

REGULAR / A-FRAME 22'-0" WIDE CARPORT STYLE BUILDINGS



DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, OSHA, AISI 360, 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 #12X1 50S (E56-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE 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:

IBC 2020 - 7TH EDITION
(IBC 2018)
U (CARPORTS, BARNS)
1

DRAWING INDEX

SCHEDULES & MEMBER -
SECTIONS
FRAME SECTIONS & DETAILS -
SPACING SCHEDULES -
& ENCLOSURE NOTES
PURLIN & GIRT SCHEDULES
SHEATHING OPTIONS
SIDE WALL FRAMING
& OPENINGS
END WALL FRAMING
& OPENINGS
CORNER BRACING DETAILS
OPTIONAL LEAN-TO ADDITION
FOUNDATION OPTIONS

1
2
3-A, 3-B
4
5
6
7-A, 7-B
8-A, 8-B
9
10
11-A TO 11-D

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)

SNOW LOAD (S)
GROUND SNOW LOAD
IMPORTANCE FACTOR
THERMAL FACTOR
EXPOSURE FACTOR
ROOF SLOPE FACTOR
WIND LOAD (W)
BASIC WIND SPEED
SEISMIC LOAD (E)
DESIGN CATEGORY
IMPORTANCE FACTOR

$P_g = 20 - 90$ PSF
 $I_s = 0.8$
 $C_t = 1.2$
 $C_e = 1.0$
 $C_s = 1.0$
 $V_{ult} = 105 - 150$ MPH
 $C =$
 D
 $I_e = 1.00$

11-A TO 11-D

CUSTOMER INFORMATION

OWNER:
ADDRESS:

DESIGN LOADS

GROUND SNOW:

ROOF LIVE LOAD:

BASIC WIND SPEED:

BUILDING INFORMATION

WIDTH:

LENGTH:

HEIGHT:

FRAME TYPE:

ENCLOSURE TYPE:

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS: **JAN 15 2022**
EXPIRATION:

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

Real Steel Metal
Buildings



ENGINEERED BY:
A&A ENGINEERING
CIVIL - STRUCTURAL
6006 Renaissance Place, Tallahassee, FL 32303
Tel: 415-920-1583 • Fax: 415-920-9055
www.aandaeengineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-0028
SHEET TITLE:

COVER SHEET

SHEET NO.: 1 / 11

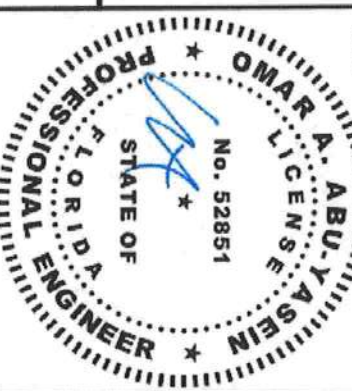
DRAWN BY: AW DATE: 1/18/21

CHECKED BY: OAA DATE: 1/18/21

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

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING

CIVIL • STRUCTURAL

6255 Renaissance Place, Tallahassee, FL 32303
Tel. 904.292.1583 • Fax 904.292.2035
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY PROHIBITED. ANYONE DOING SO WILL BE RESPONSIBLE FOR ALL DAMAGES AND COSTS INCURRED.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:



STAMP EXPIRY: FEB 28 2023

DATE SIGNED: JAN 15 2021

TABLE 2.1: MEMBER PROPERTIES

NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE	1
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1
4	PEAK BRACE	2.5" X 2.5" 14GA CHANNEL	4
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10
8	PURLIN	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9A	OPT. END WALL GIRT	2.5" X 1.5" 14GA CHANNEL	1
10	SHEATHING	29 GA CORRUGATED SHEET	6
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
5	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

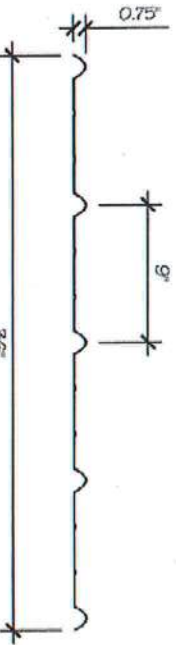
LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN 1	4" C/C	9" C/C

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

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

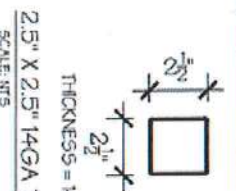
TABLE 2.3: GAUGE THICKNESS

G/AUGE	29	18	14	12
THICKNESS (IN)	0.0135	0.0449	0.083	0.109



29 GA CORRUGATED SHEATHING

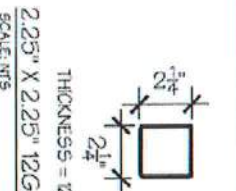
SCALE: NTS



THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE

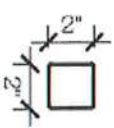
SCALE: NTS



THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE

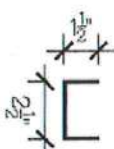
SCALE: NTS



THICKNESS = 14GA

2" X 2" 14GA TUBE

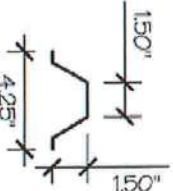
SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL

SCALE: NTS

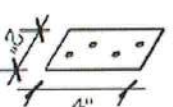


THICKNESS = 14GA / 18GA

4.25" X 1.5" X 14GA / 18GA

HAT CHANNEL

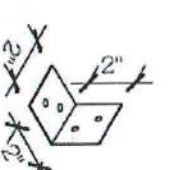
SCALE: NTS



THICKNESS = 14GA

STRAIGHT BRACKET

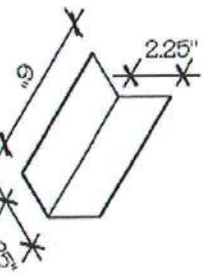
SCALE: NTS



THICKNESS = 14GA

ANGLE BRACKET

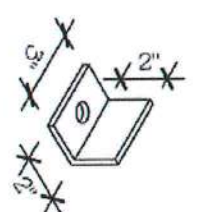
SCALE: NTS



THICKNESS = 14GA

DB BRACKET

SCALE: NTS



THICKNESS = 3/16"

BASE ANGLE

SCALE: NTS

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL

6034 Peachtree Place, N.W., Atlanta, GA 30328
Tel. 410-920-1583 • Fax. 410-920-0545
www.a-a-engineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

FRAME SECTIONS & DETAILS

SHEET NO.: 3-A / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

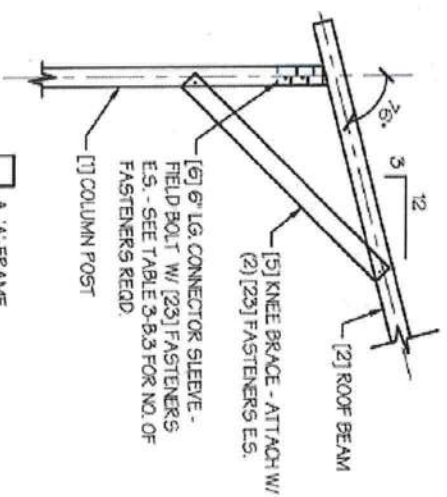
- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR
PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL
BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:

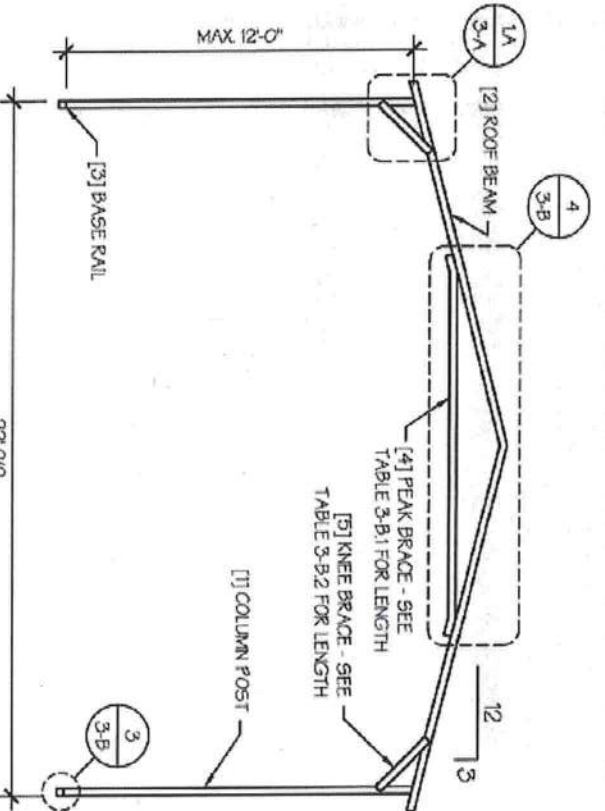


STAMP EXPIRY: FEB 28 2023

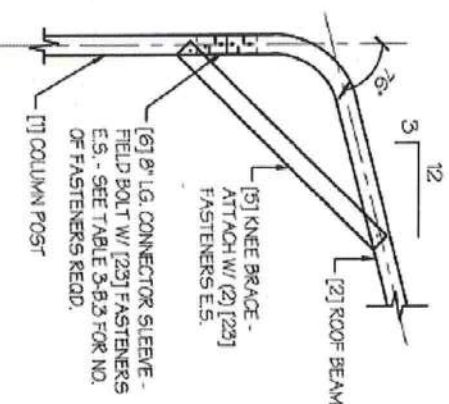
DATE SIGNED: JAN 15 2021



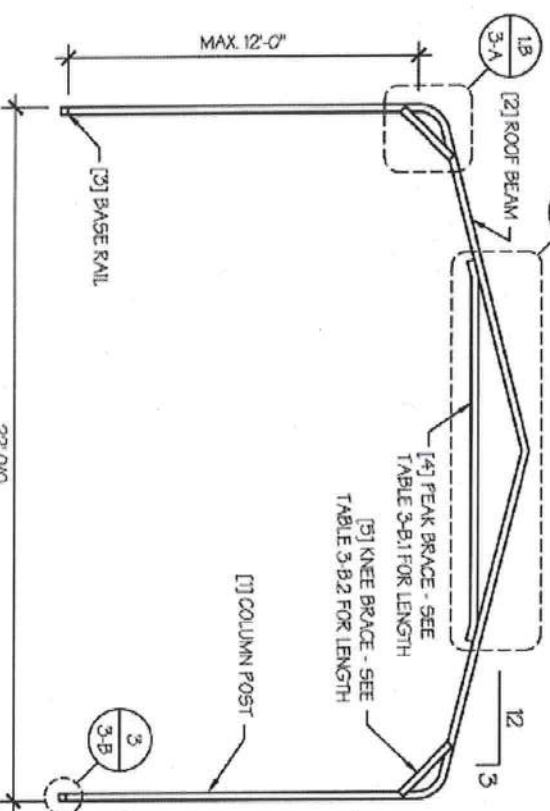
☐ A-A-FRAME
SCALE: NTS



☐ TYP. A-FRAME SECTION
SCALE: NTS



☐ B. REGULAR-FRAME
SCALE: NTS



☐ TYP. REGULAR FRAME SECTION
SCALE: NTS

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL
6205 Renaissance Trace, Toledo, OH 43623
Tel. 419.292.1583 • Fax 419.292.0955
www.a-a-engineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-0028
SHEET TITLE:

FRAME DETAILS

SHEET NO.: 3-B / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

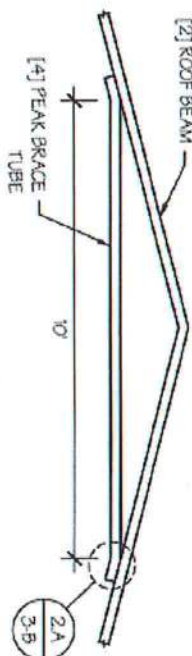
LEGAL INFORMATION

- ANY REPLICATION 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.

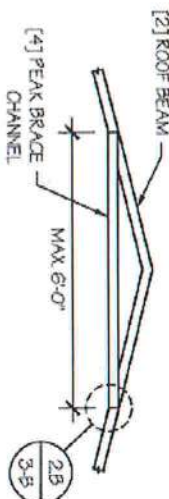
SEAL:



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

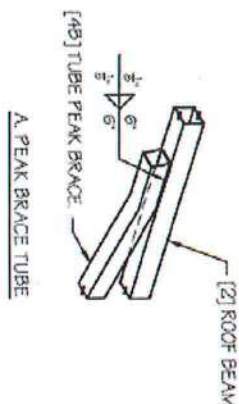


☐ A. WELDED PEAK BRACE

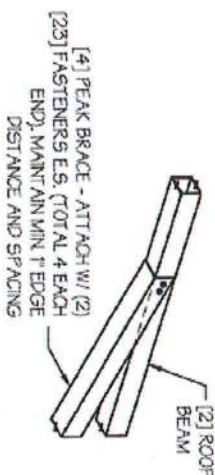


☐ B. CHANNEL PEAK BRACE

PEAK BRACE DETAILS 4
SCALE: NTS



A. PEAK BRACE TUBE



B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS 2
SCALE: NTS

TABLE 3-B.1: PEAK BRACE SCHEDULE

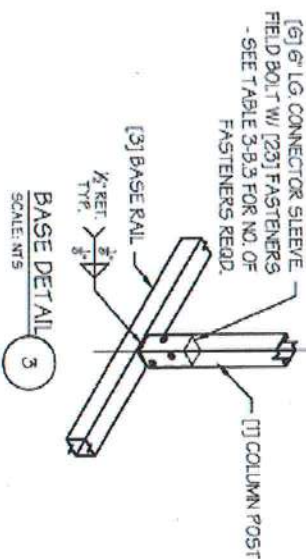
GROUND SNOW / ROOF LIVE LOAD (PSF)	WIND SPEED	
	105 TO 120	140 TO 160
<input type="checkbox"/> 30 / 20	6'	10'
<input type="checkbox"/> 35 / 25 TO 90 / 61	10'	10'

TABLE 3-B.2: KNEE BRACE SCHEDULE

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

TABLE 3-B.3: FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
<input type="checkbox"/> 105 TO 125	4
<input type="checkbox"/> 130 TO 155	6
<input type="checkbox"/> 160 TO 180	8



BASE DETAIL 3
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.

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	150	165	180	190	200	210	105	115	130	140	150	165	180	190	200	210
30/20	54	48	42	36	30	24	24	24	36	30	24	18	15	12	12	12	12	12	12	12
40/27	42	42	42	36	30	24	24	24	30	24	18	15	12	12	12	12	12	12	12	12
50/34	40	40	40	36	30	24	24	24	30	24	18	15	12	12	12	12	12	12	12	12
60/41	36	36	36	36	30	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
70/47	32	32	32	32	30	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
80/54	30	30	30	30	30	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
90/61	24	24	24	24	24	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
50/20	54	48	42	36	30	24	24	24	48	42	36	30	24	18	15	12	12	12	12	12
40/27	42	42	42	36	30	24	24	24	40	36	30	24	18	15	12	12	12	12	12	12
50/34	40	40	40	36	30	24	24	24	30	24	18	15	12	12	12	12	12	12	12	12
60/41	36	36	36	36	30	24	24	24	24	24	18	15	12	12	12	12	12	12	12	12
70/47	32	32	32	32	30	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
80/54	30	30	30	30	30	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
90/61	30	30	30	30	30	24	24	24	18	15	12	12	12	12	12	12	12	12	12	12
30/20	54	48	42	36	30	24	24	24	54	48	42	36	30	24	24	24	18	15	12	12
40/27	42	42	42	36	30	24	24	24	42	42	36	30	24	24	24	24	18	15	12	12
50/34	40	40	40	36	30	24	24	24	40	40	36	30	24	24	24	24	18	15	12	12
60/41	36	36	36	36	30	24	24	24	36	36	30	24	24	24	24	24	18	15	12	12
70/47	32	32	32	32	30	24	24	24	32	32	30	24	24	24	24	24	18	15	12	12
80/54	32	32	32	32	30	24	24	24	30	30	30	24	24	24	24	24	18	15	12	12
90/61	30	30	30	30	30	24	24	24	30	30	30	24	24	24	24	24	18	15	12	12
30/20	54	48	42	36	30	24	24	24	54	48	42	36	30	24	24	24	18	15	12	12
40/27	42	42	42	36	30	24	24	24	42	42	36	30	24	24	24	24	18	15	12	12
50/34	40	40	40	36	30	24	24	24	40	40	36	30	24	24	24	24	18	15	12	12
60/41	36	36	36	36	30	24	24	24	36	36	30	24	24	24	24	24	18	15	12	12
70/47	32	32	32	32	30	24	24	24	32	32	30	24	24	24	24	24	18	15	12	12
80/54	32	32	32	32	30	24	24	24	32	32	30	24	24	24	24	24	18	15	12	12
90/61	30	30	30	30	30	24	24	24	30	30	30	24	24	24	24	24	18	15	12	12
30/20	54	48	42	36	30	24	24	24	54	48	42	36	30	24	24	24	18	15	12	12
40/27	42	42	42	36	30	24	24	24	42	42	36	30	24	24	24	24	18	15	12	12
50/34	40	40	40	36	30	24	24	24	40	40	36	30	24	24	24	24	18	15	12	12
60/41	36	36	36	36	30	24	24	24	36	36	30	24	24	24	24	24	18	15	12	12
70/47	32	32	32	32	30	24	24	24	32	32	30	24	24	24	24	24	18	15	12	12
80/54	32	32	32	32	30	24	24	24	32	32	30	24	24	24	24	24	18	15	12	12
90/61	30	30	30	30	30	24	24	24	30	30	30	24	24	24	24	24	18	15	12	12

- 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.
- IRREGULAR BUILDING & BUILDINGS W/ MORE THAN 2 SIDE OPENINGS MUST HAVE A 10" TUBE PEAK BRACE ON ALL FRAMES.

TABLE 5.2: GIRT SPACING SCHEDULE

FRAME SPACING	WIND SPEED (MPH)									
	105	115	130	140	150	165	180	190	200	210
5'-0"	60	48	36	30	24	24	18	15	12	12
4'-6"	60	48	48	42	36	30	24	18	15	12
4'-0"	60	60	54	54	42	36	30	24	18	12
3'-6"	60	60	54	54	48	42	36	30	24	18
3'-0"	60	60	54	54	48	42	36	30	24	18

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.

