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Real Steel Metal

Buildings



REGULAR / A-FRAME 30'-0" WIDE

CARPORT STYLE BUILDINGS DESIGN CRITERIA

DESIGN NOTES

- 1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, 05HA, AISC 360, AISI 100, ASCE 7-16, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- 2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
- MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING 3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME
- 4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS
- ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQ).
- OR PAINTED STEEL MAIN RIB HT. 3/4" (FY=80KSI) OR EQ. 6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALY
- SHALL BE GRADE 50 STEEL 7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS
- 8. STRUCTURAL TUBE TS2 1/2"X2 1/2" 'AGA. IS EQUIVALENT TO TS2 1/4"X2 1/4" 1/2GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- INTERPOLATION IS ALLOWED. 9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO

UN 4

0.6D + (0.6W OR ±0.7E)

D+ (Lr OR'S)
D+ (O6W OR ±0.7E)
D+ 0.75 (O.6W OR ±0.7E)+0.75 (Lr OR'S)

LOAD COMBINATIONS

PREVAILING CODE:

RISK CATEGORY: USE GROUP:

DEAD LOAD (D)

ROOF LIVE/SNOW LOAD (Lr) (AS PER SNOW LOAD SEE TABLE 4) r = 20 - 61 PSF

EXPOSURE FACTOR IMPORTANCE FACTOR IS = 0.8 GROUND SNOW LOAD THERMAL FACTOR Pg = 20 - 90 PSF Ce = 1.0 Ct = 12

EXPOSURE BASIC WIND SPEED WIND LOAD (W) ROOF SLOPE FACTOR Cs = 1.0 V_{ULT} = 105 - 180 MPH C

SEISMIC LOAD (E)
DESIGN CATEGORY

IMPORTANCE FACTOR 16 = 1.00

(IBC 2016)

D = 4 PSF U (CARPORTS, BARNS)

SPACING SCHEDULES FRAME SECTIONS & DETAILS & ENCLOSURE NOTES

SIDE WALL FRAMING SHEATHING OPTIONS PURLIN & GIRT SCHEDULES & OPENINGS

FOUNDATION OPTIONS END WALL FRAMING OPTIONAL LEAN-TO ADDITION CORNER BRACING DETAILS & OPENINGS 11-A TO 11-D 8-A, 8-B 0

DRAWING INDEX 7-A, 7-B DEPARTMEN (A CI N CHECKED BY: OAA DRAWN BY:

COLUMBIA COUNTY PULL Received

ENGINEERED BY:

105 Remaissance Place, Toledo, OH 43023 Tel. 419-292-1983 • Fax. 419-292-0955 www.ta-esignocen.com CIVIL · STRUCTURAL

A&A ENGINEERING

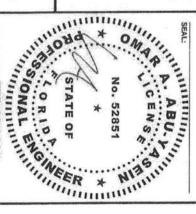
DRAWING INFORMATION 30'-0" WIDE BUILDINGS

PROJECT NO.: 356-21-0028 SHEET TITLE: LOCATION: STATE OF FLORIDA SHEET NO .: AW. COVER SHEET 1/11 DATE: 1/19/21

LEGAL INFORMATION DATE: 1/19/21

ANY DUPLICATION OF THIS DRAWNG IN WHOLE OR PART IS STRUCTLY FOREIDDEN, ANYONE DOING SO WILL BE PROSECUTED UNDER THE PULL DETENT OF THE LW.

DRAWNINGS VALID UP TO 1 YEAR FROM DATE OF 195UE.



CUSTOMER INFORMATION

ADDRESS:

GROUND SNOW: ROOF LIVE LOAD: DESIGN LOADS

BASIC WIND SPEED

HEIGHT:

WIDTH: LENGTH: TYPE

BUILDING INFORMATION FRAME TYPE:

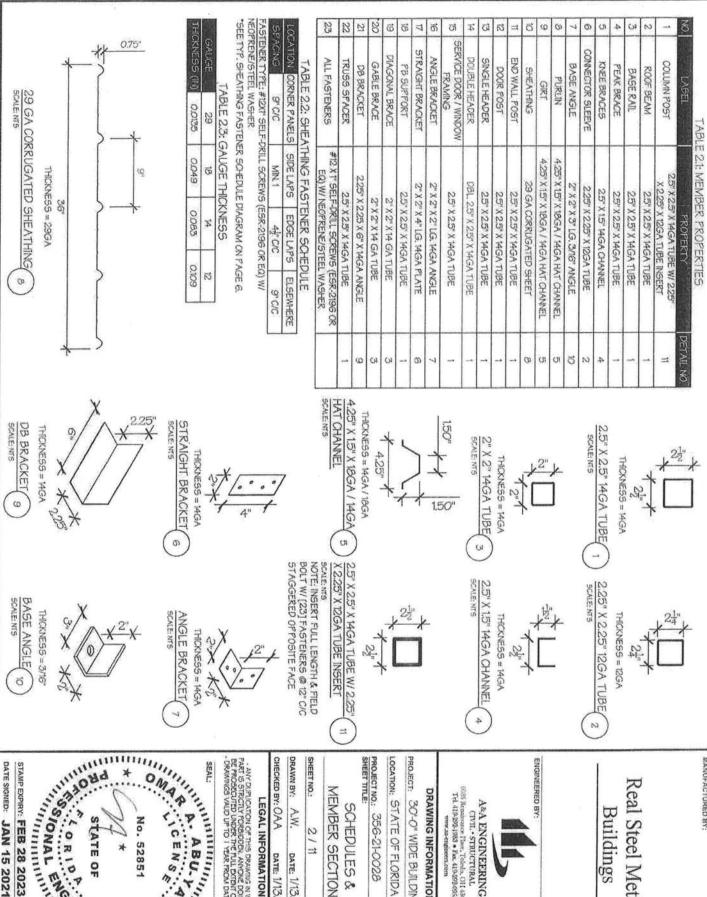
☐ A-FRAME ☐ REGULAR D FULL

D PARTIAL EXPIRATION: JAN 15 2022

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

DATE SIGNED: JAN 15 2021 STAMP EXPIRY: FEB 28 2023 CERTIFICATION VALIDITY
NOTICE

33



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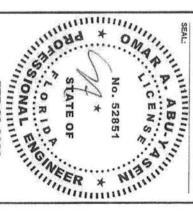
A&A ENGINEERING CIVIL - STRUCTURAL GUSS Reminusce Fine, Toledo, OH 43023 Tel 419-20-2168 - Fin. 419-20-2055 www.as-engineers.com

