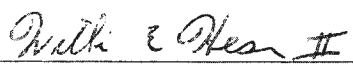


RECEIVED

APR 28 2023

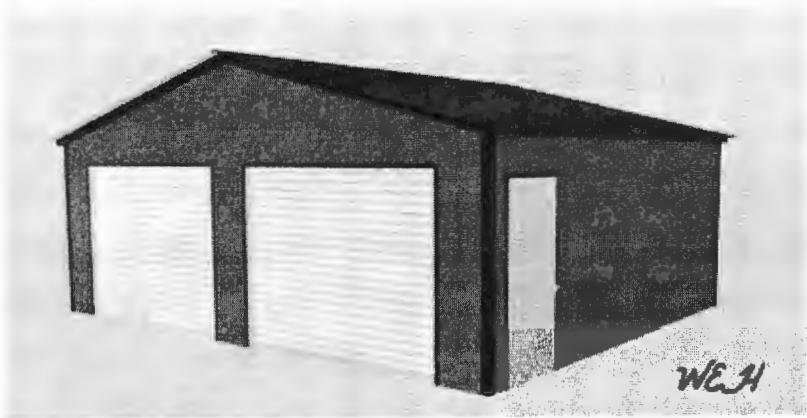
PERMIT NUMBER: B 2300

DATE ACCEPTED:

RESIDENTIAL BUILDING PERMIT APPLICATION					
HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS 3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4 www.howardcountymd.gov					
BUILDING SITE ADDRESS REQUIRED					
Street Address: 3267 Gwenlee Circle				Unit:	
City: Glenwood		State: MD		Zip Code: 21738	
Subdivision/Village/Complex Name: Gwenlee Estates				SDP/WP/BA #:	
Lot: 4	Tax Map: HO 9177	Parcel: 209	Grading Permit #:		
DESCRIPTION OF WORK REQUIRED					
Existing Use: SFD		Proposed Use: CARPORT		Estimated Cost: \$ 10,000	
Trade Work to Be Completed (Separate Permits Required): <input type="checkbox"/> Mechanical (HVACR) <input type="checkbox"/> Electrical <input type="checkbox"/> Plumbing <input checked="" type="checkbox"/> None					
24' Long 20' Deep 8' Tall CARPORT / DETACHED				450 sq ft	
PROPERTY OWNER INFORMATION REQUIRED					
Owner(s) Name(s) (As it appears on tax records): William + Holly Hesen				Primary Residence: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Owner's Street Address: 3267 Gwenlee Circle					
City: Glenwood		State: MD		Zip Code: 21738	
Phone: 410-967-4977		Email: Bill@soyallv.com			
APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION					
Business Name:				Contact Name: William Hesen	
Street Address: 3267 Gwenlee Circle					
City: Glenwood		State: MD		Zip Code: 21738	
Phone: 410-967-4977		Email: Bill@soyallv.com			
CONTRACTOR INFORMATION REQUIRED					
Business Name: Amer. Can Steel Carports					
Licensee's Name:				License #:	
Street Address: 45th N Broadway					
City: Joshua		State: TX		Zip Code: 76058	
Phone: 1-816-230-9865		Email: AMAR.FOZ@AMERICANSTEEL.COM			
ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE					
Business Name: A+A Engineering				Name: OMAR ABU-YASEIN	
Street Address: 6036 RENAISSANCE PLACE					
City: TERRELL		State: OH		Zip Code: 43623	
Phone: 419-292-1983		Email:			
BUILDING CHARACTERISTICS REQUIRED					
Primary Structure: <input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse <input type="checkbox"/> SF Duplex <input type="checkbox"/> Mobile Home <input type="checkbox"/> Multi-Family Dwelling (MF*)					Condo: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Utilities: <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Gas		Water Supply: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private (Well)		Sewage Disposal: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private (Septic)	
Heating System: <input type="checkbox"/> Electric <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane <input checked="" type="checkbox"/> Other: Fuel Oil			Roadside Tree Project: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes: #		
Sprinkler System: <input type="checkbox"/> NFPA 13 <input type="checkbox"/> NFPA 13R <input type="checkbox"/> NFPA 13D <input checked="" type="checkbox"/> None			Fire Alarm System: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Voice Evac		
ADDITIONAL RESIDENTIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)					
Model Name & Options:					
# of Bedrooms (SF):		# of efficiency units (MF*):	# of 1 BR (MF*):	# of 2 BR (MF*):	# of 3 BR (MF*):
# Rooms:		# Full Baths:	# Half Baths:	# Fireplaces:	
Garage/Carport Info: <input type="checkbox"/> Attached Garage <input type="checkbox"/> Detached Garage <input type="checkbox"/> Integral Garage <input type="checkbox"/> Carport <input type="checkbox"/> None					
Basement/Foundation Info: <input type="checkbox"/> Slab on Grade <input type="checkbox"/> Post & Pier <input type="checkbox"/> Unfinished Basement <input type="checkbox"/> Finished Basement: <input type="checkbox"/> Full or <input type="checkbox"/> Partial					
1st Fl Width:	1st Fl Depth:	2nd Fl Width:	2nd Fl Depth:	Bsmt Width:	Bsmt Depth:
Energy Method: <input type="checkbox"/> Prescriptive <input type="checkbox"/> Performance <input type="checkbox"/> UA Alternative <input type="checkbox"/> ERI			Gross Area:	sq ft	Occupiable Area:
sq ft					
AGREEMENT/ DISCALIMER REQUIRED					
THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.					
 APPLICANT'S ORIGINAL SIGNATURE				4/28/24 DATE SIGNED	
FOR OFFICE USE ONLY					
CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY					
AGENCIES REQUIRED/APPROVALS:					
<input checked="" type="checkbox"/> PR	<input checked="" type="checkbox"/> DPZ	<input checked="" type="checkbox"/> DED	<input checked="" type="checkbox"/> Health 7/13/2023	<input type="checkbox"/> SHA	<input type="checkbox"/> CID
SUBMITTAL FEES:		PAYMENT: pay online		ACCEPTED BY: TR	

Bill Hesen

From: Bill Hesen
Sent: Monday, April 24, 2023 12:04 PM
To: Bill Hesen
Subject: Carport



Approved
B23001495
R/R *7/13/2023*



Sent from my iPhone

GWENLEE (30' R/W) CIRCLE

507° 51' E 111.11'

8225.00'

508° 45' W 78.00'

78.00'

507° 51' E 111.11'

508° 45' W 78.00'

507° 51' E 111.11'

508° 45' W 78.00'

507° 51' E 111.11'

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507° 51' E 111.11'

508° 45' W 78.00'

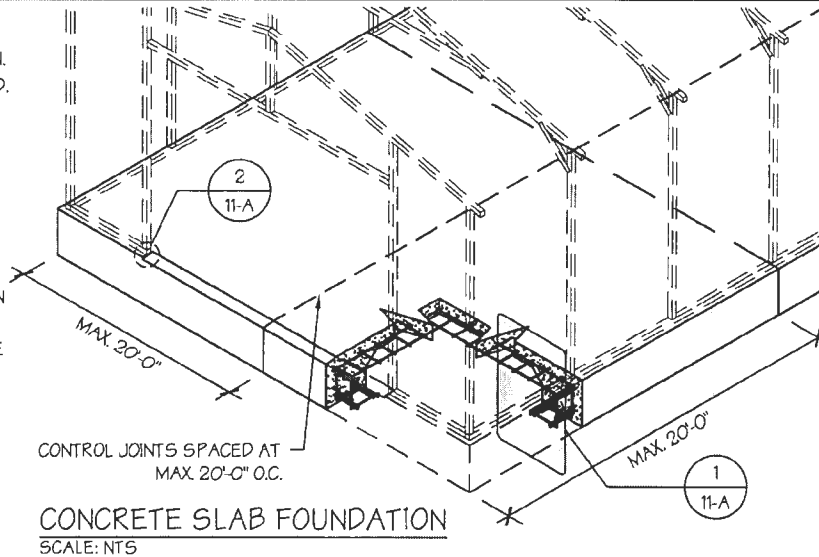
507° 54' E 111.11'

8225.00'

508° 45' W 78.00'

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.2.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5 1/2" FOR 14GA MATERIAL AND 5 3/8" FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



MANUFACTURED BY:

457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF MARYLAND
PROJECT NO.: 033-22-0243
SHEET TITLE:
**FOUNDATION OPTION 1:
CONCRETE SLAB**
SHEET NO.: 11-A / 11
DRAWN BY: A.W. DATE: 2/9/22
CHECKED BY: OAA DATE: 2/9/22

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 DATE OF EXPIRATION.