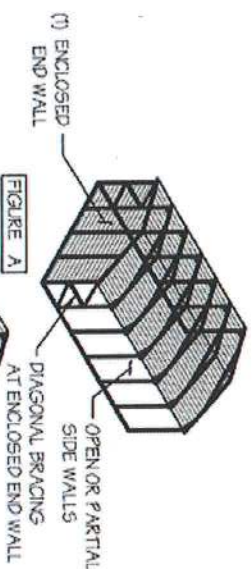


FIGURE A

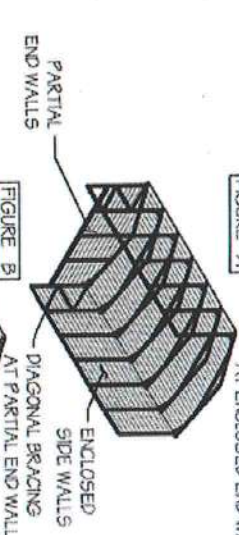


FIGURE B

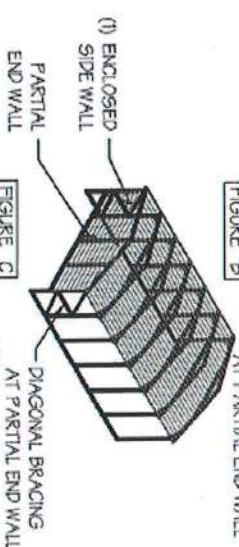


FIGURE C

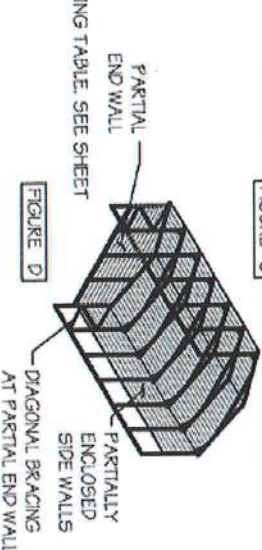


FIGURE D

MANUFACTURED BY:

Real Steel Metal
Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel: 419.292.1983 • Fax: 419.292.0555
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

PURLIN & GIRT
SPACING SCHEDULES

SHEET NO.: 5 / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

ANY REPLICATION 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

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL, STRUCTURAL
6035 Renaissance Blvd., Toledo, OH 43623
Tel. 419.992.1585 • Fax 419.992.0555
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

SHEATHING OPTIONS & DETAILS

SHEET NO.: 6 / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

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

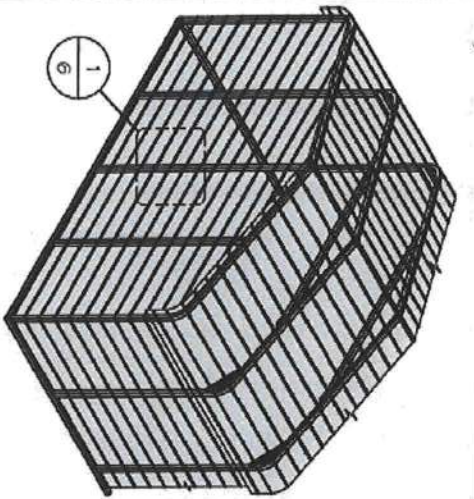
SEAL:



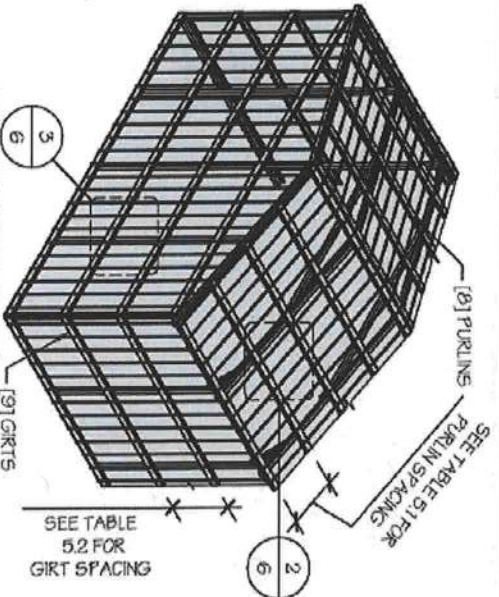
STAMP EXPIRY: FEB 28 2023
DATE SIGNED: JAN 15 2021

GENERAL SHEATHING NOTES:

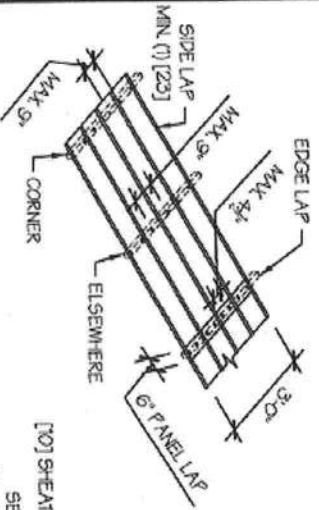
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS. A FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
2. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER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



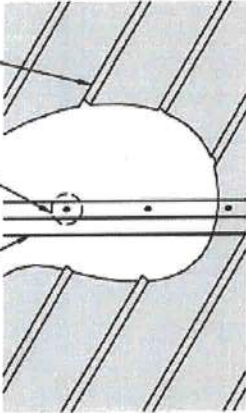
☐ TYP. HORIZONTAL SHEATHING
SCALE: NTS



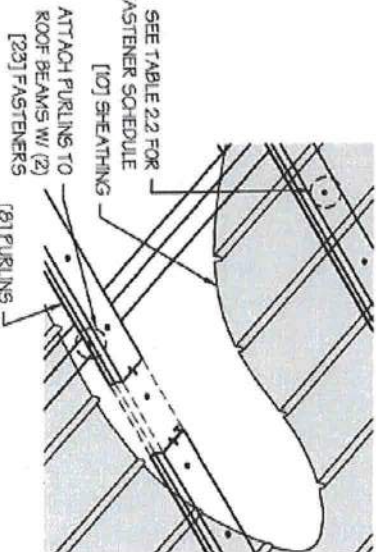
☐ TYP. VERTICAL SHEATHING
SCALE: NTS



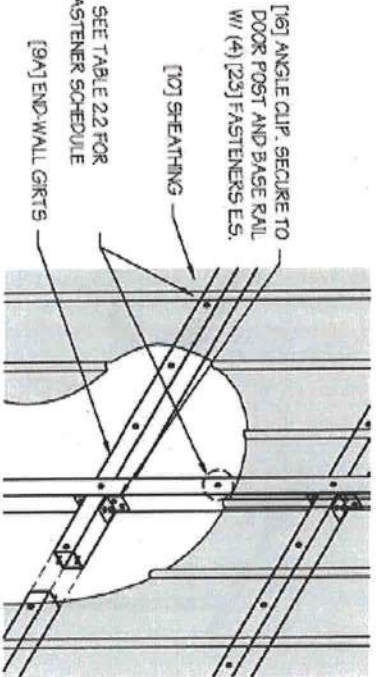
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



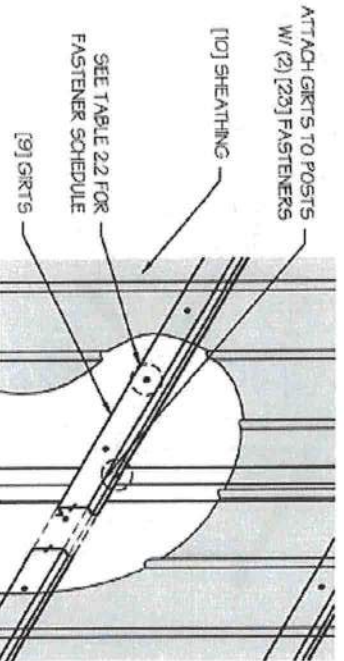
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



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:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6036 Renaissance Place, Toledo, OH 43628
Tel. 419.292.1081 • Fax. 419.292.0936
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 22'-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: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

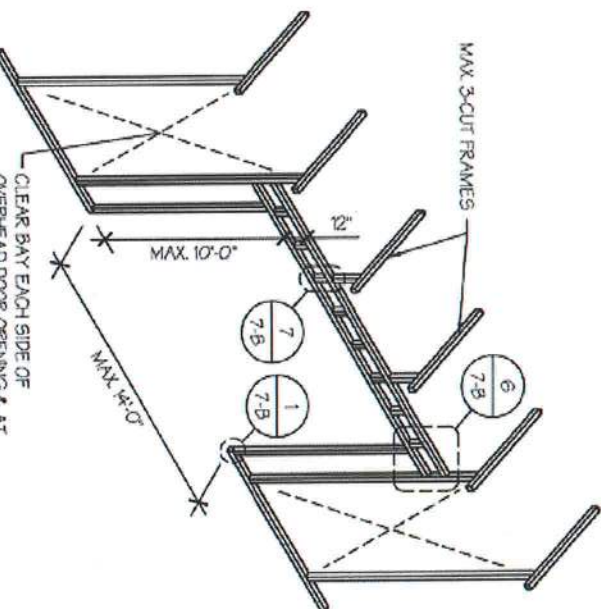
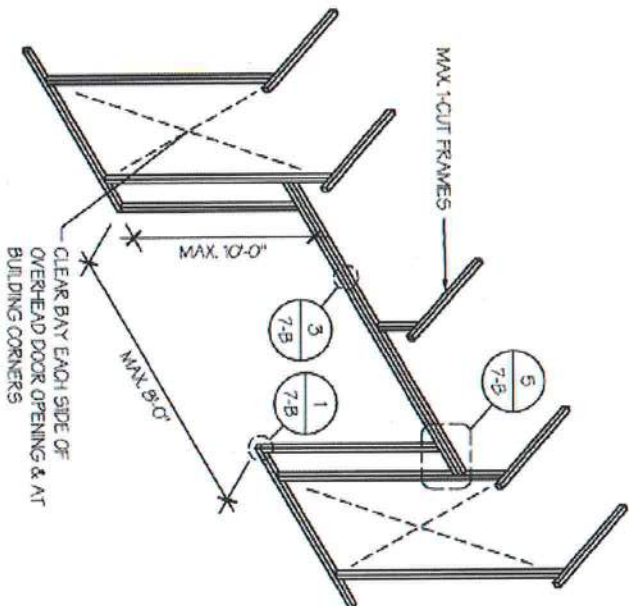
- ANY REPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:



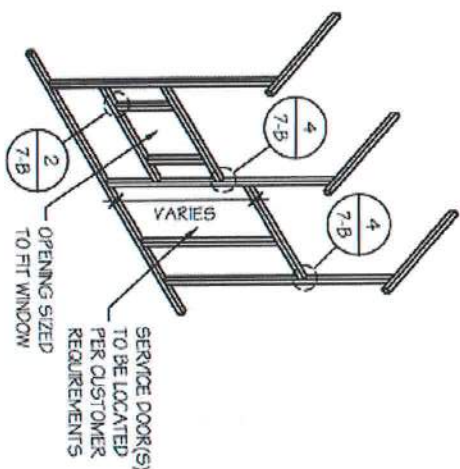
STAMP EXPIRY: FEB 28 2023

DATE SIGNED: JAN 15 2021



SIDE WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



SIDE WALL SERVICE DOOR / WINDOW OPENINGS

SCALE: NTS

SIDE WALL FRAMING NOTES:

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

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
(605) 949-9100 • Fax: (605) 949-9105
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-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: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

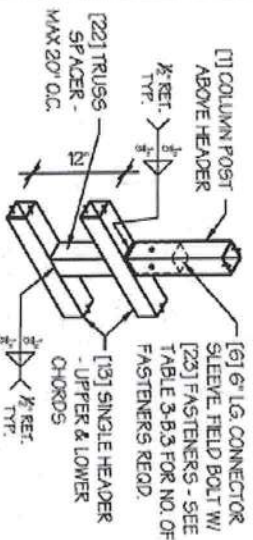
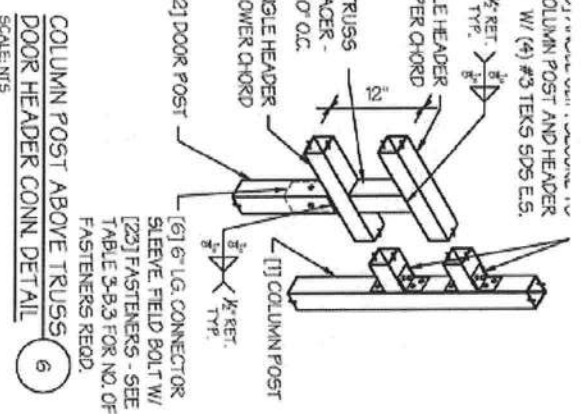
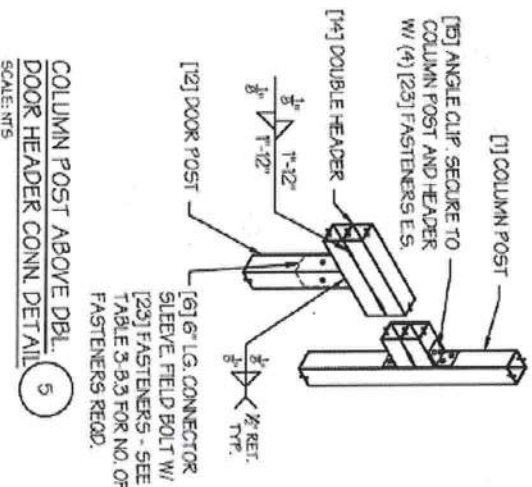
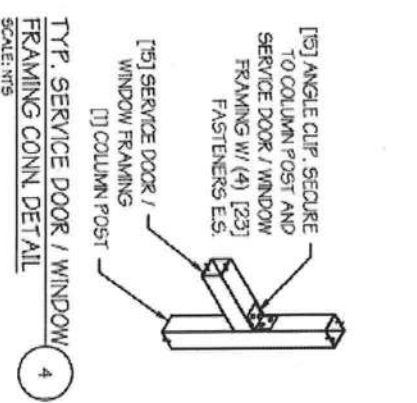
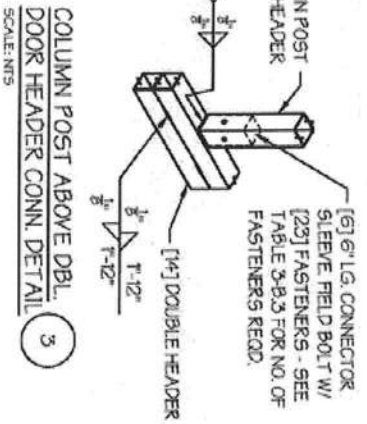
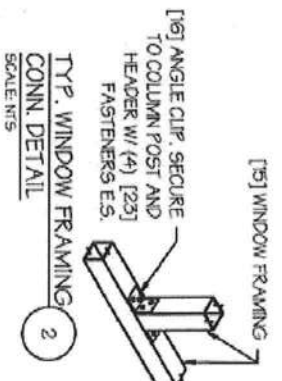
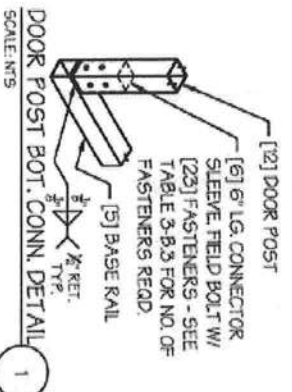
LEGAL INFORMATION

* 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



MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6705 Renaissance Pkwy., Toledo, OH 46221
Tel. 419.292.1983 • Fax. 419.292.0055
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS
LOCATION: STATE OF FLORIDA
PROJECT NO.: 356-21-0028
SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11
DRAWN BY: AW DATE: 1/12/21
CHECKED BY: OAA DATE: 1/12/21

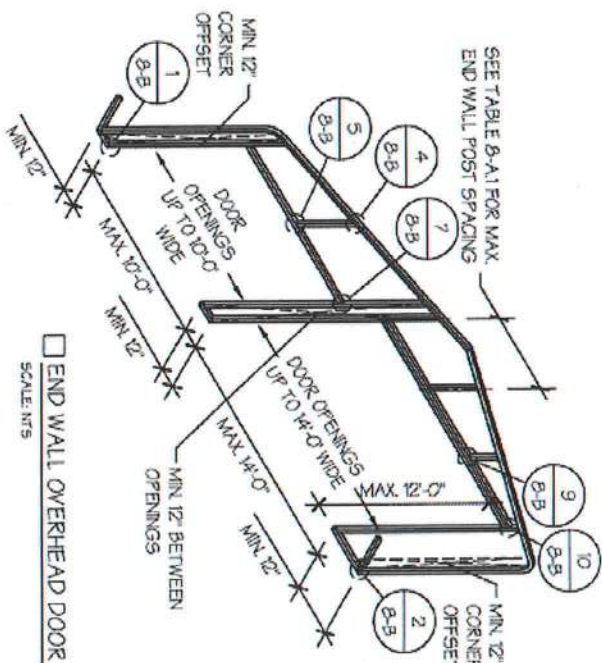
LEGAL INFORMATION

- ANY REPLICATION 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.

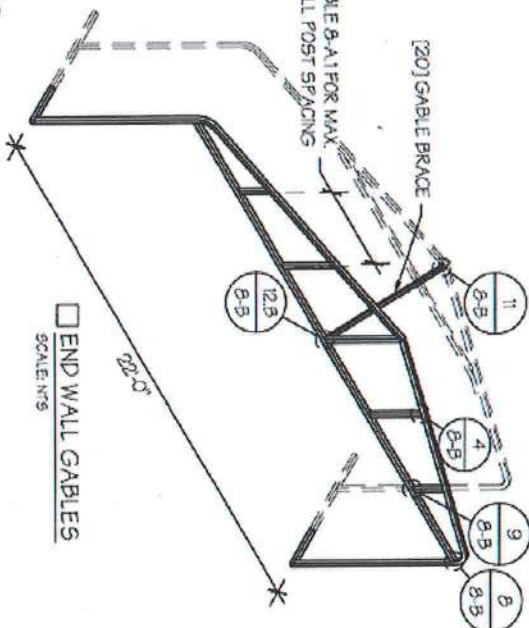
SEAL:



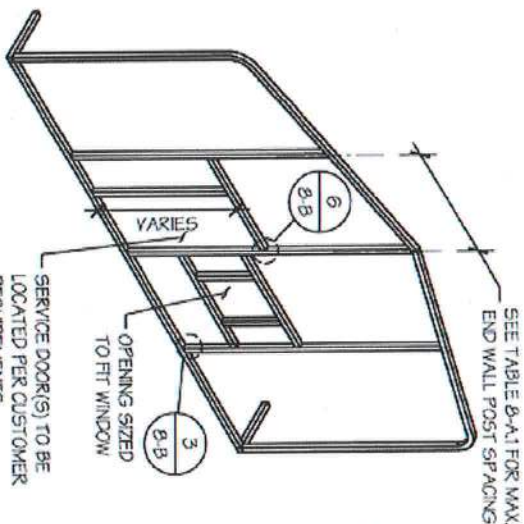
STAMP EXPIRY: FEB 28 2023
DATE SIGNED: JAN 15 2021



