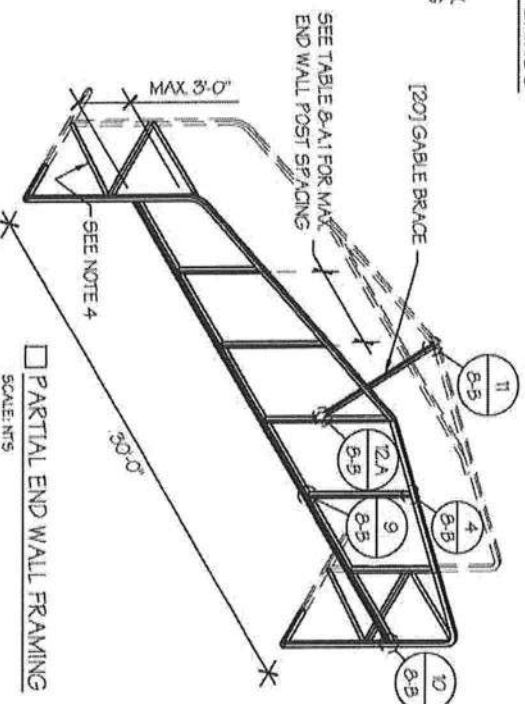
□ END WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



□ END WALL GABLES
SCALE: NTS



□ END WALL SERVICE DOOR AND WINDOW OPENINGS
SCALE: NTS



□ PARTIAL END WALL FRAMING
SCALE: NTS

TABLE 8-A1: END WALL POST SPACING SCHEDULE

WIND SPEED (MPH)	UP TO 7'	8'-10'9"	10'-10'12"
□ 105	5'	5'	5'
□ 115	5'	5'	4.5'
□ 120	4.5'	4.5'	4'
□ 140	4.5'	4.5'	3'
□ 155	4'	4'	2.5'
□ 165 - 180	3.5'	3'	2'

END WALL FRAMING NOTES:

- DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
- 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: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

END WALL FRAMING DETAILS

SHEET NO.: B-B / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

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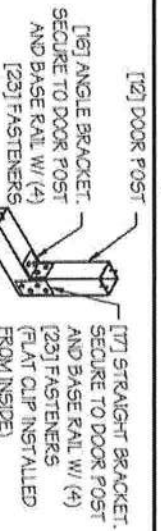
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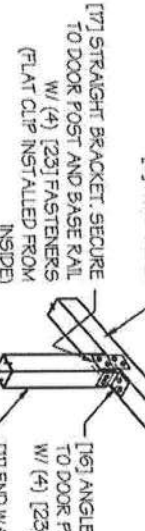
DATE SIGNED: JAN 15 2021

[12] DOOR POST

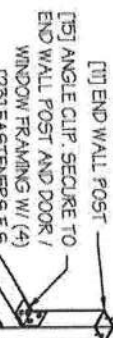


DOOR POST BASE RAIL CONN. DETAIL 1
SCALE: NTS

[12] ROOF BEAM



END WALL POST - ROOF BEAM CONN. DETAIL 2
SCALE: NTS



TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 3
SCALE: NTS



END WALL POST - DOUBLE HEADER CONN. DETAIL 4
SCALE: NTS



END WALL POST - SINGLE HEADER CONN. DETAIL 5
SCALE: NTS

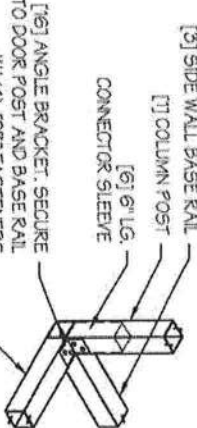


END WALL POST - CORNER CONN. DETAIL 6
SCALE: NTS

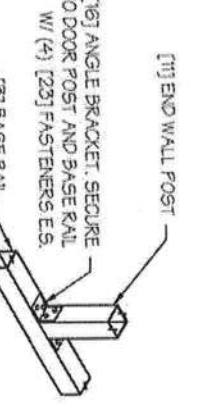


END WALL POST - BASE RAIL CONN. DETAIL 7
SCALE: NTS

[3] SIDE WALL BASE RAIL

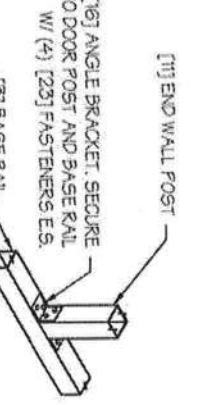


CORNER DETAIL 8
SCALE: NTS



END WALL POST - SINGLE HEADER CONN. DETAIL 9
SCALE: NTS

[11] END WALL POST



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

MANUFACTURED BY:

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LEGAL INFORMATION

SEAL:

PROJECT:

LOCATION:

PROJECT NO.:

SHEET TITLE:

SHEET NO.:

DRAWN BY:

CHECKED BY:

DATE:

LEGAL INFORMATION

SEAL:

PROJECT:

LOCATION:

PROJECT NO.:

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SHEET NO.:

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MANUFACTURED BY:

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ENGINEERED BY:



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CIVIL STRUCTURAL
6036 Bendemeer Place, Toledo, OH 43623
TEL: 419-293-1983 • FAX: 419-293-0035
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

CORNER BRACING DETAILS

SHEET NO.: 9 / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

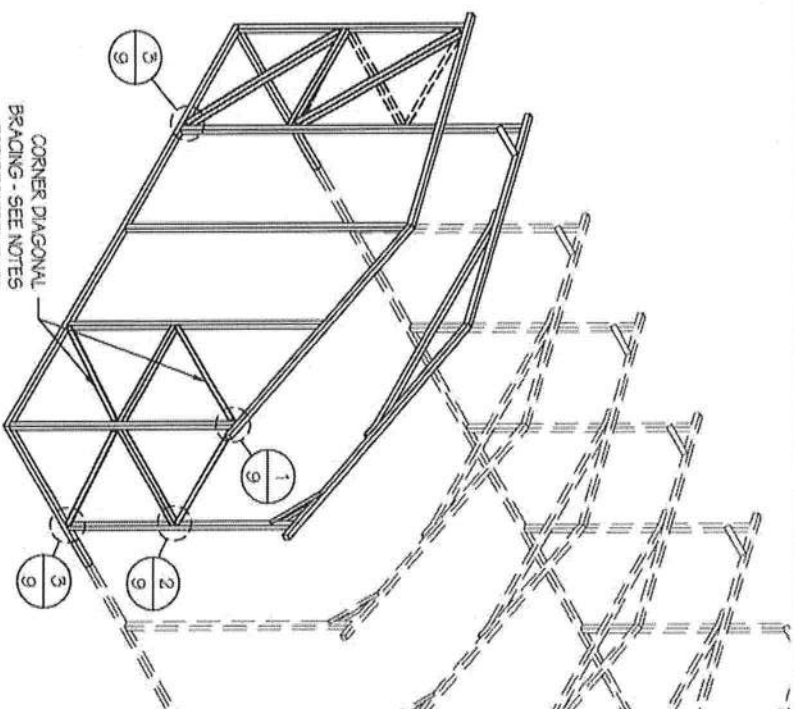
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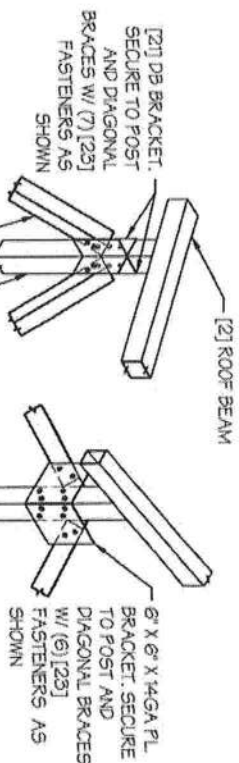
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CORNER DIAGONAL BRACING - SEE NOTES FOR REQUIREMENTS

