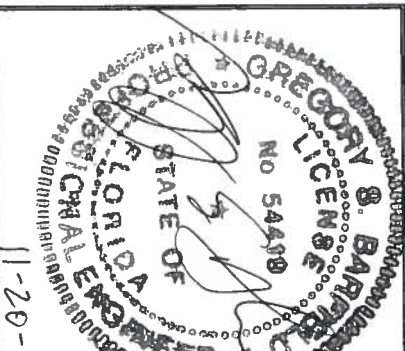


DESIGNED EXCLUSIVELY FOR
**ALL METAL
BUILDINGS**

REVISIONS	
DATE	DESCRIPTION

ENGINEER

GREGORY S. BARFIELD,
2149 NELL PURVIS RD.
ADEL, GA 31620
LICENSE # 54419



DRAWING INDEX

- S1 ELEVATION VIEW & NOTES
- S2 BOW FRAME DETAILS
- S3 ANCHORAGE DETAILS
- S4 END WALL ELEVATIONS
- S5 DETAILS
- S6 DETAILS
- S7 DETAILS
- S8 DETAILS
- S9 ROOF AND WALL BRACING DETAILS

NOTES:
1. DESIGN IS BASED ON THE FLORIDA BUILDING CODE(2017) AND THE ASCE 7-10 STANDARD
2. LOADS:
WIND: V_{ult} = 170 MPH (MAX.), (3-SEC. GUST)
RISK CATEGORY: I
WIND EXPOSURE: C
ROOF/SNOW LOAD = 5 PSF MAX.
SEISMIC DESIGN CATEGORY: D

- 3. STEEL TUBES SHALL BE AS FOLLOWS:
12 GA: F_y = 64.5 KSI - 2-1/4" SQUARE
14 GA: F_y = 50 KSI - 2-1/2" SQUARE
- 4. LOCATE ANCHORS AT EACH END OF BOW.
- 5. FASTEN METAL ROOF PANELS TO BOW FRAME WITH 1/4"x1" SELF DRILLING FASTENERS (SDF) @ 8" O.C. MAX.
- 6. ALL FIELD CONNECTIONS SHALL BE 1/4"x1" SELF DRILLING SCREWS.
- 7. ALL SHOP CONNECTIONS SHALL BE WELDED.
- 8. CONTRACTOR/OWNER TO VERIFY FOOTING REQUIREMENTS WITH LOCAL BUILDING DEPARTMENT PRIOR TO CONSTRUCTION. FOOTING DESIGN IS THE RESPONSIBILITY OF OTHERS.

ELEVATION VIEW & NOTES

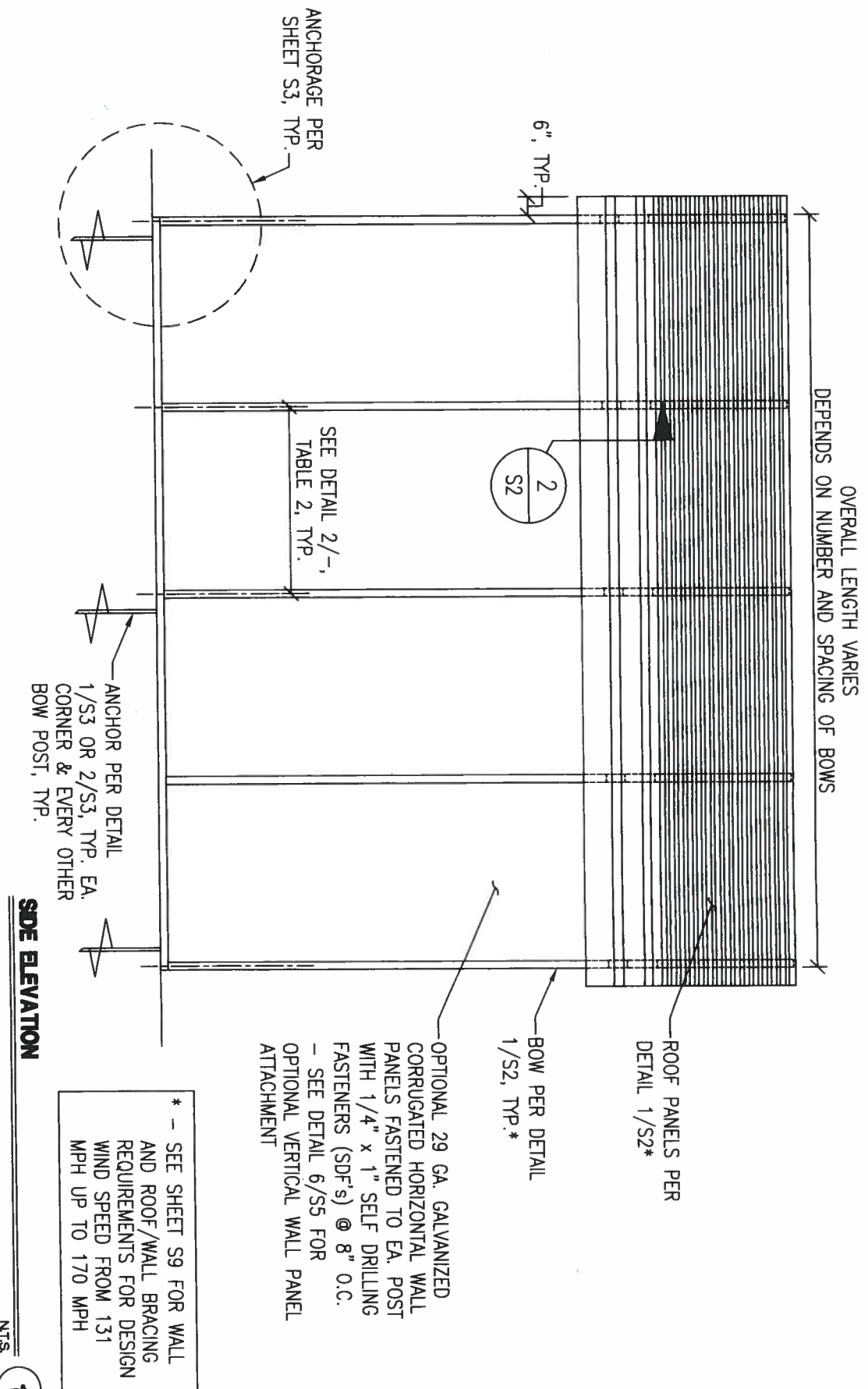
**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W COUNTRY LAKE DRIVE

BOW FRAMING TABLES

TABLE 2	
BOW SPAN (SEE DETAIL 1/S2)	MAXIMUM O.C. BOW SPACING
UP TO 24'-0"	5'-0"
26'-0" TO 30'-0"	3'-6"

TABLE 1			
MAXIMUM POST HEIGHT	POST/BOW GAGE		
	130 MPH MAX. WIND SPEED	170 MPH MAX. WIND SPEED	
10'-0"	14 GA		12 GA
12'-0"	12 GA		12 GA