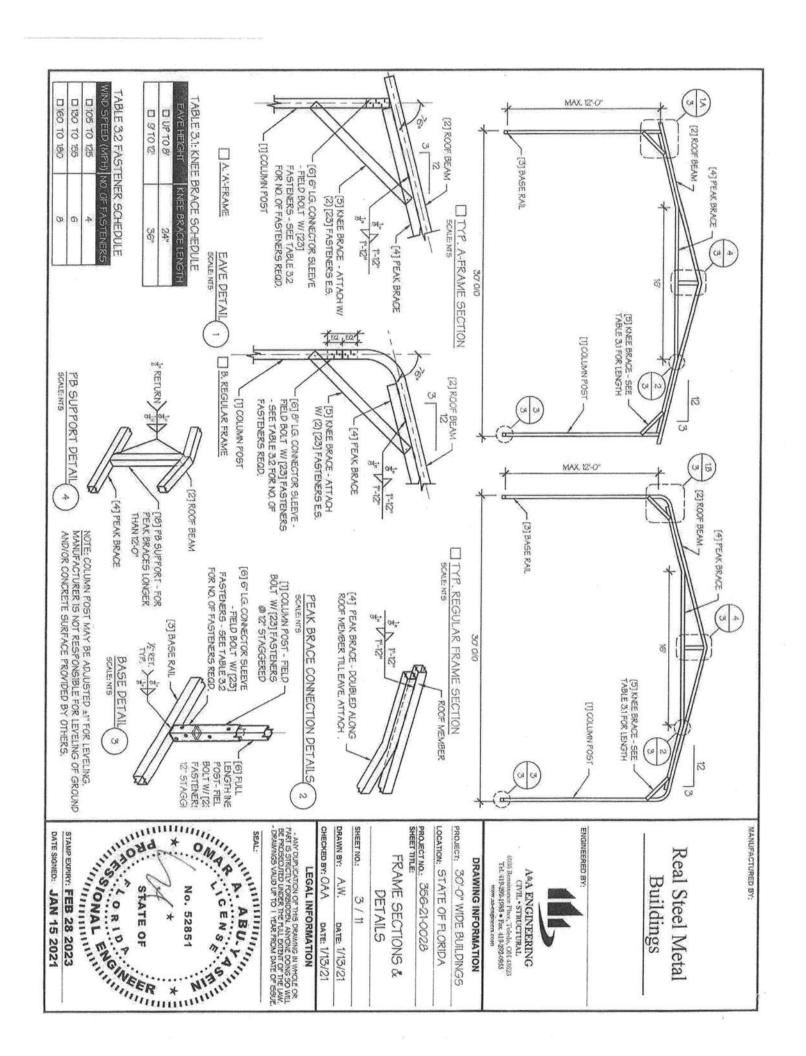
DRAWING INFORMATION

PROJECT NO.: 356-21-0028 SHEET TITLE: LOCATION: STATE OF FLORIDA MEMBER SECTIONS 30'-0" WIDE BUILDINGS SCHEDULES & AW. 2/11 DATE: 1/13/21

LEGAL INFORMATION DATE: 1/13/21

ANY DUPING MATTER THE STRAIN OF MATTER THE STRAIN OF THE STRAIN STRAIN STRAIN STRAIN STRAIN OF THE S





GROUND

TABLE 4: FRAME SPACING CHART / SCHEDULE

GROOM			- ENGLO	ENCLOSED BUILDINGS	DINGS					■ OPE	OPEN BUILDINGS	GS		
ROOF LIVE			WINC	WIND SPEED (MPH)	WPH)					WINC	WIND SPEED (MPH)	NPH)		-
LOAD (PSF)	0.05	口的	0210	04:0	0.65	□165	DiBO	005	0115	030	D140	명	0.65	100
□30/20	60	60	54/60	54	48	42/48	36/42	22	48/54	42/48	42	36/42	36	8
040/27	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42	36/42	36	8
D50/34	40/48	40/48	40/48	40/48	40/48	40/48	36/42	40/42	40/42	40/42	40/42	36	36	8
□ 60/41	36/42	36/42	36	36	36	36	36	36	36	8	8	8	8	24
070/47	32/36	32/36	32/36	32/36	30	30	30	38	30	30	24	24	24	24
080/54	24	24	24	24	24	24	24	24	24	24	24	24	24	
□ 90 / 61	8	18	6	16	37.	1		Øi.	60		1			
□30/20	80.	80	54/60	6 4	48	42/48	36/42	54	48/54	42/54	42/48	36/42	36/42	30/36
040/27	48/60	48/60	42/60	48/54	48	42/48	36/42	48	48	42/48	42/48	36/42	36/42	30/36
050/34	40/54	40.54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	40/42	36/42	36	30/36
0 60 / 41	36/48	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	30/36
070/47	32/36	32/36	32/36	32/36	32/36	30	30	8	30	30	30	30	30	24
□80/54	30	30	30	30	30	30	30	24	24	24	24	24	24	24
090/61	24	24	24	24	24	24	24	8	8	Ö	8	8	<u>Q</u>	Ö,
□30/20	60	8	54/60	54	48	42/48	36/42	54	48/54	42/54	42/54	36/48	36/48	30/36
040/27	48/60	48/60	42/60	42/54	42/48	42/48	36/42	48	48	42/48	42/48	36/48	36/48	30/36
050/34	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	40/42	36/42	36/42	30/36
□ 60 / 41	36/48	36/48	36/48	36/48	36/42	36/42	36/42	36	36	36	36	36	36	30/36
□70/47	32/42	32/42	32/36	32/36	32/36	32/36	30	32/36	32/36	88	30	30	35	24
□80/54	30/36	30/36	30/36	30/36	30/36	30	30	30	30	8	36	30	24	24
□90/61	30/36	30/36	8	30	8	30	35	24	24	24	24	•	***	100

EAVE HEIGHT = 7'-0" 10 9'-0"

■ EAVE HEIGHT = 10-0" TO 12'-0"

EAVE HEIGHT UP TO 6'-0"

NOTES.

1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).

1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).

2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.

3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF), WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).

4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

ENCLOSURE CLASSIFICATION

- 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.
- SFT 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 TEND-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.

CA

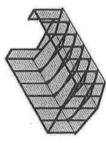
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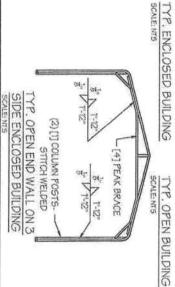
0 FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS

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).