SEAL:

STAMP EXPIRY: **07-23-2024**
DATE SIGNED: **02-07-2022**

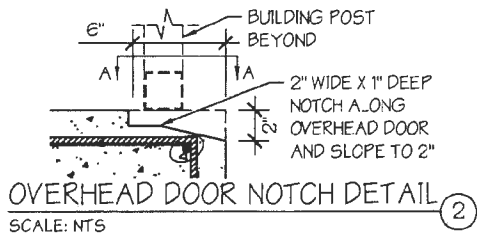


TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

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

- NOTES:
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 - MIN. EMBEDMENT DEPTH TO BE 2 3/8".
 - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

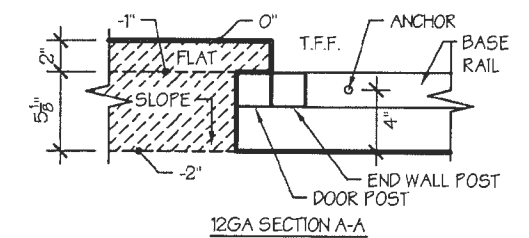
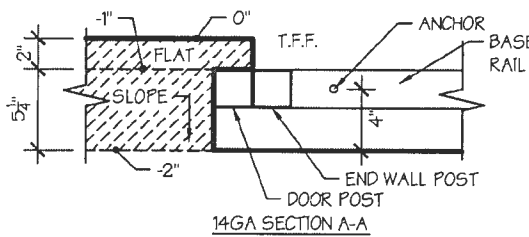
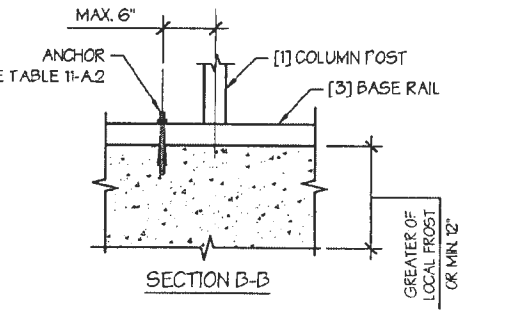
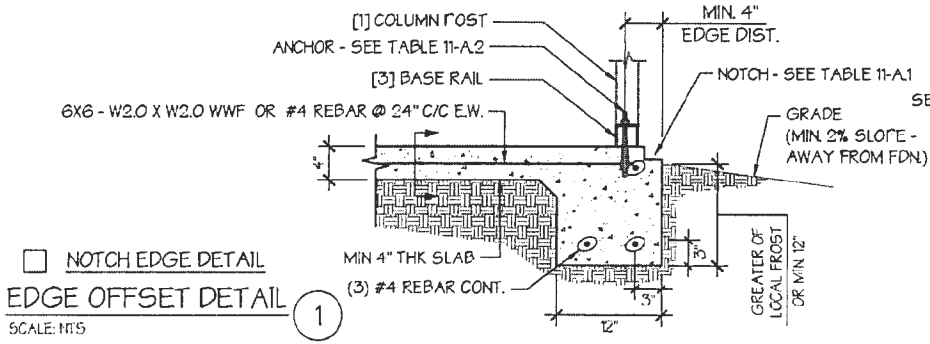


TABLE 11-A.1: NOTCH WIDTH

HORIZONTAL/OPEN		VERTICAL	
14GA	12GA	14GA	12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

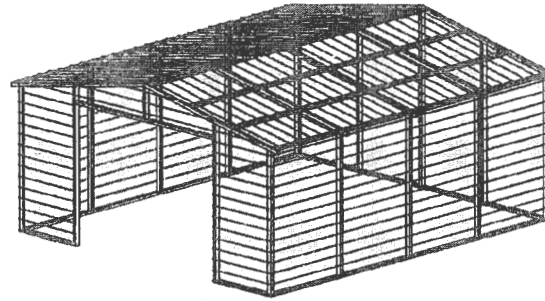
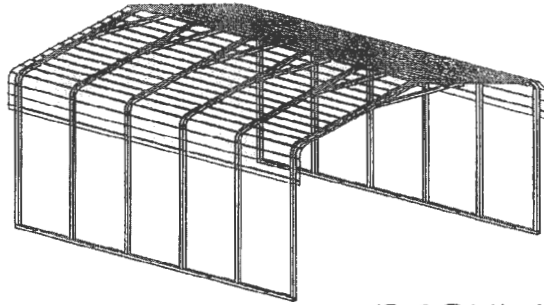
NOTE: DEPTH IS TO BE 1 1/2"



GWENLEE (30' R/W) CIRCLE

507° 03' E - 111.11' - R=225.00'





REGULAR / A-FRAME 24'-0" WIDE CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, OSHA, AISC 360, AISI 100, ASCE 7-16, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
3. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
4. ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 X 3/4" SDS (ESR-2196 OR EQ) WITHOUT WASHERS.
5. STEEL SHEATHING SHALL BE 29GA CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ. CONNECTIONS SHALL BE #12-14 X 3/4" SDS (ESR-2196 OR EQ) WITH NEOPRENE WASHERS.
6. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL (FY = 50 KSI, FU = 65 KSI).
7. STRUCTURAL TUBE 2 1/2" X 2 1/2" - 14GA. IS EQUIVALENT TO TS 2 1/4" X 2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
8. GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

- PREVAILING CODE: MBPS (IBC 2018)
 USE GROUP: U (CARPORTS, BARNs)
 RISK CATEGORY: I
1. DEAD LOAD (D) $D = 4 \text{ PSF}$
 2. ROOF LIVE/SNOW LOAD (Lr)
 $Lr = 20 - 61 \text{ PSF}$
 (AS PER SNOW LOAD SEE TABLE 4)
 3. SNOW LOAD (S)
 GROUND SNOW LOAD $P_g = 20 - 90 \text{ PSF}$
 IMPORTANCE FACTOR $I_s = 0.8$
 THERMAL FACTOR $C_t = 1.2$
 EXPOSURE FACTOR $C_e = 1.0$
 ROOF SLOPE FACTOR $C_s = 1.0$
 4. WIND LOAD (W)
 BASIC WIND SPEED $V_{ULT} = 105 - 120 \text{ MPH}$
 EXPOSURE C
 5. SEISMIC LOAD (E)
 DESIGN CATEGORY D
 IMPORTANCE FACTOR $I_e = 1.00$

LOAD COMBINATIONS:

1. $D + (Lr \text{ OR } S)$
2. $D + (0.6W \text{ OR } \pm 0.7E)$
3. $D + 0.75 (0.6W \text{ OR } \pm 0.7E) + 0.75 (Lr \text{ OR } S)$
4. $0.6D + (0.6W \text{ OR } \pm 0.7E)$

DRAWING INDEX

COVER SHEET	----	1
SCHEDULES & MEMBER - SECTIONS	----	2
FRAME SECTIONS & DETAILS	----	3-A, 3-B
SPACING SCHEDULES - & ENCLOSURE NOTES	----	4
PURLIN & GIRT SCHEDULES	----	5
SHEATHING OPTIONS	----	6
SIDE WALL FRAMING & OPENINGS	----	7-A, 7-B
END WALL FRAMING & OPENINGS	----	8-A, 8-B
CORNER BRACING DETAILS	----	9
OPTIONAL LEAN-TO ADDITION	----	10
FOUNDATION OPTIONS	----	11-A TO 11-D

MANUFACTURED BY:



457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL

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

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
 LOCATION: STATE OF MARYLAND
 PROJECT NO.: 033-22-0243
 SHEET TITLE:

COVER SHEET

SHEET NO.: 1 / 11

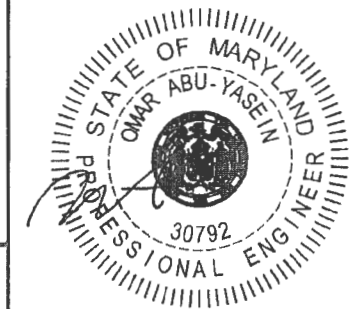
DRAWN BY: A.W. DATE: 2/19/22

CHECKED BY: OAA DATE: 2/19/22

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 - DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:



STAMP EXPIRY: 07-23-2024

DATE SIGNED: 07-30-2022

CUSTOMER INFORMATION	DESIGN LOADS	BUILDING INFORMATION	CERTIFICATION VALIDITY NOTICE
OWNER: ADDRESS:	GROUND SNOW: ROOF LIVE LOAD: BASIC WIND SPEED:	WIDTH: LENGTH: HEIGHT:	FRAME TYPE: <input type="checkbox"/> A-FRAME <input type="checkbox"/> REGULAR ENCLOSURE TYPE: <input type="checkbox"/> FULL <input type="checkbox"/> PARTIAL <input type="checkbox"/> OPEN