SIDE ELEVATION

NTS

1

NTS

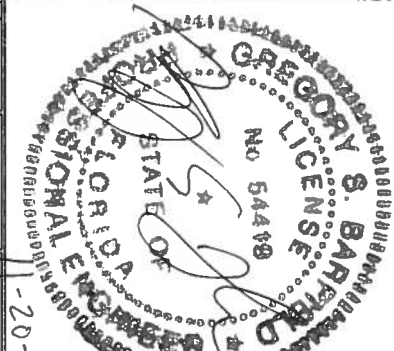
2

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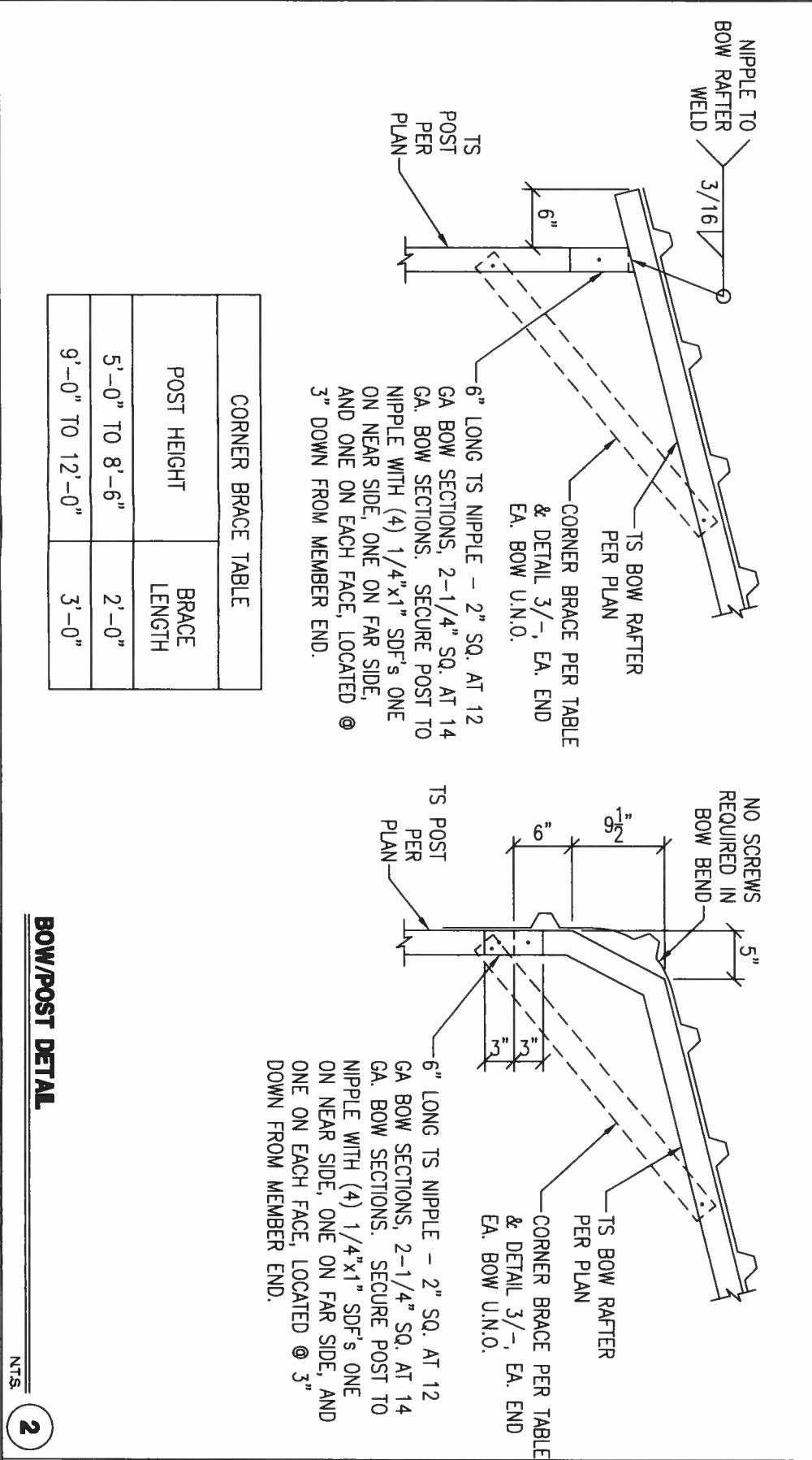
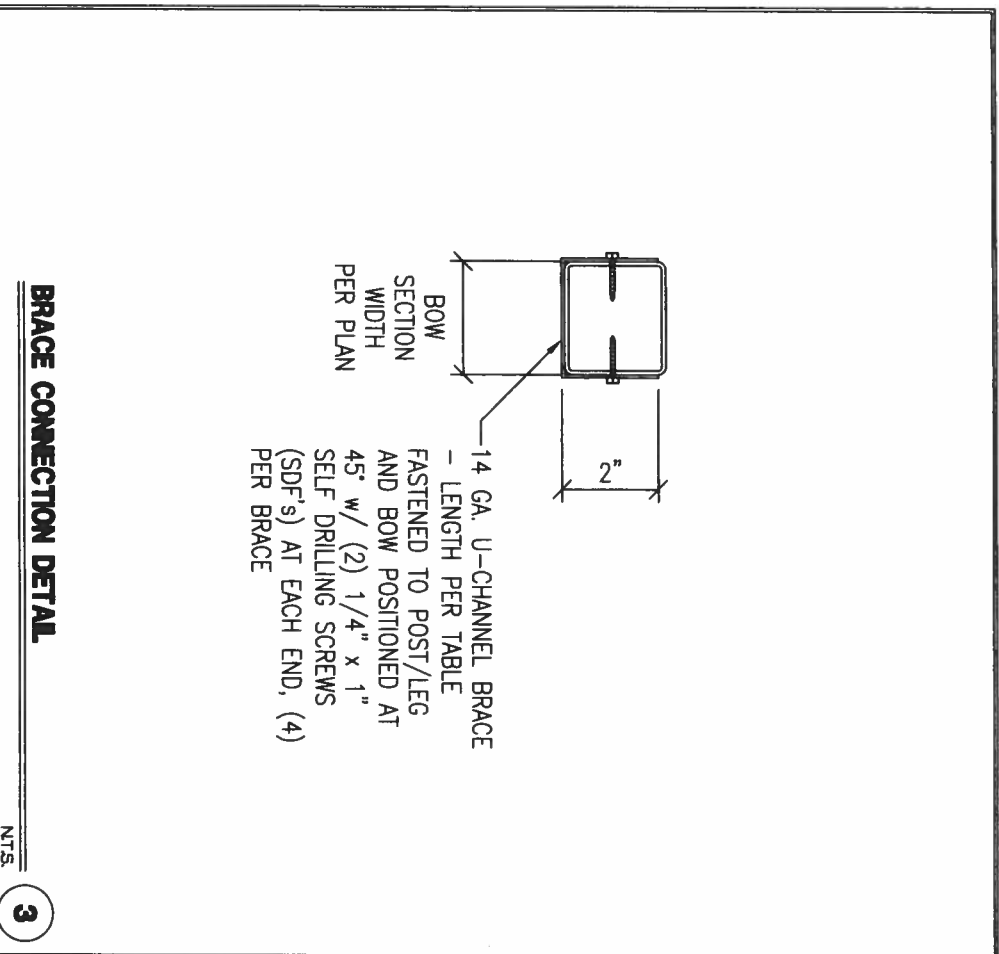
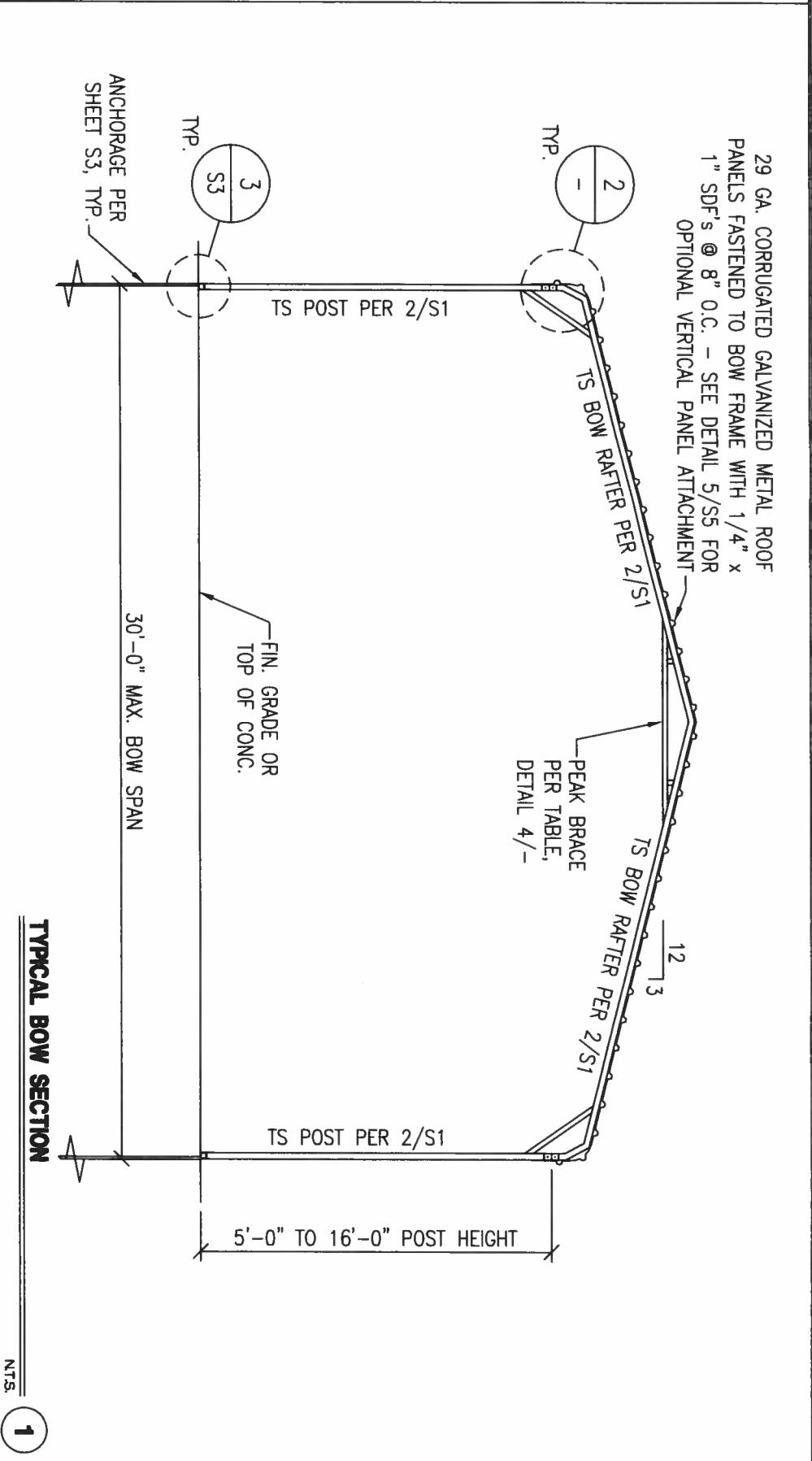


ELEVATION VIEW & NOTES

**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W. COUNTRY LAKE DRIVE

S2



PEAK BRACE TABLE

UP TO 130 MPH MAX. WIND SPEED	
BOW SPAN	BRACE
UP TO 24'	2'-0" LONG PER DTL 3/-
OVER 24' TO 30'	16'-0" LONG 12 GA. TS*
131 MPH TO 170 MPH MAX. WIND SPEED	
BOW SPAN	BRACE
UP TO 20'	4'-0" LONG PER DTL 3/-
OVER 20' TO 24'	6'-0" LONG PER DTL 3/-
OVER 24' TO 30'	16'-0" LONG 12 GA. TS*

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

CORNER BRACE TABLE

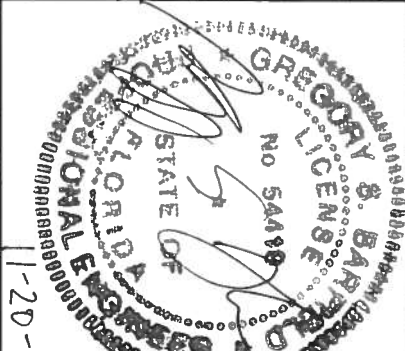
POST HEIGHT	BRACE LENGTH
5'-0" TO 8'-6"	2'-0"
9'-0" TO 12'-0"	3'-0"

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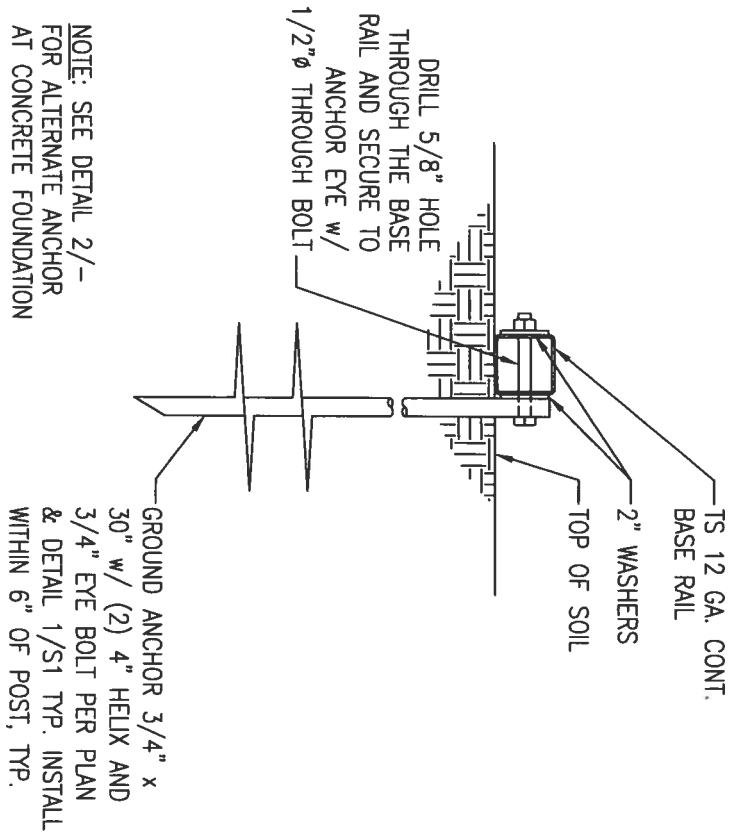


ELEVATION VIEW & NOTES

**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W COUNTRY LAKE DRIVE

S3

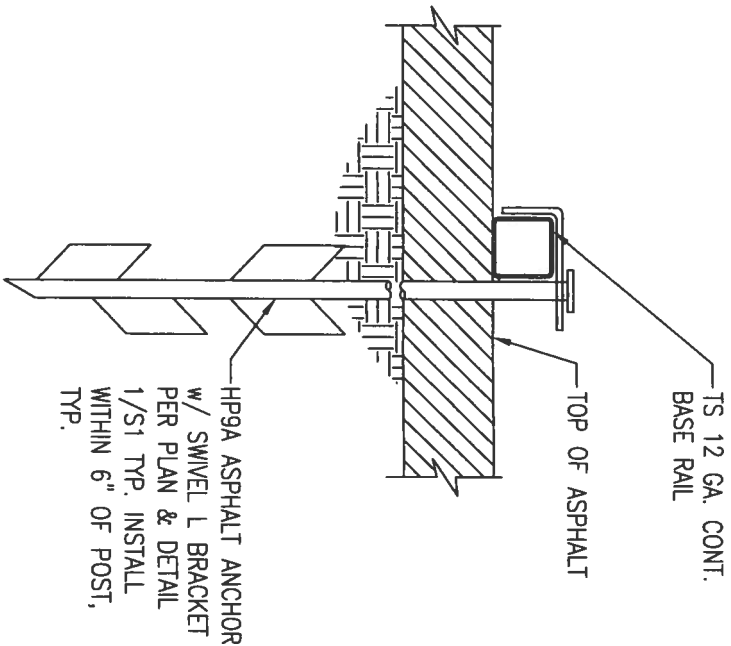


OPTION A

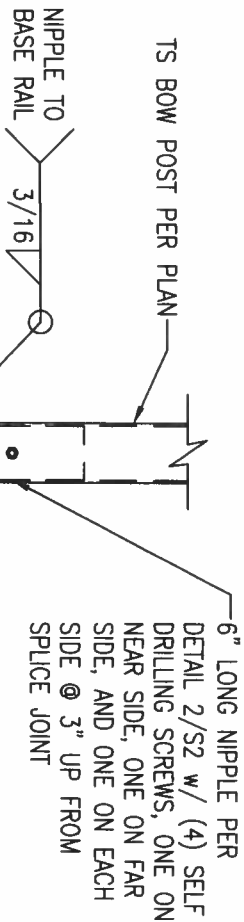
GROUND BASE RAIL ANCHORAGE

NTS

1



OPTION B



BOW TO BASE RAIL CONNECTION DETAIL

NTS

3

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

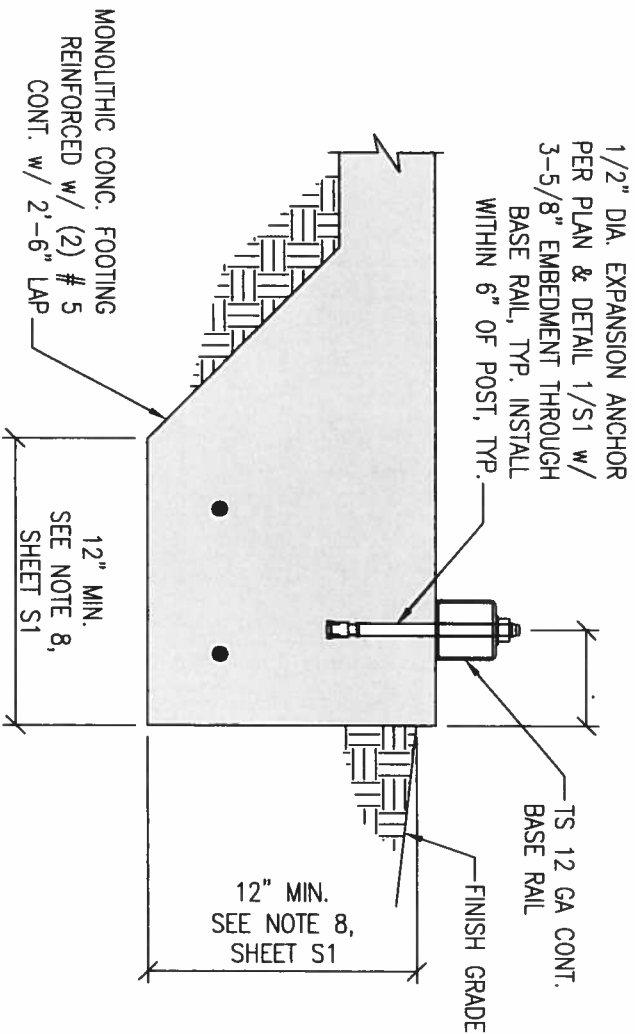
COVER OVER REINFORCING STEEL
FOR FOUNDATIONS, MIN. CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3" IN FOUNDATION WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL
THE REINFORCING STEEL SHALL BE MIN. GRADE 60

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

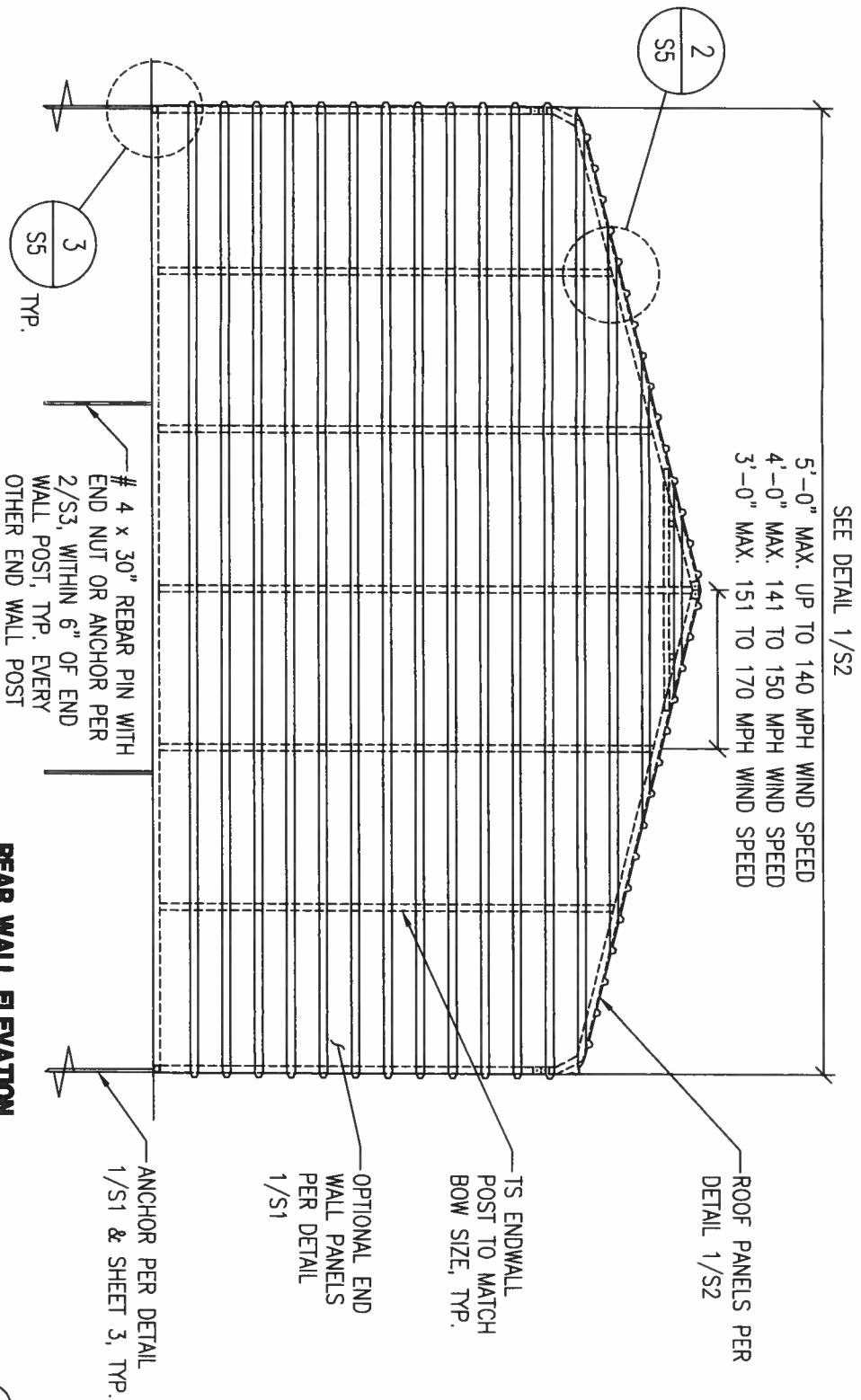
NTS

2

NOTE:
EXTERIOR WINDOWS AND GLASS DOORS SHALL BEAR AN APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE FOLLOWING TABLE:

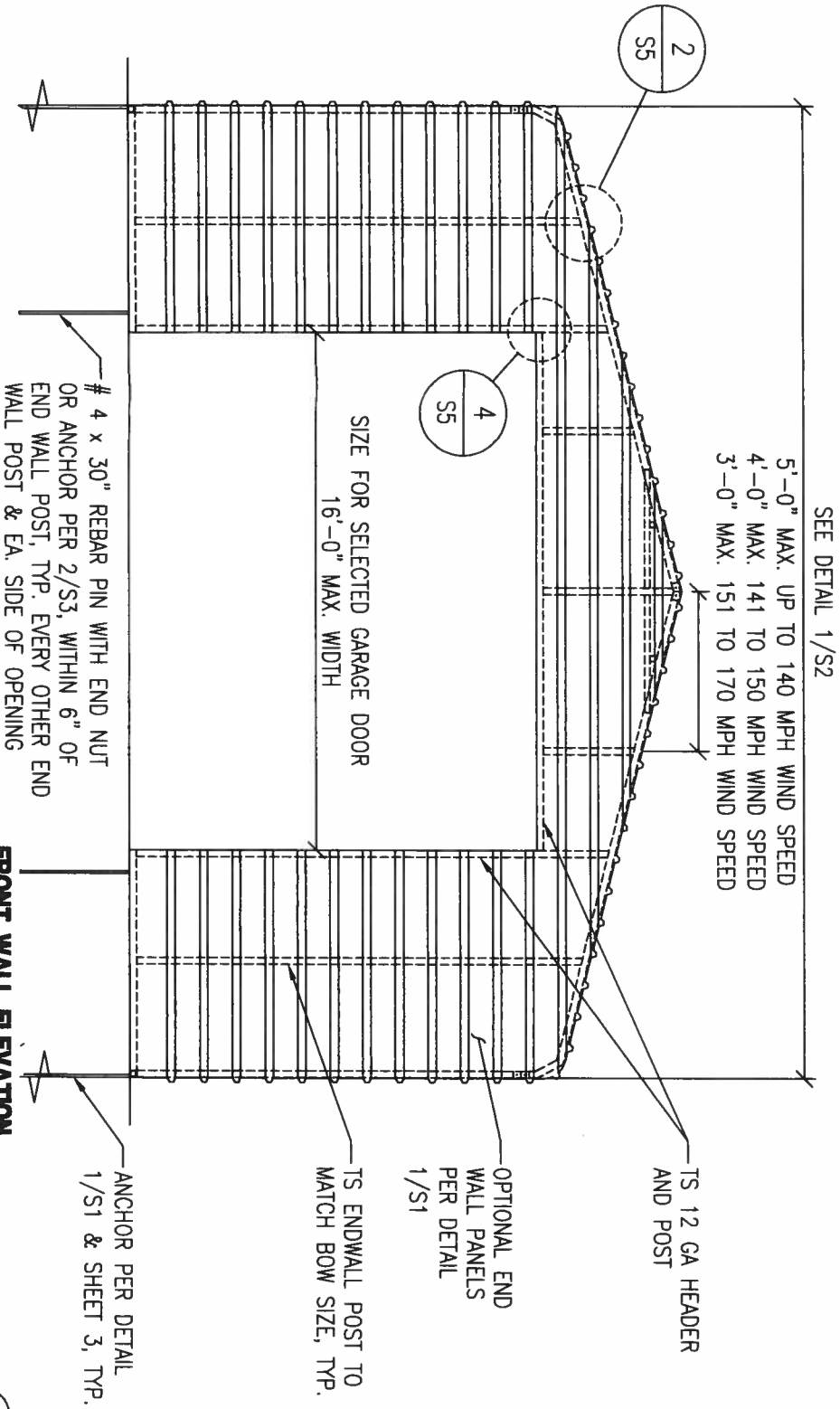
FLORIDA PRODUCT APPROVAL CODES			
MANUFACTURER	PRODUCT	MODEL/SERIES	APPROVAL #
USA STEEL BUILDINGS, INC.	ROOF DECKING	36-R PANEL	FL-13364
JANUS INTERNATIONAL CORP.	ROLL-UP DOOR	750 SERIES	FL-12765
POCAHONTAS ALUMINUM CO., INC.	WALK-IN DOOR	D-100	FL-12903
POCAHONTAS ALUMINUM CO., INC.	WINDOWS	100-VS	FL-12940

DOOR TABLE	
CARPORT WIDTH	MAX. DOOR WIDTH
12'-0"	8'-0"
14'-0" TO 16'-0"	10'-0"
18'-0" TO 20'-0"	12'-0"
22'-0"	16'-0" OR (2) 8'-0"
24'-0"	16'-0" OR (2) 9'-0"
26'-0" TO 28'-0"	16'-0" OR (2) 10'-0"
30'-0"	16'-0" OR (2) 12'-0"



REAR WALL ELEVATION

NTS.



FRONT WALL ELEVATION

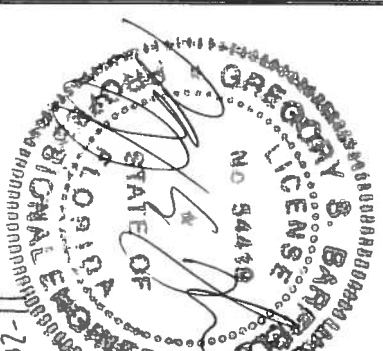
NTS.

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ELEVATION VIEW & NOTES

**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W COUNTRY LAKE DRIVE

S4

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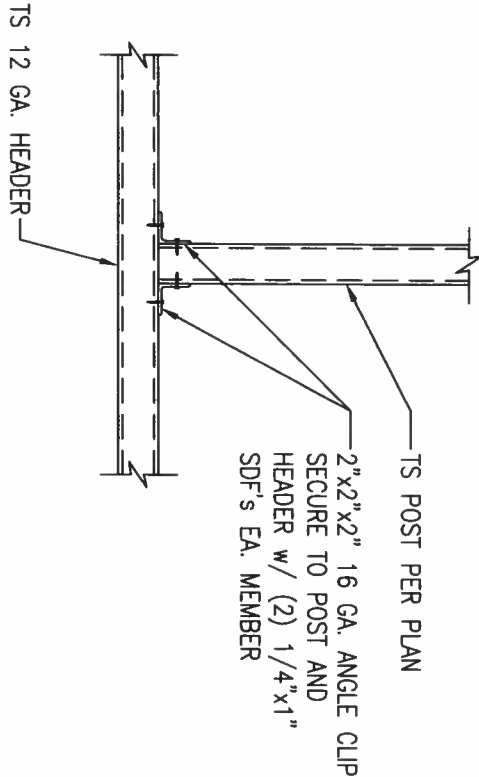


ELEVATION VIEW & NOTES

**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W COUNTRY LAKE DRIVE

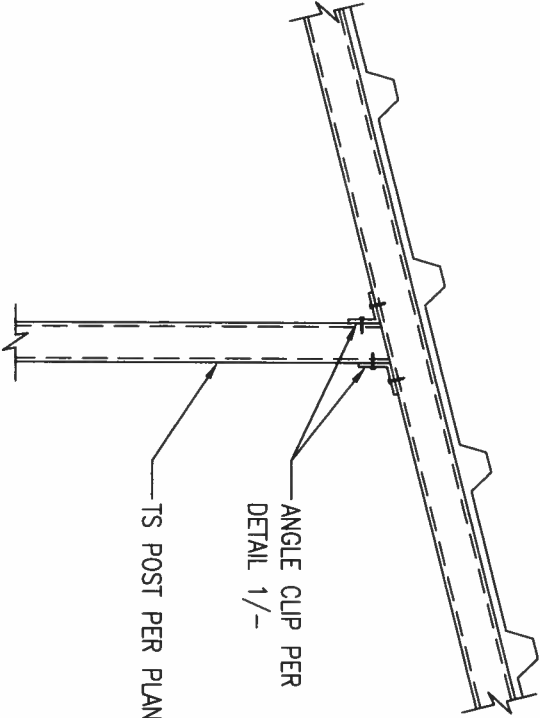
S5



END POST TO HEADER/RAIL CONN DETAIL

NTS

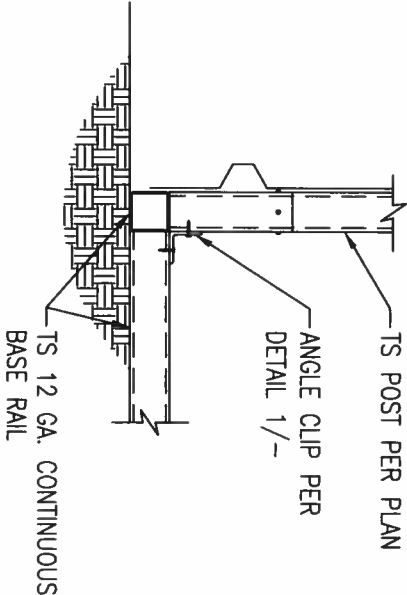
1



END POST/BOW CONN DETAIL

NTS

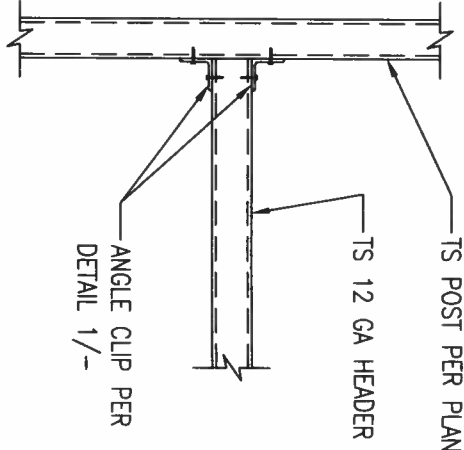
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END BOW/BASE RAIL CONN DETAIL

NTS

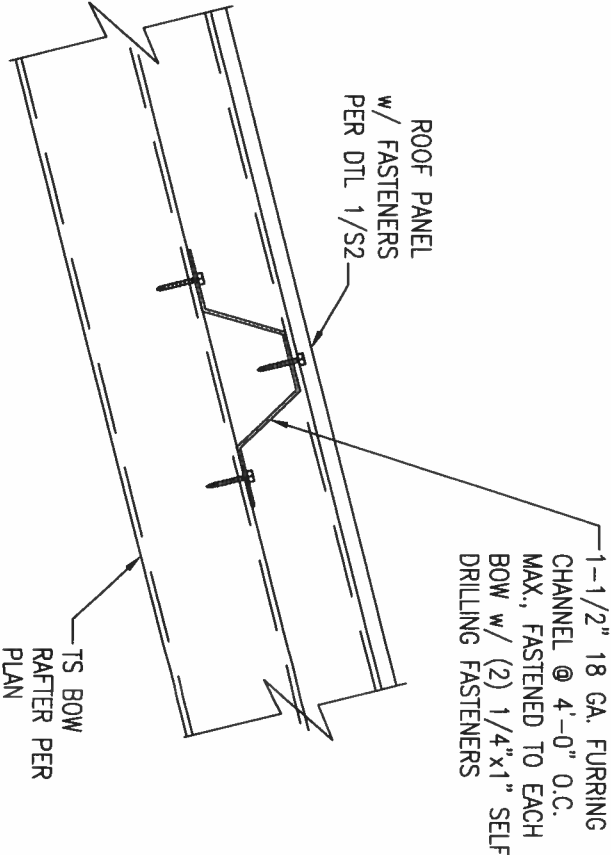
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HEADER TO POST CONN DETAIL

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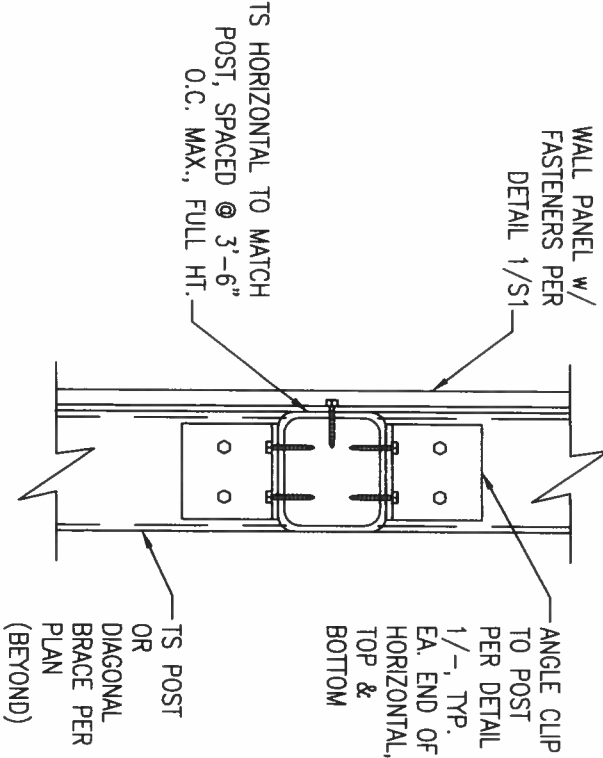
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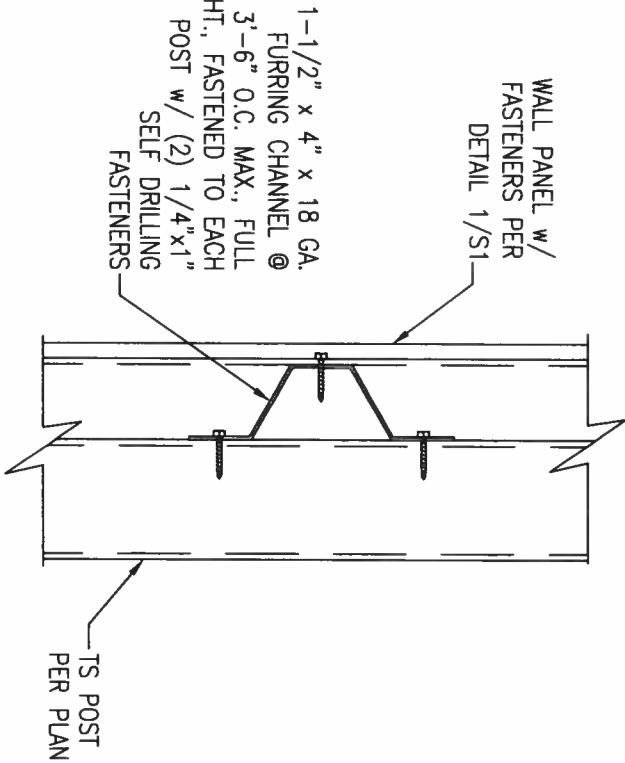
VERTICAL ROOF PANEL ATTACHMENT

NTS

5



FLUSH TS HORIZONTAL OPTION



FURRING CHANNEL OPTION

VERTICAL WALL PANEL ATTACHMENT

NTS

6

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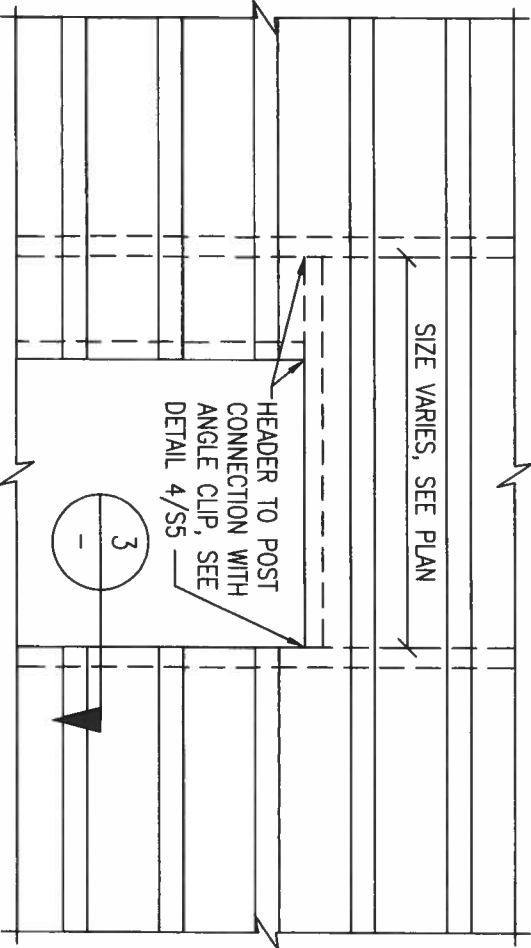


ELEVATION VIEW & NOTES

**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W COUNRTY LAKE DRIVE

S6

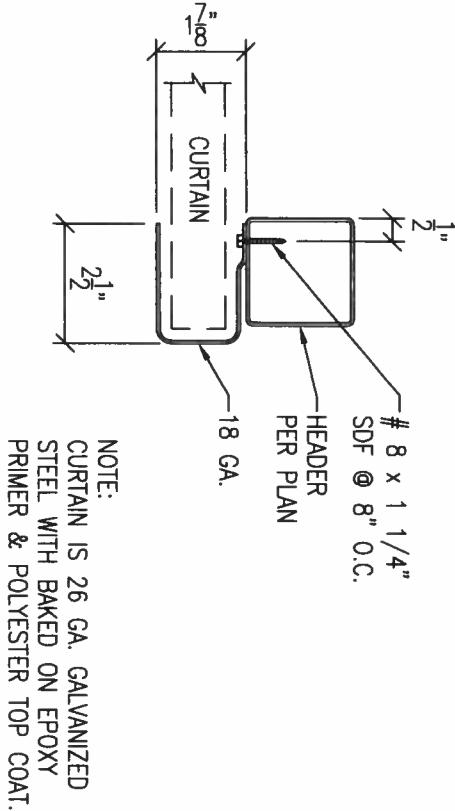


SEE DETAIL 1/S7 FOR
ANCHOR REQUIREMENTS

DOOR FRAME - ELEVATION VIEW

NTS.

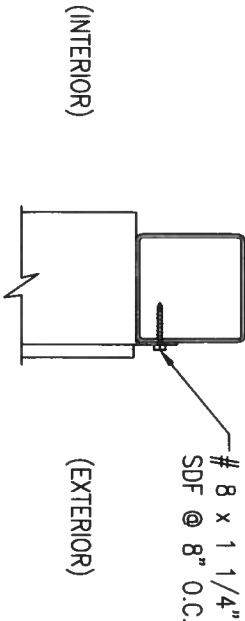
1



SECTION THROUGH ROLL UP DOOR HEADER

NTS.

2



SECTION

NTS.

3

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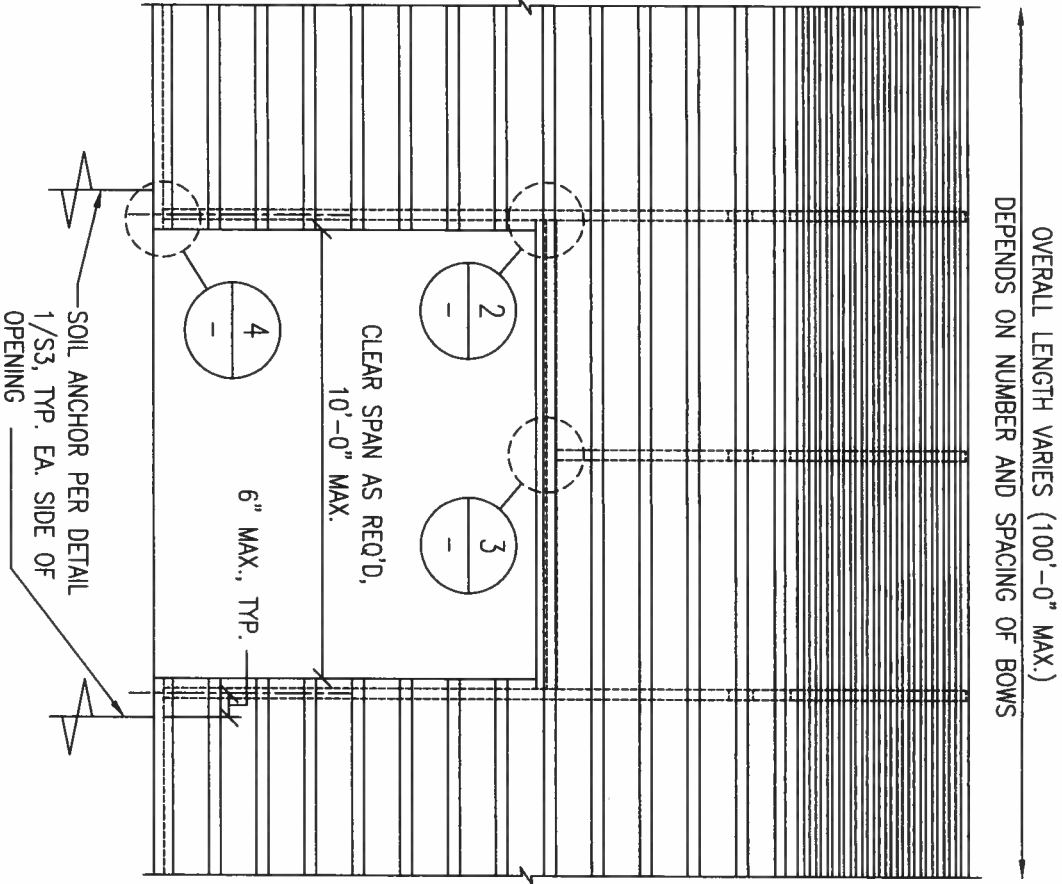


ELEVATION VIEW & NOTES

**STANDARD CARPORT
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REX NICHOLA
783 N.W COUNTRY LAKE DRIVE

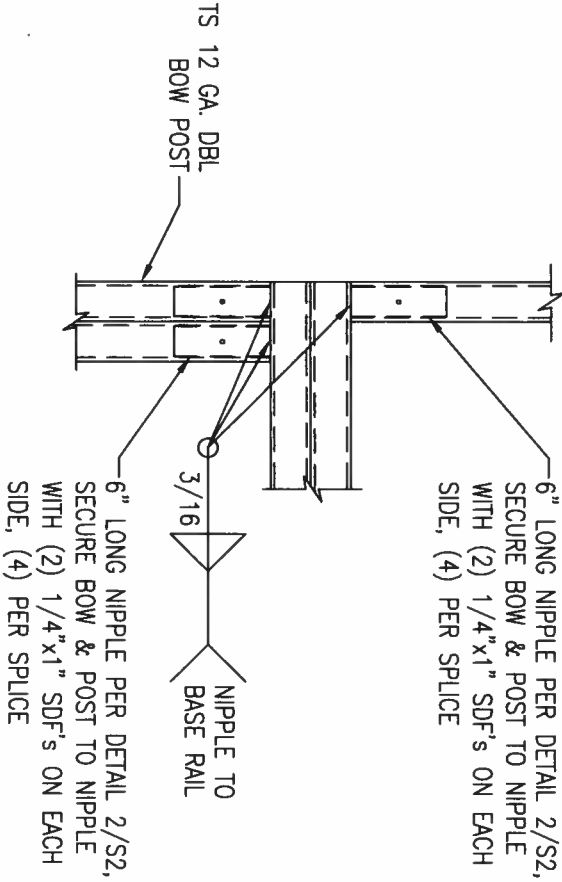
S7



SIDE OPENING

NTS.

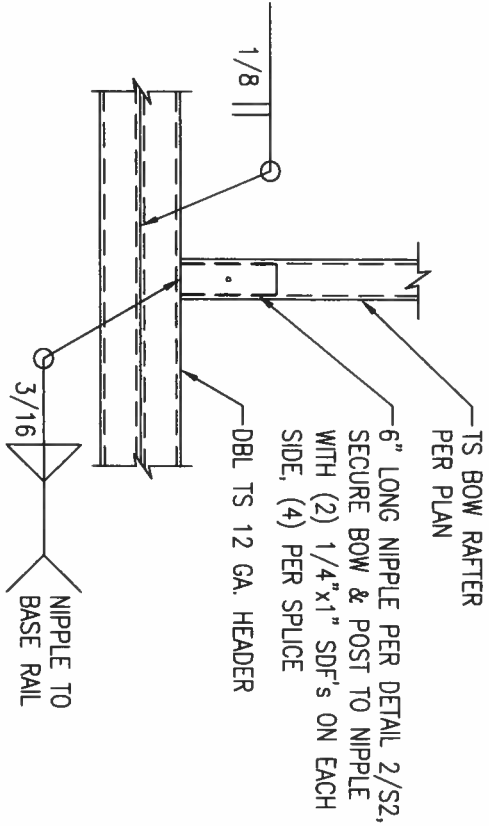
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BOW/POST DETAIL

NTS.

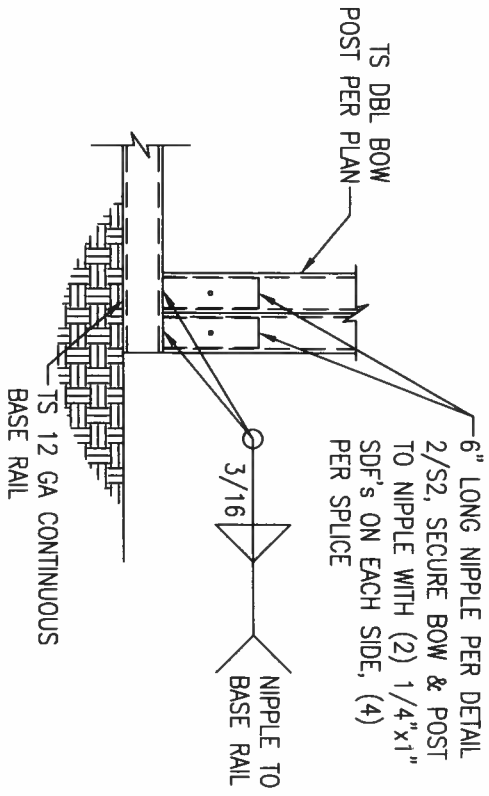
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BOW/HEADER DETAIL

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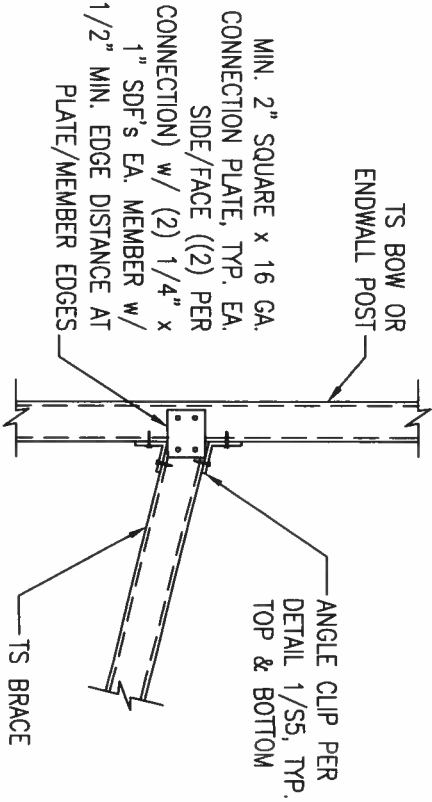
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BOW/BASE RAIL CONN DETAIL

NTS.

4



BRACE CONNECTION DETAIL

NTS.

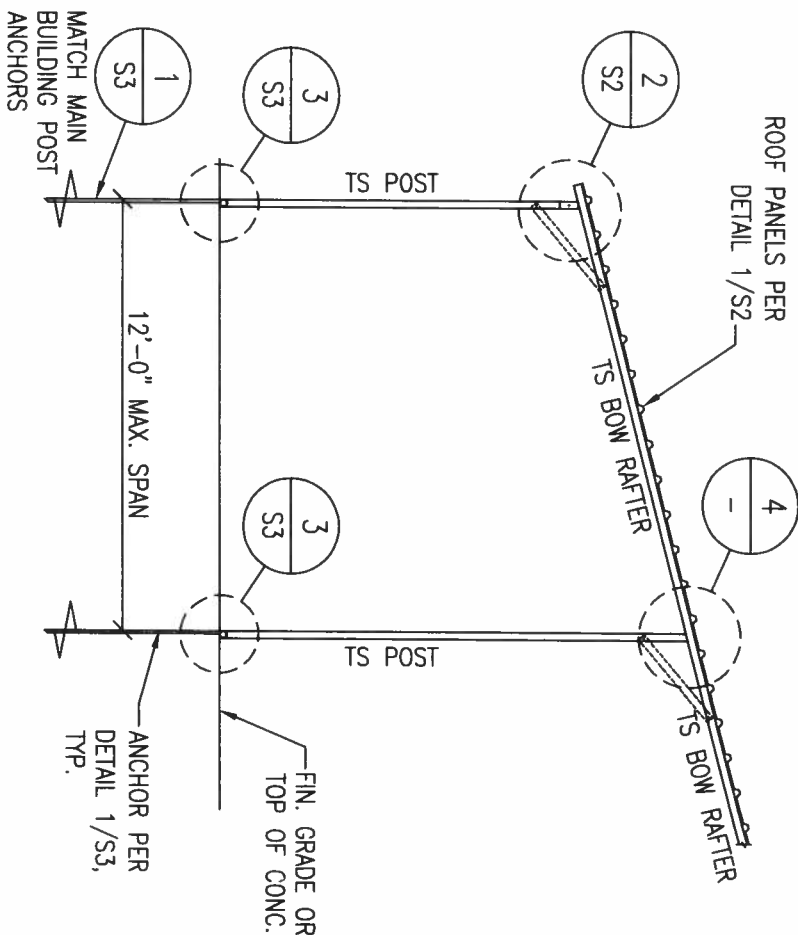
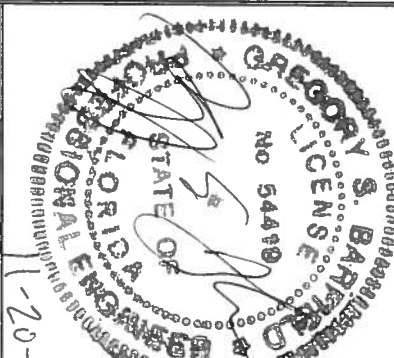
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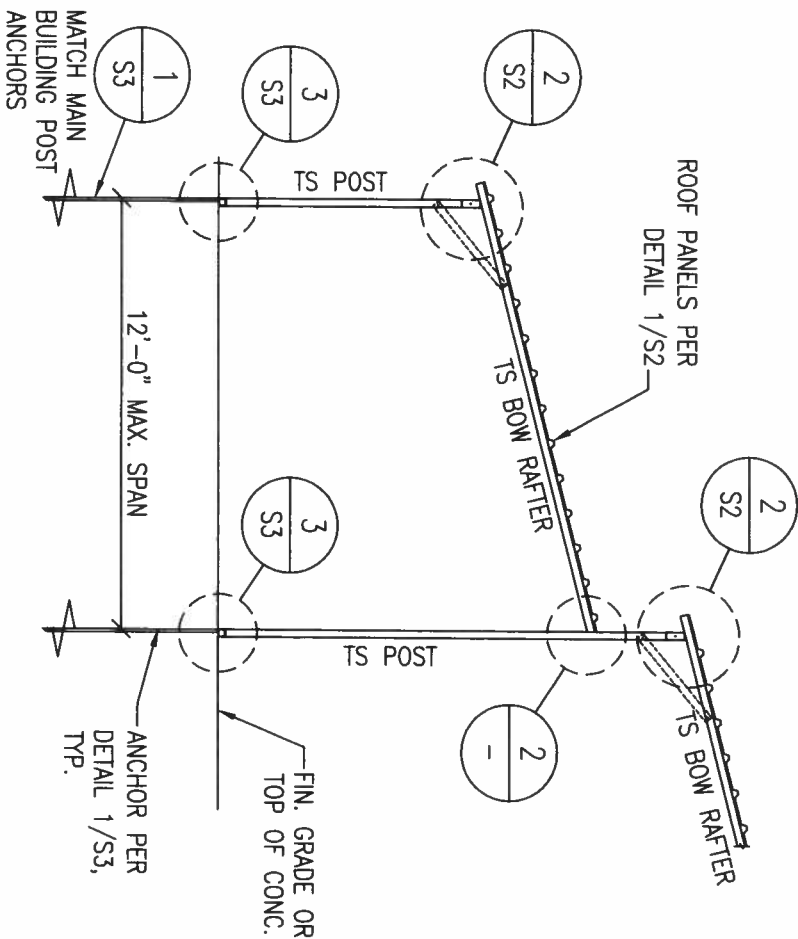
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N-LINE EXTENSION SECTION

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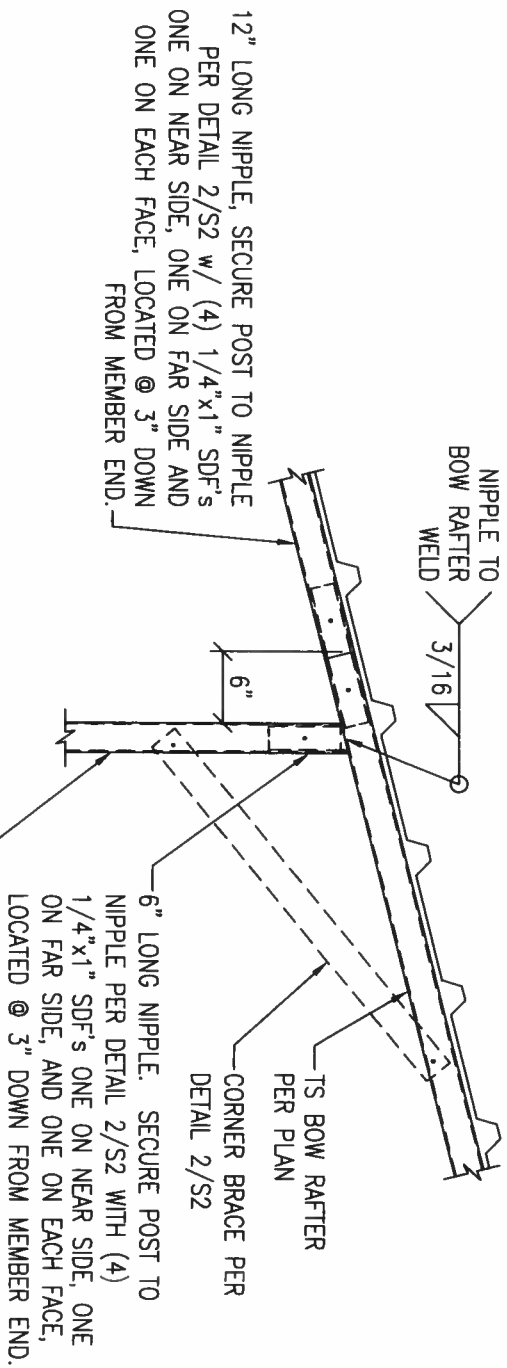
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STEP-DOWN EXTENSION SECTION

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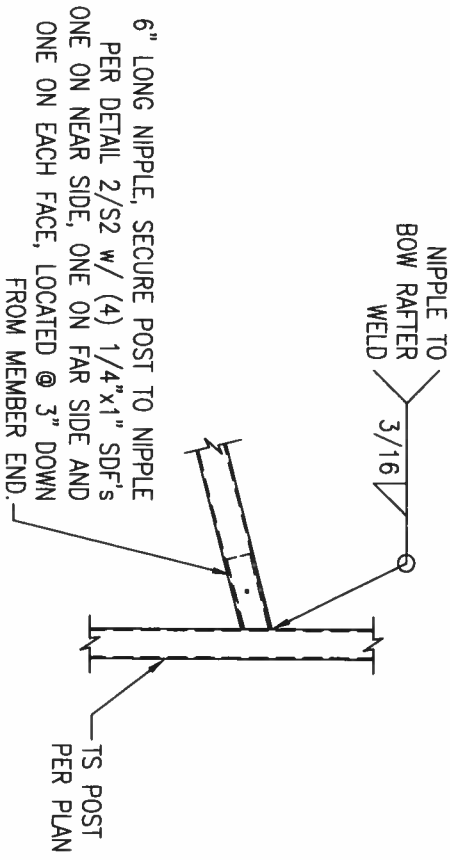
1



N-LINE CONNECTION DETAIL

NTS.

4



STEP-DOWN CONNECTION DETAIL

NTS.

2

ELEVATION VIEW & NOTES

STANDARD CARPORT
WITH OPTIONS

REX NICHOLA
783 N.W. COUNTRY LAKE DRIVE

S8

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ELEVATION VIEW & NOTES

**STANDARD CARPORT
WITH OPTIONS**

REX NICHOLA
783 N.W. COUNTRY LAKE DRIVE

S9

OVERALL LENGTH VARIES
(SEE DETAIL 1/S1)

SIMPSON CS16 GALVANIZED 18 GA. COIL
STRAP X-BRACING ON ROOF (BENEATH
ROOF PANELS & FURRING CHANNELS
WHERE OCCUR), CORNER TO OPPOSITE
CORNER, FASTENED TO TOP OF EACH
BOW RAFTER WITH (2) 1/4"x1" SDF

TS 14 GA. DIAGONAL
BRACE EA. END BAY.
ATTACH TO BOW
LEGS/ENDWALL POSTS
PER DETAIL 5/S7,
TYP. EA. END

CORNER ANCHOR PER DETAIL
1/S1 & SHEET S3, TYP.

(2) ADDITIONAL DIAGONAL BRACES PER NOTE THIS DETAIL AT CENTER BAYS AND AT 20'-0" O.C. MAX. WHERE OVERALL
LENGTH EXCEEDS 20'-0" FOR BUILDING WITH ENCLOSED END (FRONT AND REAR) WALLS AND AT 30'-0" O.C. MAX.
WHERE OVERALL LENGTH EXCEEDS 30'-0" FOR BUILDING WITH OPEN END (FRONT AND REAR) WALLS

**1
SIDE ELEVATION - 131 TO 170 MPH WIND**

NTS.

ANCHOR PER SHEET S3, TYP.
WITHIN 6" OF BOW AT EA. SIDE
I O - EA. BRACED BAY

DIAGONAL BRACE
PER DETAIL 1/-,
TYP. EA. END BAY

OPTIONAL END WALL
FRAMING AND PANELS
PER DETAIL 2/S4

ANCHOR PER SHEET S3, TYP.
WITHIN 6" OF BOW AT EA. SIDE
OF EA. BRACED BAY

ANCHOR PER
DETAIL 2/S4,
TYP.

**3
FRONT WALL SECTION - 131 TO 170 MPH WIND**

NTS.

OPTIONAL END WALL
FRAMING AND PANELS
PER DETAIL 2/S4

DIAGONAL BRACE
PER DETAIL 1/-,
TYP. EA. END BAY

ANCHOR PER
SHEET S3,
TYP. WITHIN
6" OF
BOW/ENDWALL
POST AT EA.
SIDE OF EA.
BRACED BAY

ANCHOR PER DETAIL
1/S4, TYP.

**2
REAR WALL SECTION - 131 TO 170 MPH WIND**

NTS.