Real Steel Metal Buildings

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DRAWING INFORMATION

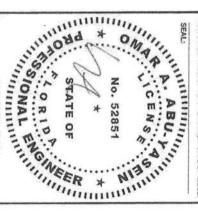
PROJECT NO.: 356-21-0028 SHEET TITLE: LOCATION: STATE OF FLORIDA PROJECT: 30'-0" WIDE BUILDINGS

SPACING SCHEDULES & ENCLOSURE NOTES

CHECKED BY: OAA DRAWN BY: SHEET NO.: AW. 4/11 DATE: 1/13/21 DATE: 1/13/21

LEGAL INFORMATION

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



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

TABLE 5.1: PURLIN SPACING SCHEDULE

_			ING		5F 5-0		SEC.			INC	t e	SF 1'-6	ME. ■ ∠	RA	F	Э:	INC	PAC	5F	ME E	RΛ	Į.	3 :	INC	'AC	SI 8-6	ME	RA	F	S.	INC ER	'AC	SF	ME)" C	RA1 3'-0	H
ROOF LIVE	LOAD (PSF)	□30/20	D 40/27	050/34	0 60/41	070147	080/54	19/08	030/20	D 40/27	050/34	0 60/41	0 70 / 47	□ 80/54	0 90/61	030/20	E 40/27	050/34	0 60/41	0 70 / 47	□ 80/54	□ 90/61	030/20	D 40/27	050/34	0 60 / 41	0 70 / 47	080/54	0 90/61	030/20	0 40 / 27	050/34	0 60/41	070/47	080/54	190/61
	80	54	42	40	38	32	30	24	54	42	40	36	32	32	8	\$	42	40	36	32	32	30	27	42	40	36	32	32	30	40	42	40	36	32	33	30
M	하ㅁ	48	42	8	36	32	8	24	48	42	40	8	32	35	30	48	42	40	36	32	32	30	48	42	40	36	32	32	8	48	42	40	(SI (S)	32	33	8
WIND SPEED (MPH)	<u>8</u> 0	42	42	8	36	32	8	24	42	42	40	36	32	33	30	42	42	40	36	32	32	30	42	42	8	36	32	32	30	42	42	40	8	32	S	8
GEED	□ ₹	90	36	36	36	32	30	24	42	42	40	36	32	32	30	42	42	40	36	32	32	35	42	42	40	36	32	32	30	42	42	40	36	32	32	3
EZW)	양ㅁ	8	30	8	8	8	30	24	36	8	36	36	32	32	30	36	36	36	36	32	32	8	36	8	98	36	32	32	30	36	36	36	36	32	32	8
	<u>g</u>	24	24	24	24	24	24	24	88	8	8	8	30	30	30	36	36	36	36	32	32	30	36	36	36	36	32	32	8	36	36	36	36	32	32	8
	80	24	24	24	24	24	24	24	30	8	30	8	8	30	30	30	30	30	30	90	30	35	30	8	30	30	8	3	8	8	30	8	8	30	30	8
	80	36	30	24	6	8	to	22	48	42	8	30	24	Ö	Ø,	27	42	40	36	30	24	24	54	42	40	36	32	32	8	2	42	40	36	32	32	30
*	히ㅁ	8	30	24	Ö	Ö	Ø	13	36	36	8	8	24	岛	8	48	42	40	36	30	24	24	48	42	40	36	32	32	8	48	42	40	36	32	32	8
S ONL	<u> </u>	24	24	24	53	8	63	22	8	8	8	8	24	16	8	36	36	36	36	8	24	24	42	42	40	36	32	32	8	42	42	8	36	32	32	8
PEED	T0	œ.	ळ	Q;	ã	6	Ö	12	24	24	24	24	24	6	6	30	30	30	8	33	24	24	42	42	40	36	32	32	8	42	42	4	30	33	35	30
WIND SPEED (MPH)	80	ö	Ġ	ġ.	ä	ä	ö	63	<u>0</u>	Ö	(G)	03	8	Ø	92	24	24	24	24	24	24	24	36	36	36	36	32	32	8	36	36	8	36	32	32	8
	80	ß	r3	23	tz	rs	73	12	Ø,	Ø,	65	<u>0</u>	23	Ö	8	24	24	24	24	24	24	24	3	3	30	30	8	30	8	36	36	36	8	32	33	8
	80	73	23	iii	13	12	63	63	12	53	13	Ø	12	23	22	g,	is	8	ä	63	8	9	30	8	8	8	30	30	8	30	8	30	30	83	8	33

TABLE 5.2: GIRT SPACING SCHEDULE

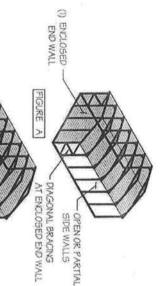
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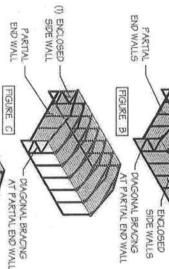
FRANE		¥	NO S	WIND SPEED (MPH	(MP	E	
SPACING	05 100	<u></u>	<u>छ</u> ∎	云: - - - -	155 155	<u>165</u> ∎	100
05-0°	80	48	36	3	24	24	8
D4-6"	8	8	48	42	36	30	24
D.4-0"	99	60	\$	54	42	8	8
03.6	8	60	\$	\$	48	42	42
D2-0103-0*	8	8	27	\$	48	42	42

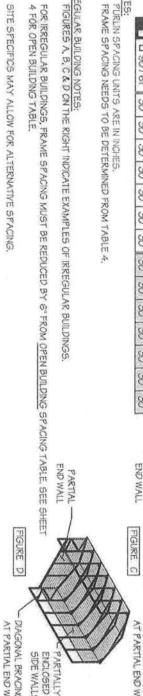
- NOTES:

 1. GRT SPACING UNITS ARE IN INCHES.

 2. THIS SCHEDULE IS TO BE USED FOR BOTH
 14GA AND 18 GA PURLINS.
- FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.







CHECKED BY: OAA LEGAL INFORMATION DATE: 1/13/21

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

DIAGONAL BRACING AT PARTIAL END WALL SIDE WALLS

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

SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.

