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VECTOR ENGINEERS
 9138 S. State St., Suite 101 (801) 990-1775
 Sandy, UT 84070 (801) 990-1776 FAX
 www.vectorse.com

DATE: 5-13-2013 DESIGNED: BDV DRAFTER: MGP

REVISIONS	
DATE	DESCRIPTION

DESIGNED EXCLUSIVELY FOR
EAGLE CARPORTS, INC.
 16398 FANCY GAP HIGHWAY
 CANA, VA 24317



CLIENT: Bryan ISD
 PROJECT LOCATION: Bryan, Texas

THE DRAWINGS PRESENTED IN THIS PACKAGE ARE INTENDED FOR A SINGLE USE FOR THE CLIENT LISTED ABOVE AT THE LOCATION LISTED ABOVE. THESE DRAWINGS SHALL NOT BE REPRODUCED, REUSED, "CARD FILED", SOLD TO A THIRD PARTY, OR ALTERED IN ANY WAY WITHOUT THE WRITTEN AUTHORIZATION OF VECTOR STRUCTURAL ENGINEERS, PC.

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TABLE 2

BOW SPAN (SEE DETAIL 1/S2)	BOW SPACING
12'-0" TO 24'-0"	5'-0"
26'-0" TO 30'-0"	4'-0"

TABLE 1

POST HEIGHT	POST/BOW GAGE	
	110 MPH MAX. WIND SPEED 20 PSF MAX. ROOF SNOW	120 MPH MAX. WIND SPEED 30 PSF MAX. ROOF SNOW
5'-0"	14 GA*	12 GA*
8'-0"	14 GA*	12 GA*
10'-0"	14 GA*	12 GA*
12'-0"	14 GA*	12 GA*

* - 14 GA TS SECTIONS TO BE 2-1/2" SQUARE
 12 GA TS SECTIONS TO BE 2-1/4" SQUARE

- NOTES:
- DESIGN IS BASED ON THE 2009 INTERNATIONAL BUILDING CODE AND THE ASCE 7-05 STANDARD.
 - LOADS:
 ROOF LIVE LOAD = 20 PSF
 ROOF SNOW LOAD = 30 PSF (MAX.)
 WIND 120 MPH (MAX.), (3-SEC. GUST), EXP. C
 OCCUPANCY CATEGORY: I
 - STEEL STRENGTH SHALL BE AS FOLLOWS:
 12 GA: Fy = 64.5 KSI
 14 GA: Fy = 50 KSI
 - LOCATE ANCHORS AT EACH END OF BOW.
 - FASTEN METAL ROOF PANELS TO BOW FRAME WITH 1/4"x1" SELF DRILLING FASTENERS (SDF) @ 8" O.C. MAX.
 - ALL FIELD CONNECTIONS SHALL BE 1/4"x1" SELF DRILLING SCREWS.
 - ALL SHOP CONNECTIONS SHALL BE WELDED.
 - CONTRACTOR/OWNER TO VERIFY FOOTING REQUIREMENTS WITH LOCAL BUILDING DEPARTMENT PRIOR TO CONSTRUCTION. FOOTING DESIGN IS THE RESPONSIBILITY OF OTHERS.

BOW FRAMING TABLES

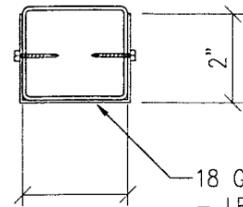
ELEVATION VIEW & NOTES

STANDARD CARPORT
 WITH OPTIONS

STANDARD SNOW & WIND RATING

U1319-001-111

S1 REV 0



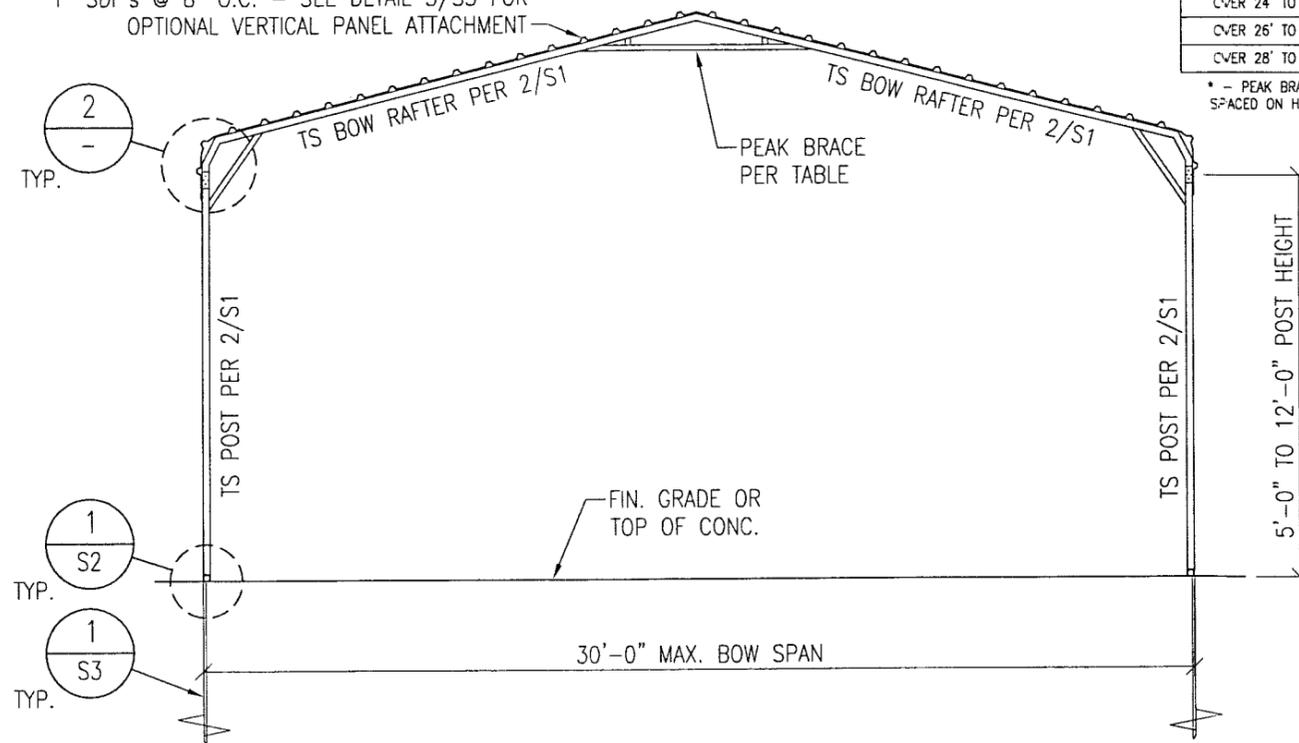
18 GA. U-CHANNEL BRACE
- LENGTH PER TABLE
FASTENED TO POST/LEG
AND BOW POSITIONED AT
45° w/ (2) 1/4" x 1"
SELF DRILLING SCREWS
(SDF's) AT EACH END, (4)
PER BRACE

BRACE CONNECTION DETAIL

N.T.S.

3

29 GA. CORRUGATED GALVANIZED METAL ROOF
PANELS FASTENED TO BOW FRAME WITH 1/4" x
1" SDF's @ 8" O.C. - SEE DETAIL 5/S5 FOR
OPTIONAL VERTICAL PANEL ATTACHMENT



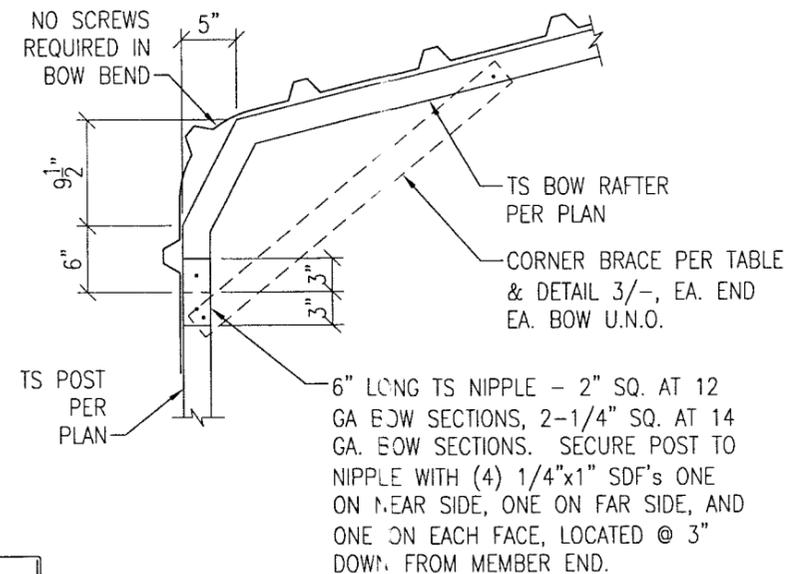
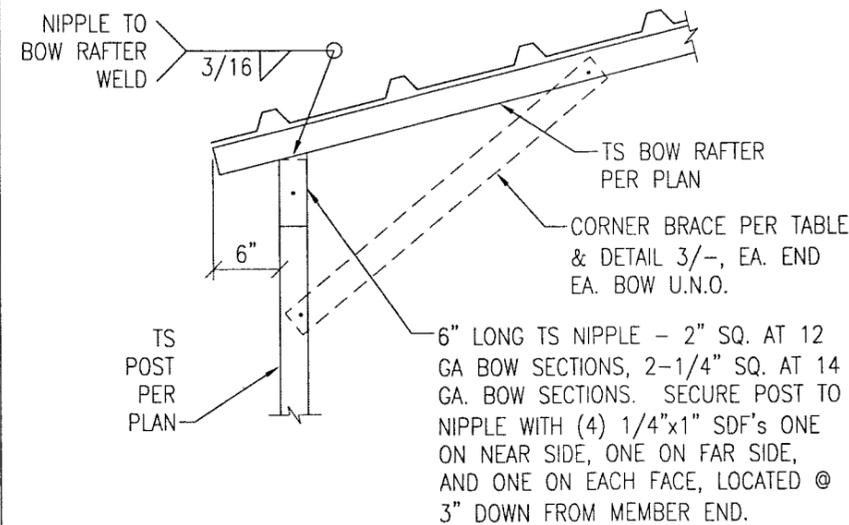
TYPICAL BOW SECTION

N.T.S.

1

PEAK BRACE TABLE	
BOW SPAN	BRACE
UP TO 24'	2'-0" LONG PER DTL 3/-
COVER 24' TO 26'	6'-0" LONG 2-1/4" SQ. 12 GA. TS*
COVER 26' TO 28'	8'-0" LONG 2-1/4" SQ. 12 GA. TS*
COVER 28' TO 30'	10'-0" LONG 2-1/4" SQ. 12 GA. TS*

* - PEAK BRACE TO HAVE (2) TS VERTS. EQUALLY
SPACED ON HORIZONTAL - BRACE TO BE FULLY WELDED



CORNER BRACE TABLE			
12' TO 24' BOW SPAN		26' TO 30' BOW SPAN	
POST HEIGHT	BRACE LENGTH	POST HEIGHT	BRACE LENGTH
5'-0" TO 8'-6"*	2'-0"*	6'-0" TO 8'-6"	2'-0"
9'-0" TO 12'-0"	3'-0"	9'-0" TO 12'-0"	3'-0"

* - CORNER BRACE REQUIRED AT END BOWS ONLY

BOW/POST DETAIL

N.T.S.

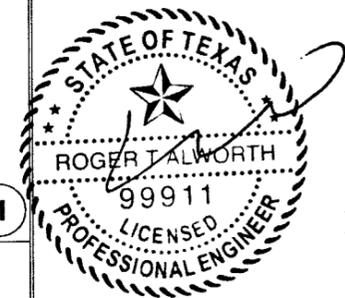
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BOW FRAME DETAILS

**STANDARD CARPORT
WITH OPTIONS**

STANDARD SNOW & WIND RATING

U1319-001-111

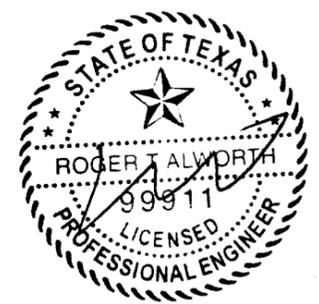
S2

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0

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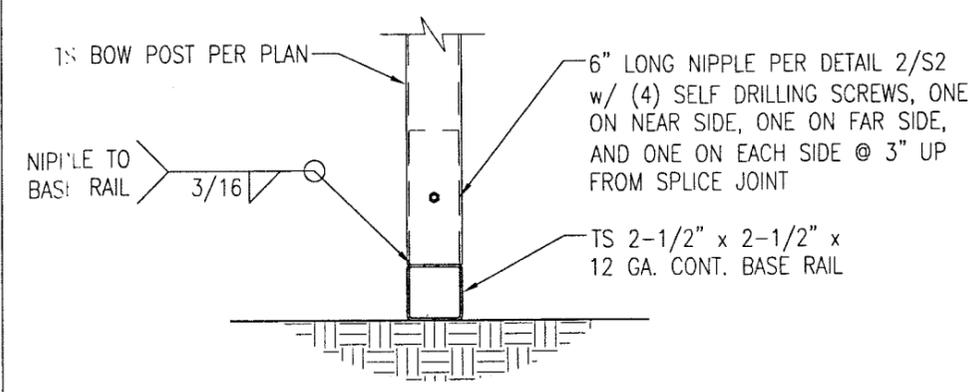
ANCHORAGE DETAILS

STANDARD CARPORT WITH OPTIONS

STANDARD SNOW & WIND RATING

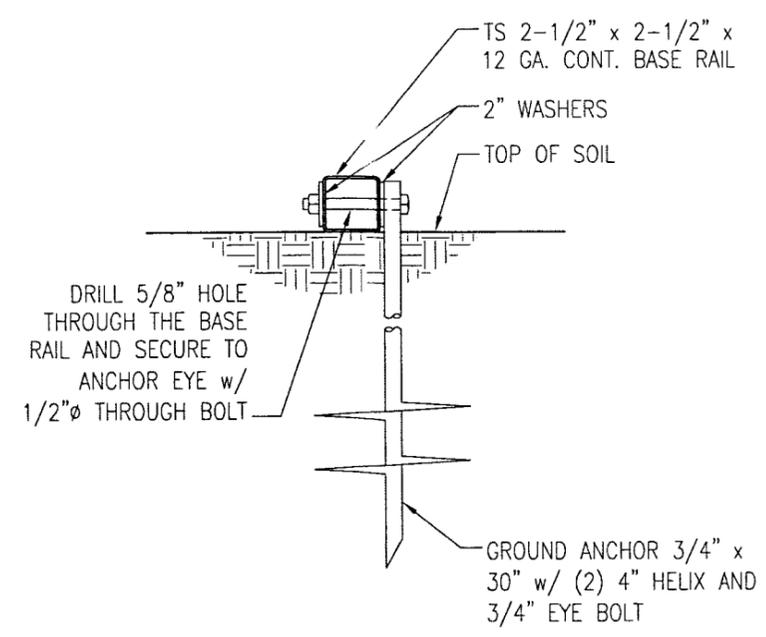
U1319-001-111

S3 REV 0



BOW/BASE RAIL CONNECTION DETAIL

N.T.S. **3**



BASE RAIL ANCHORAGE

N.T.S. **1**

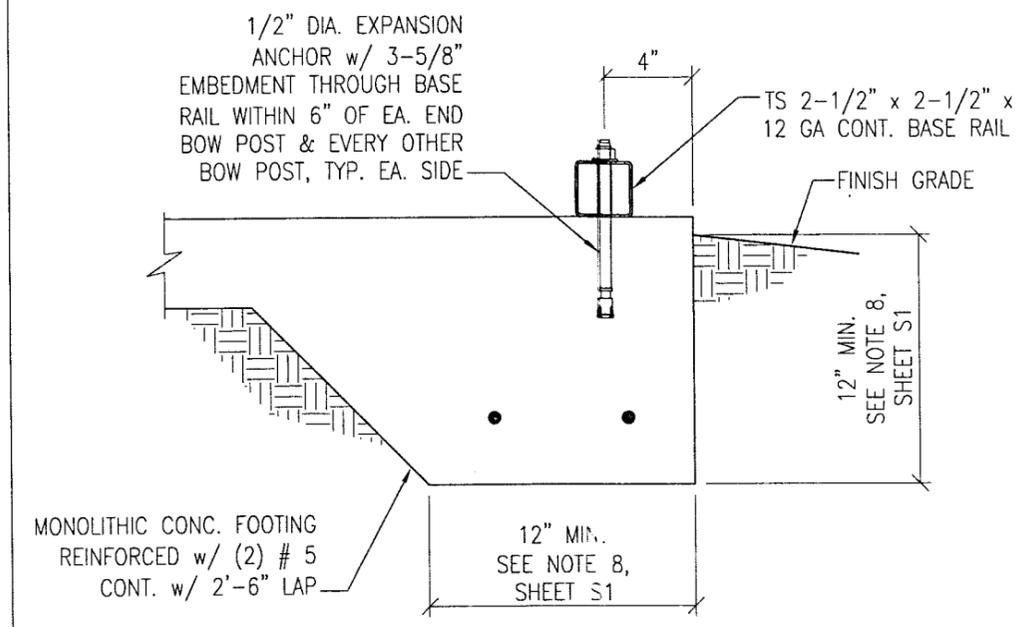
CONCRETE:
 CONCRETE SHALL HAVE A MIN. SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL
 FOR FOUNDATIONS, MIN. CONCRETE COVER OVER REINFORCING BARS SHALL BE:
 3" IN FOUNDATION WHERE THE 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 MIN. GRADE 40

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 AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

- REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD
 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX BAR DIAMETERS
 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT. EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1" OF HORIZONTAL DISPLACEMENT TO 6" OF VERTICAL BAR LENGTH.



CONCRETE BASE RAIL ANCHORAGE

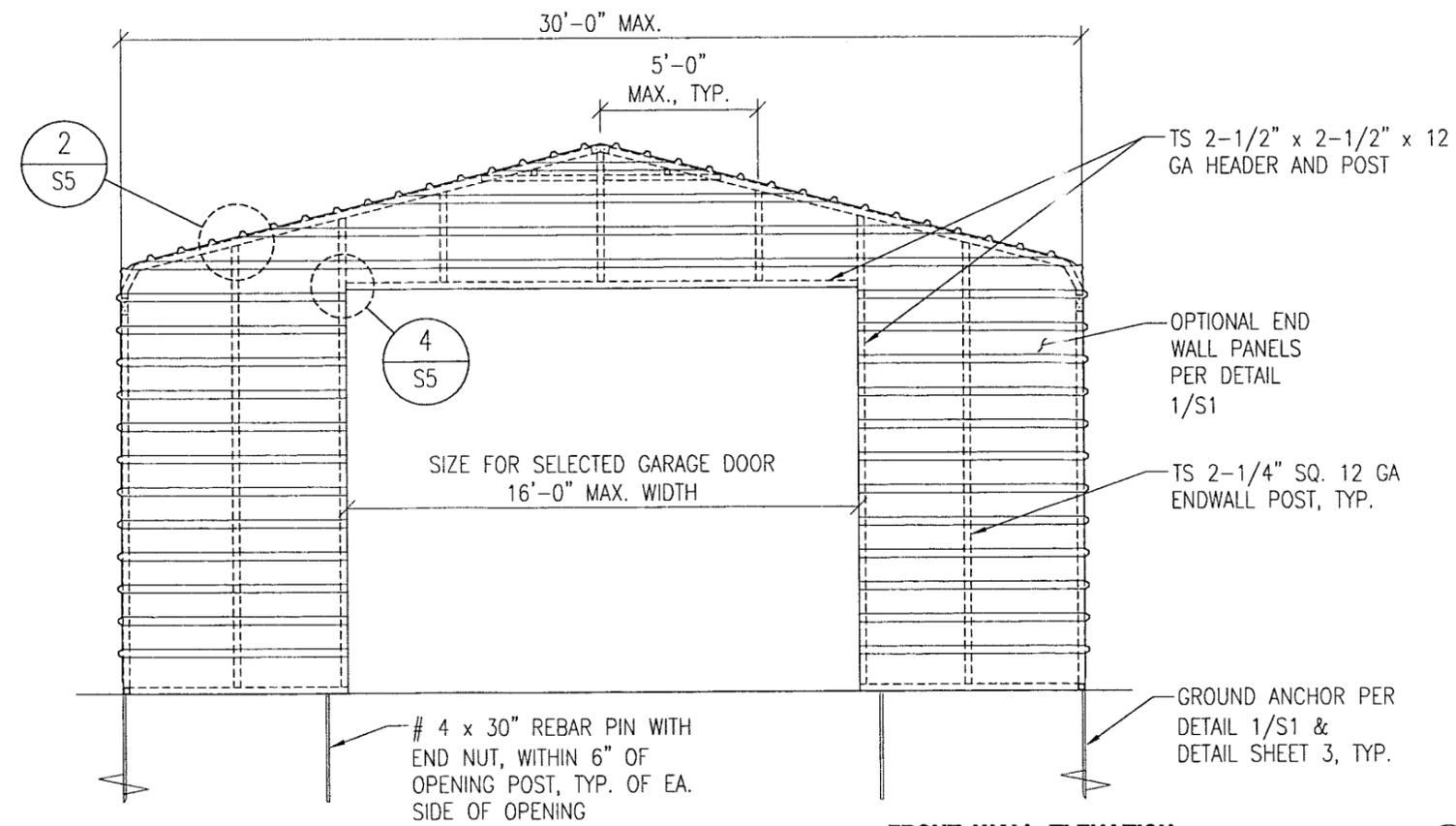
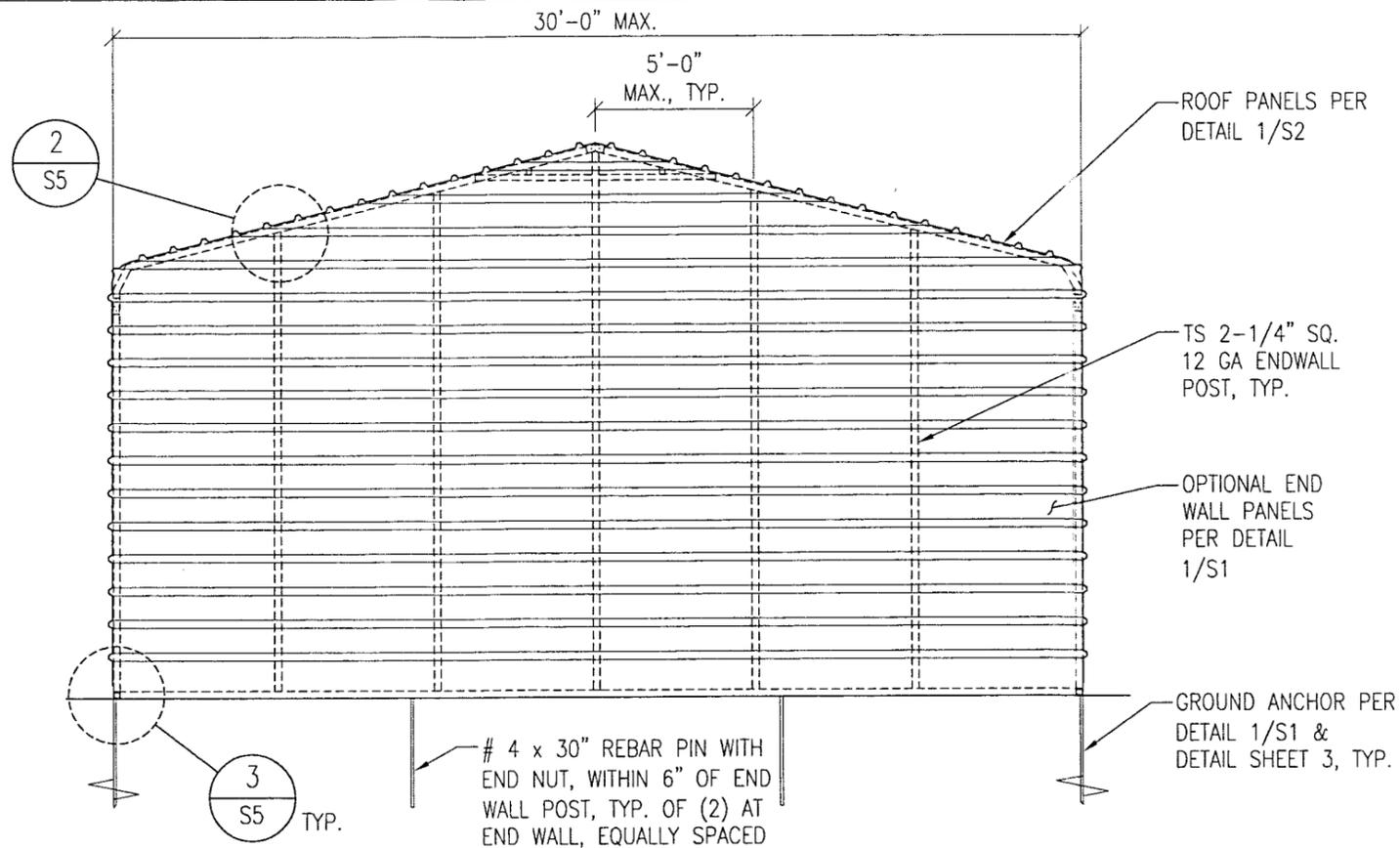
N.T.S. **2**

NOTE:

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWDA 101/IS2 2/97
 THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC PRESSURE.

DOOR TABLE	
CARPORT WIDTH	MAX. DOOR WIDTH
12'-0" TO 18'-0"	10'-0"
20'-0"	12'-0" OR (2) 8'-0"
22'-0"	12'-0" OR (2) 9'-0"
24'-0" TO 28'-0"	16'-0" OR (2) 10'-0"
30'-0"	16'-0" OR (2) 12'-0"

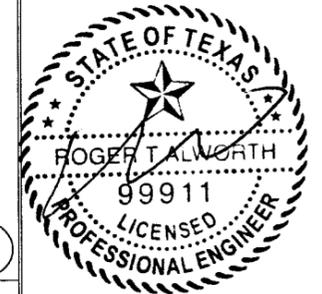


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END WALL ELEVATIONS

STANDARD CARPORT WITH OPTIONS

STANDARD SNOW & WIND RATING

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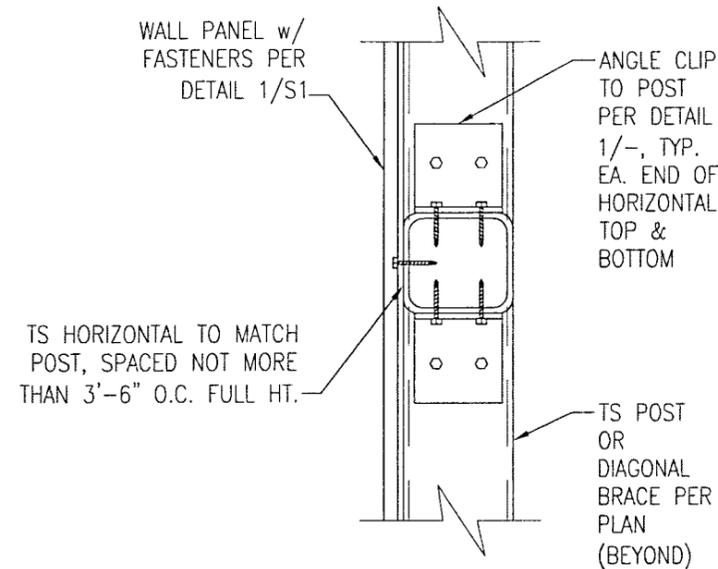
DETAILS

STANDARD CARPORT WITH OPTIONS

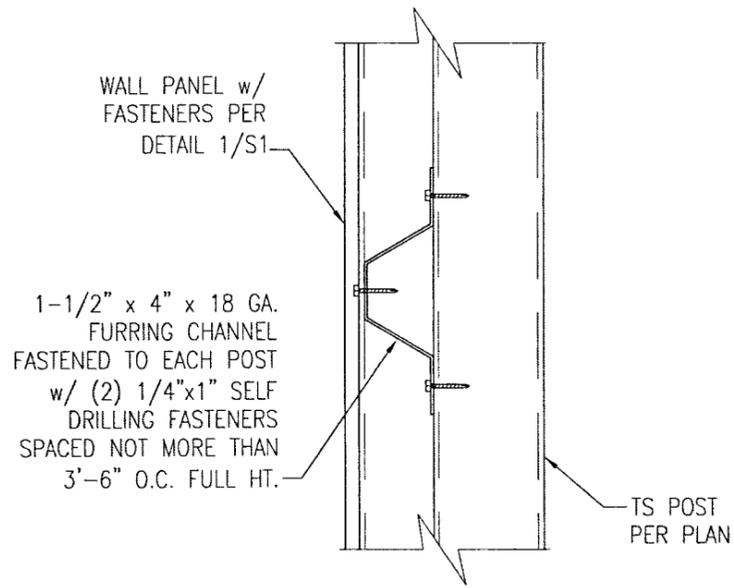
STANDARD SNOW & WIND RATING

U1319-001-111

S5 REV 0

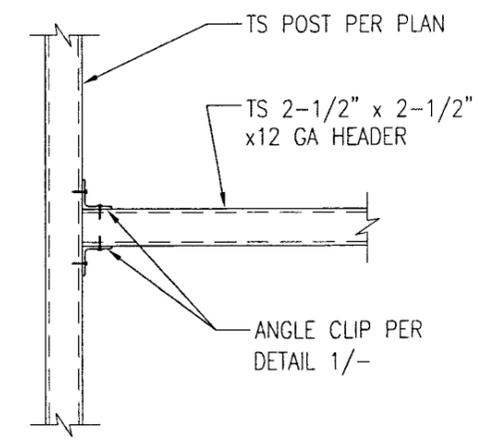


FLUSH TS HORIZONTAL OPTION

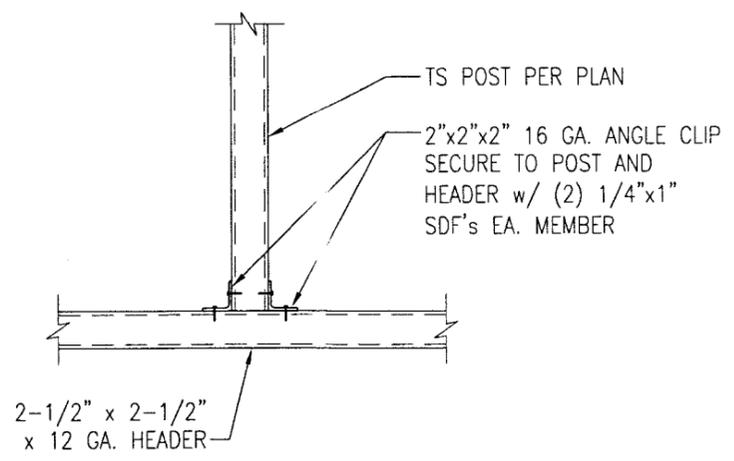


FURRING CHANNEL OPTION

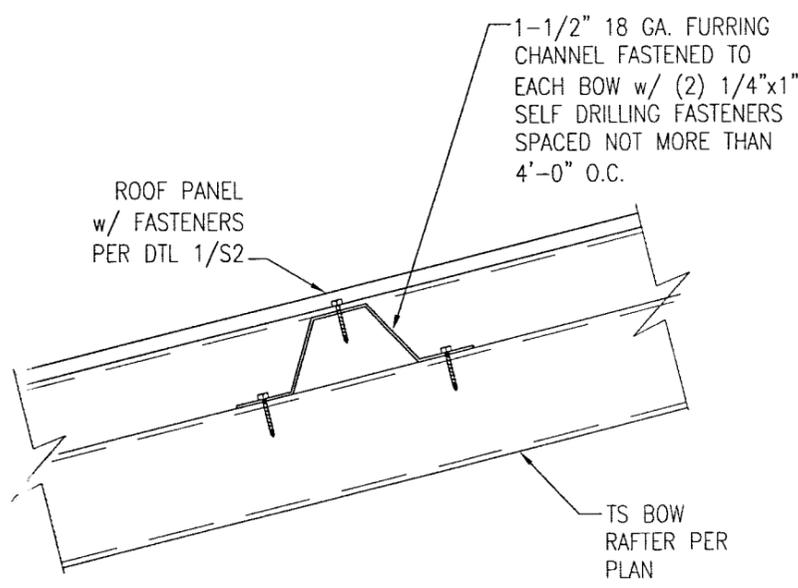
VERTICAL WALL PANEL ATTACHMENT N.T.S. **6**



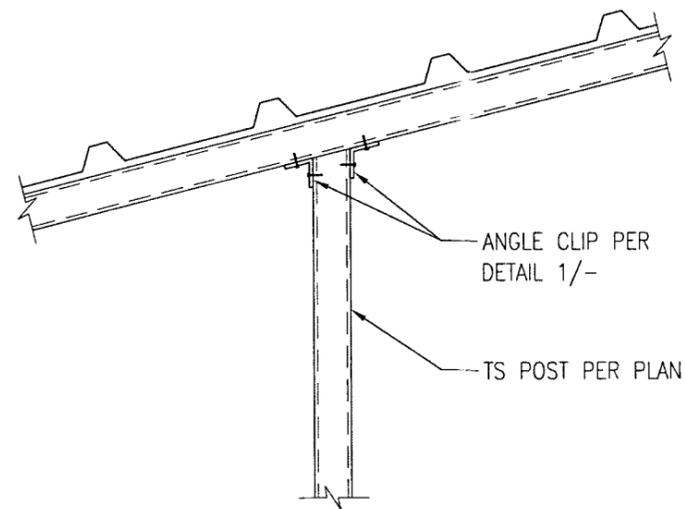
HEADER TO POST CONN. DETAIL N.T.S. **4**



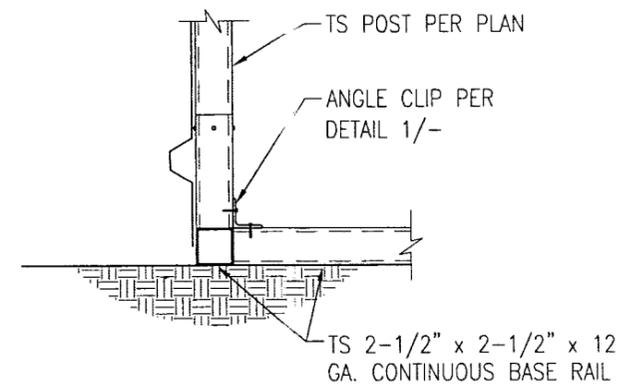
END POST TO HEADER/RAIL CONN. DETAIL N.T.S. **1**



VERTICAL ROOF PANEL ATTACHMENT N.T.S. **5**



END POST/BOW CONN. DETAIL N.T.S. **2**

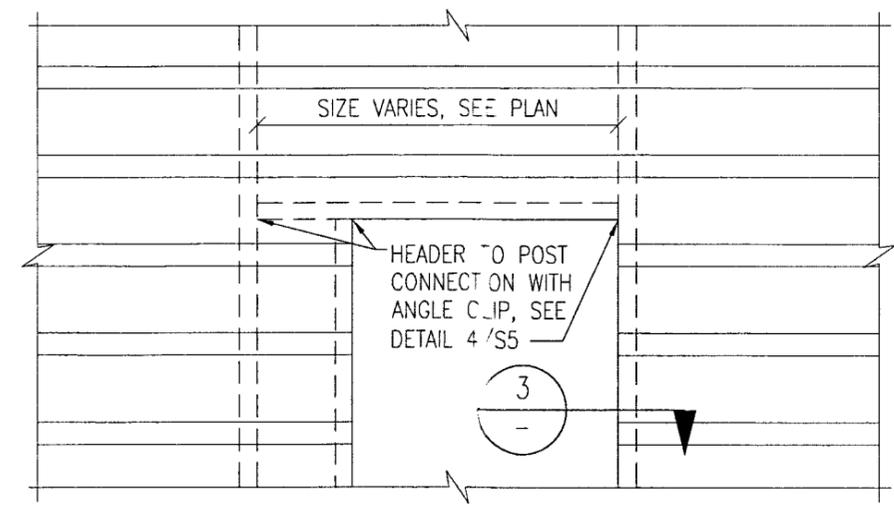


END BOW/BASE RAIL CONN. DETAIL N.T.S. **3**

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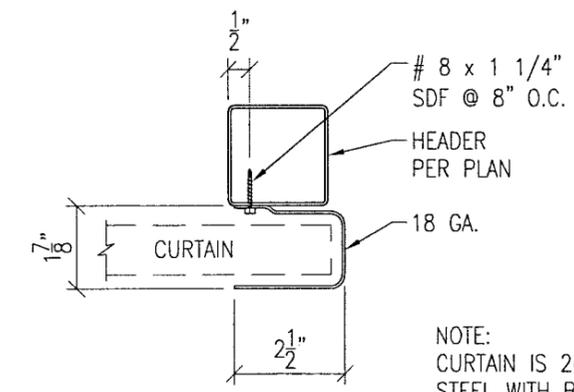
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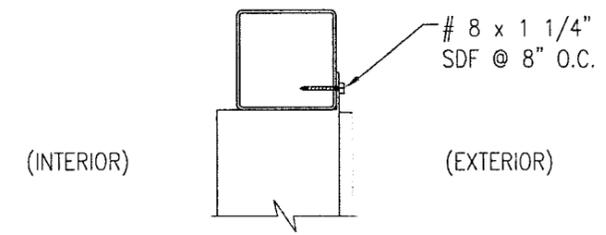
DOOR FRAME, PLAN VIEW

N.T.S. **1**



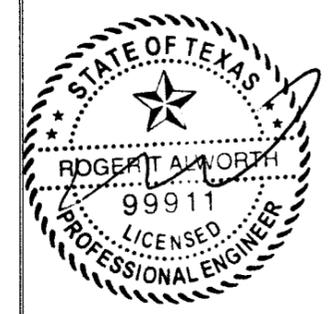
SECTION THROUGH ROLL UP DOOR HEADER

N.T.S. **2**



SECTION

N.T.S. **3**



NOV 26 2013

DETAILS

STANDARD CARPORT WITH OPTIONS

STANDARD SNOW & WIND RATING

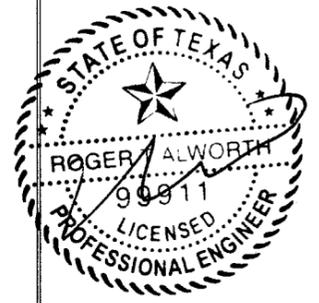
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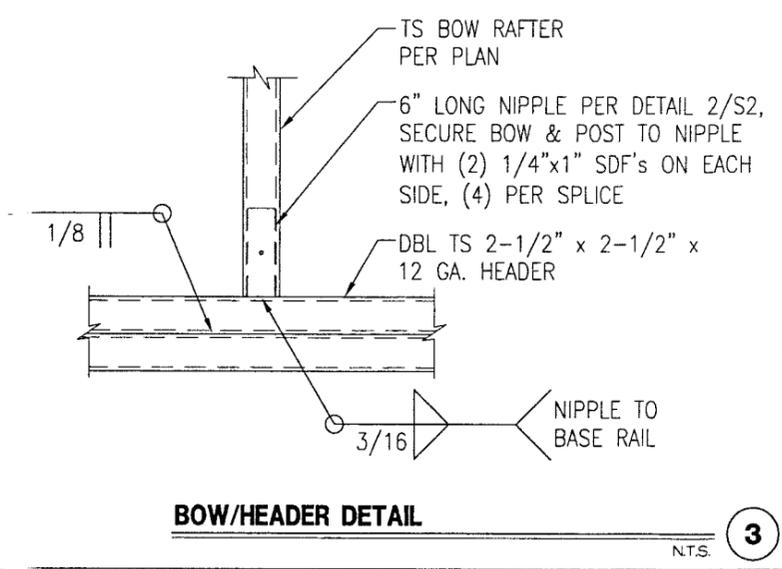


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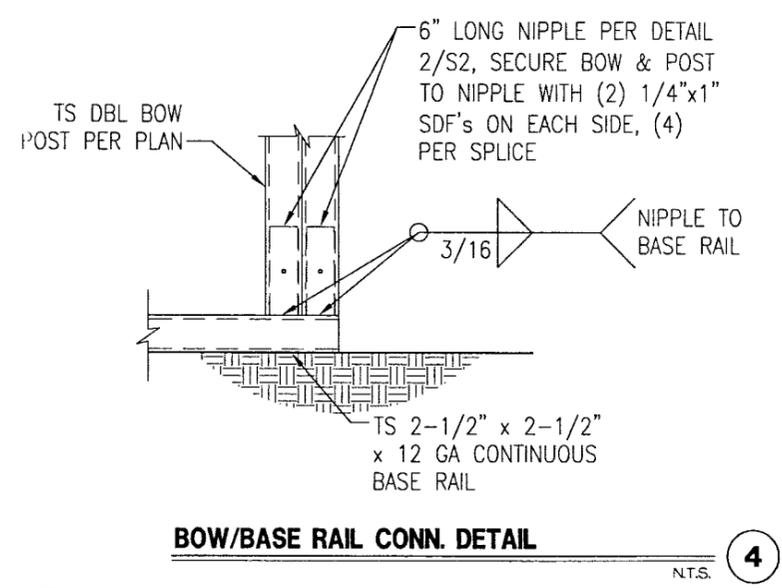
DETAILS
STANDARD CARPORT
WITH OPTIONS
 STANDARD SNOW & WIND RATING

U1319-001-111

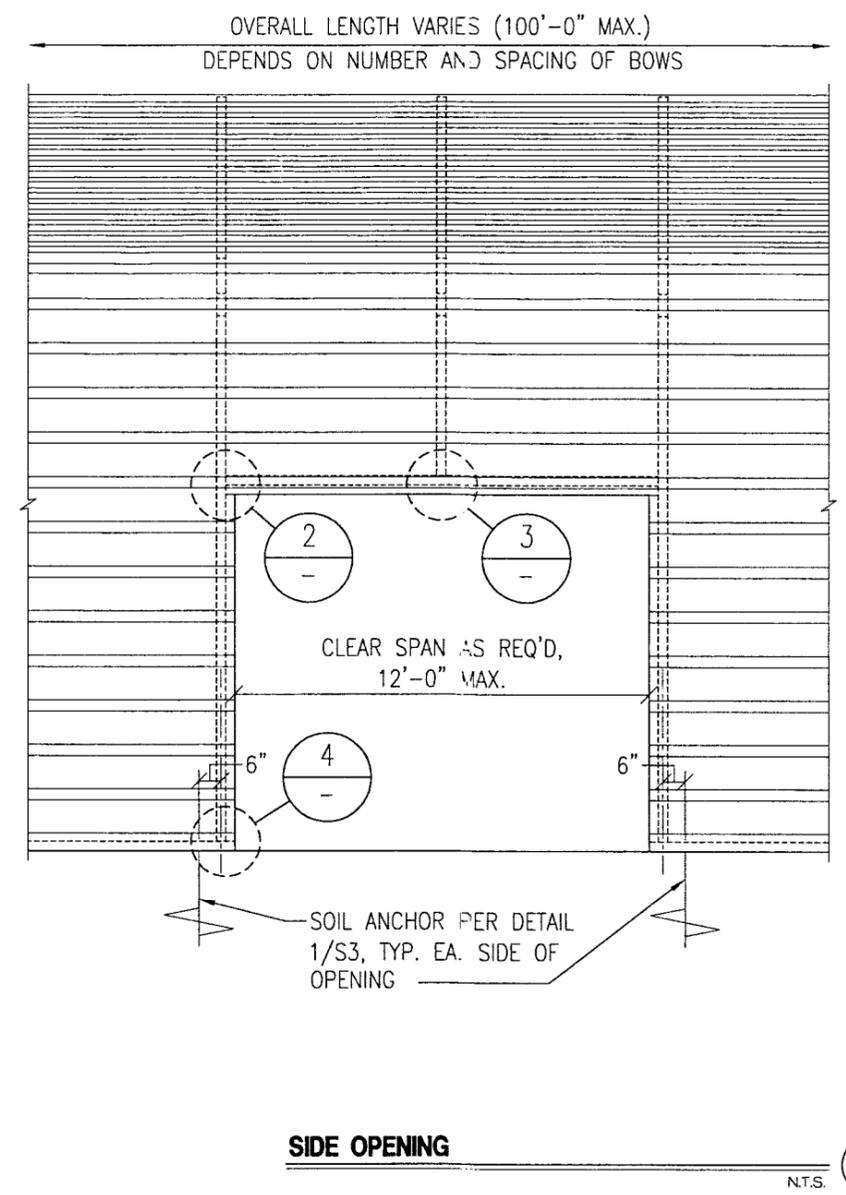
S7 REV 0



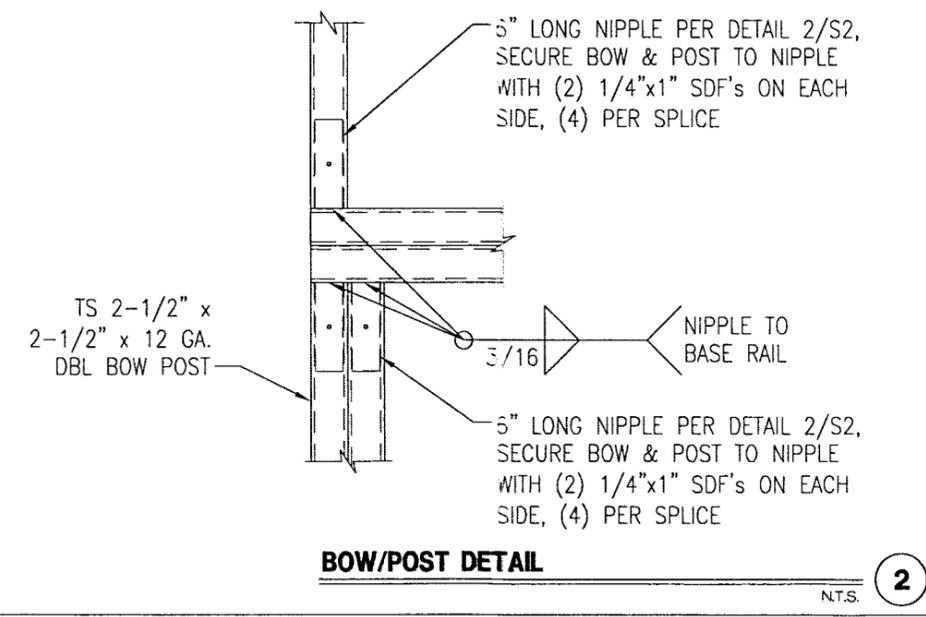
BOW/HEADER DETAIL N.T.S. **3**



BOW/BASE RAIL CONN. DETAIL N.T.S. **4**



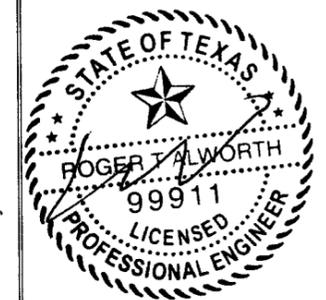
SIDE OPENING N.T.S. **1**



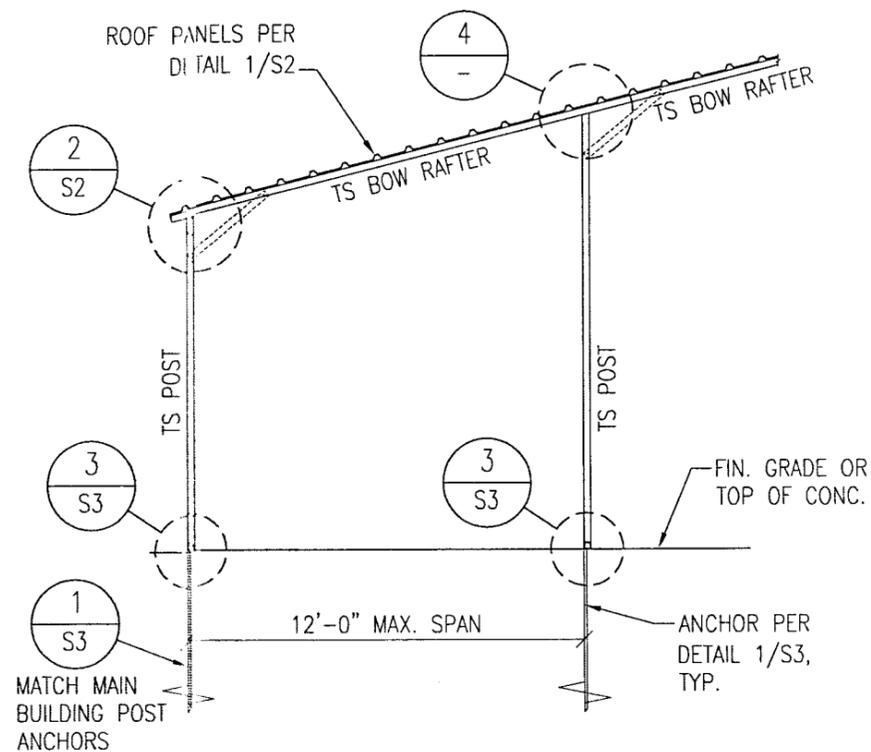
BOW/POST DETAIL N.T.S. **2**

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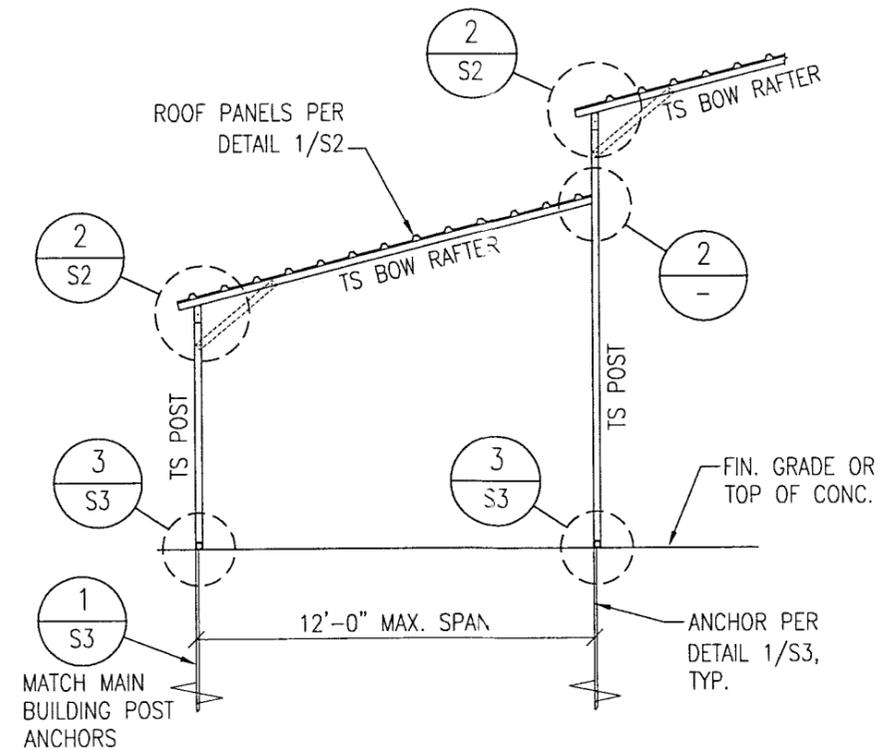


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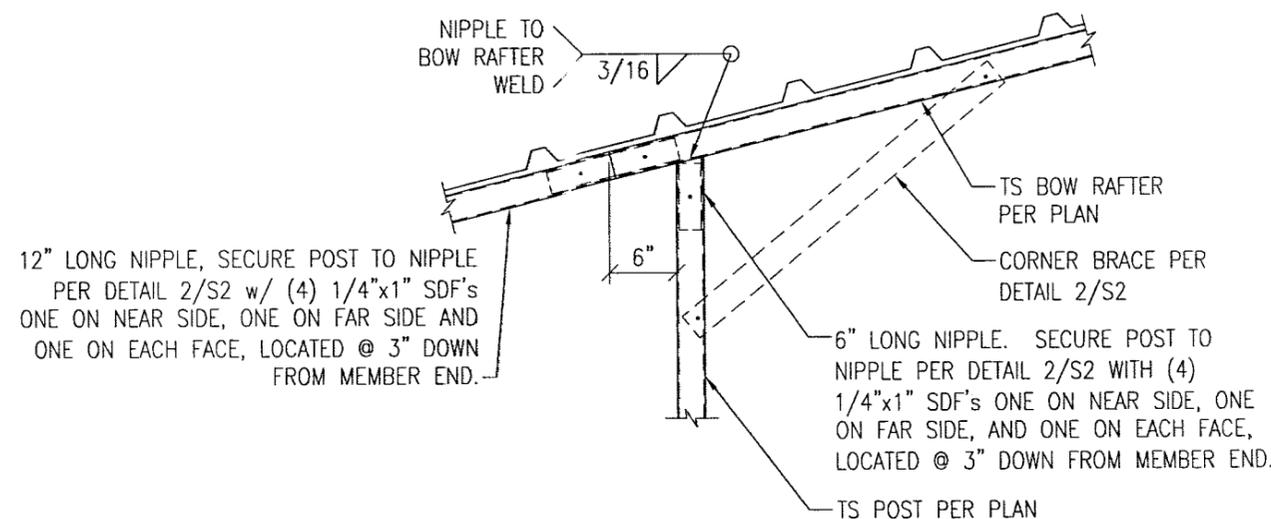
IN-LINE EXTENSION SECTION

N.T.S. **3**



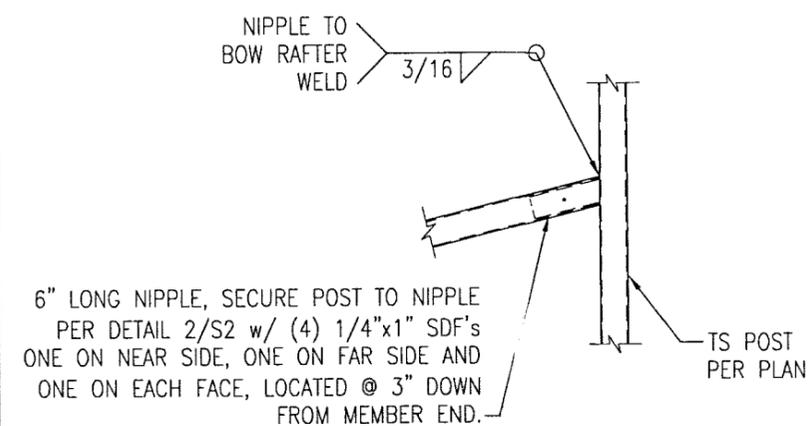
STEP-DOWN EXTENSION SECTION

N.T.S. **1**



IN-LINE CONNECTION DETAIL

N.T.S. **4**



STEP-DOWN CONNECTION DETAIL

N.T.S. **2**

DETAILS

**STANDARD CARPORT
WITH OPTIONS**

STANDARD SNOW & WIND RATING

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S8

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0