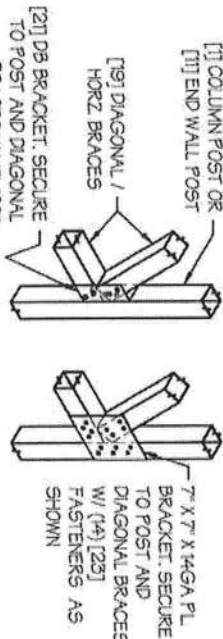
DIAGONAL BRACING AT CORNERS

SCALE: NTS



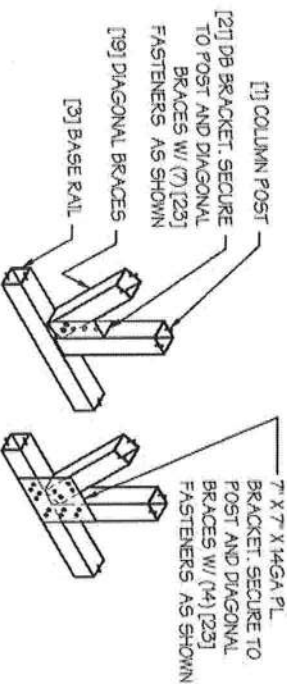
DIAGONAL BRACE TOP CORNER CONN. DETAIL* 1

SCALE: NTS



DIAGONAL BRACE - POST CONN. DETAIL* 2

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 9) WILL REQUIRE SIDE-WALL BRACING CLOSE TO THE PARTIALLY ENCLOSED END-WALL.

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

OPTIONAL LEAN-TO ADDITION

SHEET NO.: 10 / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

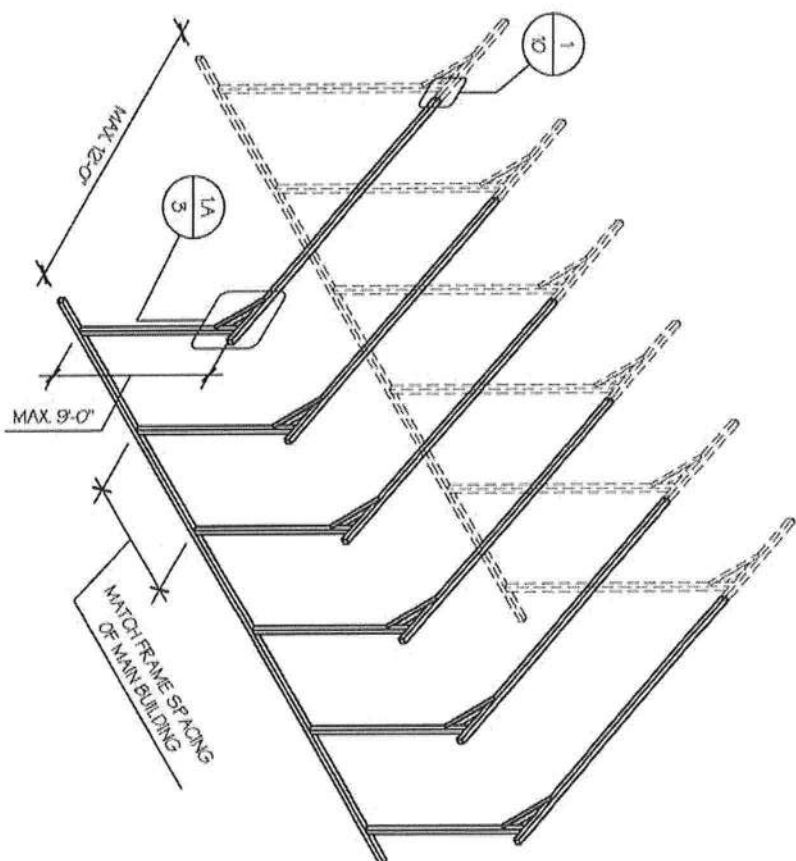
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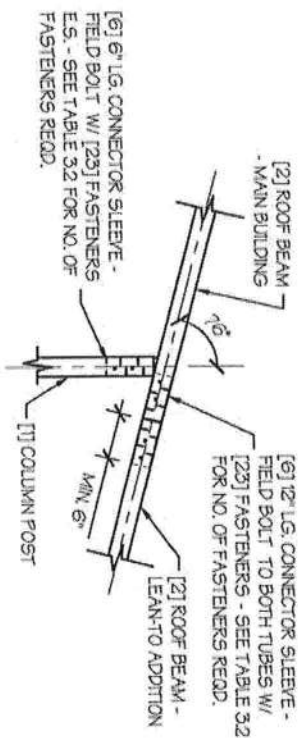
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OPTIONAL LEAN-TO ADDITION