4 FOR OPEN BUILDING TABLE

IRREGULAR BUILDING NOTES:

1. FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.

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ENGINEERED BY:

5035 Rennissance Pare, Toledo, OH 43023 Tel. 449-492-1983 • Fax. 419-299-0955 A®A ENGINEERING CIVIL · STRUCTURAL

DRAWING INFORMATION www.na-engineers.com

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

DRAWN BY: SHEET NO .: SPACING SCHEDULES N.W. 5/1 DATE: 1/13/21

No. 52851

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No. 52851

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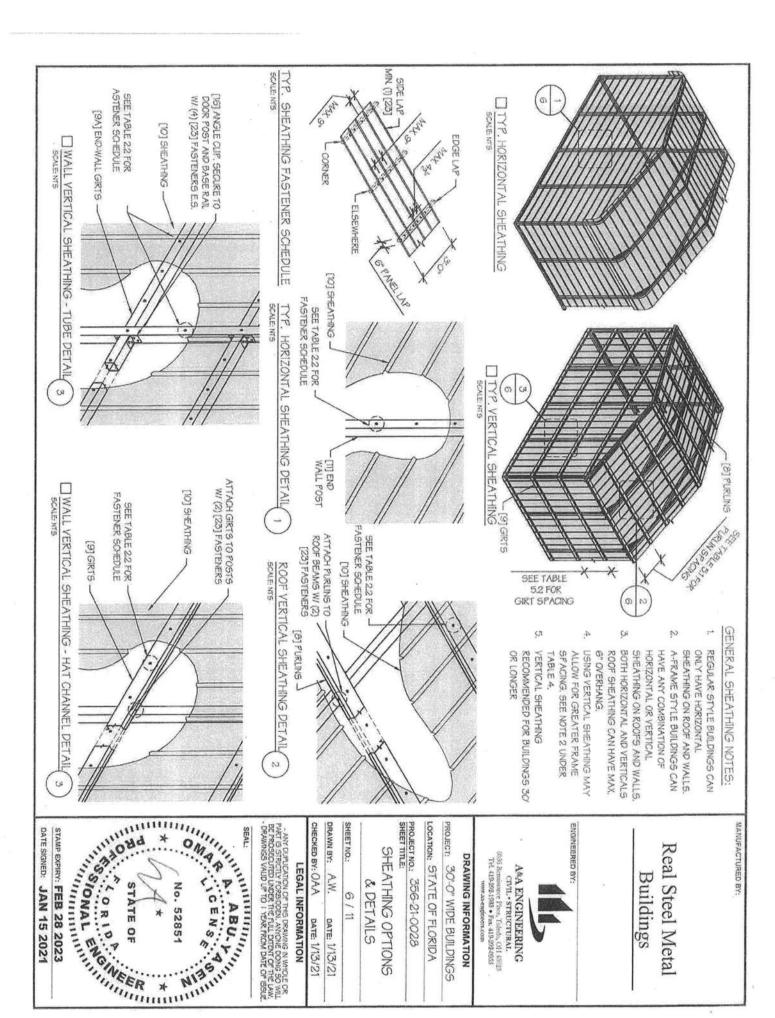
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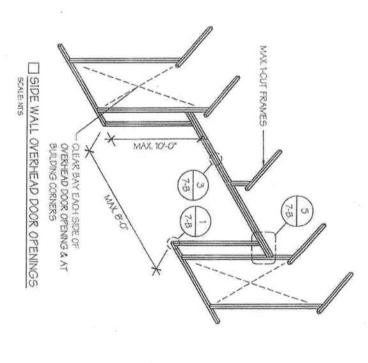
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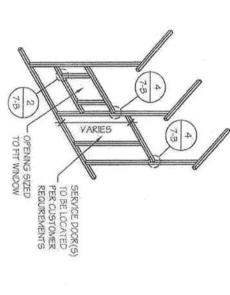
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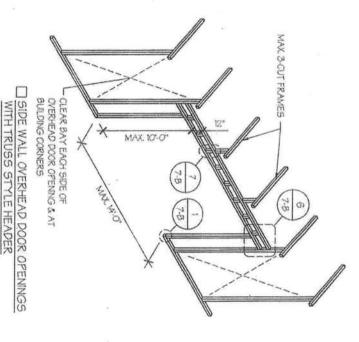
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SIDE WALL SERVICE DOOR / WINDOW OPENINGS



SIDE WALL FRAMING NOTES:

SCALE: NTS

- 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.
- 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.
- 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.

FL)

- 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.

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

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MANUFACTURED BY:

ENGINEERED BY:



CIVIL • STRUCTURAL

GR26 Remissader Place, Tolodo, OH 43023
Tel. 419-202-1988 • Fax. 419-202-0955

www.an-engineers.com

DRAWING INFORMATION

PROJECT:

30'-0" WIDE BUILDINGS

PROJECTINO: 356-21-0028

SIDE WALL FRAMING

SHEET NO.: 7-A / 11

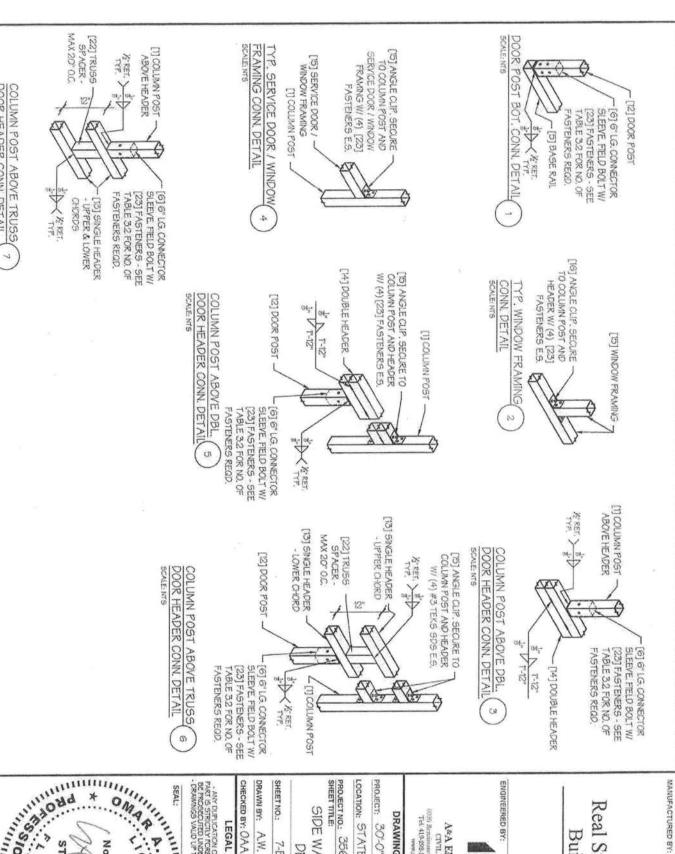
& OPENINGS

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

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ENGINEERED BY:

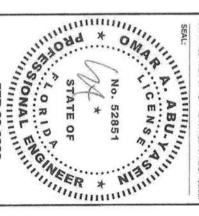
(30%) Semissance Phote, Tubedo, Olf 1,3823 Tel 419-298-1983 • Fax. 419-292-2835 www.na-engineers.com A&A ENGINEERING CIVIL - STRUCTURAL