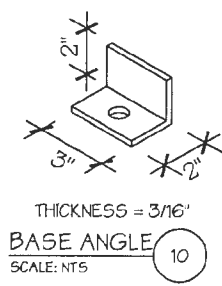
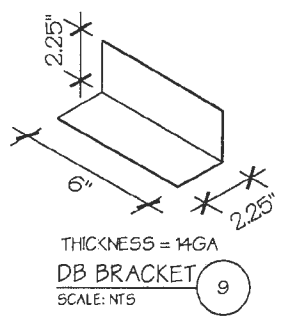
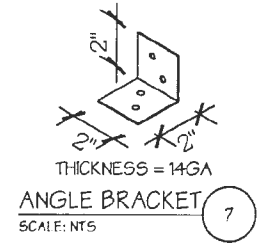
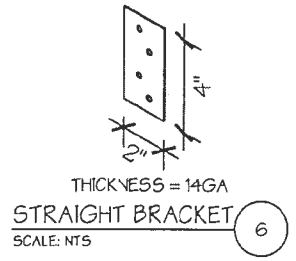
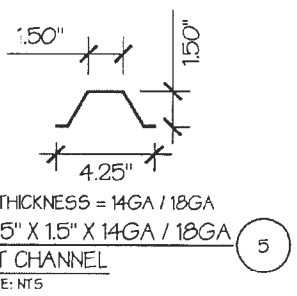
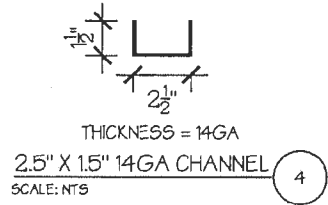
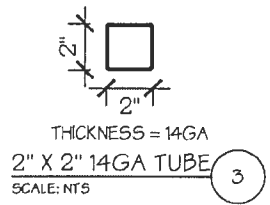
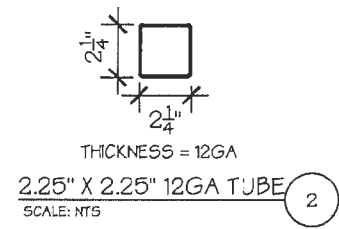
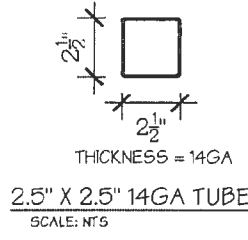
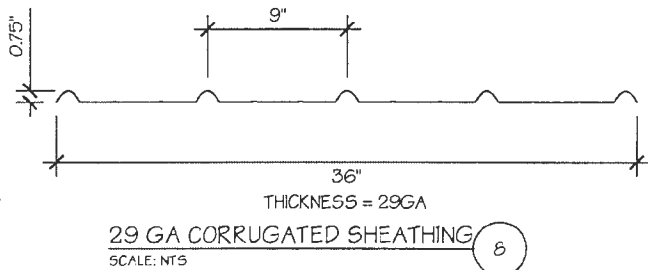
TABLE 2.1: MEMBER PROPERTIES

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	8
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1
14	DOUBLE HEADER	DBL. 2.5" X 2.5" X 14GA TUBE	1
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3
21	DB BRACKET	2.25" X 2.25" X 6" LG. 14GA ANGLE	9
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1
23	ALL FASTENERS	#12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER	

TABLE 2.2: SHEATHING FASTENER SCHEDULE

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



MANUFACTURED BY:



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 Joshua, TX 76058
 1-866-730-9865

ENGINEERED BY:



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 6036 Renaissance Pkwy., Toledo, OH 43623
 Tel. 419-292-1983 • Fax. 419-292-0935
 www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
 LOCATION: STATE OF MARYLAND
 PROJECT NO.: 038-22-0243
 SHEET TITLE:

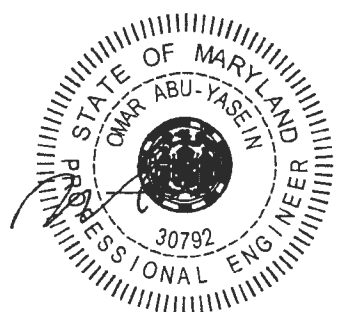
SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11
 DRAWN BY: A.W. DATE: 2/9/22
 CHECKED BY: OAA DATE: 2/9/22

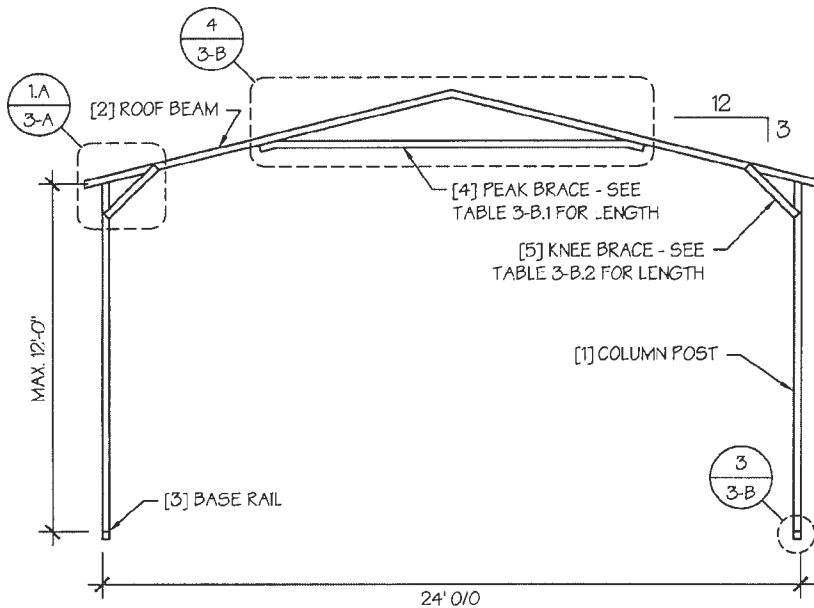
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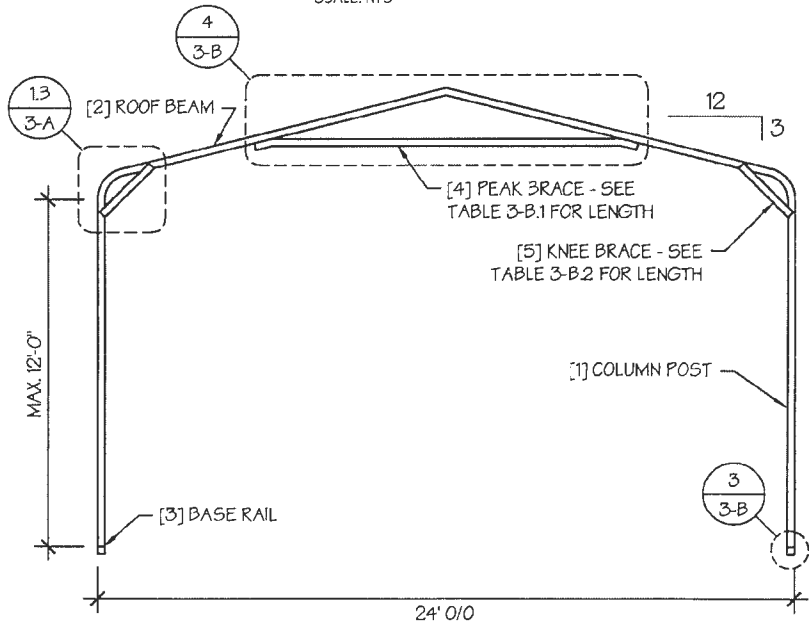
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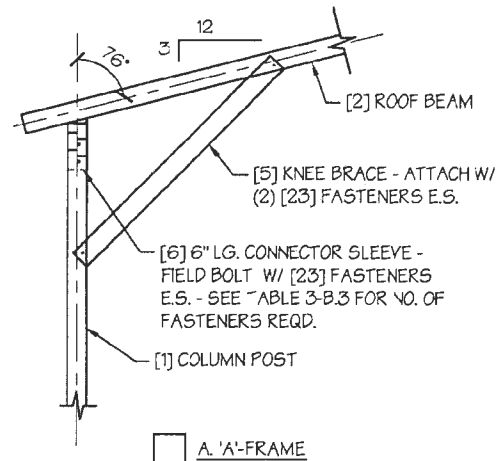
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 DATE SIGNED: 07-30-2022



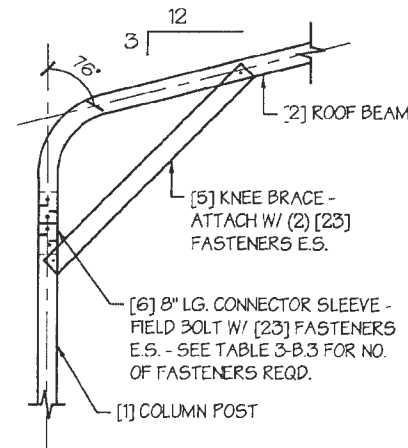
TYP. A-FRAME SECTION
SCALE: NTS



TYP. REGULAR FRAME SECTION
SCALE: NTS



A. A-FRAME



B. REGULAR-FRAME

EAVE DETAIL 1
SCALE: NTS

MANUFACTURED BY:



457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF MARYLAND

PROJECT NO.: 033-22-0243

SHEET TITLE:

FRAME SECTIONS &
DETAILS

SHEET NO.: 3-A / 11

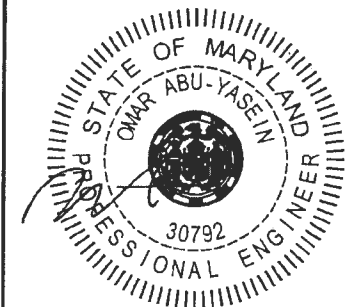
DRAWN BY: A.W. DATE: 2/9/22

CHECKED BY: OAA DATE: 2/9/22

LEGAL INFORMATION

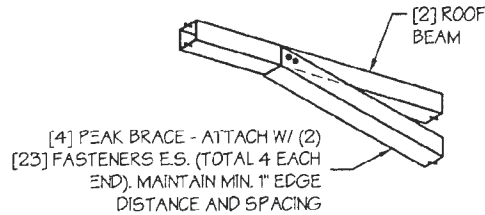
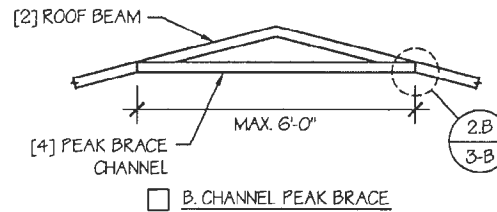
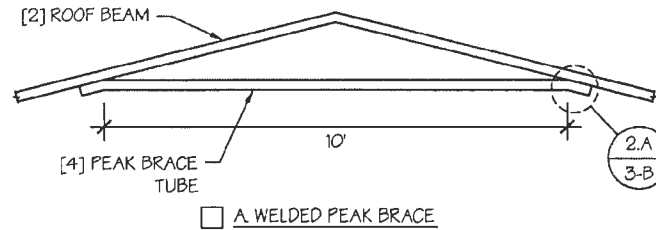
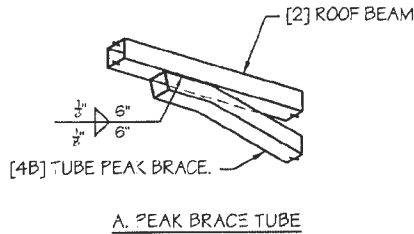
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PEAK BRACE DETAILS 4
SCALE: NTS

PEAK BRACE CONNECTION DETAILS 2
SCALE: NTS

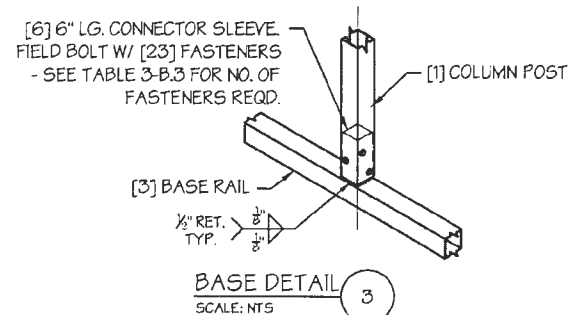


TABLE 3-B.1: PEAK BRACE SCHEDULE

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

TABLE 3-B.2: KNEE BRACE SCHEDULE

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

TABLE 3-B.3 FASTENER SCHEDULE

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

NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING. MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

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FRAME DETAILS

SHEET NO.: 3-B / 11

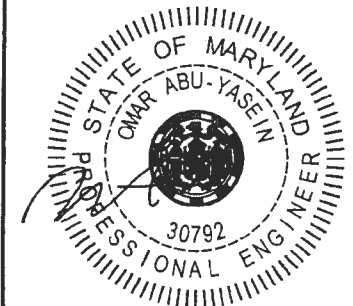
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TABLE 4: FRAME SPACING CHART / SCHEDULE

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	
■ EAVE HEIGHT = 10'-0" TO 12'-0"	□ 30 / 20	60	60	54/60	54	42	42	36	48	48	48	42	36	30	24
	□ 40 / 27	48/60	48/60	42/60	42/54	42	42	36	42	42	42	42	36	30	24
	□ 50 / 34	40/48	40/48	40/48	40/48	40/42	40/42	36	30	30	30	30	30	30	24
	□ 60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	24
	□ 70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	□ 80 / 54	24	24	24	24	24	24	24	24	24	18	18	18	18	18
	□ 90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = 7'-0" TO 9'-0"	□ 30 / 20	60	60	54/60	54	48	42/48	42	54	54	48/54	42/54	36/48	36	30
	□ 40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	42	42	42	42	36/42	36	30
	□ 50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	36	36	36	36	36	36	30
	□ 60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	30
	□ 70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	□ 80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	□ 90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = UP TO 6'-0"	□ 30 / 20	60	60	54/60	54	48	42/48	42	60	54/60	48/60	42/54	36/48	36/42	36
	□ 40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	48	48	42/48	42/48	36/48	36/42	36
	□ 50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	40/42	40/42	40/42	40/42	36/42	36	36
	□ 60 / 41	36	36	36	36	36	36	36	36	36	36	36	36	36	30
	□ 70 / 47	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	□ 80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	□ 90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

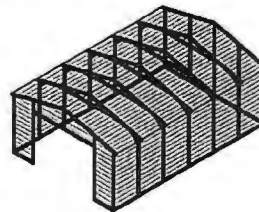
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE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

ENCLOSURE CLASSIFICATION:

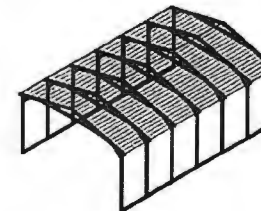
1. ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
4. PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3FT = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
5. 3 SIDED ENCLOSED = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
6. FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.

GENERAL NOTES:

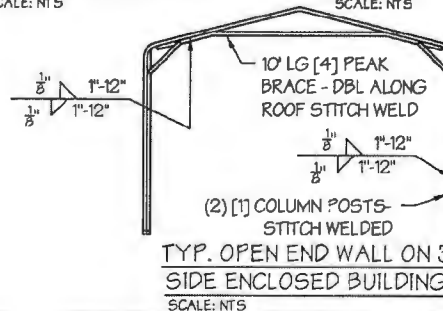
1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET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



TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS



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SHEET TITLE:

SPACING SCHEDULES
& ENCLOSURE NOTES

SHEET NO.: 4 / 11

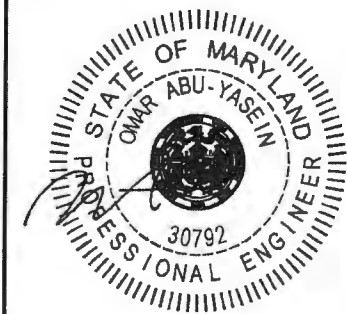
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TABLE 5.1: PURLIN SPACING SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	14GA. HAT CHANNEL PURLIN						
	WIND SPEED (MPH)						
	105	115	130	140	155	165	180
30 / 20	54	48	42	36	30	24	24
40 / 27	42	42	42	36	30	24	24
50 / 34	40	40	40	36	30	24	24
60 / 41	36	36	36	36	30	24	24
70 / 47	32	32	32	32	30	24	24
80 / 54	30	30	30	30	30	24	24
90 / 61	24	24	24	24	24	24	24
30 / 20	54	48	42	42	36	30	30
40 / 27	42	42	42	42	36	30	30
50 / 34	40	40	40	40	36	30	30
60 / 41	36	36	36	36	36	30	30
70 / 47	32	32	32	32	32	30	30
80 / 54	32	32	32	32	32	30	30
90 / 61	30	30	30	30	30	30	30
30 / 20	54	48	42	42	36	36	30
40 / 27	42	42	42	42	36	36	30
50 / 34	40	40	40	40	36	36	30
60 / 41	36	36	36	36	36	36	30
70 / 47	32	32	32	32	32	32	30
80 / 54	32	32	32	32	32	32	30
90 / 61	30	30	30	30	30	30	30
30 / 20	54	48	42	42	36	36	30
40 / 27	42	42	42	42	36	36	30
50 / 34	40	40	40	40	36	36	30
60 / 41	36	36	36	36	36	36	30
70 / 47	32	32	32	32	32	32	30
80 / 54	32	32	32	32	32	32	30
90 / 61	30	30	30	30	30	30	30

FRAME SPACING: 5'-0"
 FRAME SPACING: 4'-6"
 FRAME SPACING: 4'-0"
 FRAME SPACING: 3'-6"
 FRAME SPACING: 3'-0" OR LOWER

- NOTES:
- PURLIN SPACING UNITS ARE IN INCHES.
 - FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

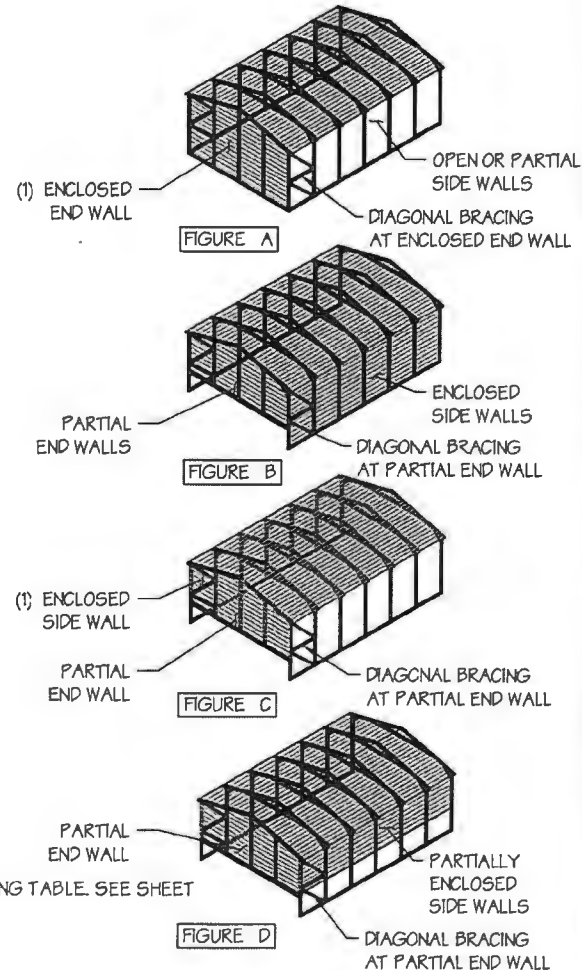
IRREGULAR BUILDING NOTES:

- 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	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
 - FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.



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SHEET TITLE:

PURLIN & GIRT
 SPACING SCHEDULES

SHEET NO.: 5 / 11

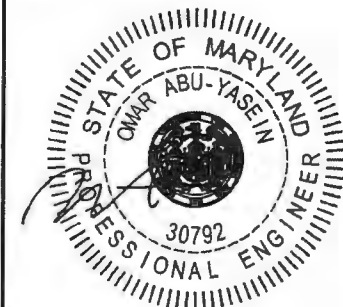
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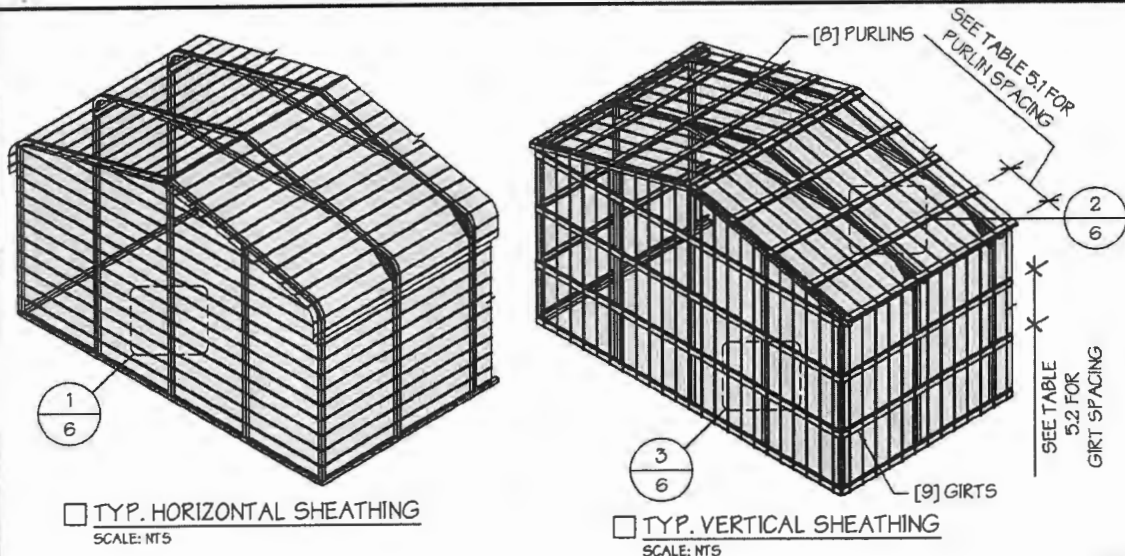
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GENERAL SHEATHING NOTES:

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

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SHEET TITLE: SHEATHING OPTIONS & DETAILS

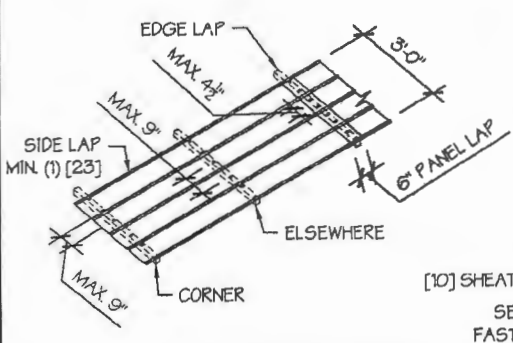
SHEET NO.: 6 / 11

DRAWN BY: A.W. DATE: 2/9/22

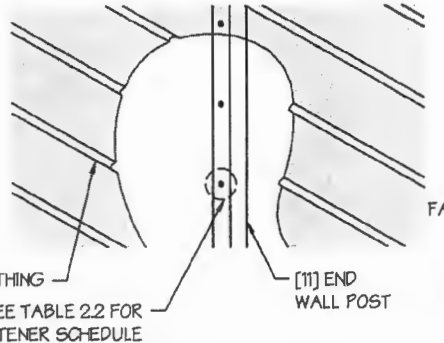
CHECKED BY: OAA DATE: 2/9/22

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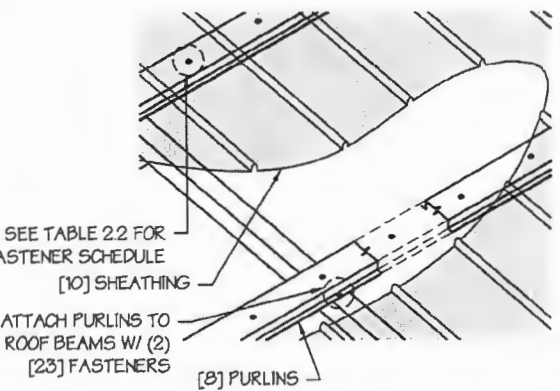
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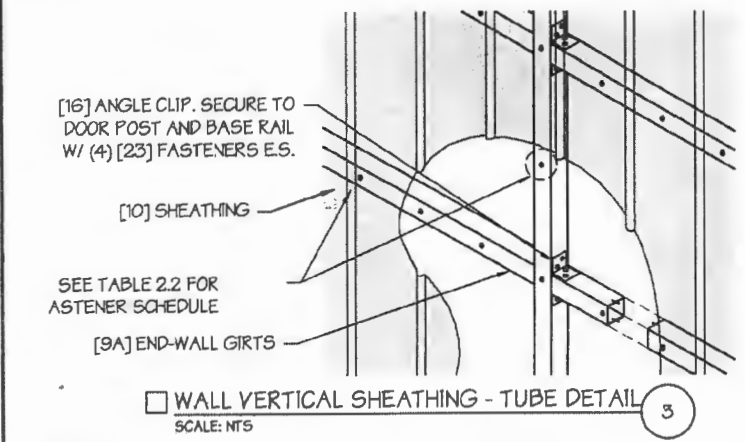
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



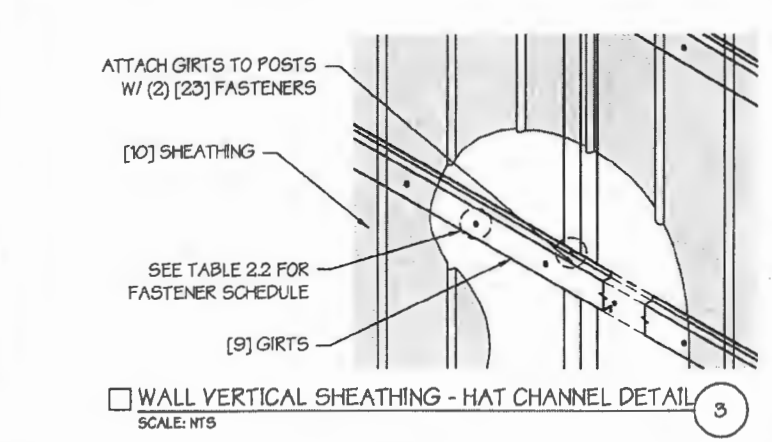
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL 2
SCALE: NTS



WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS

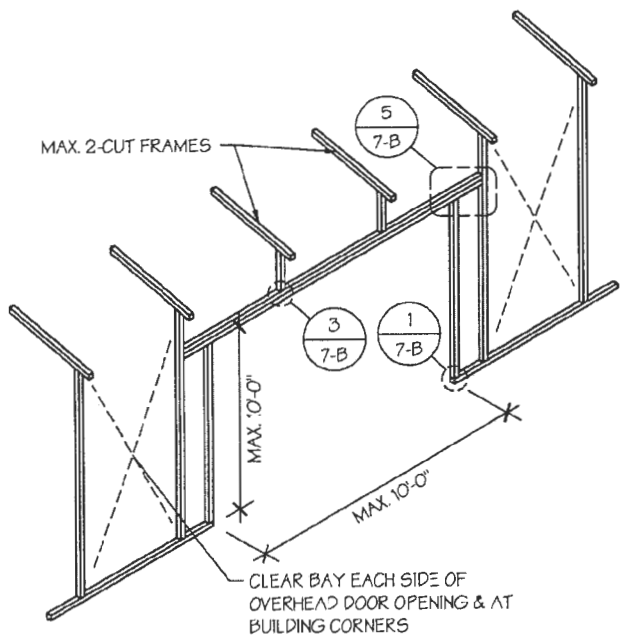


WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL 3
SCALE: NTS

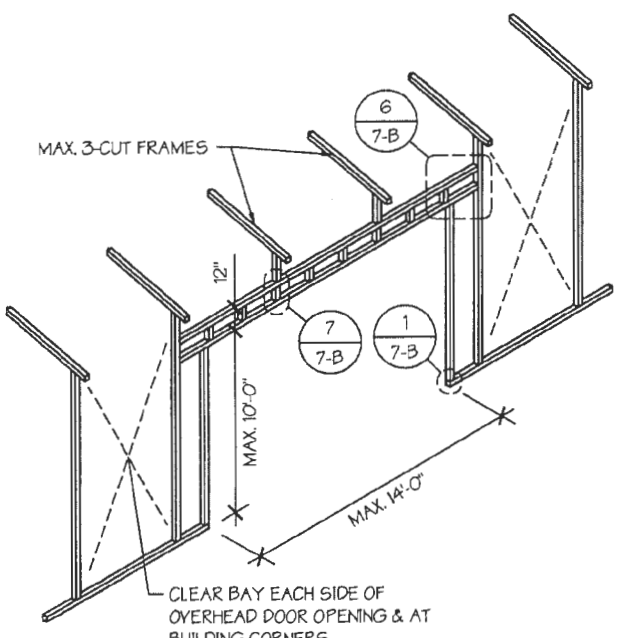
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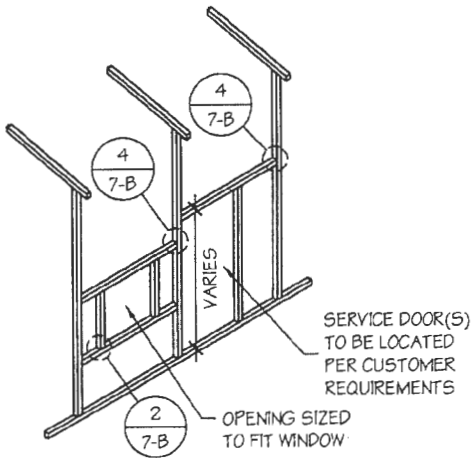
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SIDE WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



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

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**SIDE WALL FRAMING
& OPENINGS**

SHEET NO.: 7-A / 11

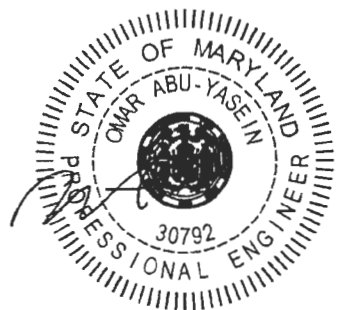
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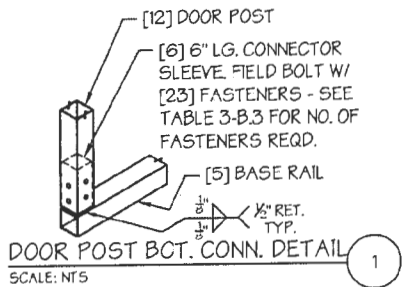
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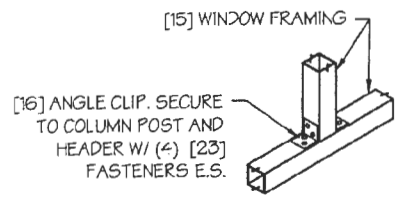


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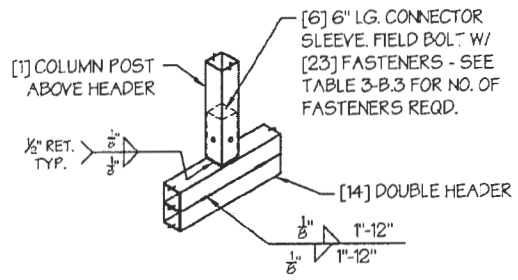
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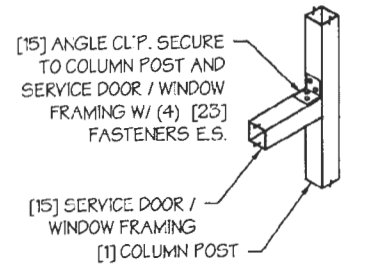
DOOR POST BCT. CONN. DETAIL 1
SCALE: NTS



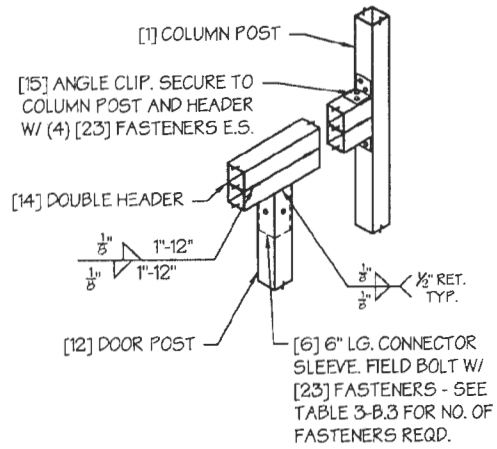
TYP. WINDOW FRAMING CONN. DETAIL 2
SCALE: NTS



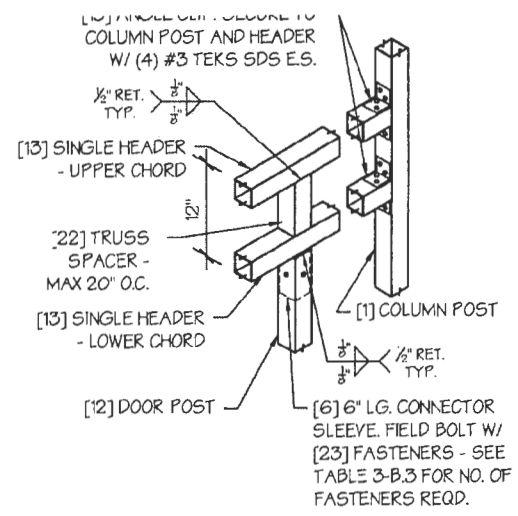
COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL 3
SCALE: NTS



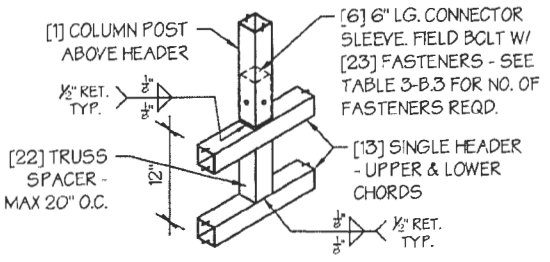
TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 4
SCALE: NTS



COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL 5
SCALE: NTS



COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL 6
SCALE: NTS



COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL 7
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF MARYLAND

PROJECT NO.: 033-22-0243

SHEET TITLE:

**SIDE WALL FRAMING
DETAILS**

SHEET NO.: 7-B / 11

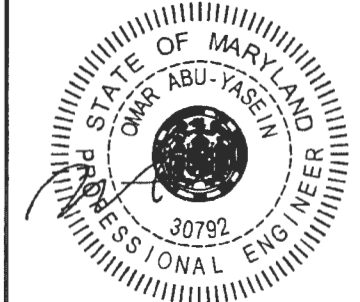
DRAWN BY: A.W. DATE: 2/9/22

CHECKED BY: OAA DATE: 2/9/22

LEGAL INFORMATION

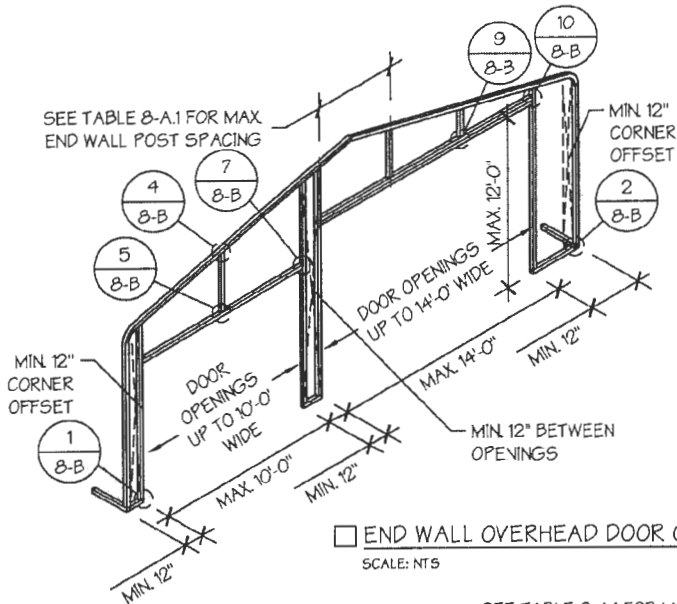
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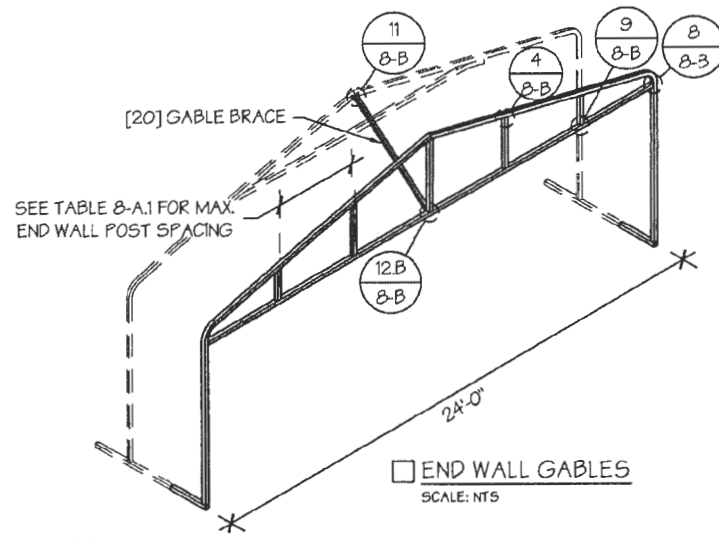


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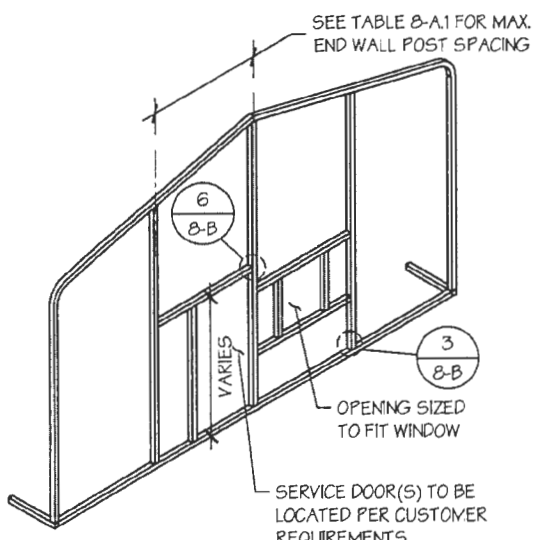
DATE SIGNED: 07-30-2022



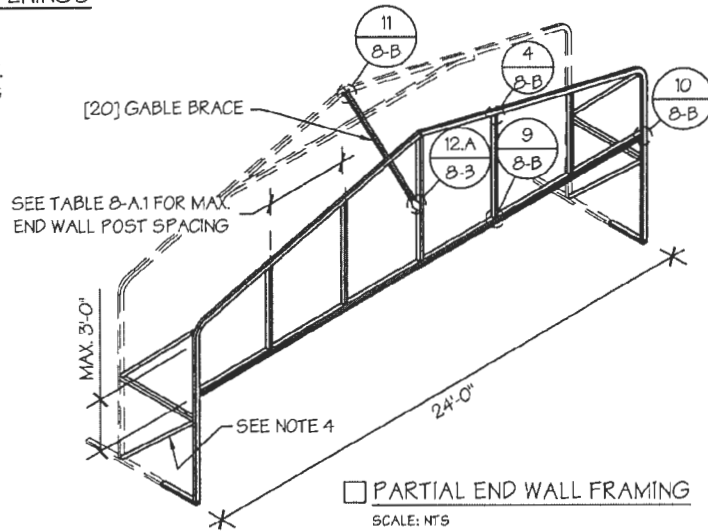
END WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



END WALL GABLES
SCALE: NTS



END WALL SERVICE DOOR AND WINDOW OPENINGS
SCALE: NTS



PARTIAL END WALL FRAMING
SCALE: NTS

GABLE BRACING NOTE

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

END WALL FRAMING NOTES:

1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
4. DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

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

WIND SPEED (MPH)	EAVE HEIGHT		
	UP TO 7'	8' TO 9'	10' TO 12'
□ 105	5'	5'	5'
□ 115	5'	5'	4.5'
□ 130	4.5'	4.5'	4'
□ 140	4.5'	4.5'	3'
□ 155	4'	4'	2.5'
□ 165 - 180	3.5'	3'	2'

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF MARYLAND
PROJECT NO.: 033-22-0243
SHEET TITLE:

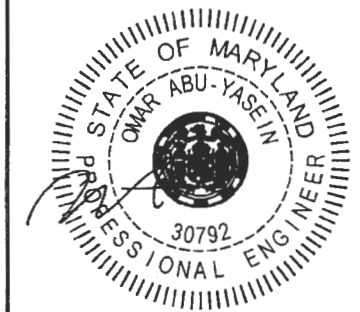
END WALL FRAMING

SHEET NO.: 8-A / 11
DRAWN BY: A.W. DATE: 2/9/22
CHECKED BY: OAA DATE: 2/9/22

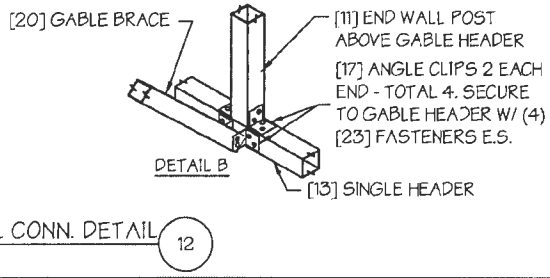
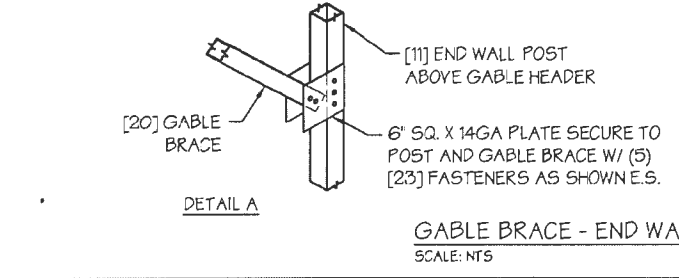
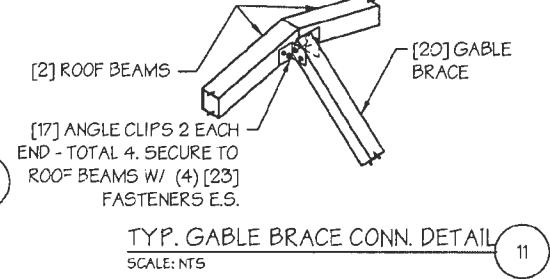
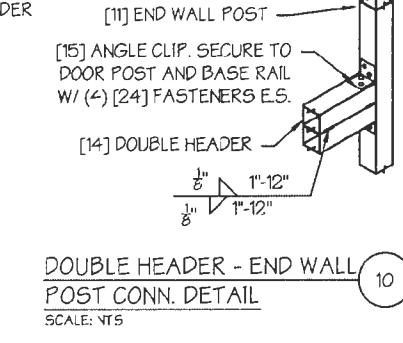
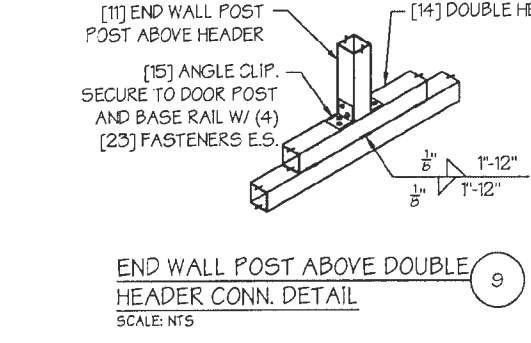
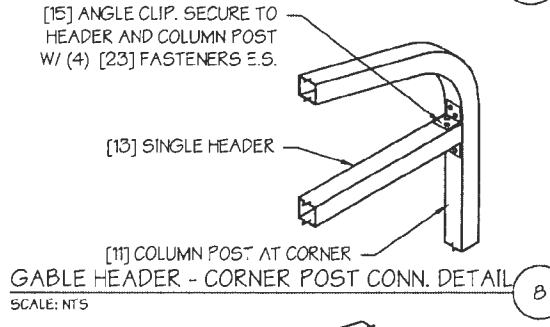
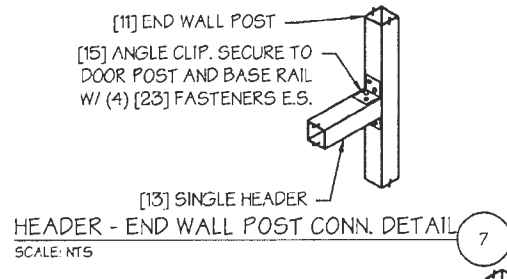
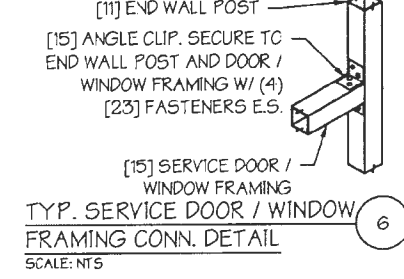
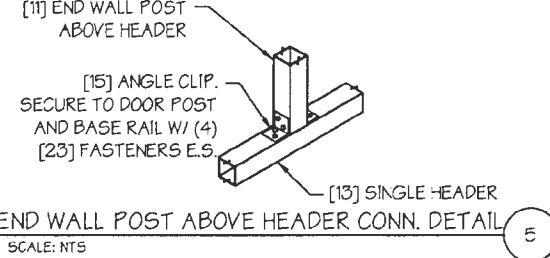
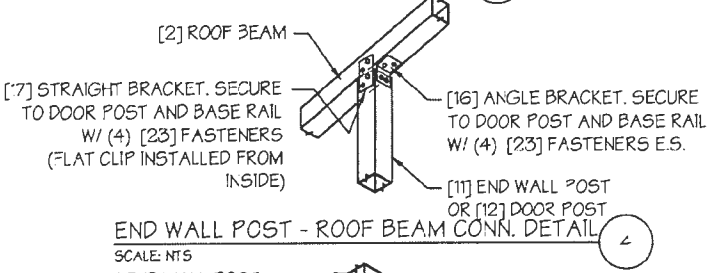
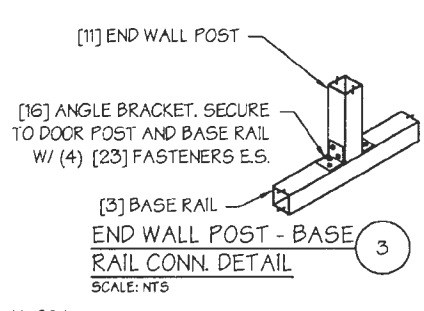
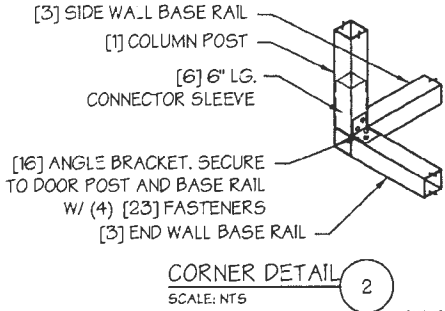
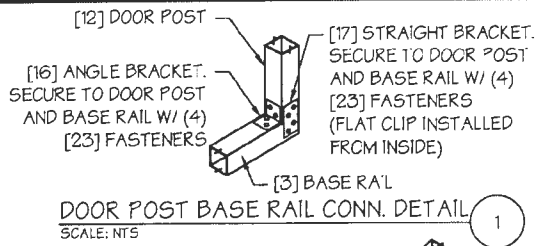
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GABLE BRACING NOTE

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

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF MARYLAND
PROJECT NO.: 033-22-0243
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11
DRAWN BY: A.W. DATE: 2/9/22
CHECKED BY: OAA DATE: 2/9/22

LEGAL INFORMATION

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- DRAWINGS VALID UP TO DATE OF EXPIRATION.

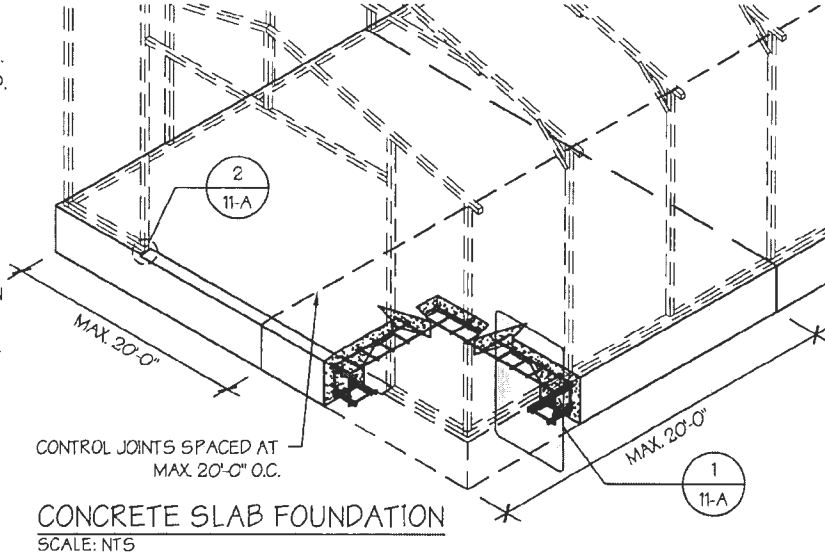
SEAL:

STATE OF MARYLAND
OMAR ABU-YASEIN
PROFESSIONAL ENGINEER
30792

STAMP EXPIRY: 07-23-2024
DATE SIGNED: 07-30-2022

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.2.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5 1/2" FOR 14GA MATERIAL AND 5 3/8" FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



CONCRETE SLAB FOUNDATION
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF MARYLAND
PROJECT NO.: 033-22-0243
SHEET TITLE:
**FOUNDATION OPTION 1:
CONCRETE SLAB**

SHEET NO.: 11-A / 11
DRAWN BY: A.W. DATE: 2/9/22
CHECKED BY: OAA DATE: 2/9/22

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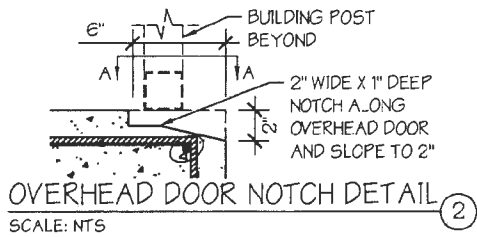


TABLE 11-A.1: NOTCH WIDTH

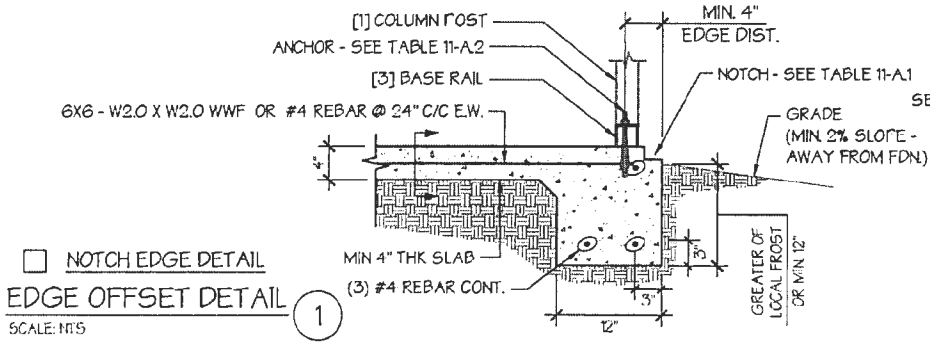
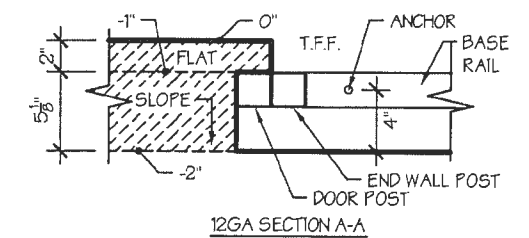
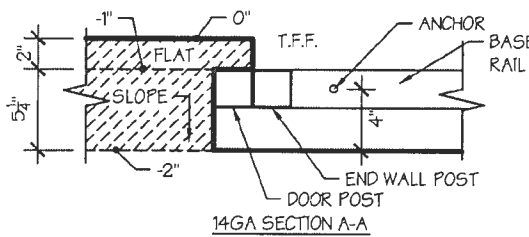
HORIZONTAL/OPEN		VERTICAL	
14GA	12GA	14GA	12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

NOTE: DEPTH IS TO BE 1 1/2"

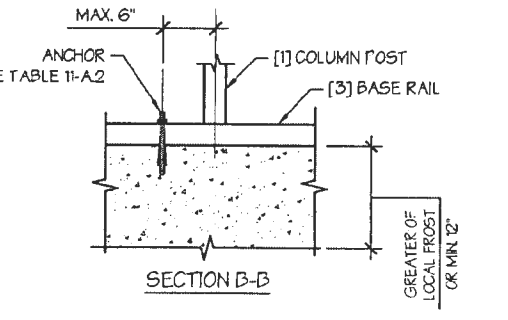
TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

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

- NOTES:
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 - MIN. EMBEDMENT DEPTH TO BE 2 3/8".
 - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



NOTCH EDGE DETAIL
EDGE OFFSET DETAIL
SCALE: NTS



SECTION B-B