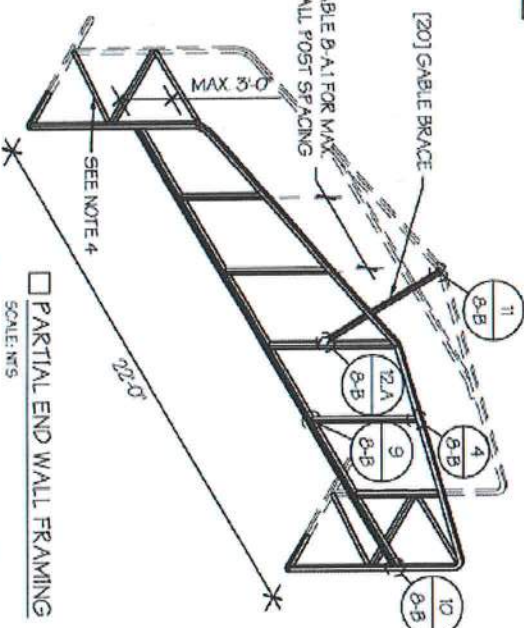
□ END WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



□ END WALL GABLES
SCALE: NTS



□ END WALL SERVICE DOOR AND WINDOW OPENINGS
SCALE: NTS



□ PARTIAL END WALL FRAMING
SCALE: NTS

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

WIND SPEED (MPH)	UP TO 2'	2' TO 9'	9' TO 12'
105	5'	5'	5'
115	5'	5'	4.5'
130	4.5'	4.5'	4'
140	4.5'	4.5'	3'
155	4'	4'	2.5'
165 - 180	3.5'	3'	2'

- END WALL FRAMING NOTES:**
- 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:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6036 Bonaventure Place, Toledo, OH 43623
Tel. 419.992.1583 • Fax. 419.992.0555
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

END WALL FRAMING DETAILS

SHEET NO.: 8-B / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

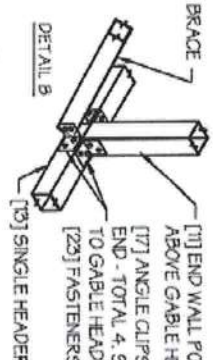
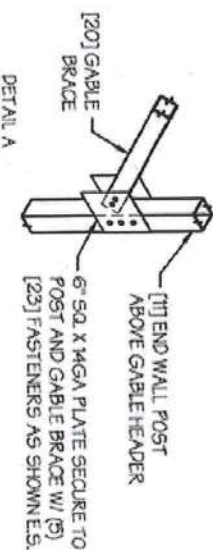
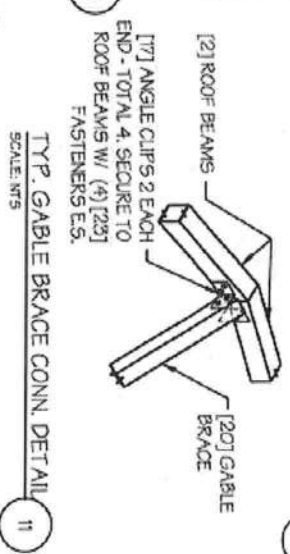
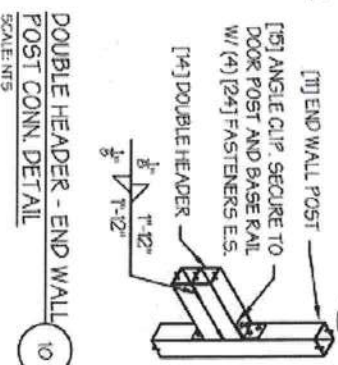
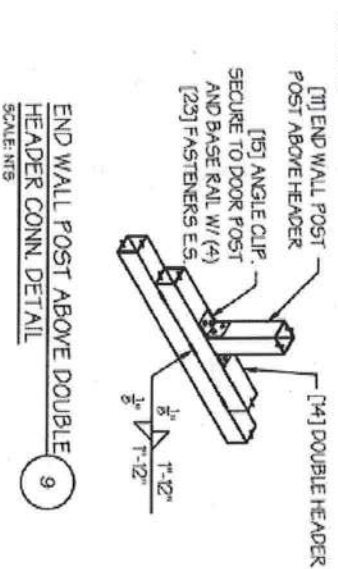
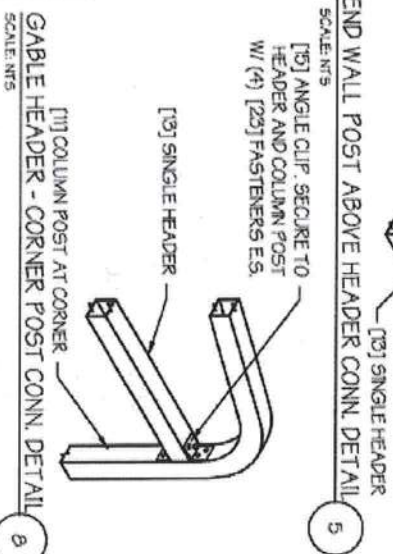
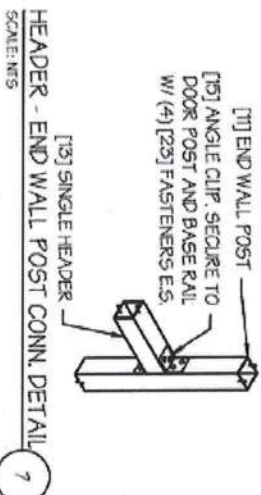
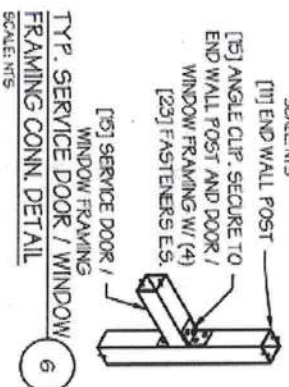
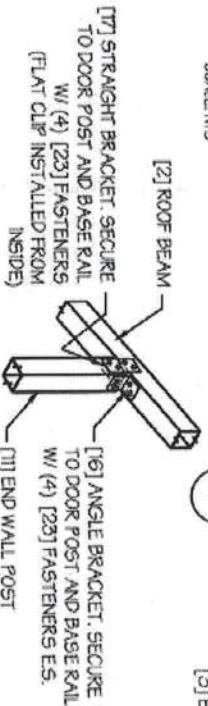
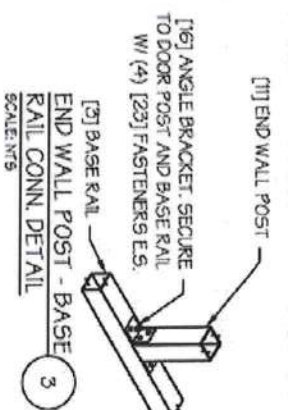
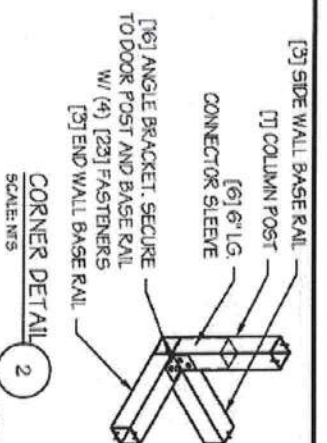
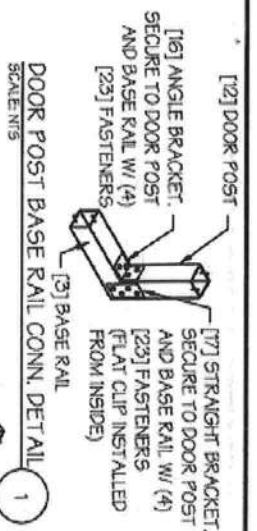
LEGAL INFORMATION

- 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



MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6206 Renaissance Place, Toledo, OH 43623
Tel. 419.292.1383 • Fax. 419.292.4055
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

CORNER BRACING DETAILS

SHEET NO.: 9 / 11

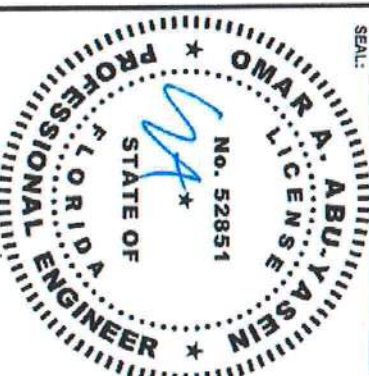
DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