PROJECT: DRAWING INFORMATION 30'-0" WIDE BUILDINGS

PROJECT NO.: 356-21-0028 SHEET TITLE: CHECKED BY: OAA LOCATION: STATE OF FLORIDA DRAWN BY: SHEET NO .: SIDE WALL FRAMING 28 7-B / 11 DETAILS DATE: 1/13/21 DATE: 1/13/21

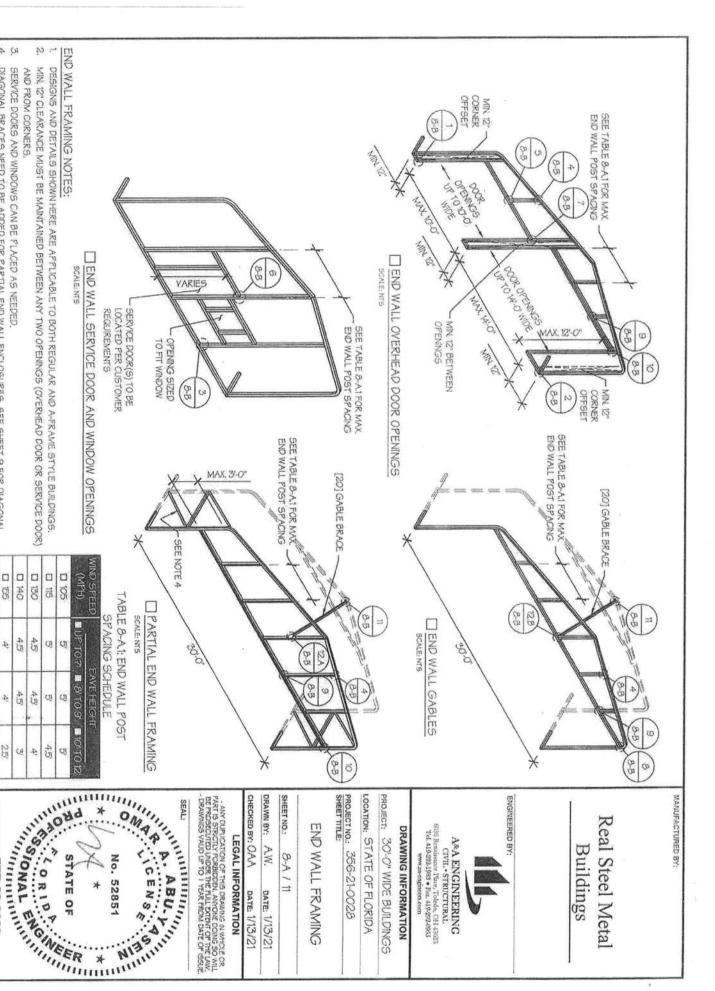
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- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE



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

DOOR HEADER CONN. DETAIL



DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL

□ 165 - 180

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N

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

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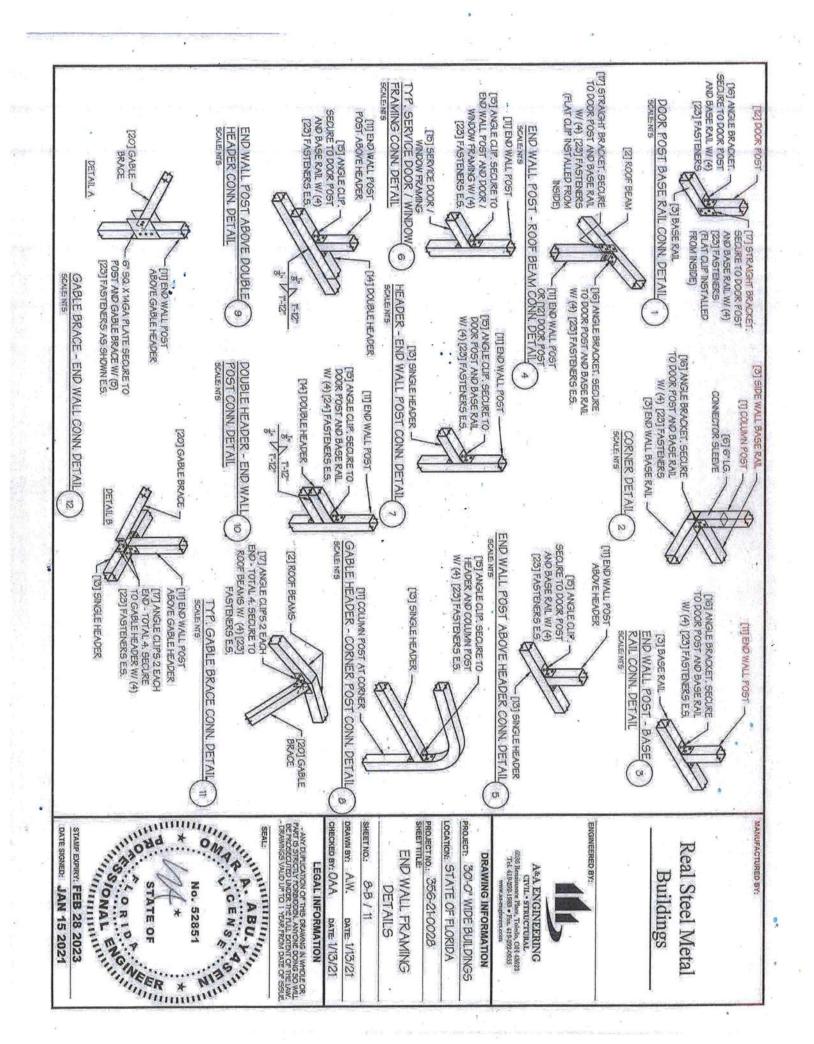
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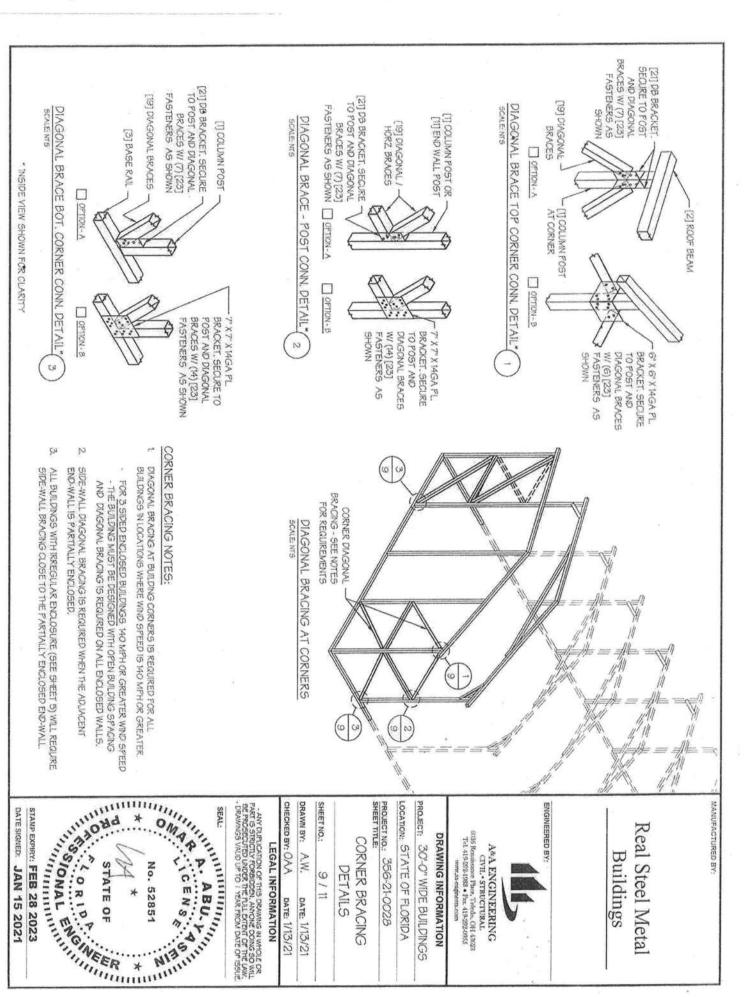
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C)

SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED

BRACE CONNECTION DETAILS





CORNER BRACING

DETAILS 9/11

LEGAL INFORMATION

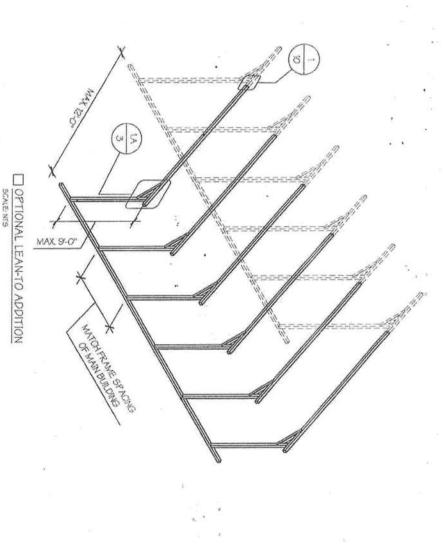
DATE: 1/13/21 DATE: 1/13/21

A.W.

30'-0" WIDE BUILDINGS

A&A ENGINEERING

Buildings





[I] COLUMN POST

LEAN-TO ADDITION NOTES:

[6] 6" LG. CONNECTOR SLEEVE -FIELD BOLT W [23] FASTENERS ES. - SEE TABLE 32 FOR NO. OF

[2] ROOF BEAM -

[6] 12" LG, CONNECTOR SLEEVE -FIELD BOLT TO BOTH TUBES W/ [23] FASTENERS - SEE TABLE 3.2 FOR NO. OF FASTENERS REGD.

[2] ROOF BEAM -

FASTENERS REQU.

- 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.
- 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.

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

CI

Real Steel Metal Buildings MANUFACTURED BY:

ENGINEERED BY:



A&A ENGINEERING

9036 Renaissance Place, Toledo, OH 43533 Tel. 419-592-1983 • Fax. 419-592-0955 1889/an-engineers-com

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: O.A.A. DATE: 1/13/21

LEGAL INFORMATION

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



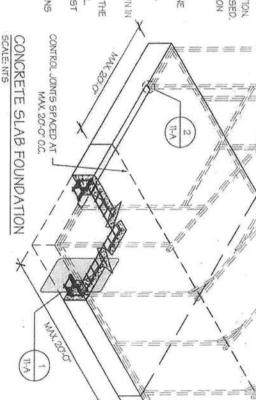


- N DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU D CAN BE USED
- BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH
- 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 II-A.2
- ÇI BUILDING PLUS 52 FOR 14GM MATERIAL AND 52 FOR 12GA MATERIAL THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX, SLAB SPANS DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE

(5)

ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF TO 20' IN EACH DIRECTION

CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



SCALE: NTS OVERHEAD DOOR NOTCH DETAIL BUILDING POST OVERHEAD DOOR NOTCH ALONG AND SLOPE TO 2"

IAL	ABLE II-A.I: NOICH WIJIH	NOICHW	PII	
HORIZON	ORIZONTAL/OPEN	YER	VERTICAL	
D 14GA	□12GA	D HGA	D 12GA	
2 5/40	27/8"	17/4"	17/9"	

CH 10

FROM POSTS.

MIN. EMBEDMENT DEPTH TO BE 28°

EXPANSION ANCHORS

NOTE: DEPTH IS TO BE I 1/2"

CRETE SLAB

BY MANUFACTURER EW, OR FIBER MEST W6X6-6/6 WELDED

AS RECOMMENDED WIRE OR #4 @ 24"

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

NOTCHED EDGE DETAIL AS PER LOCAL
CODE. OR MIN 12"
BELOW GRADE

000 0

2

STANDARD EDGE DETAIL

SCALE: NTS

EDGE OFFSET DETAIL

SECTION B-B

DATE SIGNED: JAN 15 2021

(3) #4 REBAR CONT.

MN 4" TK

ANCHOR - SEE TABLE 11-A.2

[3] BASERAIL

SLOPE - AWAY FROM SLAB)

GRADE

[1] COLUMN POST

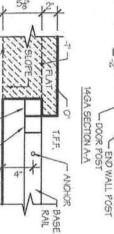
MIN 4" EDGE DIST.