SCALE: NTS



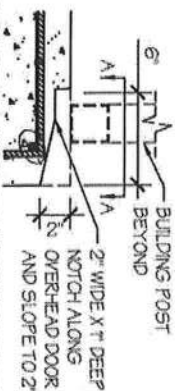
LEAN-TO ATTACHMENT DETAIL 1

SCALE: NTS

LEAN-TO ADDITION NOTES:

1. LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. 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.

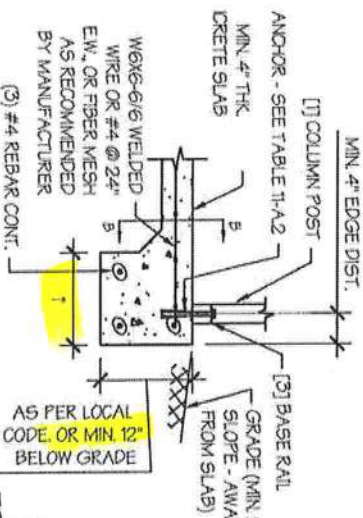
1. DESIGN SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU D CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE 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. 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.2.
5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5½" FOR 14GA MATERIAL AND 5½" 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.



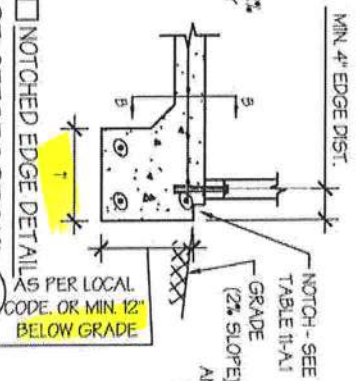
OVERHEAD DOOR NOTCH DETAIL

HORIZONTAL/OPEN		VERTICAL	
<input type="checkbox"/> 14GA	<input type="checkbox"/> 12GA	<input type="checkbox"/> 14GA	<input type="checkbox"/> 12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

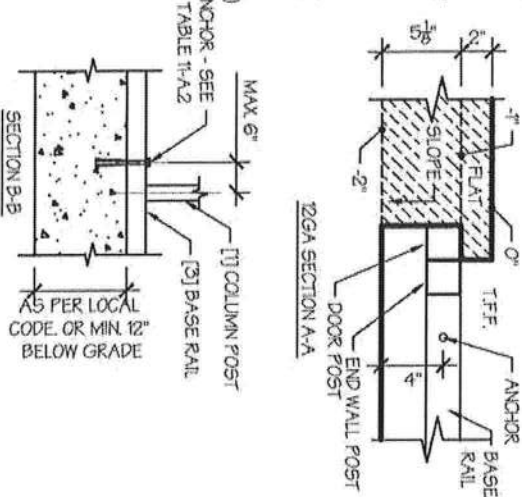
NOTE: DEPTH IS TO BE 1 1/2"



☐ STANDARD EDGE DETAIL



EDGE OFFSET DETAIL



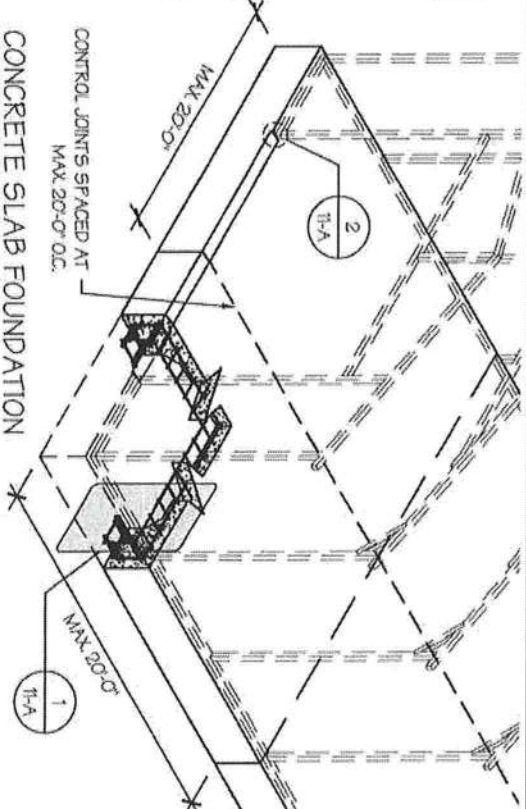
NOTES

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	<input type="checkbox"/> 105 TO 135	(1) 1/2" Ø X 7"
	<input type="checkbox"/> 136 TO 180	(2) 1/2" Ø X 7"
	<input type="checkbox"/> 105 TO 135	(1) 1/2" Ø X 7"
OPEN	<input type="checkbox"/> 136 TO 180	(2) 1/2" Ø X 7"

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

TABLE 11-A.2: CONCRETE
SLAB ANCHOR SCHEDULE

CONCRETE SLAB FOUNDATION
SCALE: NTS



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A&A ENGINEERING

CIVIL • STRUCTURAL

6336 Renaissance Place, Toledo, OH 43623
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www.mh-cpi.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE

FOUNDATION OPTION 1:

CONCRETE SLAB

SHEET NO.: 11-A / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE

SEAL:



STAMP EXPIRY: FEB 28 2023

DATE SIGNED: **JAN 15 2021**

1. DESIGN 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.
3. 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
5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS $\frac{1}{2}$ " 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.



ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	<input type="checkbox"/> 105 TO 135 <input type="checkbox"/> 136 TO 180	(1) 1/2" Ø X 7" (2) 1/2" Ø X 7"
OPEN	<input type="checkbox"/> 105 TO 135 <input type="checkbox"/> 136 TO 180	(1) 1/2" Ø X 7" (2) 1/2" Ø X 7"

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN EMBEDMENT DEPTH TO BE 25".
3. ANCHORS TO BE SPACED NO MORE THAN 6' FROM POSTS.



STAMP EXPIRY: **FEB 28 2023**
DATE SIGNED: **JAN 15 2021**

MANUFACTURED BY:

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ENGINEERED BY:



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CIVIL - STRUCTURAL
6006 Renaissance Place, Toledo, OH 43623
Tel. 419-252-1550 • Fax. 419-252-0555
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-0028
SHEET TITLE:

FOUNDATION OPTION 2:
CONCRETE STRIP

SHEET NO.: 11-B / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

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• DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:



STAMP EXPIRY: FEB 28 2023
DATE SIGNED: JAN 15 2021

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 160	(2) 1/2" Ø X 7"
OPEN	105 TO 135	(1) 1/2" Ø X 7"
	136 TO 160	(2) 1/2" Ø X 7"

NOTES:

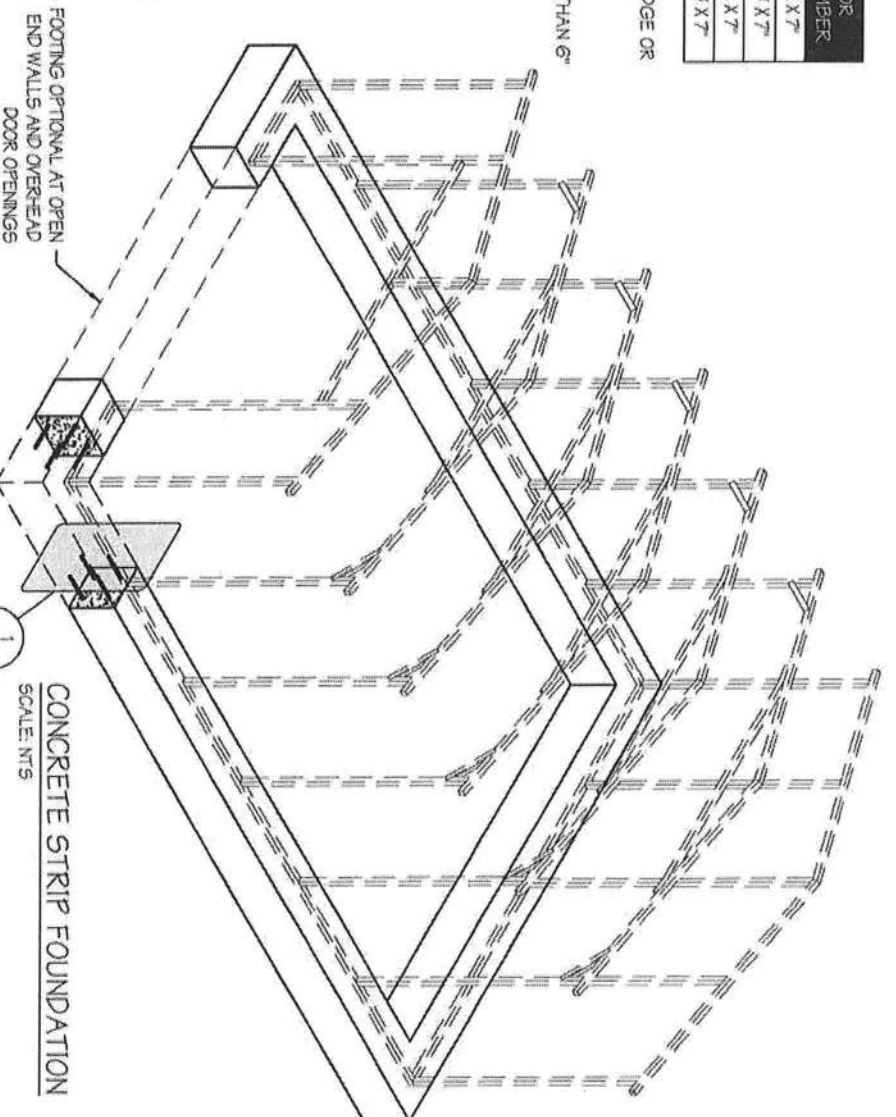
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 2 $\frac{1}{2}$ ".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

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:

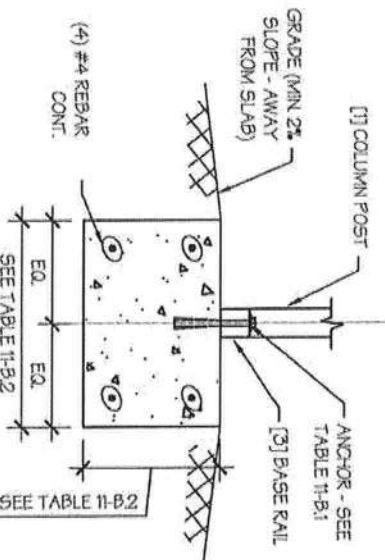
1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.



CONCRETE STRIP FOUNDATION

SCALE: NTS

1
11-B



CONCRETE STRIP FOUNDATION DETAIL

SCALE: NTS

1

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. DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
5. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
6. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.
7. BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION.

MANUFACTURED BY:

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ENGINEERED BY:



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www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028
SHEET TITLE:

FOUNDATION OPTION 3:
CONCRETE PIERS

SHEET NO.: 11-C / 11

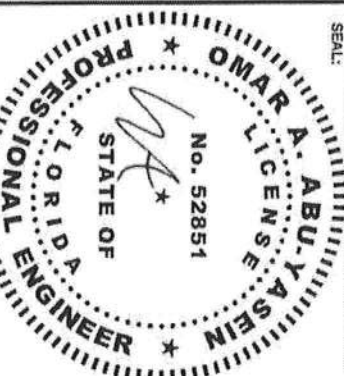
DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

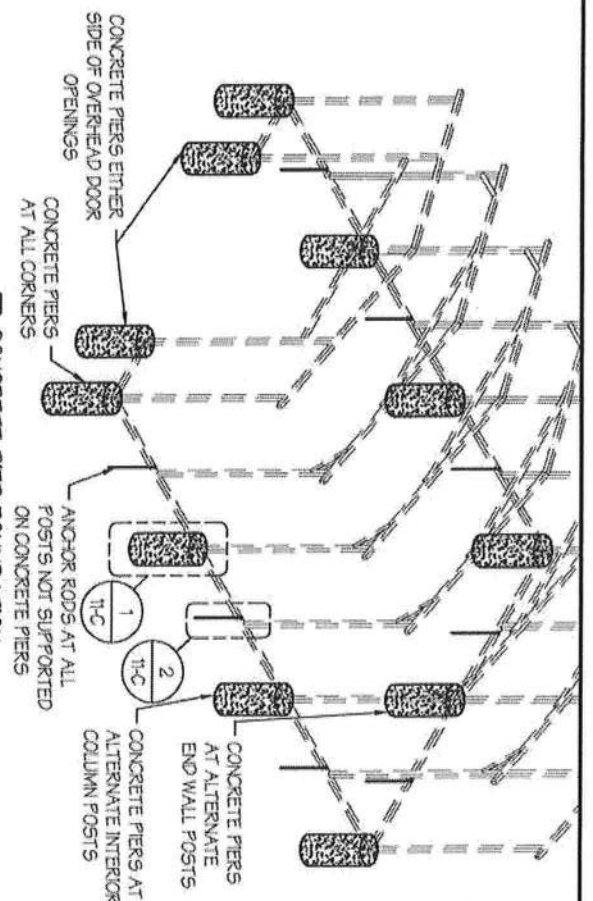
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DATE SIGNED: JAN 15 2021



CONCRETE PIER FOUNDATION

SCALE: NTS

TABLE 11-B.1: ANCHOR SCHEDULE

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

NOTES:

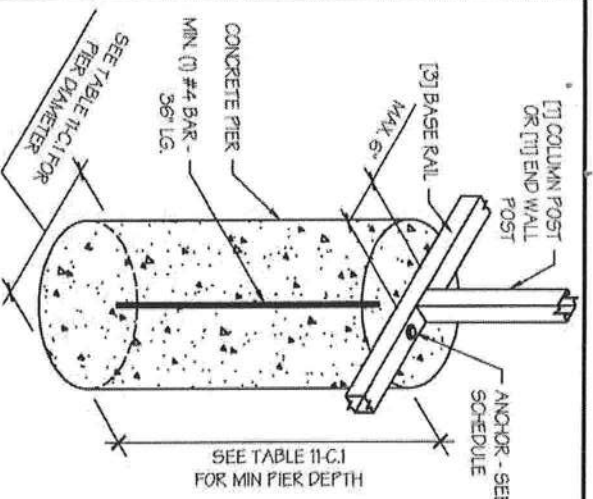
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 2 $\frac{1}{2}$ ".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

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-A.2.
6. TWO ANCHORS AND A PIER ARE REQUIRED AT DIAGONAL BRACING.
7. ALL POSTS NOT SUPPORTED ON CONCRETE PIERS SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. TREADED 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. TRED. 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.

CONCRETE PIER DETAIL 1

SCALE: NTS



ANCHOR ROD INTO SOIL DETAIL 2

SCALE: NTS

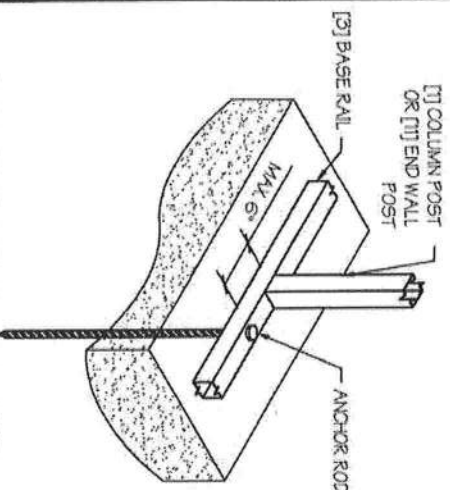


TABLE 11-C.1: CONC. PIER SCHEDULE

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

MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-0028
SHEET TITLE:

FOUNDATION OPTION 4: SOIL ANCHORS

SHEET NO.: 11-D / 11

DRAWN BY: A.W. DATE: 1/13/21

CHECKED BY: OAA DATE: 1/13/21

LEGAL INFORMATION

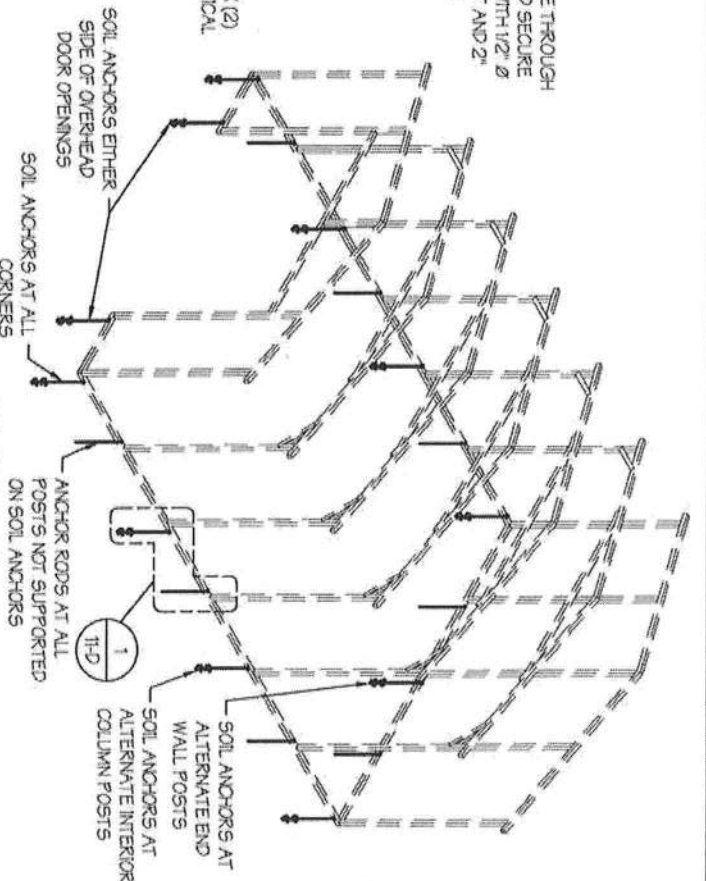
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- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUANCE.

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STAMP EXPIRY: FEB 28 2023

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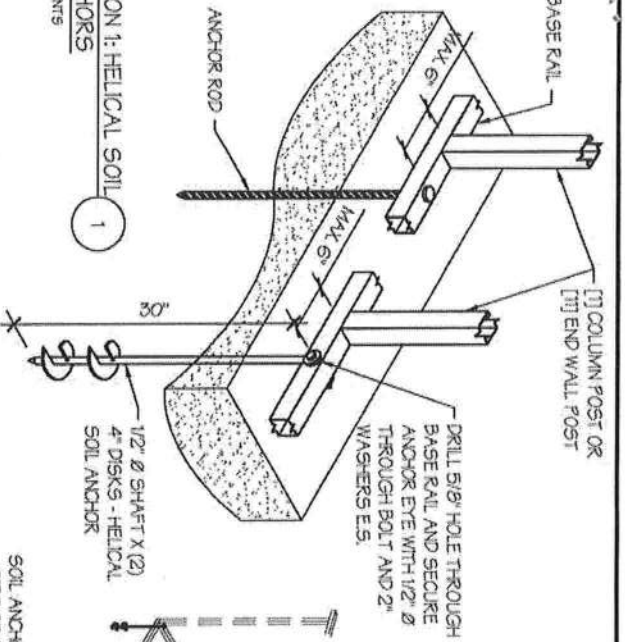


SOIL FOUNDATION SCALE: NTS

SOIL ANCHORS AT ALL CORNERS

SOIL ANCHORS EITHER SIDE OF OVERHEAD DOOR OPENINGS

OPTION 1: HELICAL SOIL ANCHORS SCALE: NTS



SOIL FOUNDATION NOTES:

- 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.
- 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.
- HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
- 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.
- 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/COBLES, PRELOADED SILTS, CLAYS AND CORAL. |
| 3 | SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS. |
| 4 | LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS. |

*FROM HUD "MODEL MANUFACTURED HOME INSTALLATION STANDARDS"

OPTION 2: ROCK / ASPHALT ANCHORS SCALE: NTS