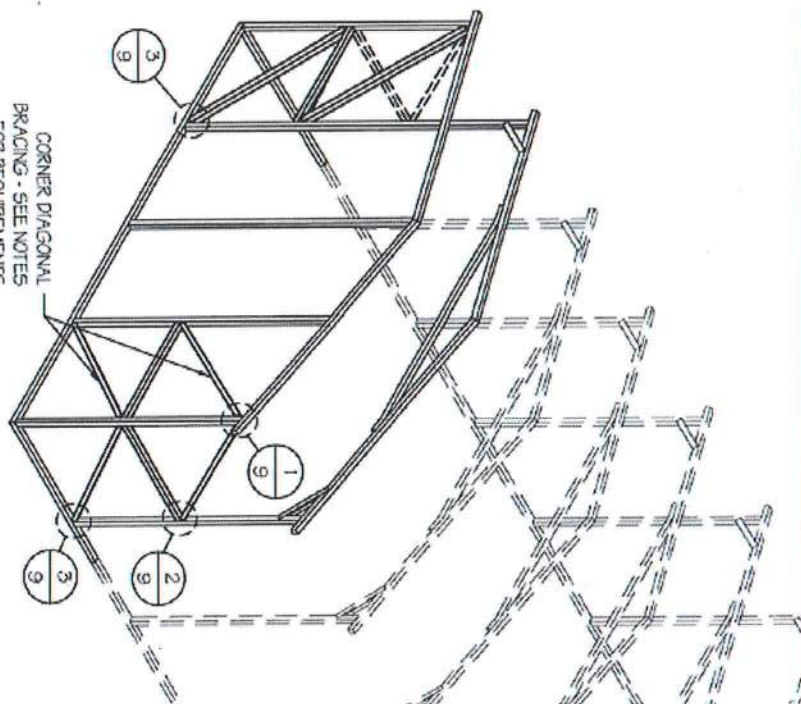
- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:



STAMP EXPIRY: FEB 28 2023

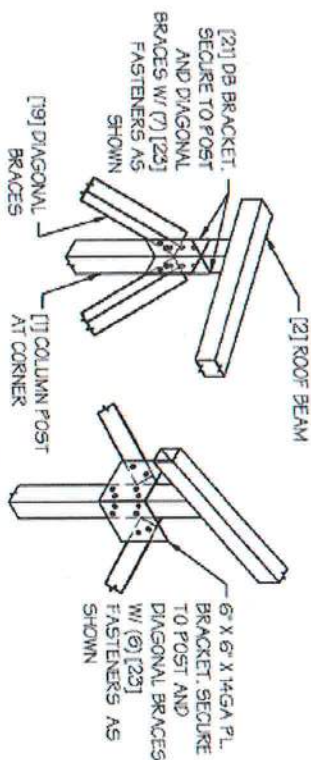
DATE SIGNED: JAN 15 2021



CORNER DIAGONAL BRACING - SEE NOTES FOR REQUIREMENTS

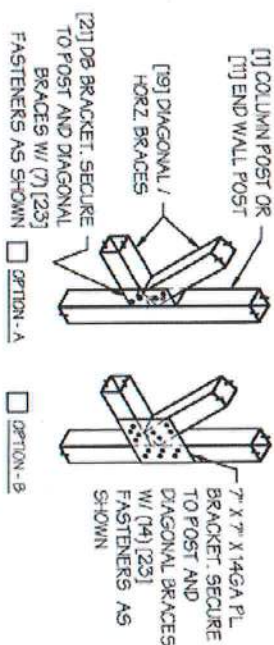
DIAGONAL BRACING AT CORNERS

SCALE: NTS



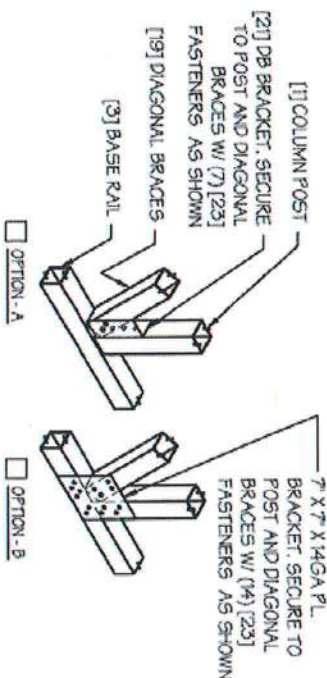
DIAGONAL BRACE TOP CORNER CONN. DETAIL* 1

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

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL
6035 Renaissance Place, Toledo, OH 43623
Tel: 419-292-1503 • Fax: 419-292-0345
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

OPTIONAL LEAN-TO ADDITION

SHEET NO.: 10 / 11

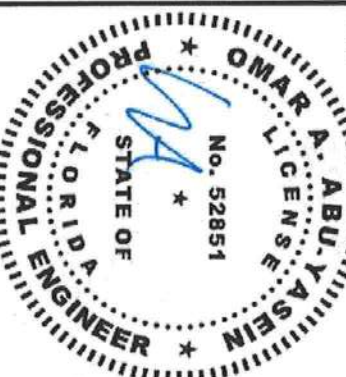
DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

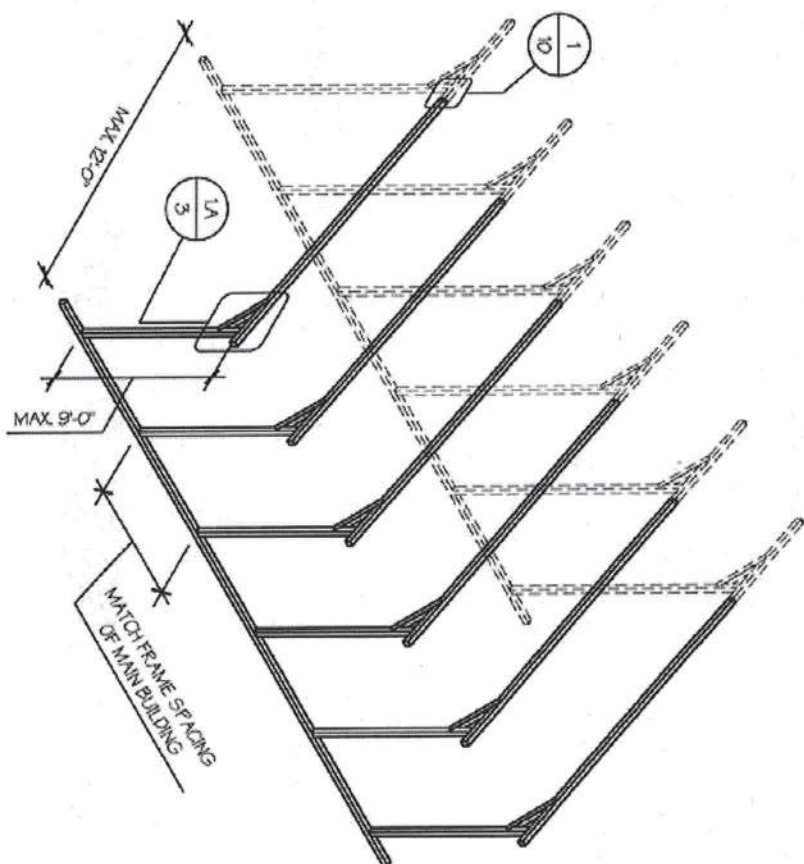
- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR
PART IS STRICTLY PROHIBITED, ANYONE DOING SO WILL
BE RESPONSIBLE FOR THE FULLITY OF THE LAW.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:

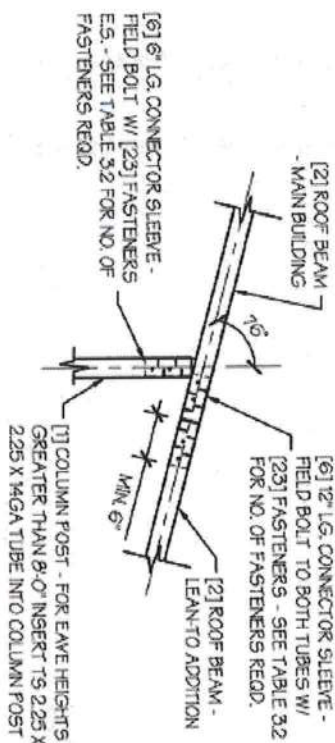


STAMP EXPIRY: FEB 28 2023

DATE SIGNED: JAN 15 2021



☐ OPTIONAL LEAN-TO ADDITION SCALE: NTS

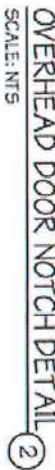


LEAN-TO ATTACHMENT DETAIL SCALE: NTS 1

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.

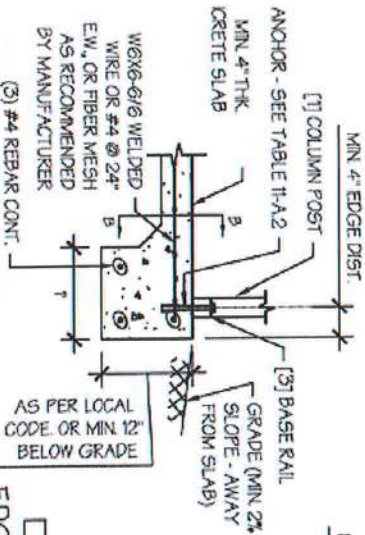
1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
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-A2.
5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5 $\frac{1}{2}$ " FOR 14GA MATERIAL AND 5 $\frac{3}{4}$ " 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
<input type="checkbox"/> 2 3/4"	<input type="checkbox"/> 2 7/8"	<input type="checkbox"/> 1 3/4"	<input type="checkbox"/> 1 7/8"

NOTE: DEPTH IS TO BE 1 1/2"



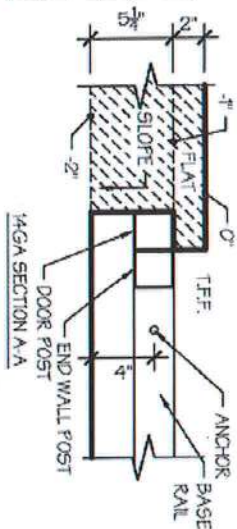
AS PER LOCAL
CODE. OR MIN. 12"
BELOW GRADE

TABLE 11-A.2: CONCRETE
SLAB ANCHOR SCHEDULE

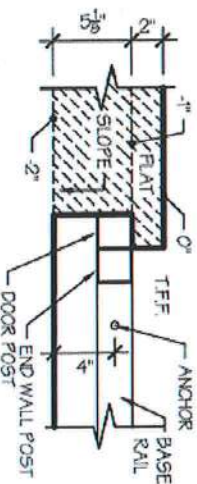
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	<input type="checkbox"/> 105 TO 135	(1) 1/2" Ø x 7"
	<input type="checkbox"/> 136 TO 180	(2) 1/2" Ø x 7"
	<input type="checkbox"/> 105 TO 135	(1) 1/2" Ø x 7"
OPEN	<input type="checkbox"/> 136 TO 180	(2) 1/2" Ø x 7"

NOTES:

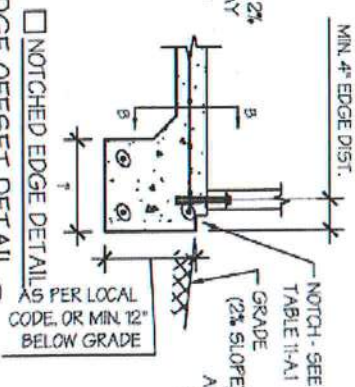
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 27".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



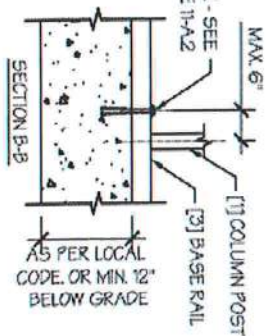
14GÅ SECTION A-A



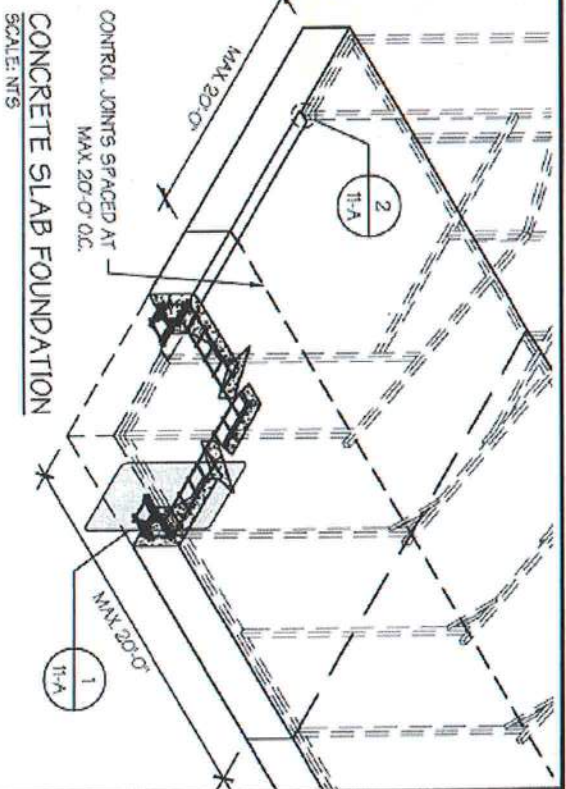
12GA SECTION A-A



AS PER LOCAL
CODE, OR MIN. 12"
BELOW GRADE



SECTION B-B



CONCRETE SLAB FOUNDATION

SCALE: NTS

CONTROL JOINTS SPACED AT
MAX 20'-0" O.C.

Real Steel Metal Buildings

ENGINEERED BY:



AKA ENGINEERING

CIVIL • STRUCTURAL

6036 Renaissance Place, Toledo, OH 43622
Tel. 419-292-1983 • Fax 419-292-0965

www.aacnurses.com

DRAWING INFORMATION

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

PROJECT NO.: 356-21-0028

SHEET TITLE:

FOUNDATION OPTION 1:

CONCRETE SLAB

SHEET NO.: 11-A / 11

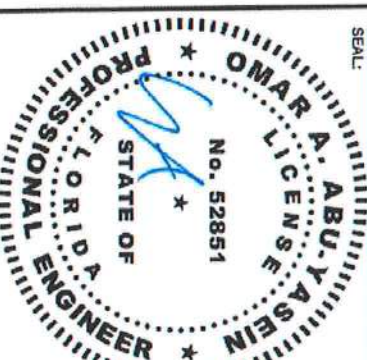
DRAWN BY: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

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**

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL
6005 Peachtree Place, Atlanta, GA 30328
Tel: 404.592.1888 • Fax: 404.592.0635
www.aandae.com

DRAWING INFORMATION

PROJECT: 22'-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: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

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.

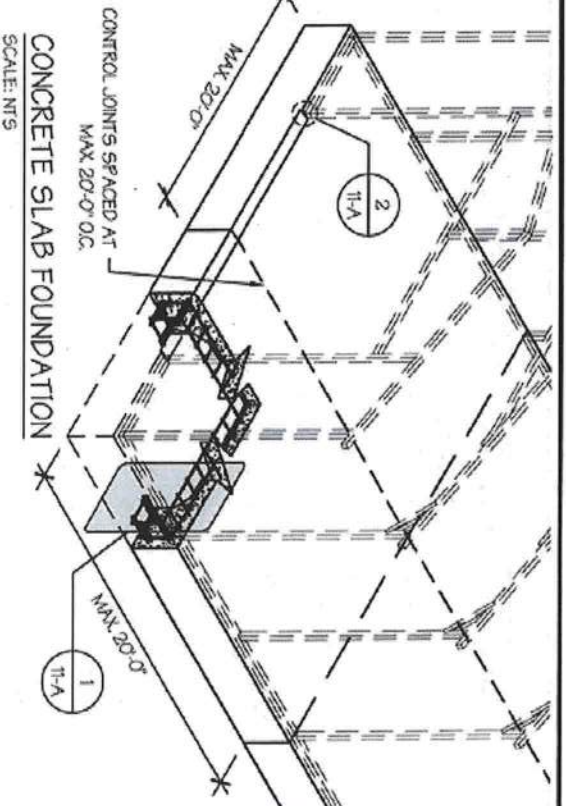
SEAL:



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

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. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- 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 1/2" FOR 14GA MATERIAL AND 1" FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED 50' AS TO LIMIT MAX. SLAB SPAN 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.

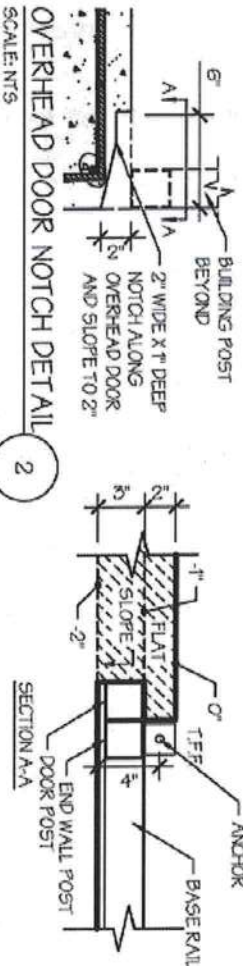


CONCRETE SLAB FOUNDATION
SCALE: NTS

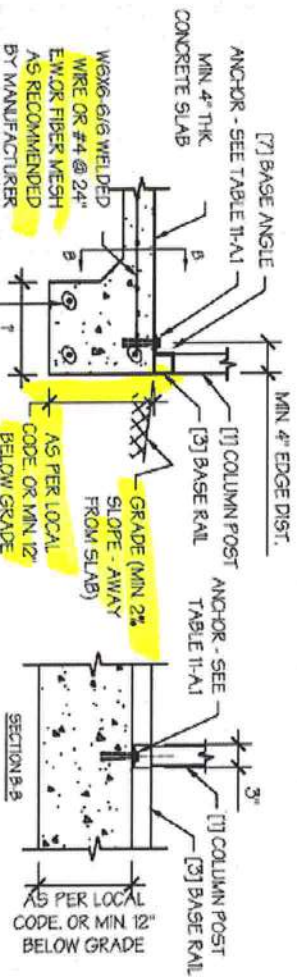
TABLE 11-A.1: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	105 TO 135	(1) 1/2" X 7"
	136 TO 160	(2) 1/2" X 7"
OPEN	105 TO 135	(1) 1/2" X 7"
	136 TO 160	(2) 1/2" X 7"

- NOTES:
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 - MIN. EMBEDMENT DEPTH TO BE 2x.
 - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



OVERHEAD DOOR NOTCH DETAIL
SCALE: NTS



EDGE FLUSH DETAIL
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"
	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 26".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

TABLE 11-B.2: CONC. STRIP SCHEDULE

WIND SPEED (MPH)	MIN. SIZE
105 TO 130	12" X 12"
131 TO 155	12" X 12"
156 TO 180	26" X 12"
	21" X 15"
	18" X 18"

NOTES:

1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.

FOOTING OPTIONAL AT OPEN END WALLS AND OVERHEAD DOOR OPENINGS

CONCRETE STRIP FOUNDATION
SCALE: NTS

11-B

[1] COLUMN POST

ANCHOR - SEE TABLE 11-B.1

[3] BASE RAIL

GRADE (MIN. 2% SLOPE - AWAY FROM SLAB)

(4) #4 REBAR CONT.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

EQ.