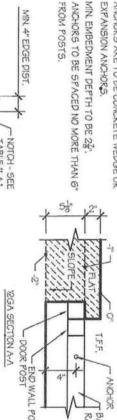
SLAB ANCHOR SCHEDULE TABLE 11-A2: CONCRETE

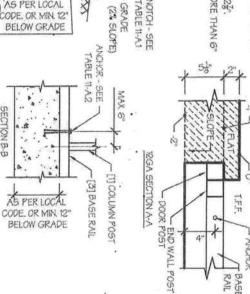
ENCLOSURE

ENCLOSED

	(Z) VZV X7	□136 TO 180	
	(1) VZ'Ø X 7	0105 10 135	OPEN
十二次	(Z) 1/2"Ø X 7"	08: 01 9SID	Vaccour.
54	(1) V2"Ø X7"	0105 10 135	COSED
A ZZZZE	ANCHOR SIZE/NUMBER	WIND SPEED (MPH)	CLOSURE







Real Steel Metal Buildings

MANUFACTURED BY:

ENGINEERED BY:



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DRAWING INFORMATION

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

TEE

ANCHOR

RAIL -BASE

PROJECT NO.: 356-21-0028 SHEET TITLE: FOUNDATION OPTION 1:

SHEET NO .: CONCRETE SLAB 11-A / 11

LEGAL INFORMATION

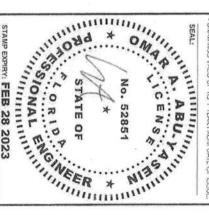
CHECKED BY: OAA

DATE: 1/13/21 DATE 1/13/21

DRAWN BY:

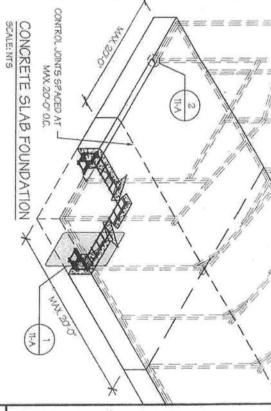
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- DRAWINGS VALID UP TO I YEAR FROM DATE OF ISSUE



CONCRETE SLAB FOUNDATION NOTES:

- FOUNDATION ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB C CAN BE USED
- CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS, TWO ANCHORS SHALL BE INSTALLED WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON
- SPACING ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4"
- Ų THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF IN TABLE II-AJ MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN
- 0 DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN THE BUILDING PLUS & FOR 14GA MATERIAL AND 1" FOR 12GA MATERIAL
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB FROST DEPTH SPECIFIED PER LOCAL CODE.
- Co ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN, OF 1500 PSF SPANS TO 20' IN EACH DIRECTION.
- 0 CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS



SLAB ANCHOR SCHEDULE TABLE 11-A.1: CONCRETE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
EXPLOSED	0105 10 135	"TX Ø"SU (I)
CINCLOSED	D81 01 981D	(2) 1/2"ØX7"
Option	□105 T0 135	(I) 1/2 Ø X 7"
OF EIN	DI36 TO 180	(2) UZ'ØX7

ANCHOR

BASERAI

NOTES:

ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.

SCALE: NTS

CONCRETE SLAB

NN.A.TH

ANCHOR - SEE TABLE 11-A1 -

[7] BASE ANGLE -

MIN 4" EDGE DIST.

[I] COLUMN POST [3] BASE RAIL

ANCHOR - SEE

[I] COLUMN POST - [3] BASE RAIL

TABLE II-AI

BY MANUFACTURER E.W.OR FIBER MESH

(3) #4 REBAR CONT. L

DEDGE FLUSH DETAIL

CODE, OR MIN. 12" BELOW GRADE

SECTION B-B

AS PER LOCAL CODE OR MIN 12

BELOW GRADE

AS PER LOCAL

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

SCALE: NTS

DATE SIGNED: JAN 15 2021

AS RECOMMENDED

W6X6-6/6 WELDE

WIRE OR #4 @ 24

0

0

OVERHEAD DOOR NOTCH DETAIL

N

SECTION A-A

DOOR POST

BEYOND

BUILDING POST

NOTCH ALONG OVERHEAD DOOR

2" WIDE X I" DEEP

AND SLOPE TO 2"

MIN. EMBEDMENT DEPTH TO BE 28".
ANCHORS TO BE SPACED NO MORE THAN 6"

MANUFACTURED BY:

Real Steel Metal Buildings

ENGINEERED BY:



Fel. 419-292-1983 • Fax. 419-292-0835

DRAWING INFORMATION 30'-0" WIDE BUILDINGS

PROJECT:

PROJECT NO.: 356-21-0028 SHEET TITLE: LOCATION: STATE OF FLORIDA

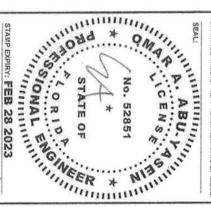
FOUNDATION OPTION 1:

DRAWN BY: SHEET NO .: CONCRETE SLAB AW. 11-4/11 DATE: 1/13/21

CHECKED BY: OAA LEGAL INFORMATION DATE: 1/13/21

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- DRAWINGS VALID UP TO I YEAR FROM DATE OF ISSUE.

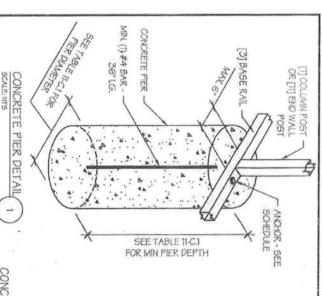


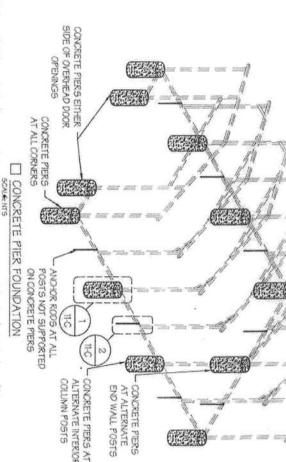
S N 7900 4 CONCRETE STRIP FOUNDATION NOTES: NOTES: WIDTH AND DEPTH DIMENSIONS CAN □165 TO 日140 10 155 D105 TO 130 ENCLOSED TABLE 11-B.1: ANCHOR SCHEDULE TABLE 11-8.2: CONC STRIP SCHOOLE OPEN MIN NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER MIN. EMBEDMENT DEPTH TO BE 28 DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL, IN LOCATIONS DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP FOUNDATION, ANY BE INTERCHANGED. FROM POSTS. ANCHORS TO BE SPACED NO MORE THAN 6" EXPANSION ANCHORS. ANCHORS ARE TO BE CONCRETE WEDGE OR BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION SPECIFIED PER LOCAL CODE. SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF. THE COLUMN POST. 18 005 10 135 DI36 TO 180 □ 105 TO 135 DIS6 10 180 WIND SPEED MIN SIZE 24 × 15 20 × 16 24" X 12" 15" X 12" SIZE/NUMBER (2) 1/2"ØX7" (2) 1/2"ØX7 (I) V2"ØX7" (I) 1/2°ØX7 FOOTING OPTIONAL AT OPEN END WALLS AND OVERHEAD DOOR OPENINGS CONCRETE STRIP FOUNDATION DETAIL GRADE (MIN. 2% (4) #4 REBAR CONT. SLOPE - AWAY FROM SLAB) [1] COLUMN POS 品 111 SCALE: NTS CONCRETE STRIP FOUNDATION 0,4 0 SEE TABLE 11-B-2 E ۵ EQ. 0 0 TABLE 11-B.1 [3] BASE RAIL SEE TABLE 11-B.2 CHECKED BY: OAA PROJECT NO.: 356-21-0028 SHEET TITLE: LOCATION: STATE OF FLORIDA MANUFACTURED BY: PROJECT: - ANY DUPLICATION OF THIS DRAWING IN WHOLE OR FART IS STRICTLY FORBIDDEN, ANYONE DOING SO WILL BE PRODUCTION OF THE LAW. - DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE. DRAWN BY: SHEET NO .: STAMP EXPIRY: FEB 28 2023 FOUNDATION OPTION 2: Real Steel Metal 6035 Strasissance Place, Toledo, OH 4305 Tel. 419-292-1983 • Fax. 419-292-0955 DRAWING INFORMATION CONCRETE STRIP 30'-0" WIDE BUILDINGS A&A ENGINEERING LEGAL INFORMATION A.X Buildings 11-B / 11 ince Phre, Toledo, OH 43620

