

**RECEIVED**  
 SEP 08 2021  
 LICENSES & PERMITS  
 DIVISION

PERMIT NUMBER: B 21003420

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: 12900 State Route 144 Frederick Rd Unit: 1  
 City: West Friendship State: MD Zip Code: 21794  
 Subdivision/Village/Complex Name: Buttercup Estates SDP/WP/BA #:  
 Lot: 1 Tax Map: 15 Parcel: 237 Grading Permit #:

**DESCRIPTION OF WORK REQUIRED**

Existing Use: residential Proposed Use: Residential Estimated Cost: \$15,000.00  
 Trade Work to Be Completed (Separate Permits Required):  Mechanical (HVACR)  Electrical  Plumbing  None  
Build 32x34x24 height metal shed  
Slab Garage / Detached 1088

**PROPERTY OWNER INFORMATION REQUIRED**

Owner(s) Name(s) (As it appears on tax records): Angel's Touch of West Friendship LLC. Primary Residence:  Yes  No  
 Owner's Street Address: 12900 State route 144  
 City: West Friendship Md State: Md Zip Code: 21794  
 Phone: (443) 413-7897 Email:

**APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION**

Business Name: None Contact Name: Mark Wah  
 Street Address: 12900 State Route 144  
 City: West Friendship State: MD Zip Code: 21794  
 Phone: (443) 413-7897 Email: mwah@comcast.net

**CONTRACTOR INFORMATION REQUIRED**

Business Name: None  
 Licensee's Name: License #:  
 Street Address:  
 City: State: Zip Code:  
 Phone: Email:

**ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE**

Business Name: Robert L. Luebbers Name: 30889  
 City: State: Zip Code:  
 Phone: Email:

**BUILDING CHARACTERISTICS REQUIRED**

Primary Structure:  SF Dwelling  SF Townhouse  SF Duplex  Mobile Home  Multi-Family Dwelling (MF\*) Condo:  Yes  No  
 Utilities:  Electric  Gas Water Supply:  Public  Private (Well) Sewage Disposal:  Public  Private (Septic)  
 Heating System:  Electric  Natural Gas  Propane  Other: Roadside Tree Project:  No  Yes: #  
 Sprinkler System:  NFPA 13  NFPA 13R  NFPA 13D  None Fire Alarm System:  Yes  No  Voice Evac

**ADDITIONAL RESIDENTIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)**

Model Name & Options: None  
 # of Bedrooms (SF): 2 # of efficiency units (MF\*): # of 1 BR (MF\*): # of 2 BR (MF\*): # of 3 BR (MF\*):  
 # Rooms: 5 # Full Baths: 2 # Half Baths: 1 # Fireplaces: 1  
 Garage/Carport Info:  Attached Garage  Detached Garage  Integral Garage  Carport  None  
 Basement/Foundation Info:  Slab on Grade  Post & Pier  Unfinished Basement  Finished Basement:  Full or  Partial  
 1st Fl Width: 50 1st Fl Depth: 120 2nd Fl Width: 2nd Fl Depth: Bsmt Width: Bsmt Depth:  
 Energy Method:  Prescriptive  Performance  UA Alternative  ERI Gross Area: 4,500 1088 sq ft Occupiable Area: 2,000 1088 sq ft

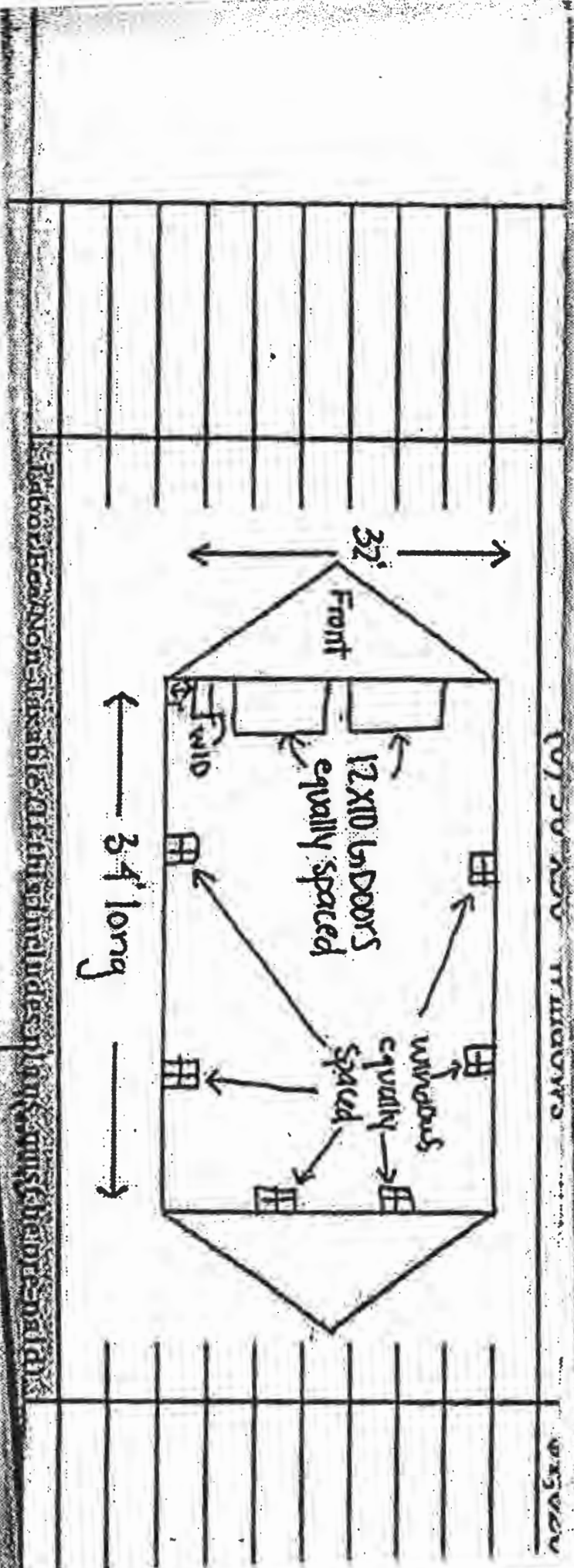
**AGREEMENT/ DISCALIMER REQUIRED**

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.

Mark Wah 9/2/2021  
 APPLICANT'S ORIGINAL SIGNATURE DATE SIGNED

**FOR OFFICE USE ONLY** CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS:  
 PR  DPZ  CED  Health H. Oswald 9/20/21  SHA  CID  
 SUBMITTAL FEES: 25 \$2000 PAYMENT: ACCEPTED BY: [Signature]



12900 Federal Rd

21794



TABLE 1  
BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B or C	105 TO 140	82 TO 108	30	4.0	29 gauge	8

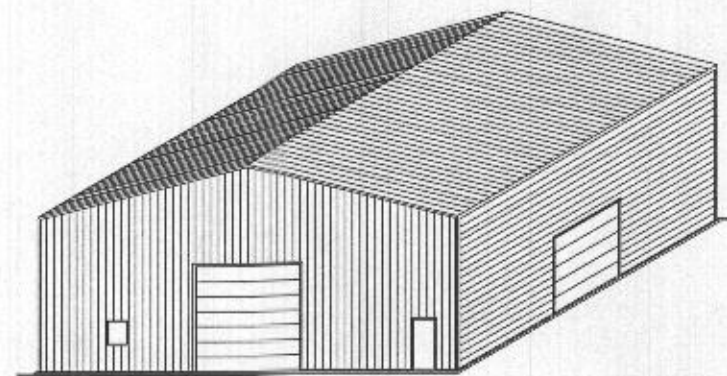
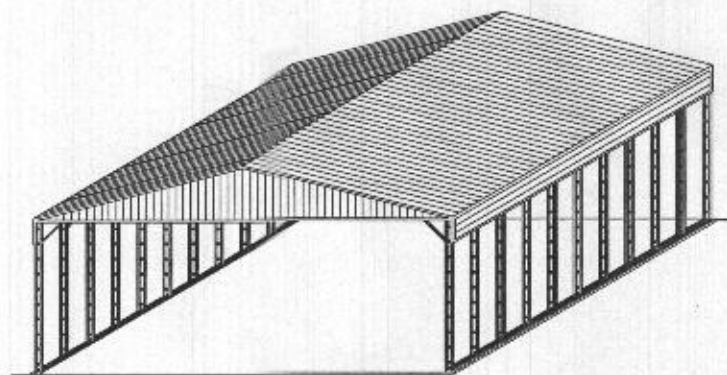
NOTES: 1. Specifications applicable to 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.  
2. Fasteners consist of #12-14 x 3/8" self-drilling screws without control seal washer.  
3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

# STANDARD BUILDING DETAILS

## 40 ft SPAN

LIGHT FRAME CONSTRUCTION

NOTE: USE  $\odot$  2 1/2" x 2 1/2" 14 Ga.  
 $\circ$  2 1/4" x 2 1/4" 12 Ga.  
STEEL TUBE FOR ALL FRAME AND BASE RAIL MEMBERS UNLESS OTHERWISE SHOWN.



GENERAL NOTES:

THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SET-BACKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.

THESE STRUCTURES ARE DESIGNED AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

ALL STEEL TUBING SHALL BE 55 KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.

FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH #12 x 3/8" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHERS AT AN AVERAGE SPACING OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.

ALL FIELD CONNECTIONS SHALL BE #12 x 3/8" SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE 1/2" H.S. BOLTS, ASTM A325 OR SAE GRADE 5, UNLESS NOTED OTHERWISE.

ALL WELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.

CONCRETE ANCHOR BOLTS SHALL BE ITW REDHEAD TAPCON+ OR AN APPROVED EQUAL. INSTALL ANCHOR BOLTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.

PROVIDE LONGITUDINAL BRACING ON TOP OF THE BOTTOM CHORD OF THE ROOF TRUSS FOR THE FULL LENGTH OF THE BUILDING AS INDICATED.

GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

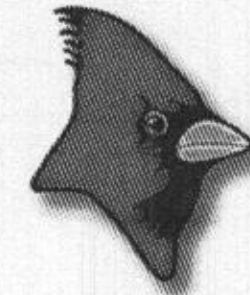
CONCRETE FOUNDATION DESIGN RECOMMENDATIONS:

CONCRETE INFORMATION AND DETAILS SHOWN IN THESE PLANS ARE FOR INFORMATION ONLY. THE CONCRETE SLAB AND FOUNDATION ARE BY OTHERS. THE OWNER IS RESPONSIBLE FOR PROVIDING A SUITABLE FOUNDATION FOR THE PROPOSED STRUCTURE AND COORDINATING CONCRETE STRENGTH AND FOUNDATION DEPTH REQUIREMENTS WITH THE LOCAL BUILDING CODE OFFICIALS.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS OR AS REQUIRED BY LOCAL BUILDING CODE. THE USE OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.

COVER OVER REINFORCING STEEL: MINIMUM CONCRETE OVER REINFORCING BARS SHALL BE 3 INCHES WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2" ELSEWHERE.

REINFORCING STEEL: THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. THE USE OF FIBER REINFORCED CONCRETE (FRC) OR WELDED WIRE FABRIC (WWF) IS ACCEPTABLE.



**CAROLINA CARPORTS INC.**  
P.O. BOX 1263  
DOBSON, NC 27017  
TOLL FREE 1-800-670-4262  
LOCAL 336-367-6400  
FAX 336-367-6410

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### METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

CAROLINA CARPORTS, INC.  
187 Cardinal Ridge Trail  
DOBSON, NORTH CAROLINA 27017

THE OWNER IS RESPONSIBLE FOR OBTAINING A BUILDING PERMIT, IF NEEDED, AND FOR COMPLYING WITH ALL LOCAL BUILDING CODE REQUIREMENTS.

THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODES INCLUDING THE 2018 MARYLAND AMENDMENTS.

BUILDING CODE INFORMATION	
OCCUPANCY CATEGORY	II
USE GROUP	U or S
CONSTRUCTION TYPE	2B

IMPORTANCE FACTORS	
WIND Iw	1.0
SNOW Is	1.0
EARTHQUAKE Ie	1.0

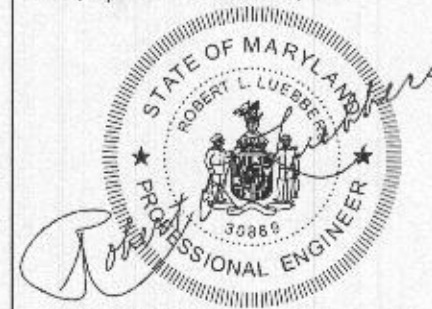
DESIGN LOADS	
MIN. DEAD LOAD	5 PSF
MIN. FLOOR LIVE LOAD	125 PSF
MIN. ROOF LIVE LOAD	20 PSF
MIN. GROUND SNOW LOAD	0 PSF
MAX. GROUND SNOW LOAD	
MIN. ULTIMATE WIND SPEED	SEE TABLE 1
MAX. ULTIMATE WIND SPEED	
EXPOSURE CATEGORY	
SEISMIC RESPONSE COEFFICIENT	0.500

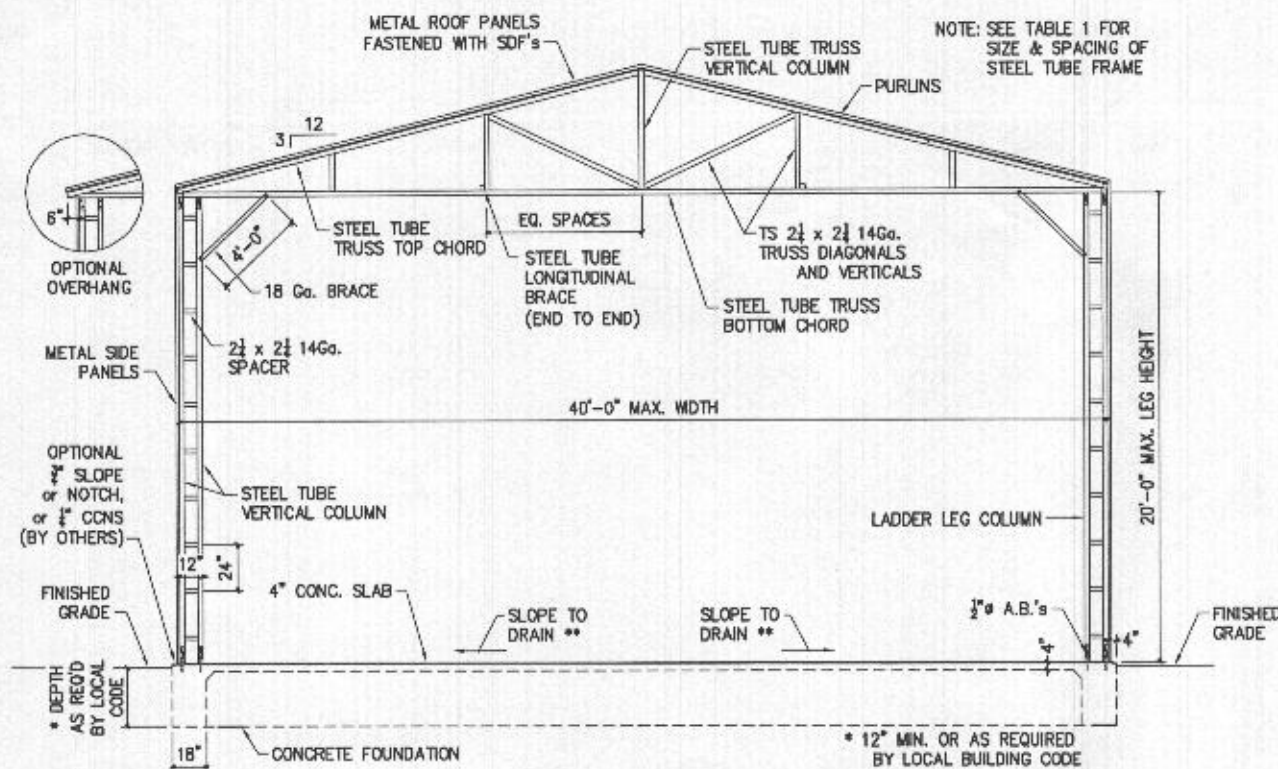
These plans have been provided for the purpose of obtaining a building permit for:

Name: Mark Wah  
Address: 12900 Frederick Rd  
City: West Friendship State: MD  
Zip: 21794

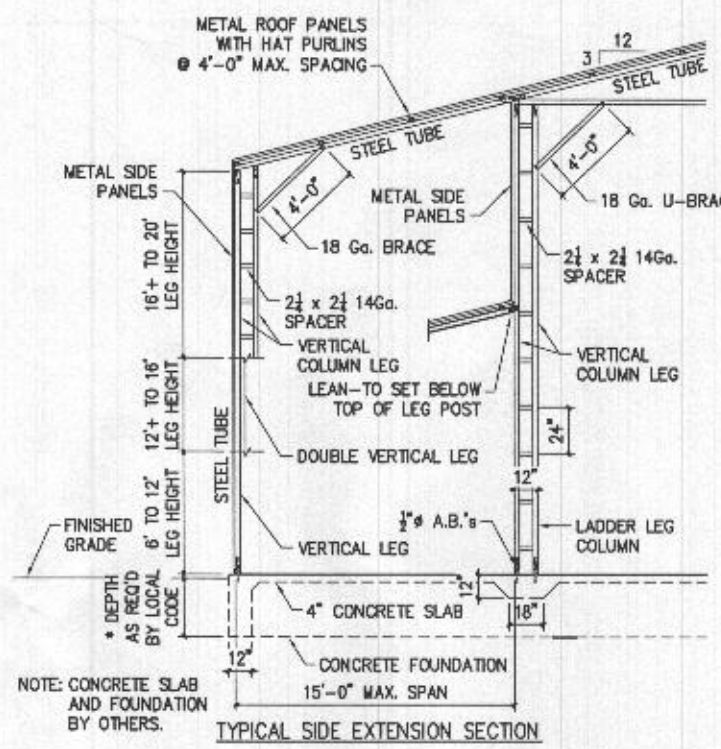
Use of these plans by anyone else or for any other purpose is prohibited.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 30889, Expiration Date: October 14, 2022.

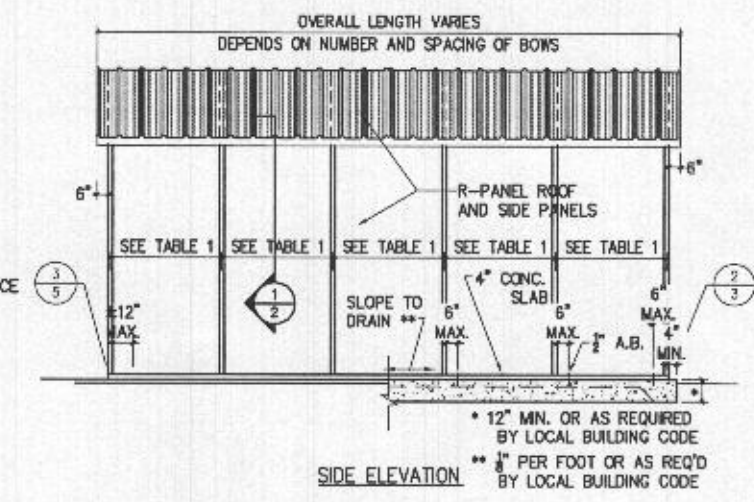




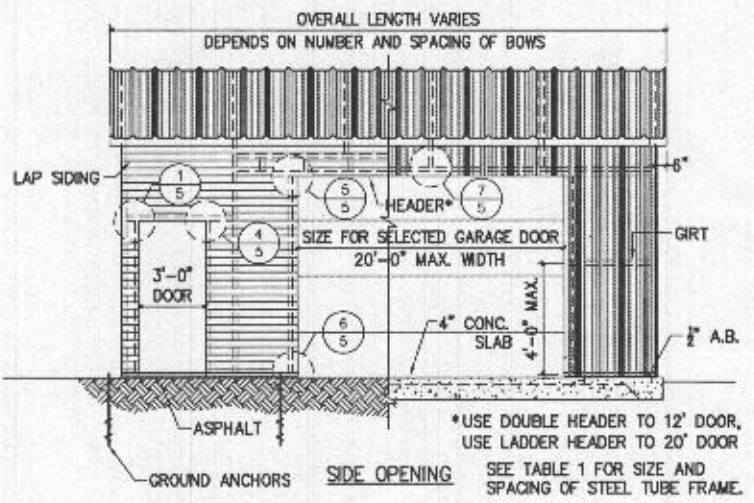
1 TYPICAL SECTION



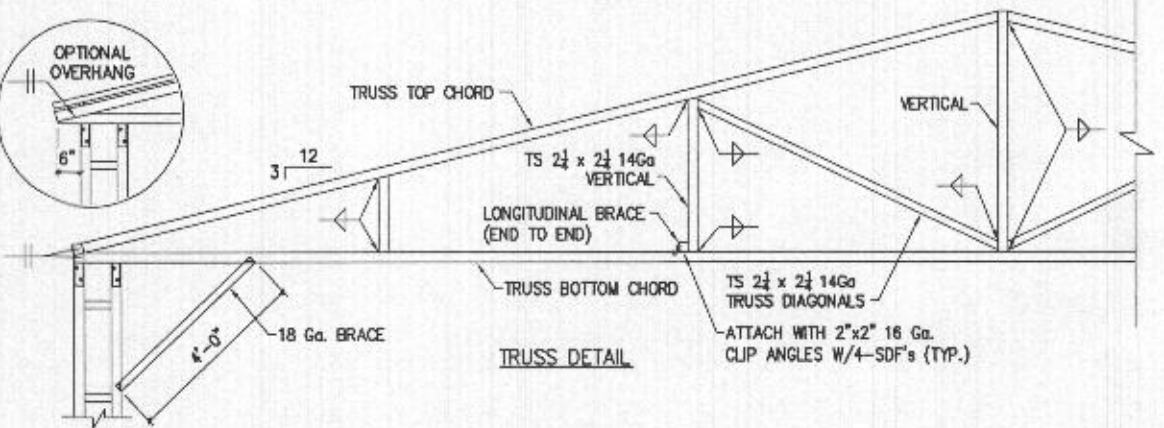
TYPICAL SIDE EXTENSION SECTION



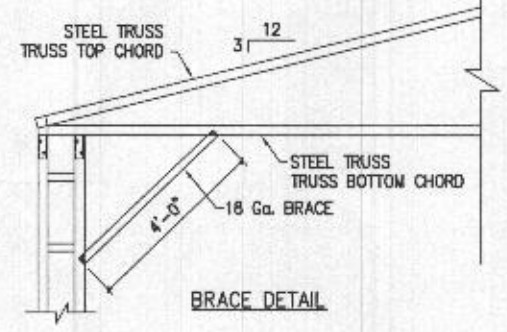
SIDE ELEVATION



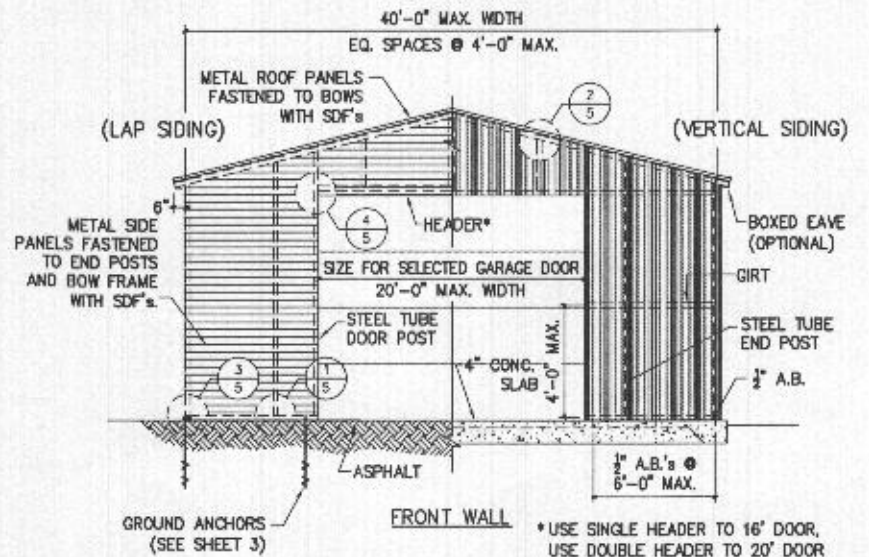
SIDE OPENING



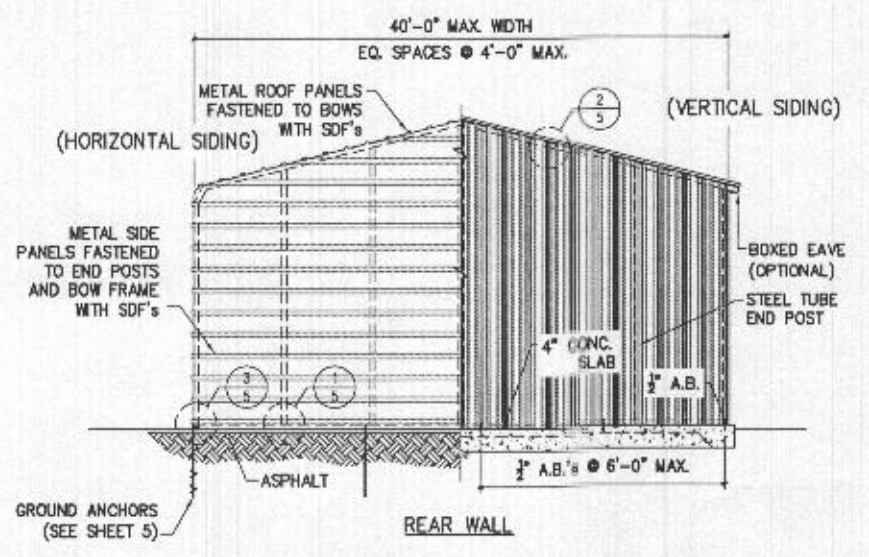
TRUSS DETAIL



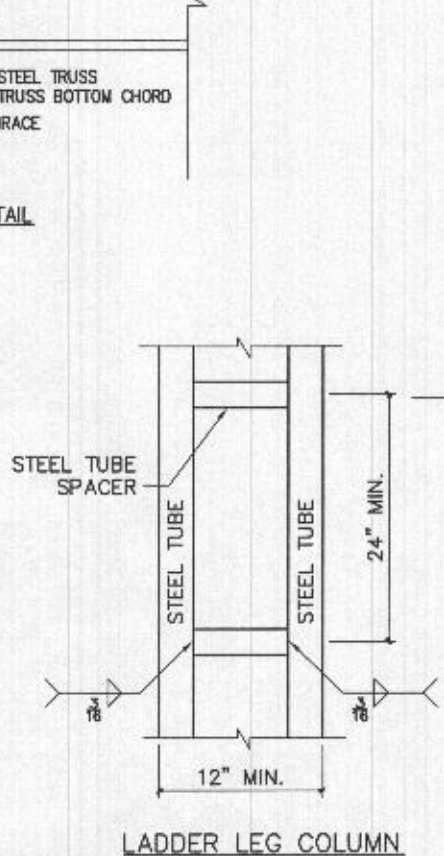
BRACE DETAIL



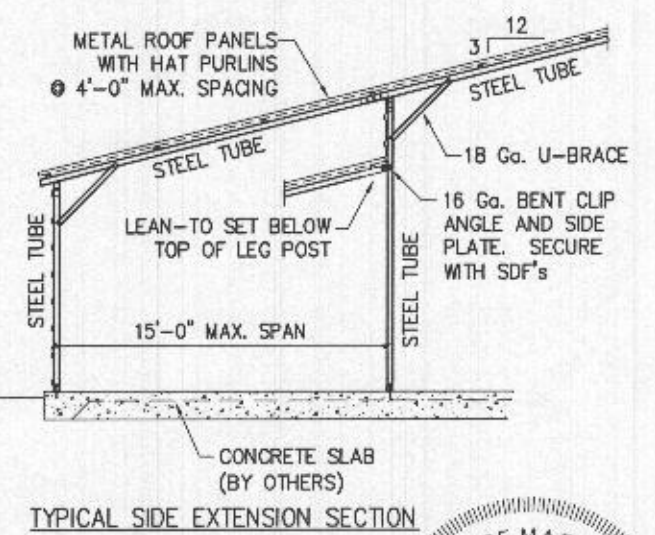
FRONT WALL



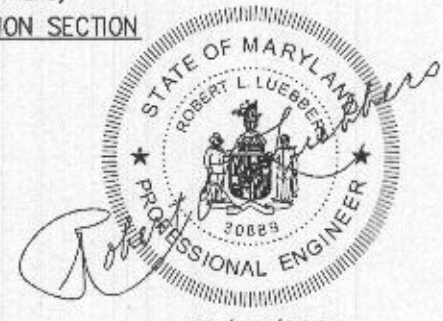
REAR WALL



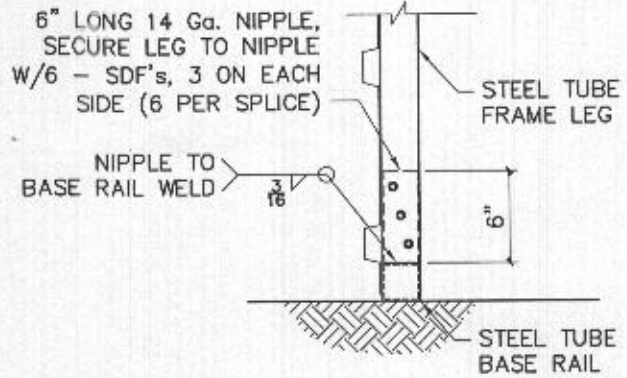
LADDER LEG COLUMN



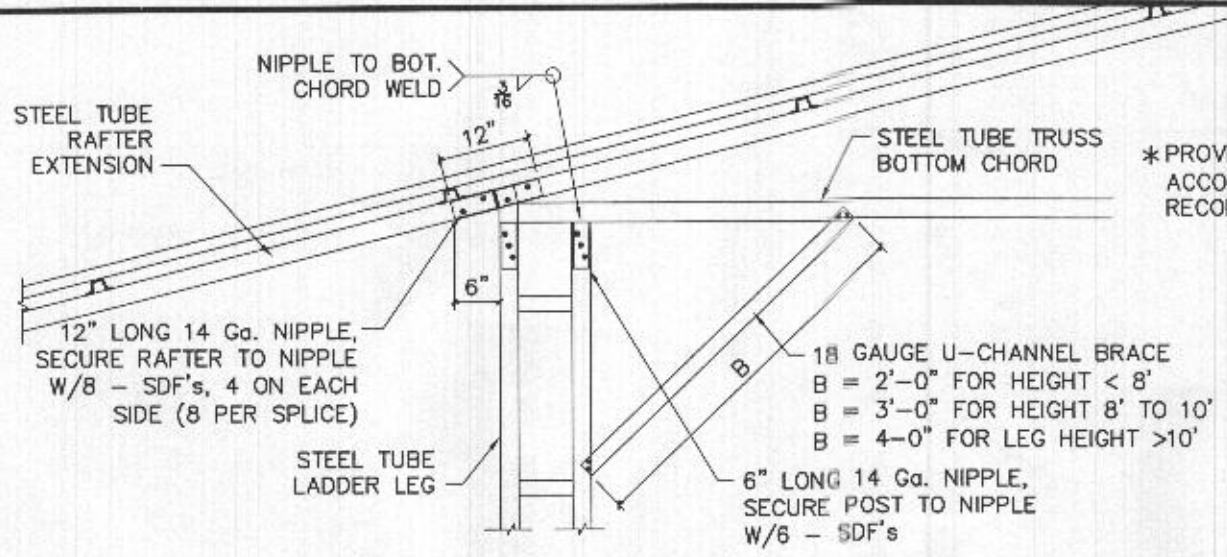
TYPICAL SIDE EXTENSION SECTION



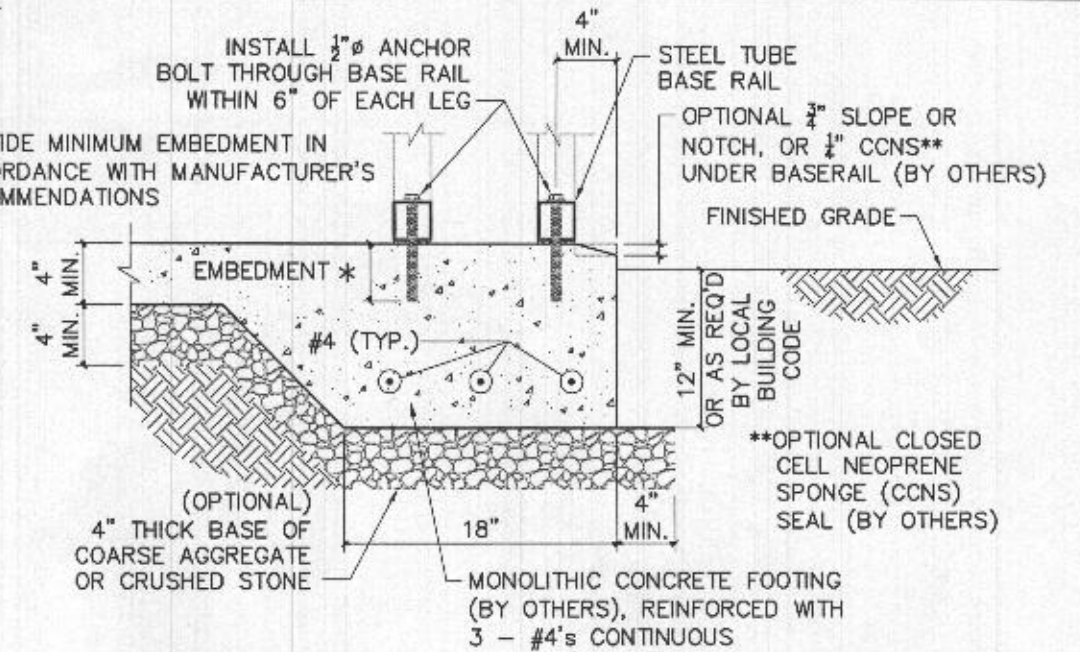
07/19/2021



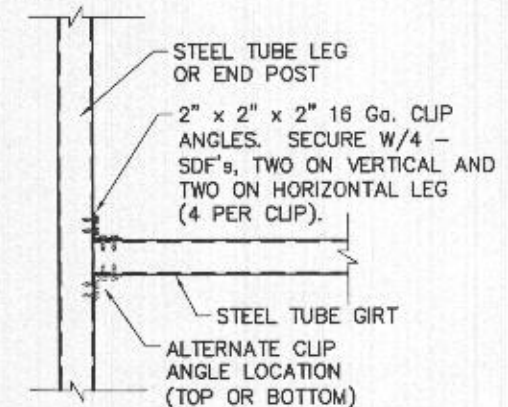
8/5 LEG/BASE RAIL CONNECTION DETAIL



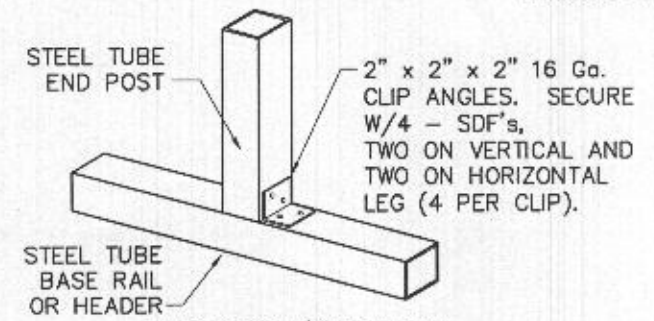
TRUSS CONNECTION DETAIL



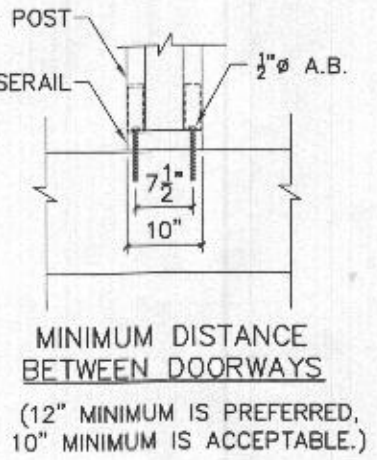
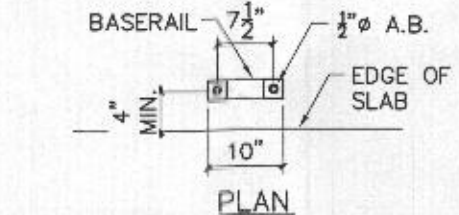
2/3 CONCRETE BASE RAIL ANCHORAGE (LADDER LEG)



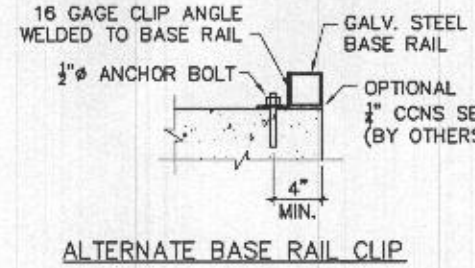
4/5 ENDWALL TO HEADER OR GIRT TO POST CONNECTION



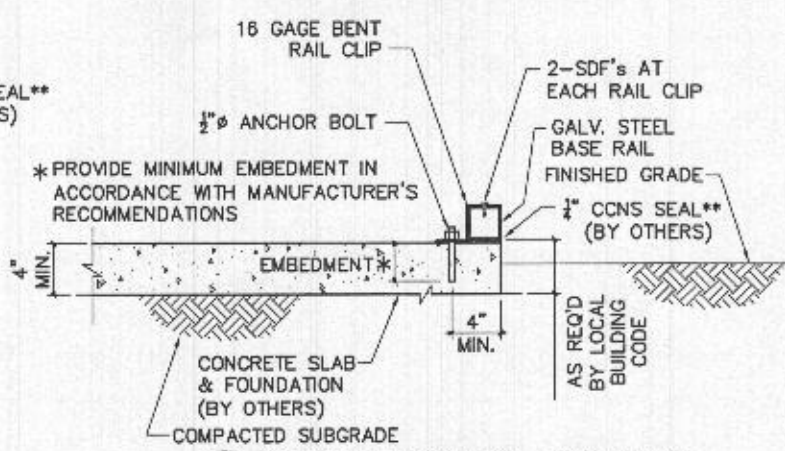
1/5 END POST/BASE RAIL CONNECTION DETAIL



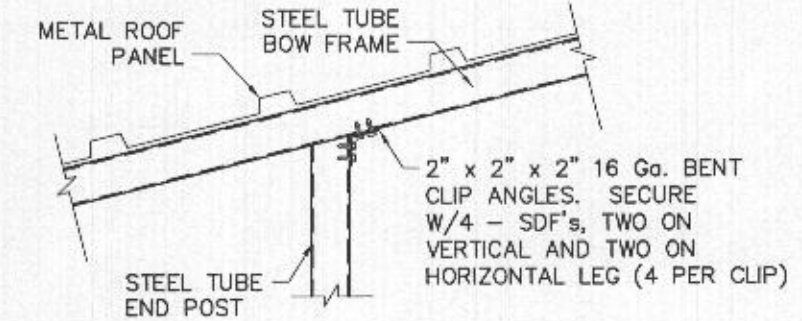
MINIMUM DISTANCE BETWEEN DOORWAYS (12" MINIMUM IS PREFERRED, 10" MINIMUM IS ACCEPTABLE.)



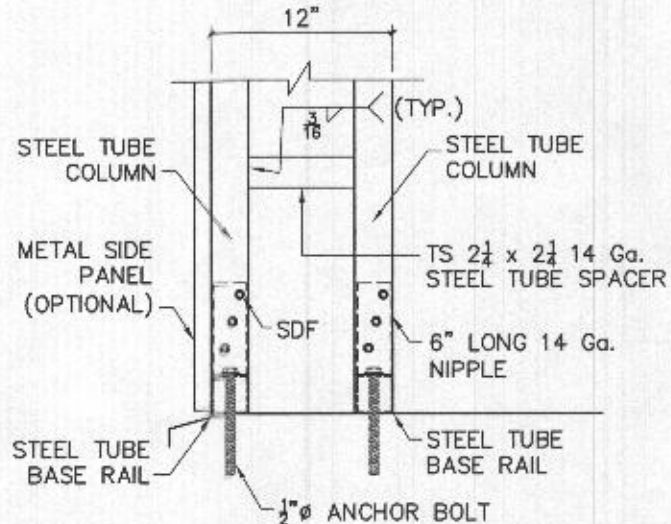
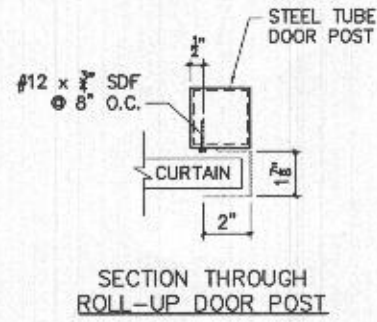
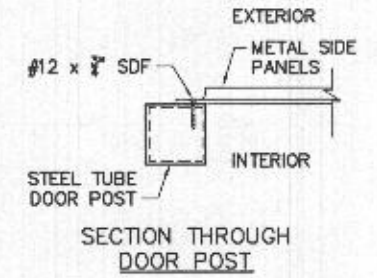
ALTERNATE BASE RAIL CLIP



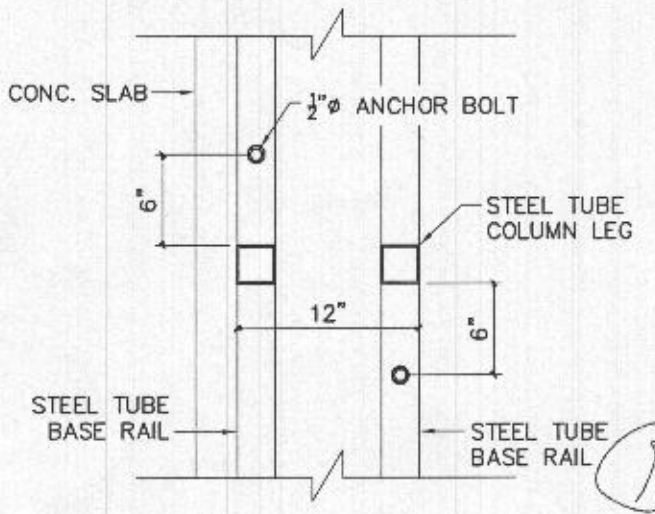
2/3 ALTERNATE BASE RAIL ANCHORAGE



2/5 END POST TO FRAME CONNECTION



3/5 LADDER LEG/BASE RAIL CONNECTION



LADDER LEG - BASE RAIL CONNECTION

**BREAKAWAY**

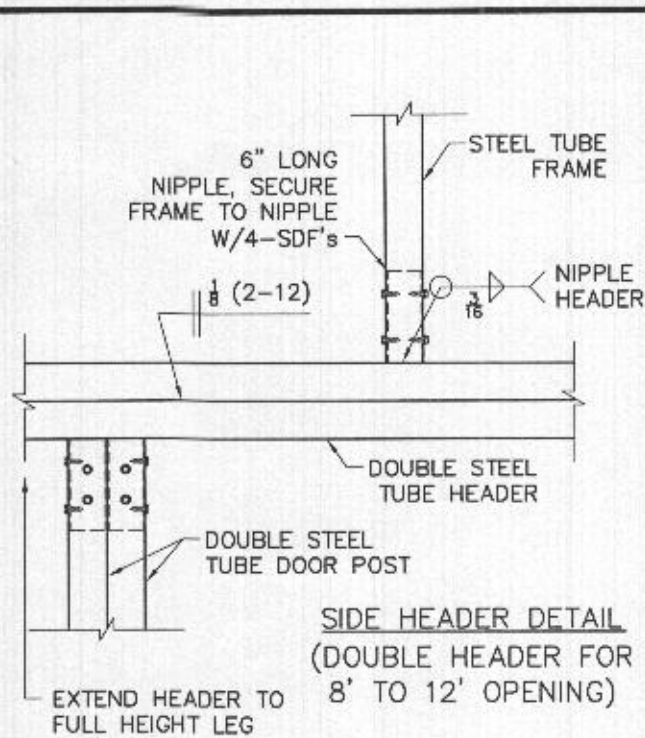
**FLOOD FLAPS, LLC**  
2707 Waterpointe Circle  
Mt. Pleasant, SC 29466  
8x15x5 Flood Vent  
Model FFWF05

**CRAWL SPACE DOOR SYSTEMS, INC.**  
5741 Boyside Road, #105  
Virginia Beach, VA 23455  
Engineered Flood Vent  
Model CSBA816

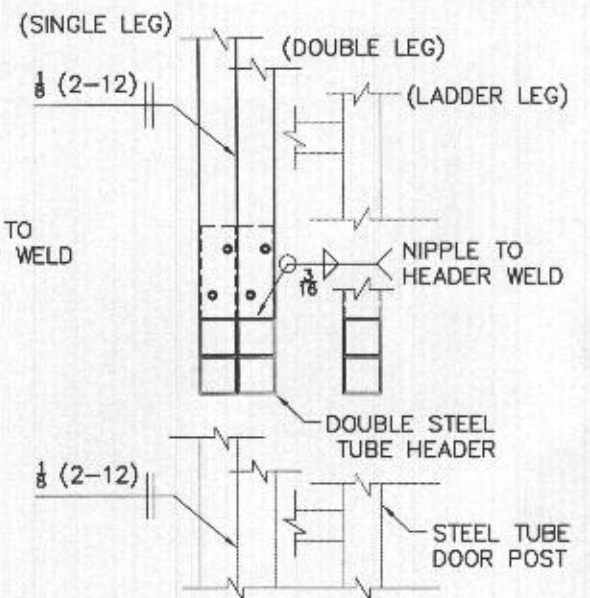
**FLOOD FLAPS**

FLOOD VENTS

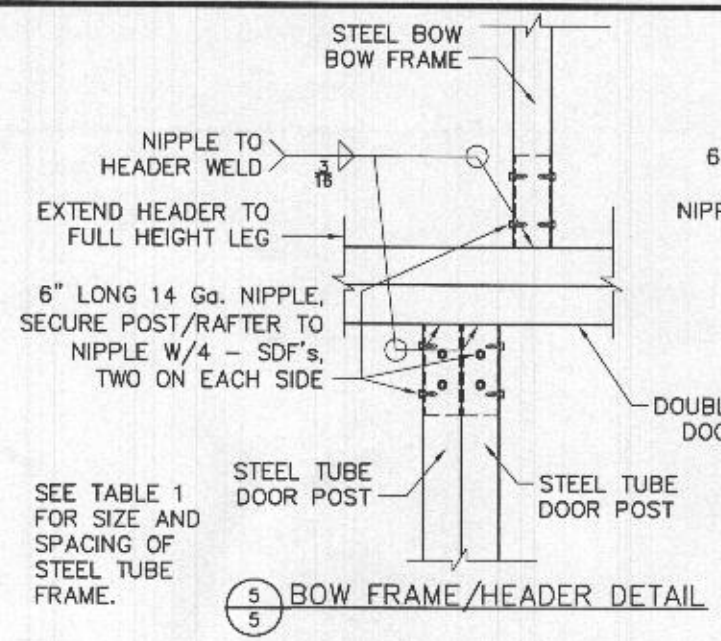
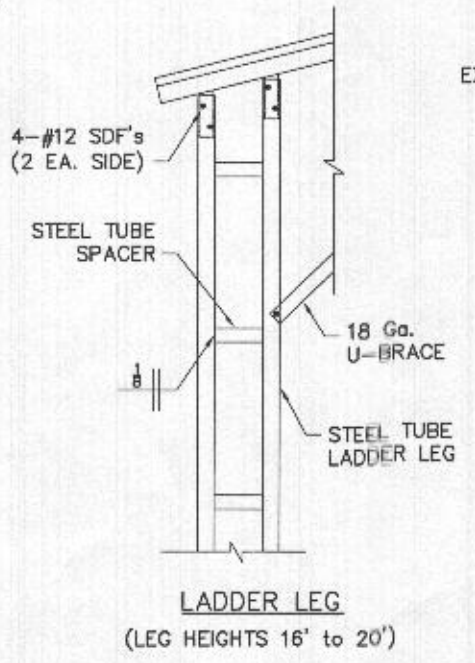
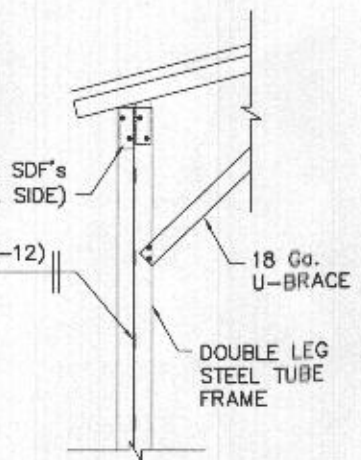
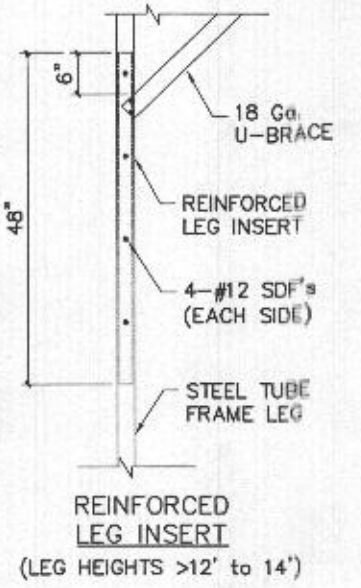




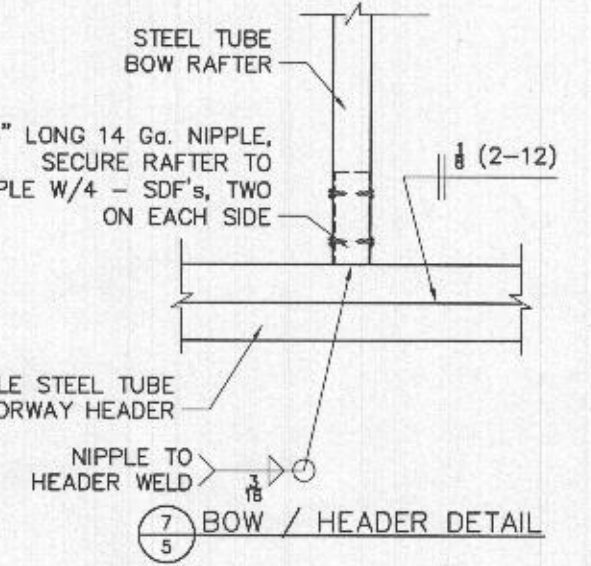
**SIDE HEADER DETAIL**  
(DOUBLE HEADER FOR 8' TO 12' OPENING)



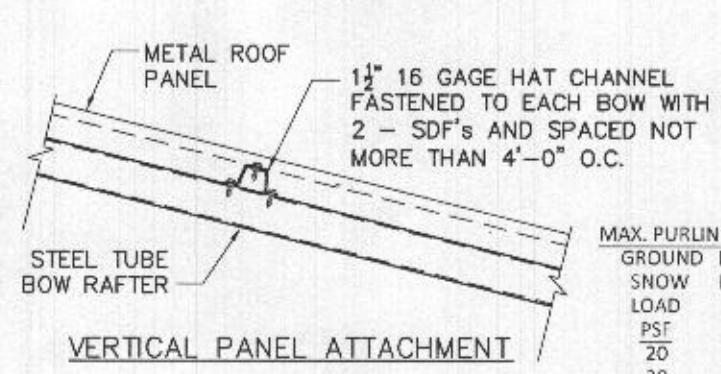
**HEADER SECTION**  
(ONE HEADER FOR SINGLE LEG, TWO HEADERS FOR DOUBLE LEG AND LADDER LEG)



**BOW FRAME/HEADER DETAIL**

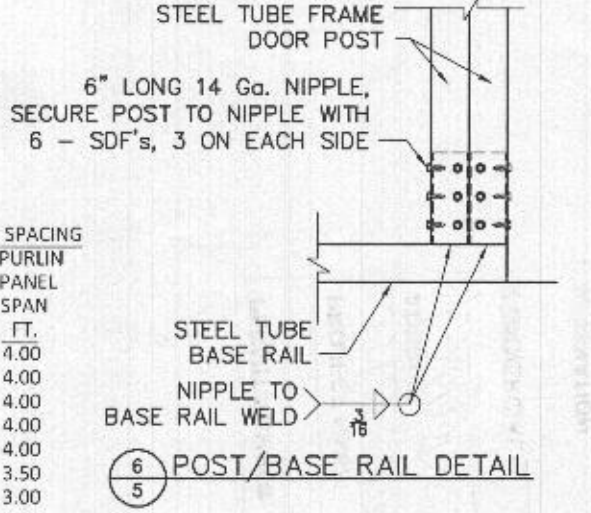


**BOW / HEADER DETAIL**

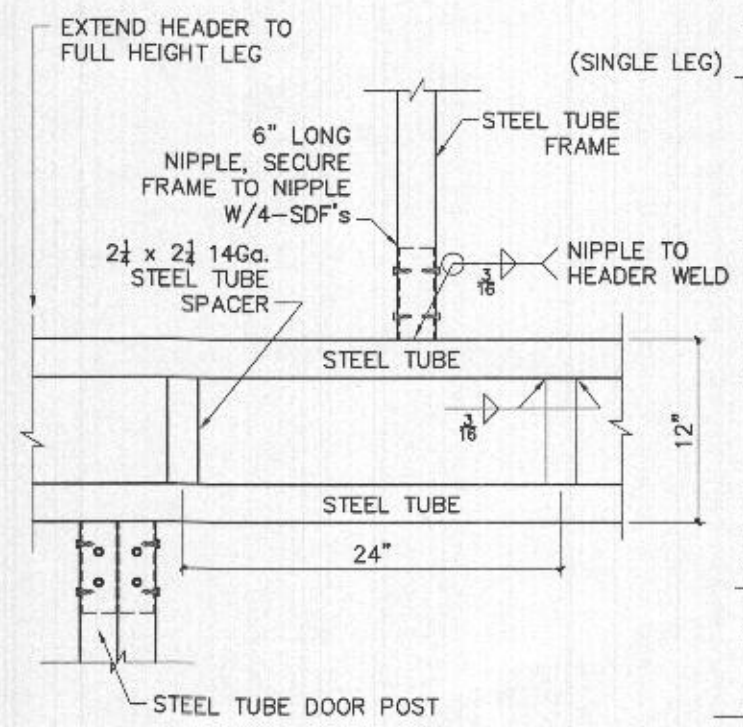


**VERTICAL PANEL ATTACHMENT**

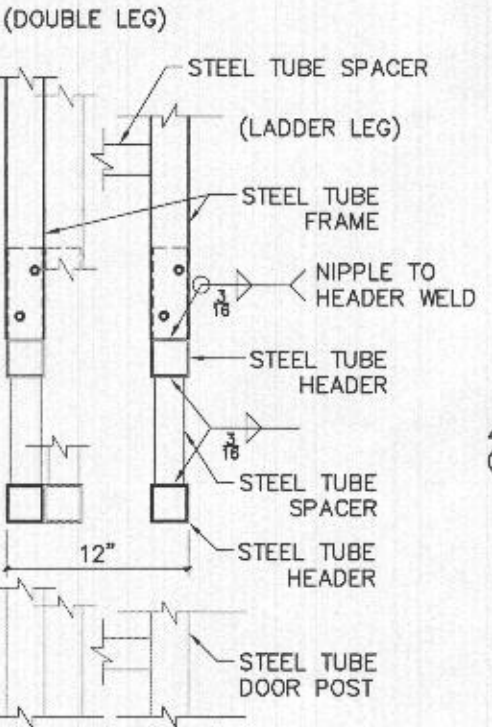
MAX. PURLIN SPACING	GROUND PURLIN	PURLIN
SNOW LOAD	PSF	PANEL SPAN FT.
20	4.00	4.00
30	4.00	4.00
35	4.00	4.00
45	4.00	4.00
65	4.00	4.00
75	3.50	3.00
90	3.00	3.00



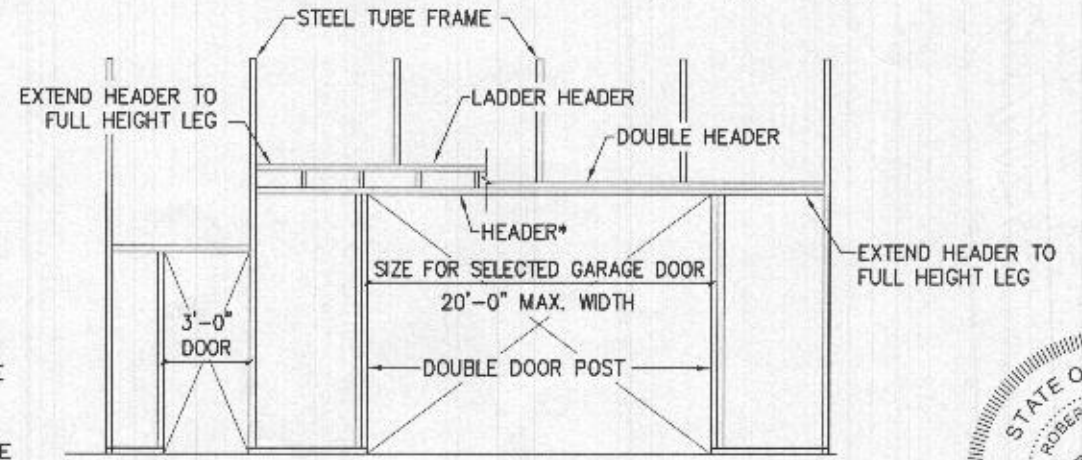
**POST/BASE RAIL DETAIL**



**SIDE HEADER DETAIL**  
(LADDER STYLE FOR 12' TO 20' OPENING)



**HEADER SECTION**  
(ONE HEADER FOR SINGLE LEG, TWO HEADERS FOR DOUBLE LEG AND LADDER LEG)



**SIDE OPENING**

\*USE DOUBLE HEADER TO 12' DOOR, USE LADDER HEADER TO 20' DOOR