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

SEE TABLE 11-B.2

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. 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.

CONCRETE STRIP FOUNDATION DETAIL

SCALE: NTS

1

MANUFACTURED BY:

Real Steel Metal
Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6306 Renaissance Place, Tallahassee, FL 32309
Tel. 904-222-1188 • Fax. 904-222-0855
www.aandengineering.com

DRAWING INFORMATION

PROJECT: 22'-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: AW

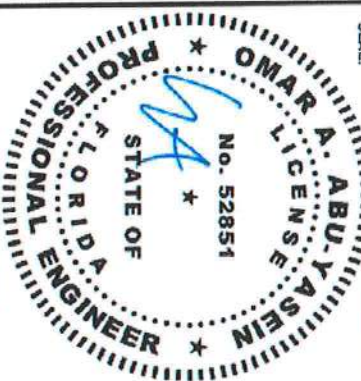
CHECKED BY: OAA

DATE: 1/12/21

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

Real Steel Metal Buildings



6086 Renaissance Place, Toledo, OH 43623
Tel. 419.252.1983 • Fax 419.252.0155
www.aa-figures.com

PROJECT: 22'-0" WIDE BUILDINGS

LOCATION: STATE OF FLORIDA

LOCATION: STATE OF FLORIDA

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

FOUNDATION OPTION 3: CONCRETE PIERS

SHEET NO.: 11-C / 11

DRAWN BY: AW DATE: 1/12/21

CHECKED BY: DAA DATE: 1/12/21

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

TABLE 1H.C.1: CONC.
PIER SCHEDULE

WIND SPEED (MPH)	MIN SIZE READ
□ 105 TO 130	18"Ø X 36"
□ 140 TO 155	18"Ø X 42"
□ 165 TO 180	18"Ø X 48"

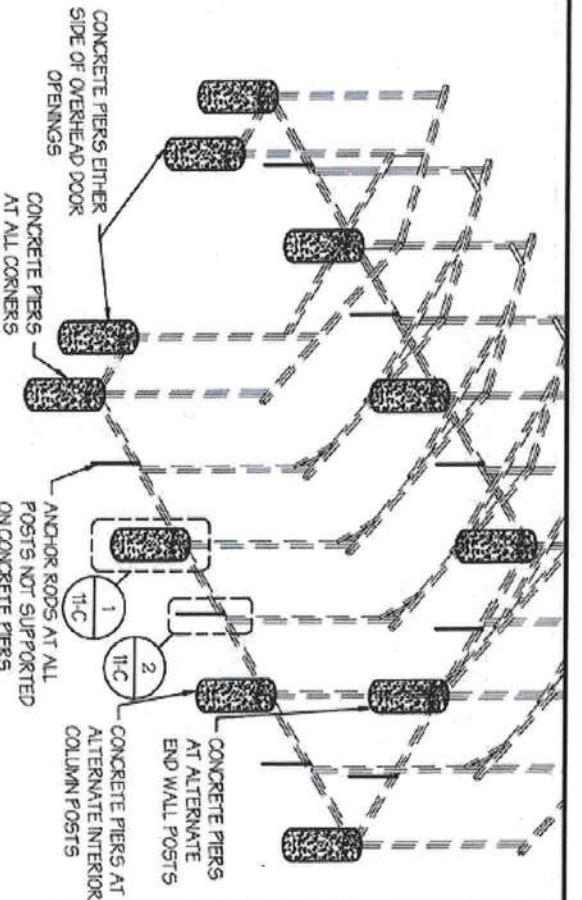


TABLE 11-C.2: ANCHOR SCHEDULE

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"
OPEN	<input type="checkbox"/> 105 TO 135	(1) 1/2" Ø X 7"
	<input type="checkbox"/> 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.

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 36" 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.

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



A&A ENGINEERING
CIVIL - STRUCTURAL
6206 Renaissance Place, Toledo, OH 43623
Tel. 419.992.1583 • Fax. 419.992.4653
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 22'-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: AW DATE: 1/12/21

CHECKED BY: OAA DATE: 1/12/21

LEGAL INFORMATION

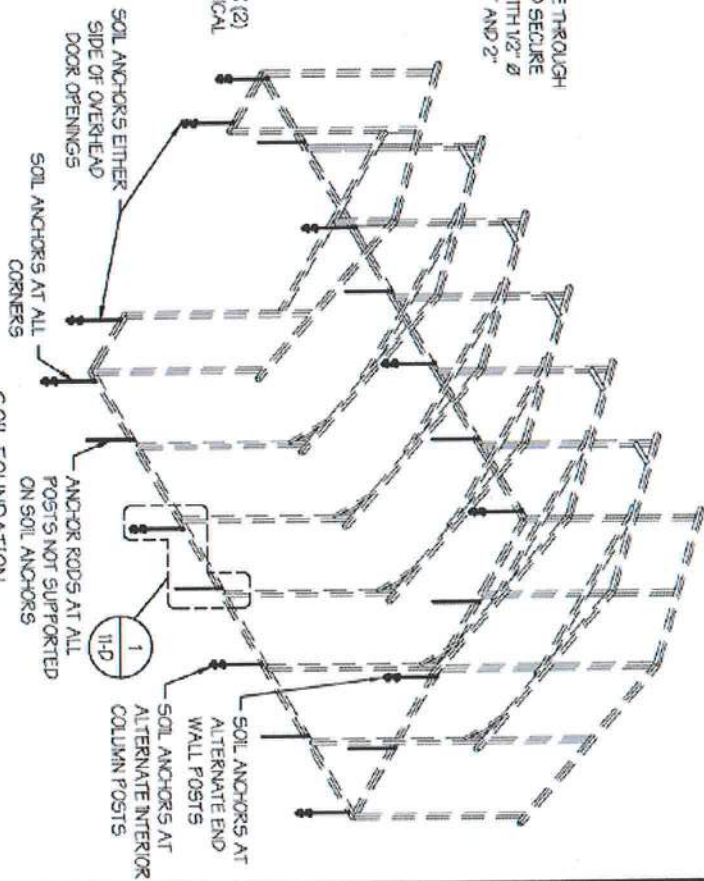
- ANY REPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE

SEAL:

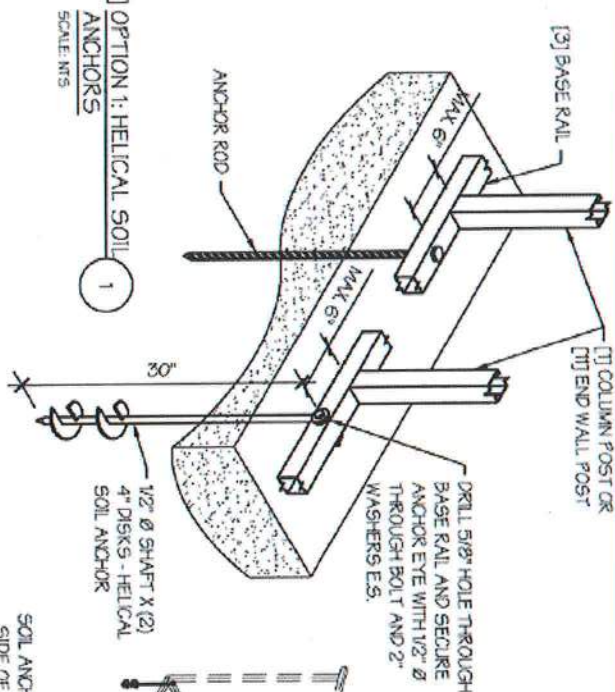


STAMP EXPIRY: FEB 28 2023

DATE SIGNED: JAN 15 2021



☐ OPTION 1: HELICAL SOIL ANCHORS
SCALE: NTS



SOIL FOUNDATION NOTES:

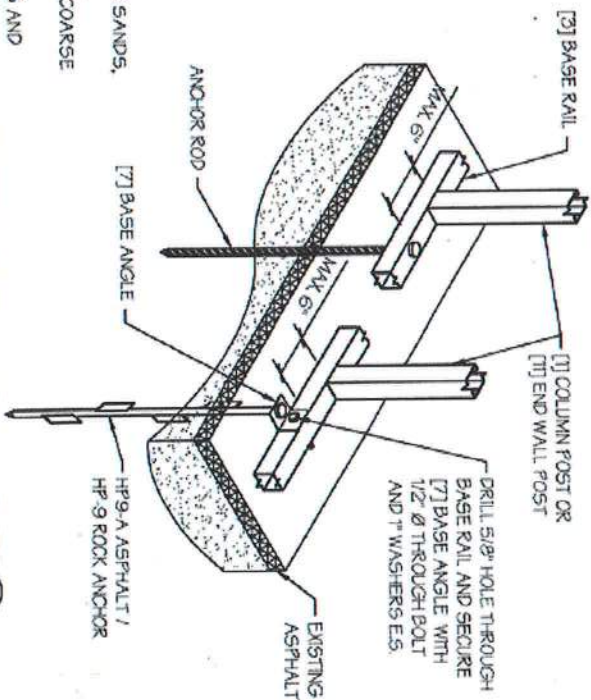
- DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
- SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- HELICAL ANCHORS ARE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

SOIL FOUNDATION SCALE: NTS



☐ OPTION 2: ROCK / ASPHALT ANCHORS
SCALE: NTS