DATE: 1/13/21 DATE: 1/13/21

SCALE: NTS

DATE SIGNED: JAN 15 2021





CONCRETE PIER FOUNDATION NOTES:

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

ALTERNATE INTERIOR COLUMN POSTS AND END WALLS ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON CONCRETE PIERS SHALL BE LOCATED AT ALL 4 CORNERS

ANCHOR ROD

ÇA)

[3] BASE RAIL

[1] COLUMN POST OR [11] END WALL POST

BASE RAIL IN LOCATIONS REQUIRING TWO ANCHORS DUE TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF COLUMN POST WITH A PIER ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE

ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A ZEN 4" OF ACINO. Ç1

MIN, NUMBER OF CONCRETE ANCHORS PER POST WITH A

ÇJI 4

BRACING. PIER SHALL BE AS SHOWN IN TABLE 11-A.2. TWO ANCHORS AND A PIER ARE REQUIRED AT DIAGONAL

BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ALL POSTS NOT SUPPORTED ON CONCRETE PIERS SHALL THE TOP AND ONE COAT OF RUST PROOF MATERIAL THREADED ROD. RODS WILL HAVE A PRE-FORMED HEAD AT

SCALE: NTS

ANCHOR ROD INTO SOIL DETAIL

N

~

ABLE 11-C.1: CONC PIER SCHEDULE

00

MIN SIZE

SAME SIZE AS THE PIER ON LEVEL GRADE AND FILLING IT INTO THE PIERS PRIOR TO POURING THE CONCRETE. WITH CONCRETE THRD, ROD ANCHORS SHOULD BE DROPPED PIERS SHALL BE FORMED BY DIGGING A HOLE OF THE

CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28

DATE SIGNED: JAN 15 2021

ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN OF

DI65 TO 180 D140 TO 155 DIOS TO 130 (FINE)

24"Ø X 48" 24° Ø X 42" 24"Ø X 36"

Ö

TABLE 11-B.1: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
מאט טפנט	D105 TO 135	(I) 1/2"Ø X 7"
CHACCOCK	D136 TO 180	(2) 1/2"Ø X 7"
COSTA	D105 TO 135	(I) WZ X X X X
9	08t 01 99tD	(2) WZ''ØX7

EXPANSION ANCHORS. ANCHORS ARE TO BE CONCRETE WEDGE OR

MIN. EMBEDMENT DEPTH TO BE 28"

ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS

Real Steel Metal Buildings

MANUFACTURED BY:



END WALL POSTS AT ALTERNATE CONCRETE PIERS

5026 Reminsoner Place, Taledo, Off 43523 Tel. 419-293-1983 • Fax. 419-292-9555 www.an-engineers.com A&A ENGINEERING

COLUMN POSTS ALTERNATE INTERIOR

DRAWING INFORMATION

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

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

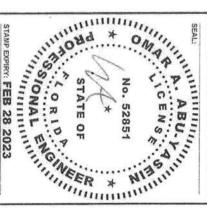
SHEET NO .: FOUNDATION OPTION 3: CONCRETE PIERS 130/11

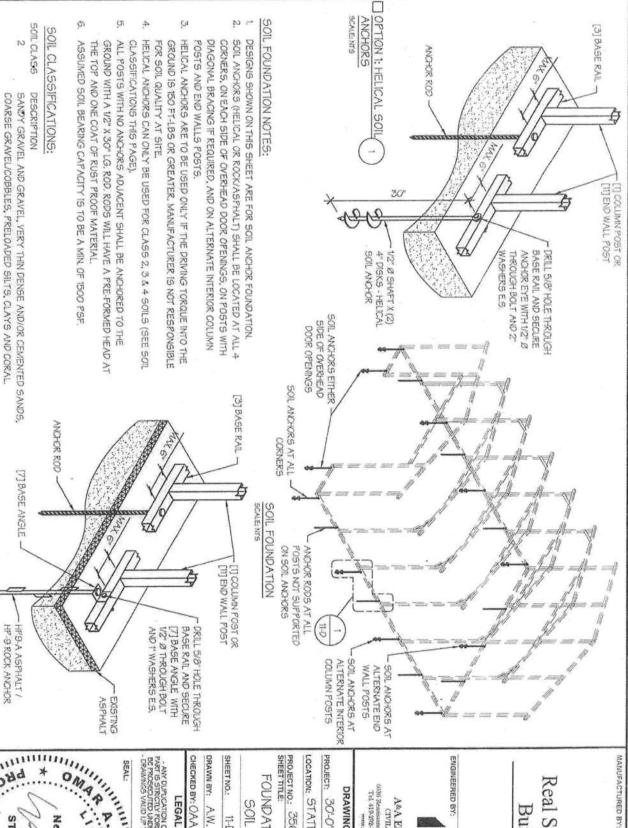
AW.

CHECKED BY: OAA DRAWN BY: DATE: 1/13/21 DATE: 1/13/21

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ENGINEERED BY:



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DRAWING INFORMATION

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

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

FOUNDATION OPTION 4: SOIL ANCHORS

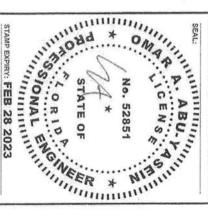
11-0-11

CHECKED BY: OAA DATE: 1/13/21 DATE: 1/13/21

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- DRAWINGS VALID UP TO I YEAR FROM DATE OF ISSUE



"FROM HUD "MODEL MANUFACTURED HOME INSTALLATION STANDARDS

ALLUVIAL FILLS

SANDS, SANDY GRAVEL, YERY STIFF SILT AND SANDY CLAYS.

LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND

OPTION 2: ROCK / ASPHALT ANCHORS

DATE SIGNED: JAN 15 2021

SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE