

## ENCLOSED GABLE END BUILDING

MAXIMUM 20' WIDE X 16' EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 35 P.S.F. SNOW LOAD

FOR:

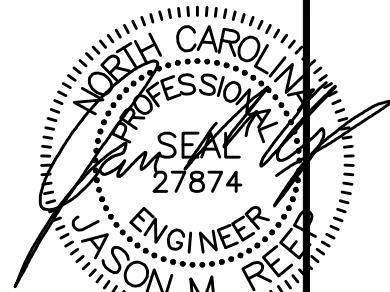
Chris Santana  
619 Tripp Road  
Lillington NC 27546

ISSUE DATE: 06/12/2025



**JCMT**  
ASSOCIATES, PLLC

PO BOX 27  
Pilot Mountain, NC 28641  
828-310-7160



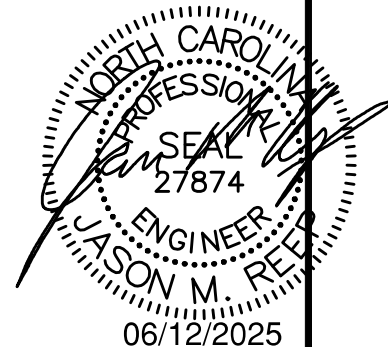
06/12/2025

THESE PLANS HAVE BEEN PROPERLY  
EXAMINED BY THE UNDERSIGNED. I  
DETERMINED THAT THEY COMPLY  
WITH EXISTING LOCAL NORTH  
CAROLINA CODES AND ARE  
APPROPRIATE FOR USE IN THIS AREA

NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

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SHEET NO:  
**S2**

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DESIGN LOADS:

IMPORTANCE FACTORS      WIND      (1w) 1.00  
                                  SNOW      (1s) 1.00  
                                  SEISMIC      (1e) 1.00

DEAD LOADS      ROOF      13      P.S.F.  
                          ROOF COLLATERAL      0      P.S.F.

LIVE LOADS      ROOF      20      P.S.F.

GROUND SNOW LOAD:      15      P.S.F. \* DRIFT LOAD HAS NOT BEEN CALCULATED

WIND LOAD:      BASIC WIND SPEED      115      M.P.H. ASCE 7-10  
                          EXPOSURE CATAGORY      C

SEISMIC DESIGN CATAGORY      ☐ A      ☐ B      ☒ C      ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY      I

SPECTRAL RESPONSE ACCELERATION      Ss 18.0 %g      S1 8.5 %g

SITE CLASSIFICATION      D      ☐ FIELD TEST      ☐ PRESUMPTIVE      ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

<input type="checkbox"/>	BEARING WALL	<input type="checkbox"/>	DUAL W/ SPECTRAL MOMENT FRAME
<input checked="" type="checkbox"/>	BUILDING FRAME	<input type="checkbox"/>	DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
<input type="checkbox"/>	MOMENT FRAME	<input type="checkbox"/>	INVERTED PENDULUM

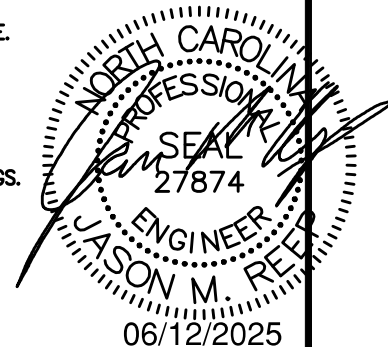
ANALYSIS PROCEDURE      ☐ SIMPLIFIED      ☒ EQUIVALANT LATERAL FORCE      ☐ MODAL

LATERAL DESIGN CONTROL?      ☐ EARTHQUAKE      ☒ WIND

SOIL BEARING CAPACITIES:  
 PRESUMPTIVE BEARING CAPACITIES:      1,500      P.S.F.

GENERAL NOTES:

1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
2. MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14ga. 50 KSI MIN. UNLESS NOTED OTHERWISE.
4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
5. 1,500 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
6. THESE DRAWINGS ARE NOT APPLICABLE TO PARTIALLY OPEN / ENCLOSED OR OPEN BUILDINGS.
7. THESE DRAWINGS ARE NOT DESIGNED FOR SLEEPING QUARTERS.
8. THIS DESIGN AND DRAWINGS MEET THE REQUIRMENTS OF THE 2021IBC.



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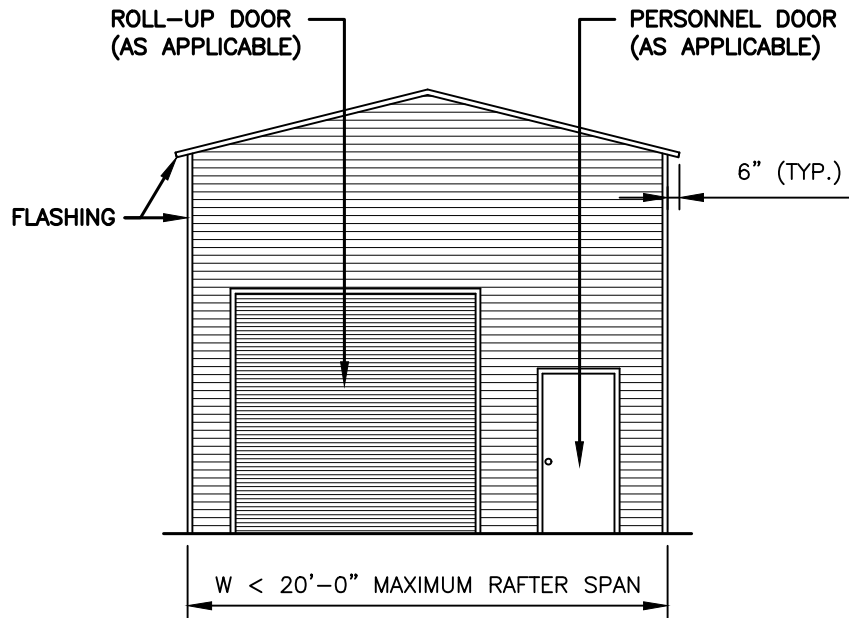
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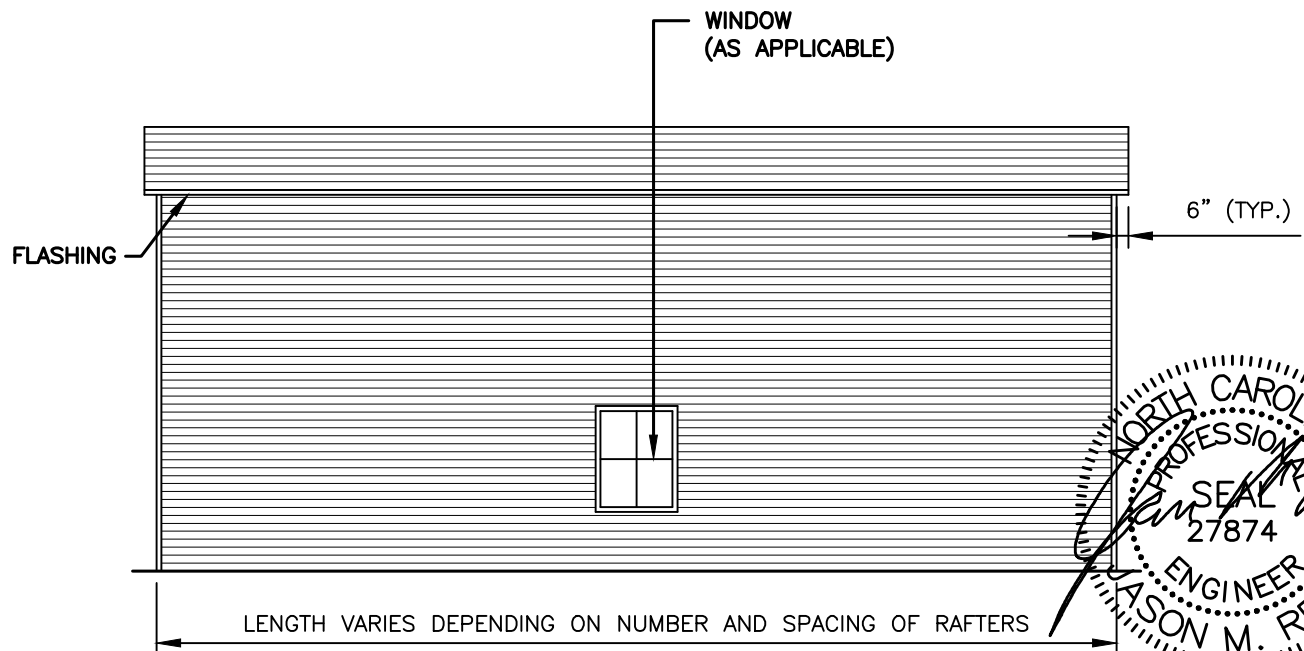
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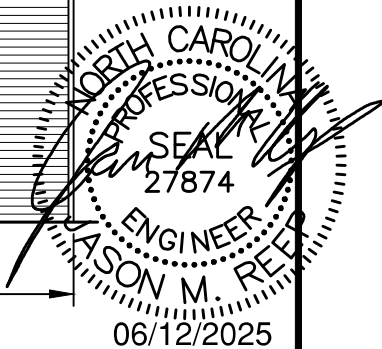
## BOX EVE FRAME RAFTER STURCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



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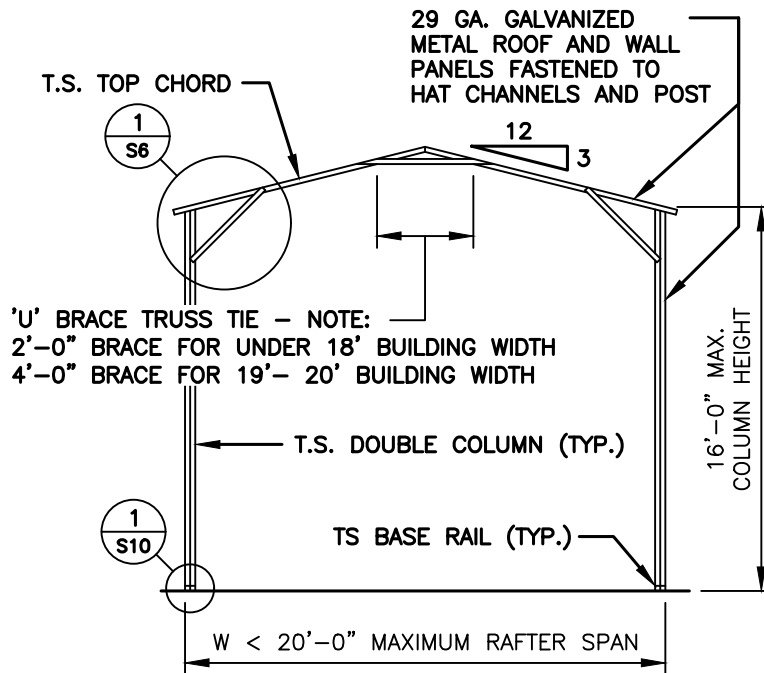
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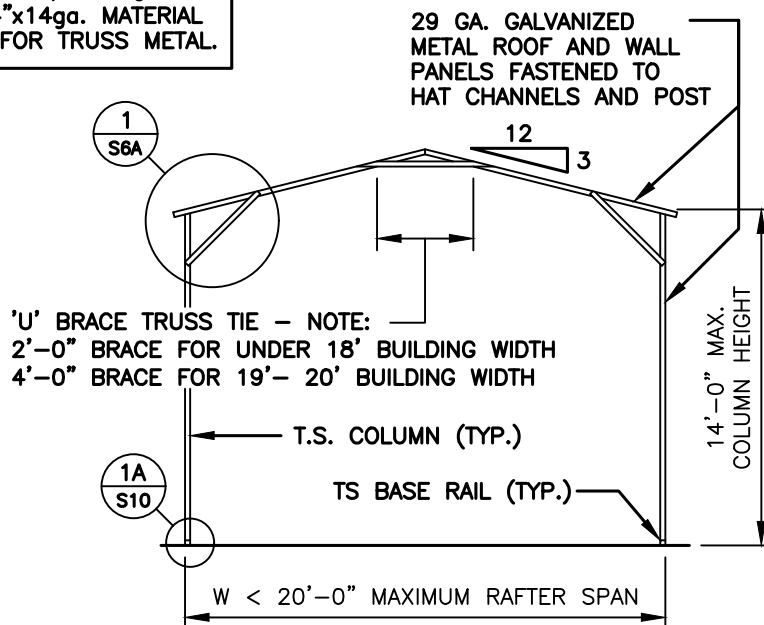
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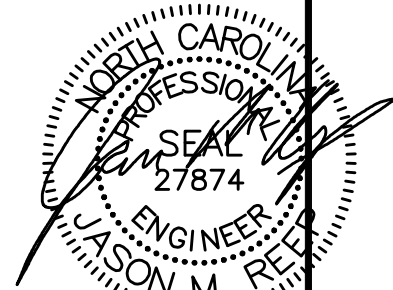


TYPICAL RAFTER / COLUMN FRAME SECTION

NOTE:  
H.S.S. 2-1/2"x2-1/2"x14ga. OR  
2-1/4"x2-1/4"x14ga. MATERIAL  
MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION



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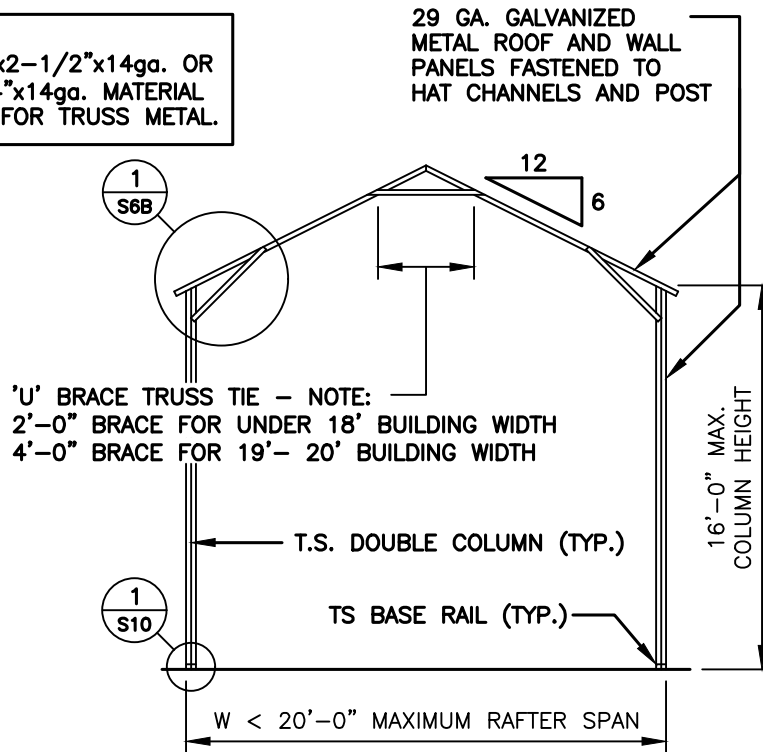
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SHEET NO:  
**S5**

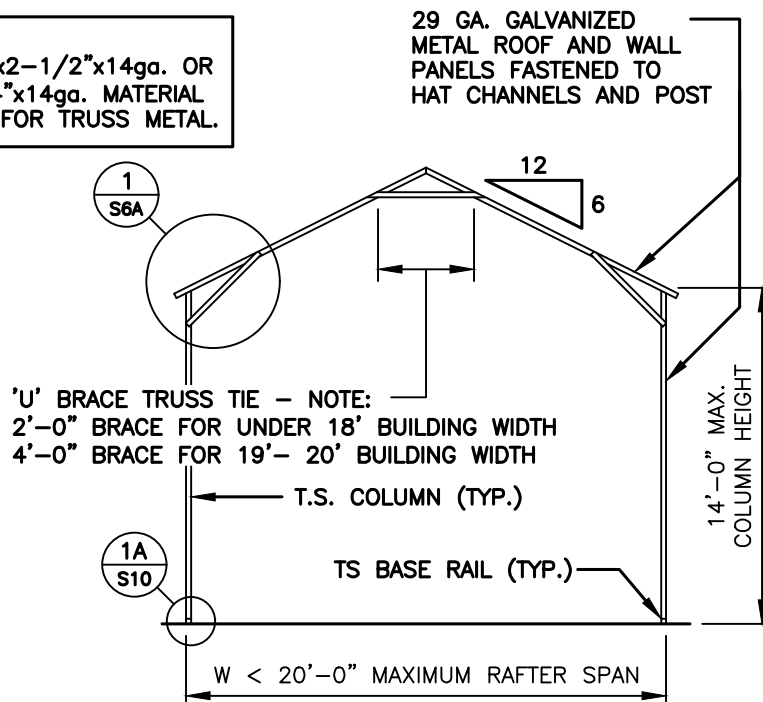
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

NOTE:  
H.S.S. 2-1/2"x2-1/2"x14ga. OR  
2-1/4"x2-1/4"x14ga. MATERIAL  
MAY BE USED FOR TRUSS METAL.

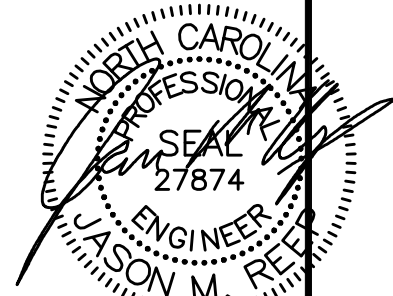


TYPICAL RAFTER / COLUMN FRAME SECTION

NOTE:  
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2-1/4"x2-1/4"x14ga. MATERIAL  
MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION



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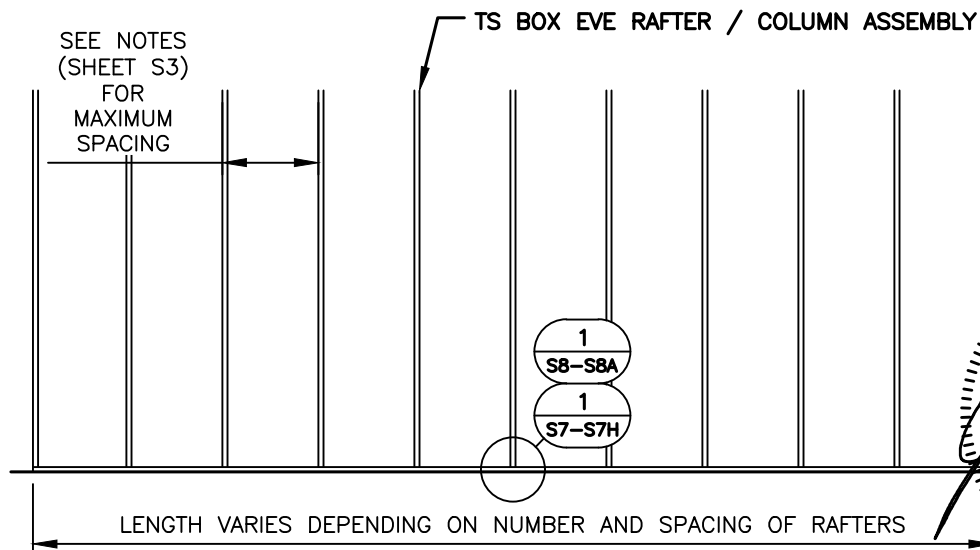
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**S5A**

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NOTE:  
H.S.S. 2-1/2"x2-1/2"x14ga. OR  
2-1/4"x2-1/4"x14ga. MATERIAL  
MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
27874  
ENGINEER  
MASON M. REEF  
06/12/2025

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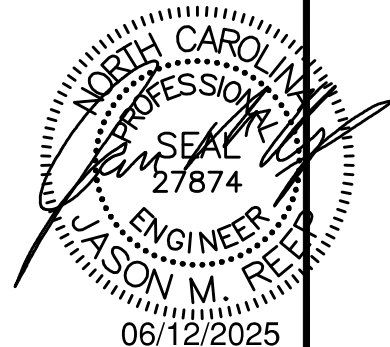
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**S5B**

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**SHEET NO:**  
**S6**

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A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside the ring, the word "PROFESSIONAL" is at the top and "SEAL" is at the bottom. In the center, the name "JASON M. REEP" is written in a large, bold, sans-serif font. Below the name, the license number "27874" is displayed. At the very bottom of the seal, the expiration date "06/12/2025" is printed. A handwritten signature, "Jason M. Reep", is scrawled across the seal, overlapping the "PROFESSIONAL" and "SEAL" text.

**SHEET NO:**  
**S6A**

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CONNECTOR  
SLEEVE TO  
BOTTOM  
CHORD  
(TYP.)

TYP.

3/16  
3/16

T.S. TOP CHORD

12

6

SECURE WITH (2)  
#12-14x3/4"  
S.D.F.'S (EACH END)

18ga. U-CHANNEL KNEE  
BRACE FASTENED TO  
RAFTER AND COLUMN

MIN. 6" LONG, CONNECTOR SLEEVE MINIMUM  
14ga. SECURE COLUMN TO SLEEVE WITH (4)  
#12-14x3/4" S.D.F.'S

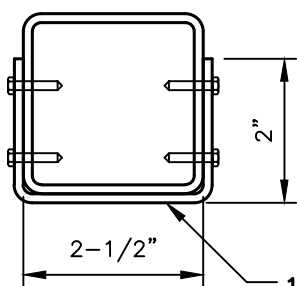
T.S. COLUMN

1

S6C

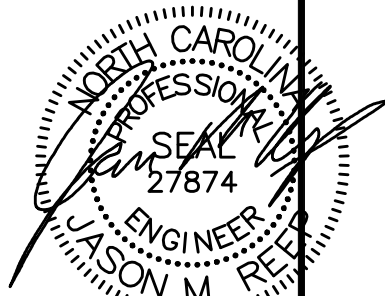
BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

SCALE: 3/4" = 1'-0"



BRACE  
SECTION

18ga. U-CHANNEL BRACE  
FASTENED TO THE COLUMN  
AND BOTTOM CHORD, WITH  
#12-14x3/4" S.D.F.'S AT  
EACH END AS SHOWN IN  
ELEVATION.



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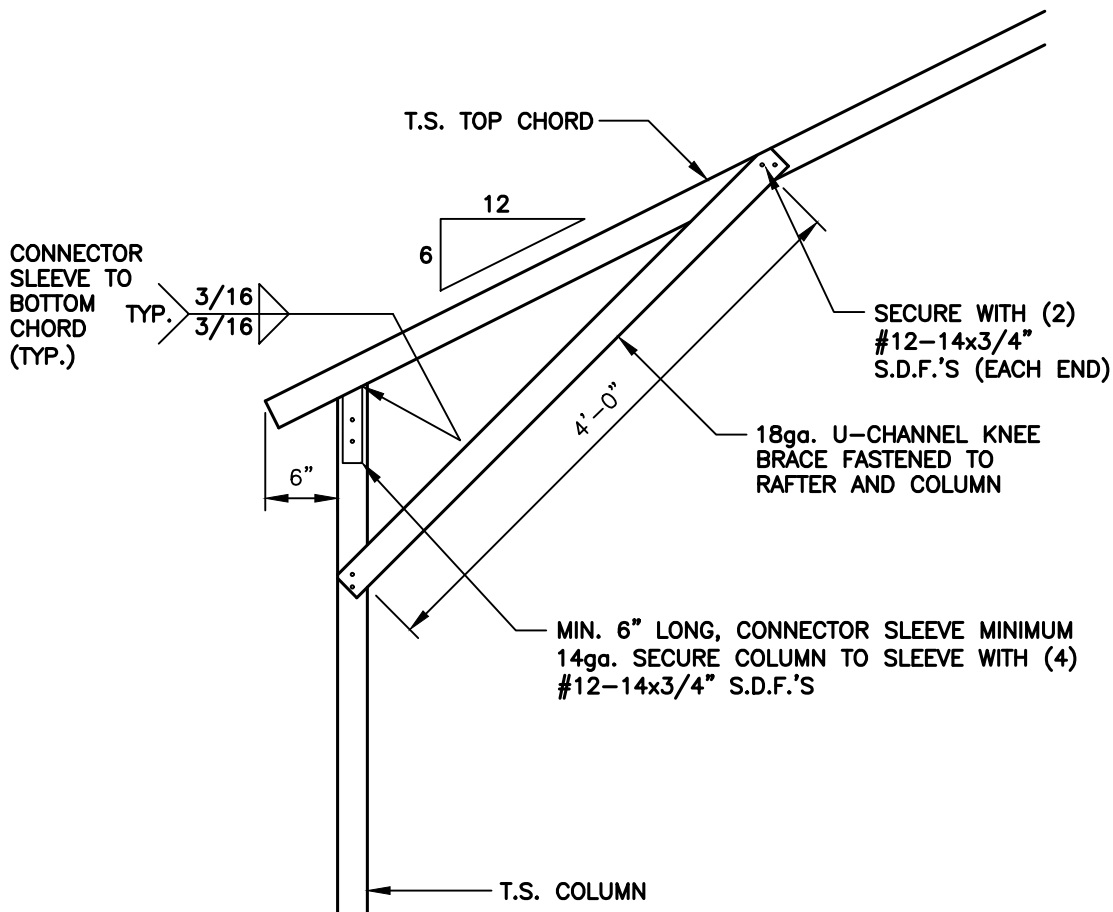
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**S6B**

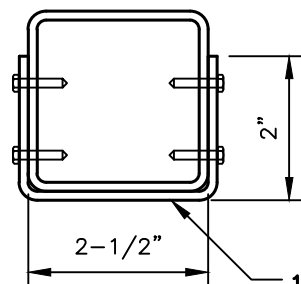
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**1** BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

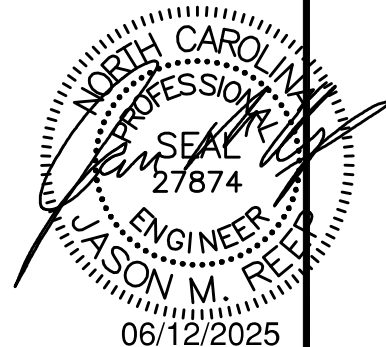
S6C

SCALE: 3/4" = 1'-0"



BRACE  
SECTION

18ga. U-CHANNEL BRACE  
FASTENED TO THE COLUMN  
AND BOTTOM CHORD, WITH  
#12-14x3/4" S.D.F.'S AT  
EACH END AS SHOWN IN  
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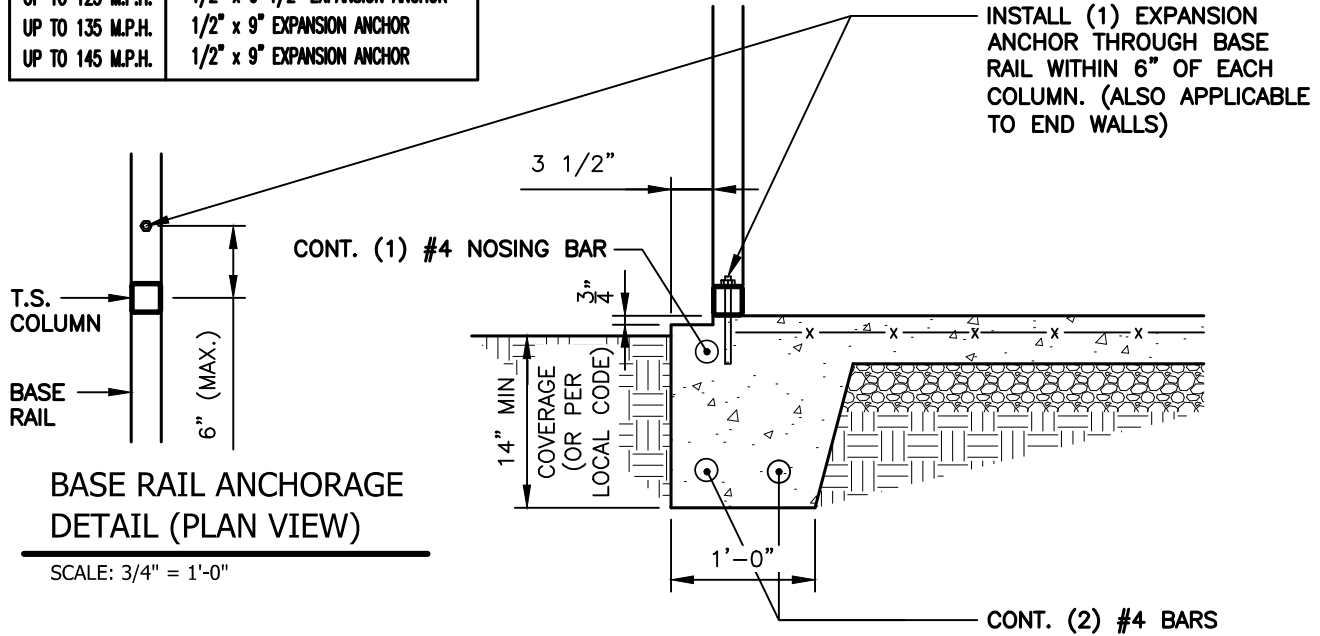
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**S6C**

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## CONCRETE BASE RAIL ANCHORAGE

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

#### GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

#### COVER OVER REINFORCING STEEL:

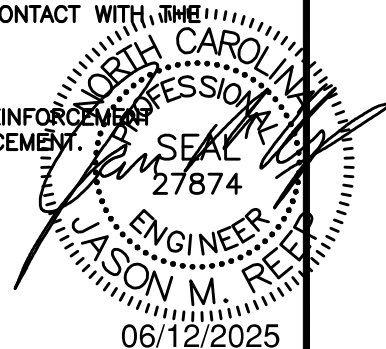
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

#### REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. 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.



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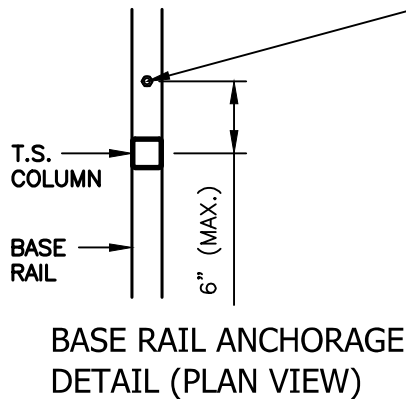
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**S7**

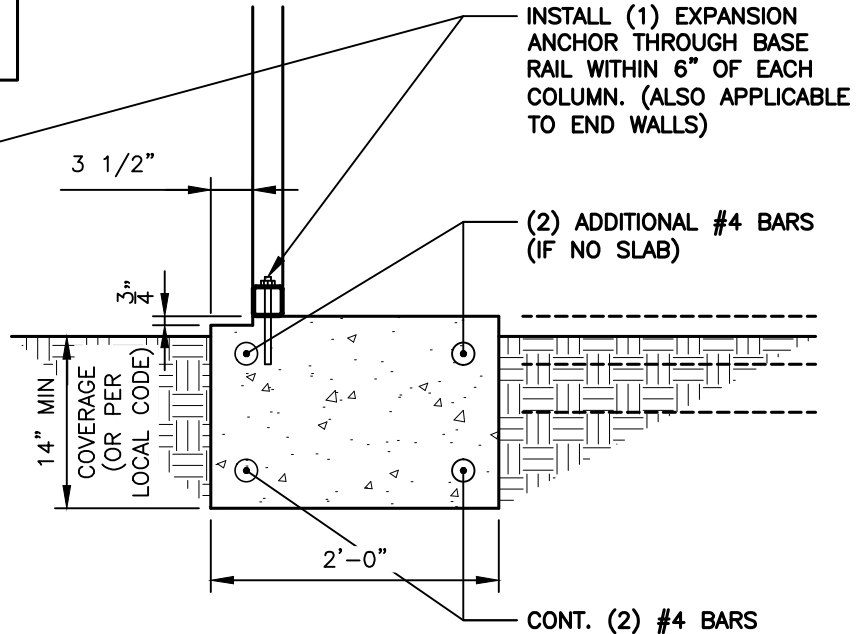
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## CONCRETE BASE RAIL ANCHORAGE (NO SLAB)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



SCALE: 3/4" = 1'-0"



### BASE RAIL ANCHORAGE DETAIL (NO SLAB)

SCALE: 3/4" = 1'-0"

#### GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

#### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

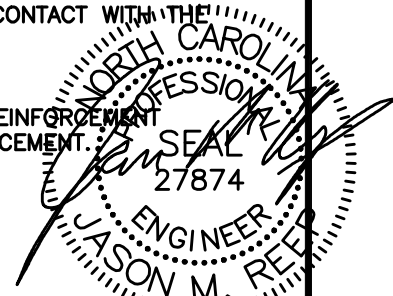
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. 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.



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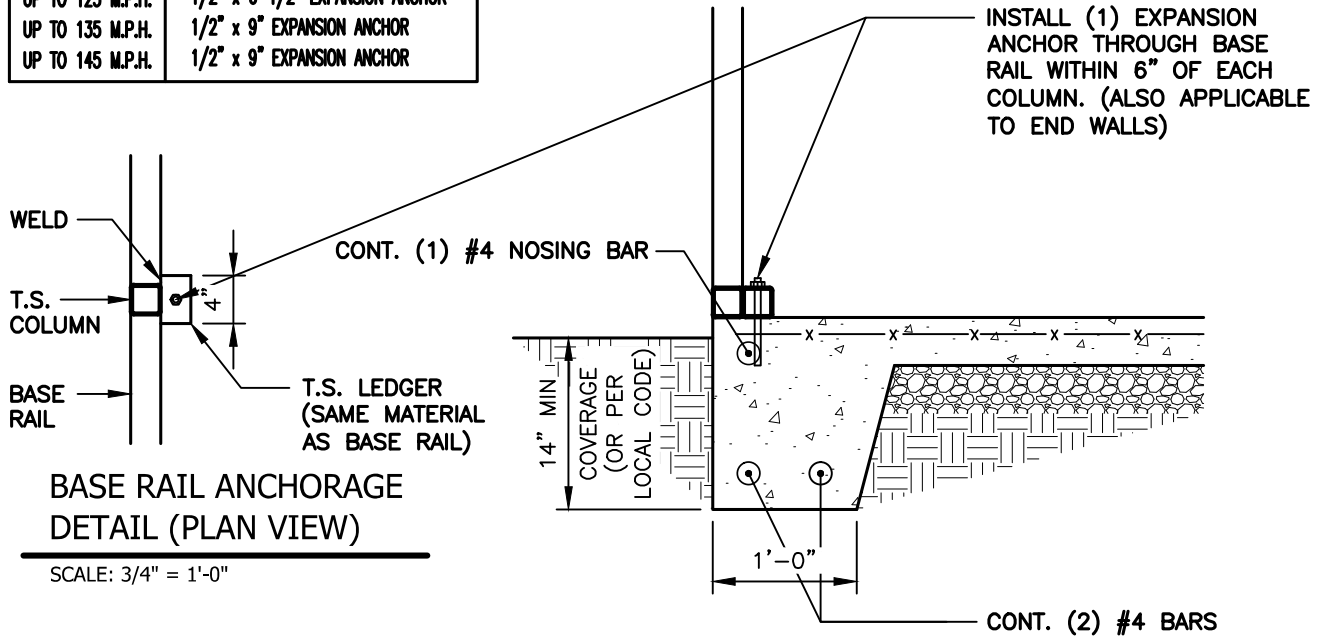
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**S7A**

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## CONCRETE BASE RAIL ANCHORAGE (LEAN-TO / NO LEDGE)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

#### GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

#### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

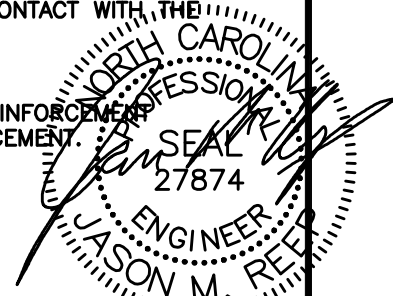
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. 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.



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619 Tripp Road  
Lillington NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0577

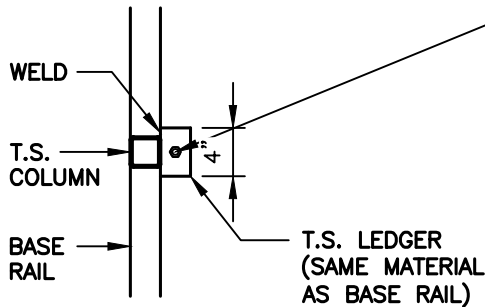
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**S7B**

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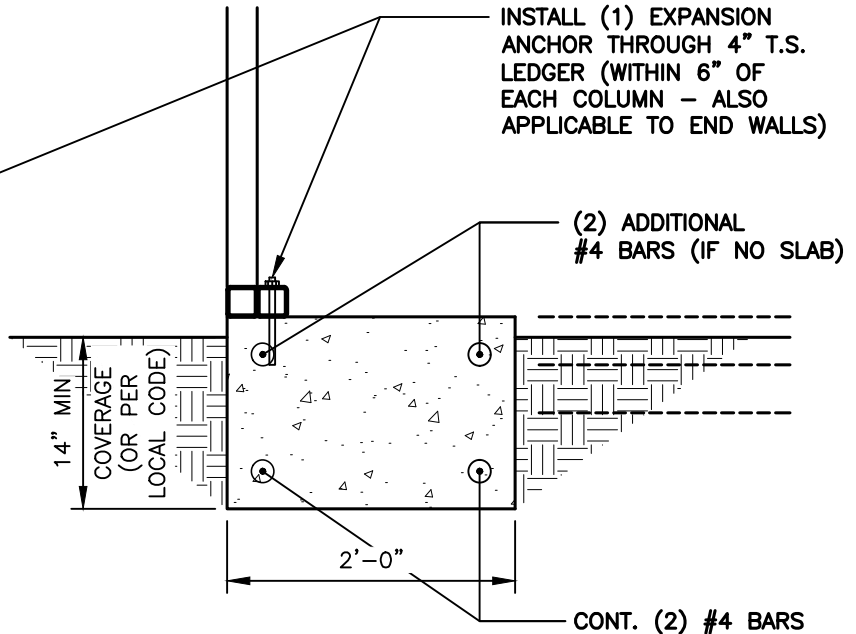
## CONCRETE BASE RAIL ANCHORAGE (NO LEDGE / NO SLAB)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



**BASE RAIL ANCHORAGE  
DETAIL (PLAN VIEW)**

SCALE: 3/4" = 1'-0"



**1 BASE RAIL ANCHORAGE DETAIL (NO SLAB)**

SCALE: 3/4" = 1'-0"

### GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

#### COVER OVER REINFORCING STEEL:

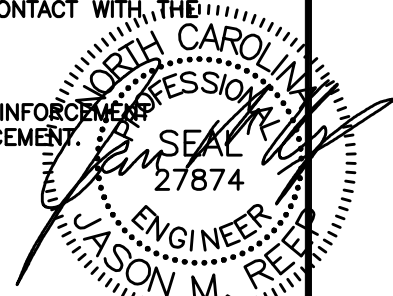
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. 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.



06/12/2025

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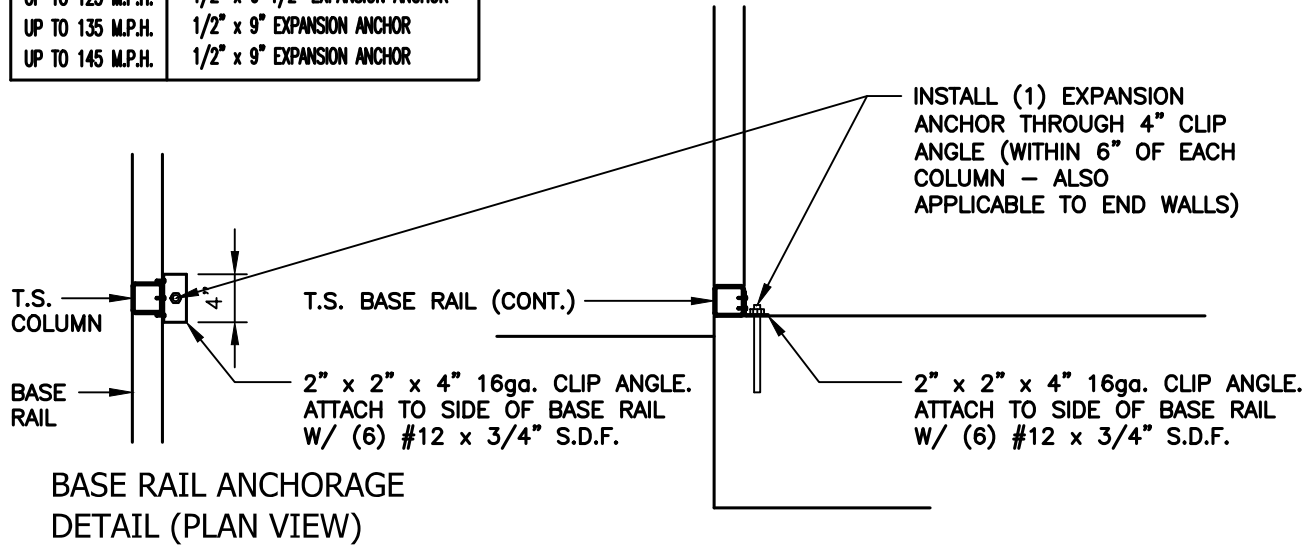
DATE:  
06/12/25

SHEET NO:  
**S7C**

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# CONCRETE BASE RAIL ANCHORAGE (CLIP ANGLE ATTACHMENT OPTION)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



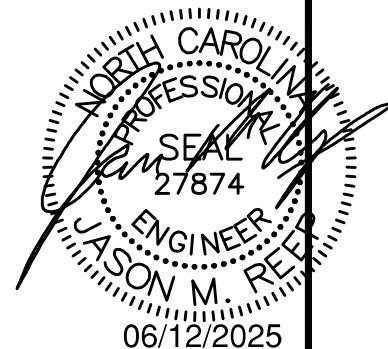
**BASE RAIL ANCHORAGE  
DETAIL (PLAN VIEW)**

SCALE: 3/4" = 1'-0"

**BASE RAIL ANCHORAGE DETAIL  
(CLIP ANGLE ATTACHMENT OPTION)**



SCALE: 3/4" = 1'-0"



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DATE:  
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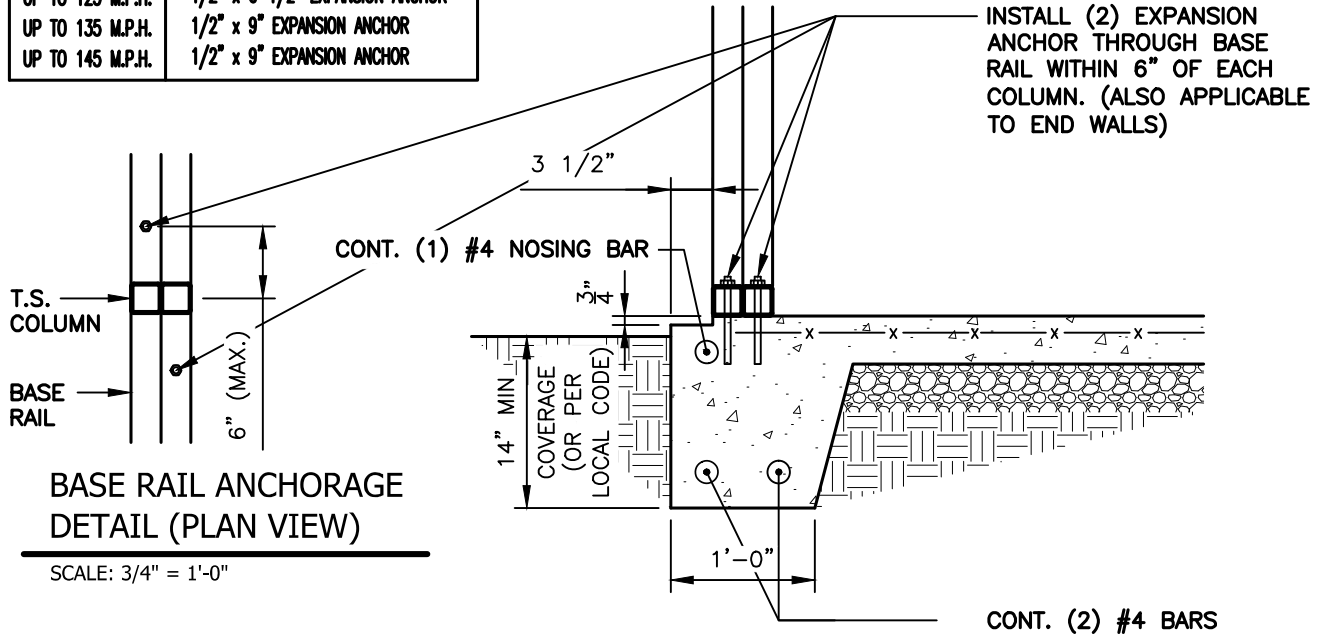
SHEET NO:  
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NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



## CONCRETE BASE RAIL ANCHORAGE

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

#### GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

#### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

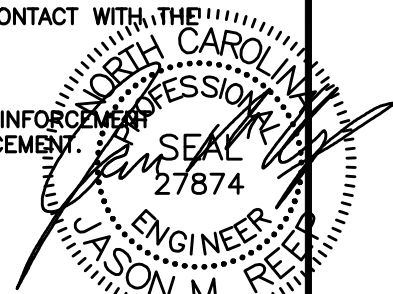
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. 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.



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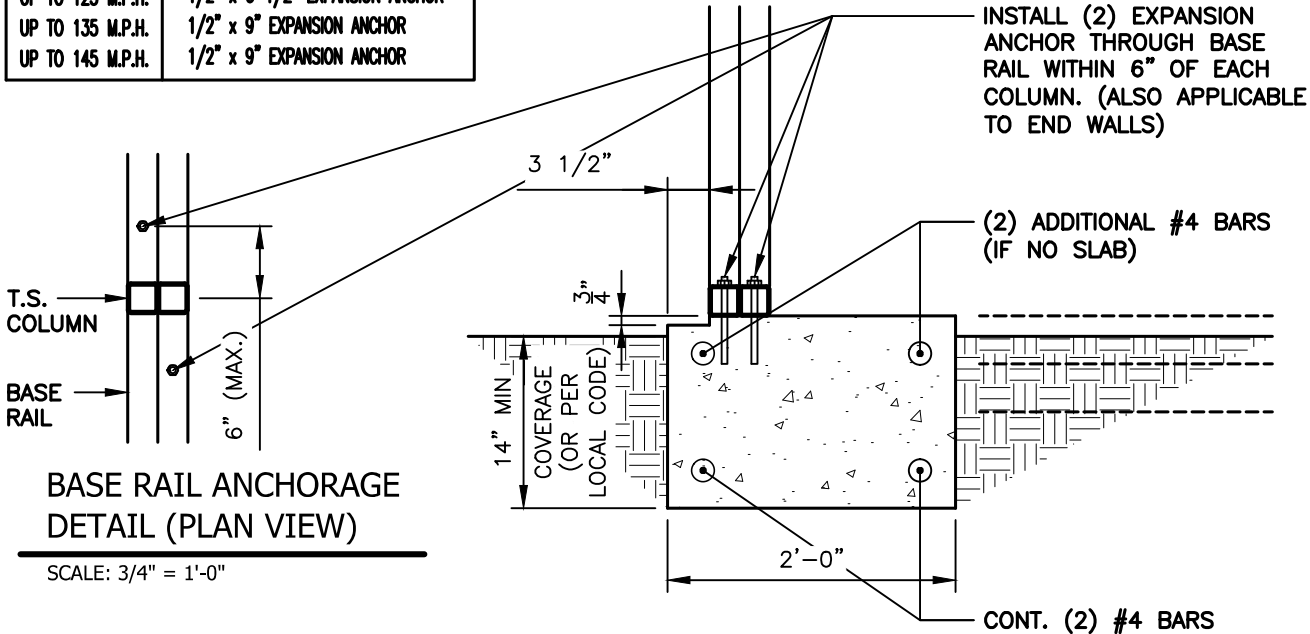
DATE:  
06/12/25

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### CONCRETE BASE RAIL ANCHORAGE (NO SLAB)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



# 1 S7F BASE RAIL ANCHORAGE DETAIL (NO SLAB) SCALE: 3/4" = 1'-0"

**GENERAL NOTES:**

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

## CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

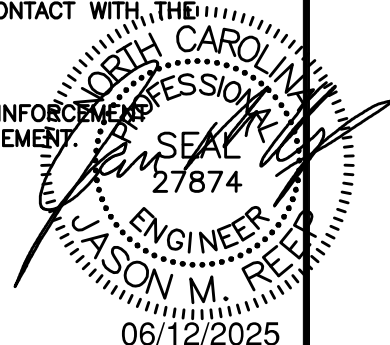
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

### REINFORCING STEEL:

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**REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:**

1. 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.



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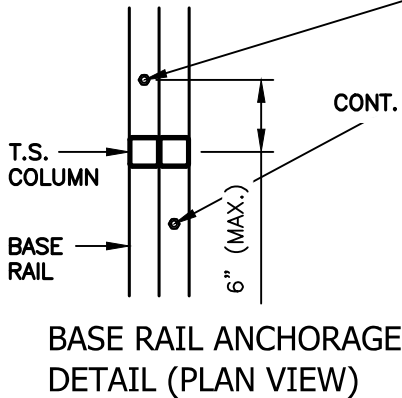
**DATE:**  
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## CONCRETE BASE RAIL ANCHORAGE (NO LEDGE)

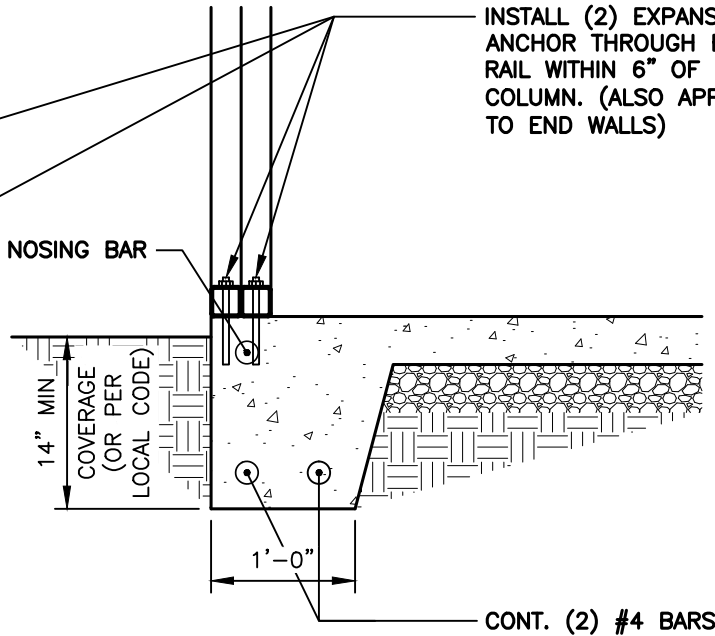
ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



SCALE: 3/4" = 1'-0"

CONT. (1) #4 NOSING BAR

INSTALL (2) EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN. (ALSO APPLICABLE TO END WALLS)



CONT. (2) #4 BARS



**BASE RAIL ANCHORAGE DETAIL**

SCALE: 3/4" = 1'-0"

### GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

#### COVER OVER REINFORCING STEEL:

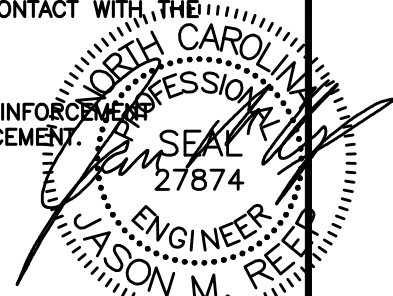
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#### REINFORCING STEEL:

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3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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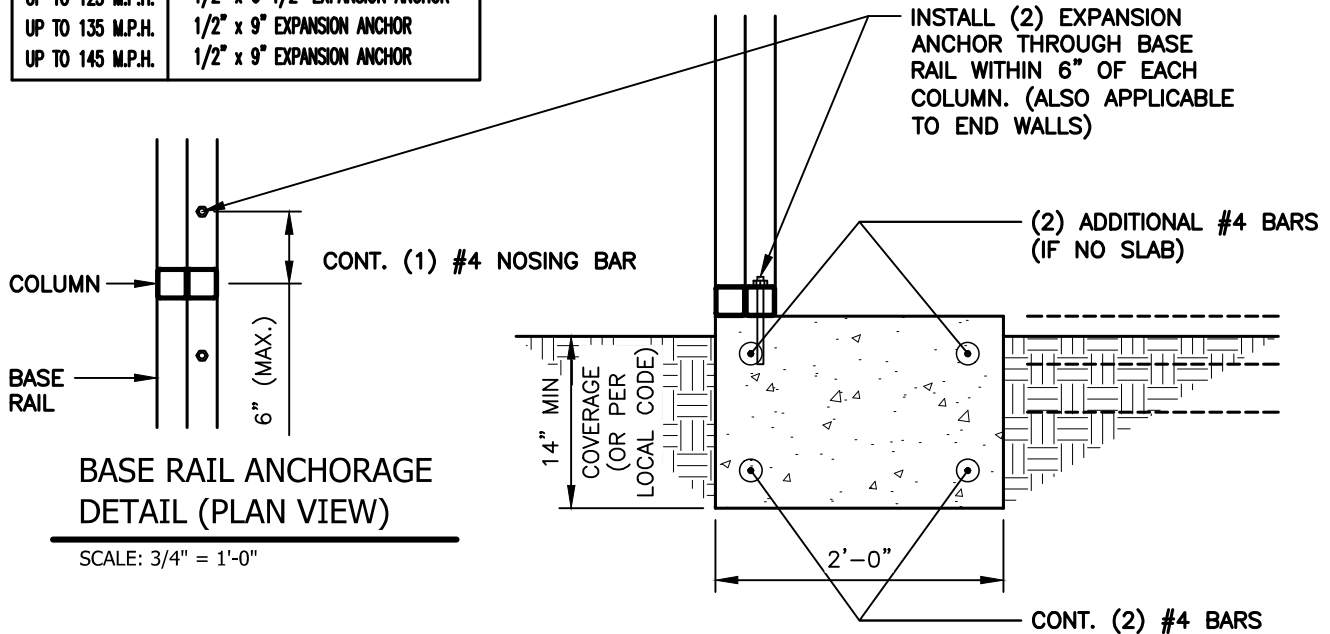
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### CONCRETE BASE RAIL ANCHORAGE (NO LEDGE / NO SLAB)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR



## 1 BASE RAIL ANCHORAGE DETAIL

S7H SCALE: 3/4" = 1'-0"

**GENERAL NOTES:**

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

**CONCRETE:**

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

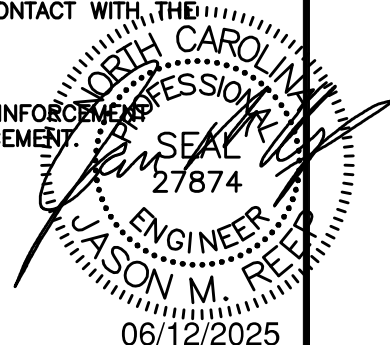
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

**REINFORCING STEEL:**

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3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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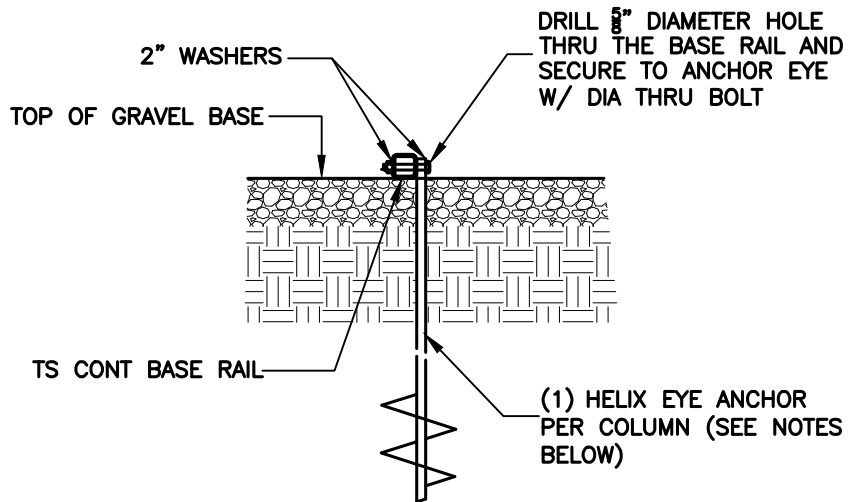
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**DATE:**  
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**SHEET NO:**  
**S7H**

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## SOIL NAIL BASE RAIL ANCHORAGE



### BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

#### HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMENTED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN. (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

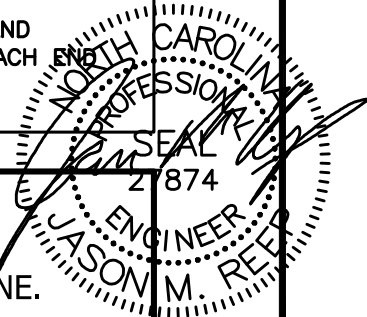
FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

#### NOTE:

IN ALL CASES, IF FROST DEPTH EXCEEDS STATED DEPTH, ANCHOR SHOULD EXTEND A MIN. OF 12" BELOW FROST LINE.



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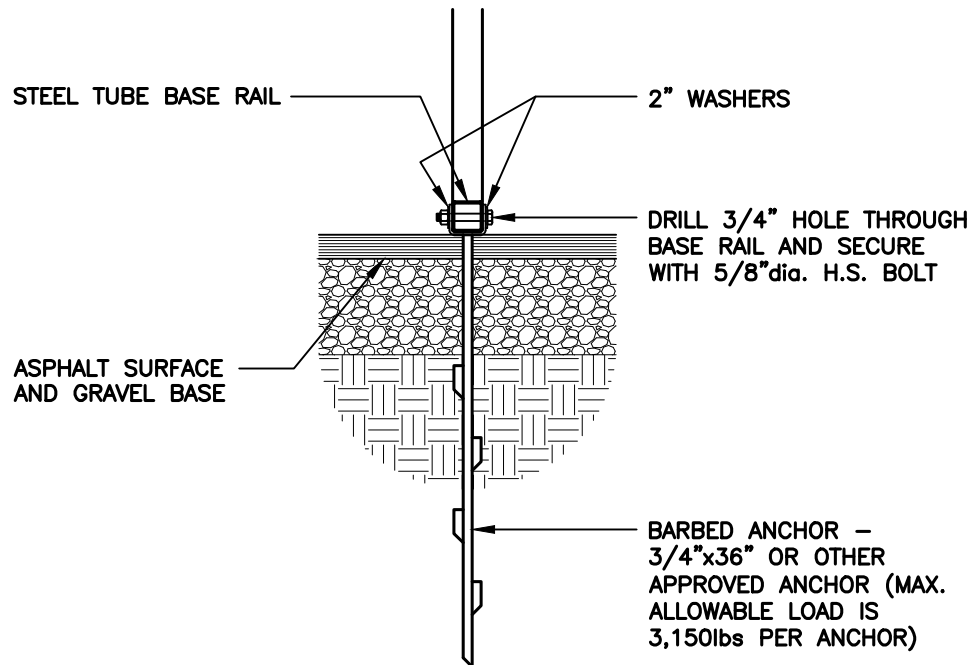
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06/12/25

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0725-0577

SHEET NO:  
**S8**

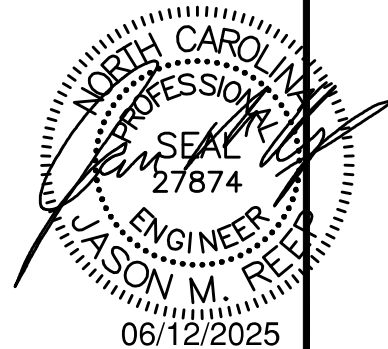
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

## ASPHALT ANCHOR BASE RAIL ANCHORAGE



### ASPHALT / BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"



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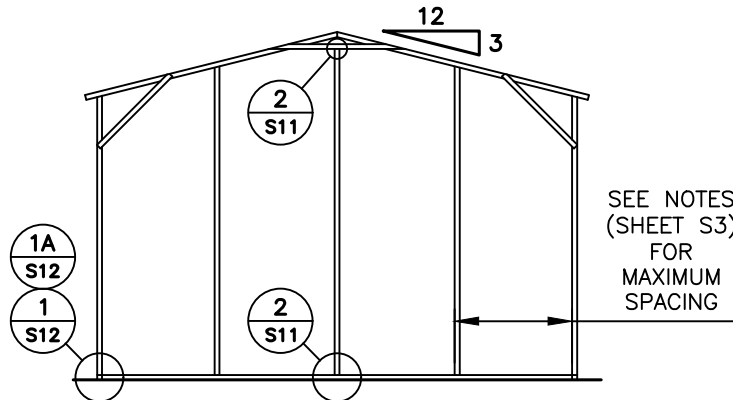
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06/12/25

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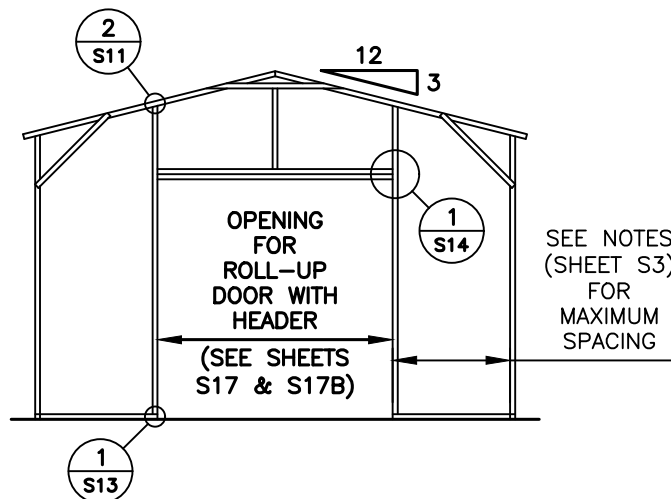
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

## BOX EVE RAFTER END WALL OPENINGS

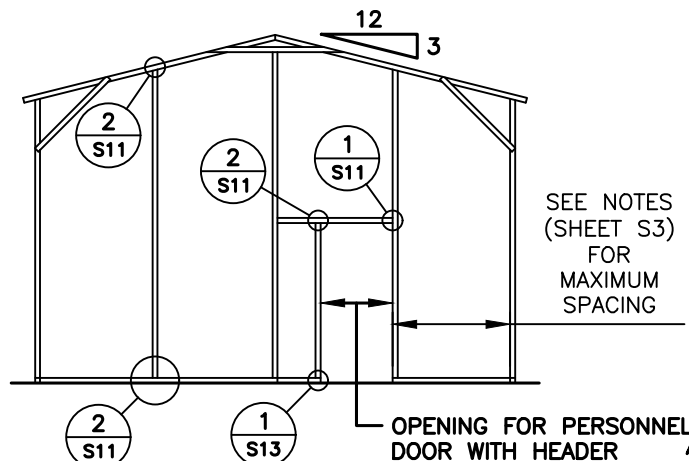


TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

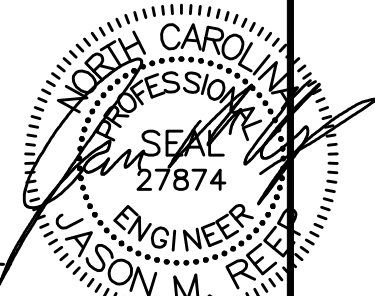
NOTE:  
ROLL UP DOORS SHALL  
HAVE ONE JAMB EACH  
SIDE + ONE FRAME  
COLUMN BETWEEN OR SITE  
SPECIFIC SHALL BE REQ'D.



TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION 06/12/2025



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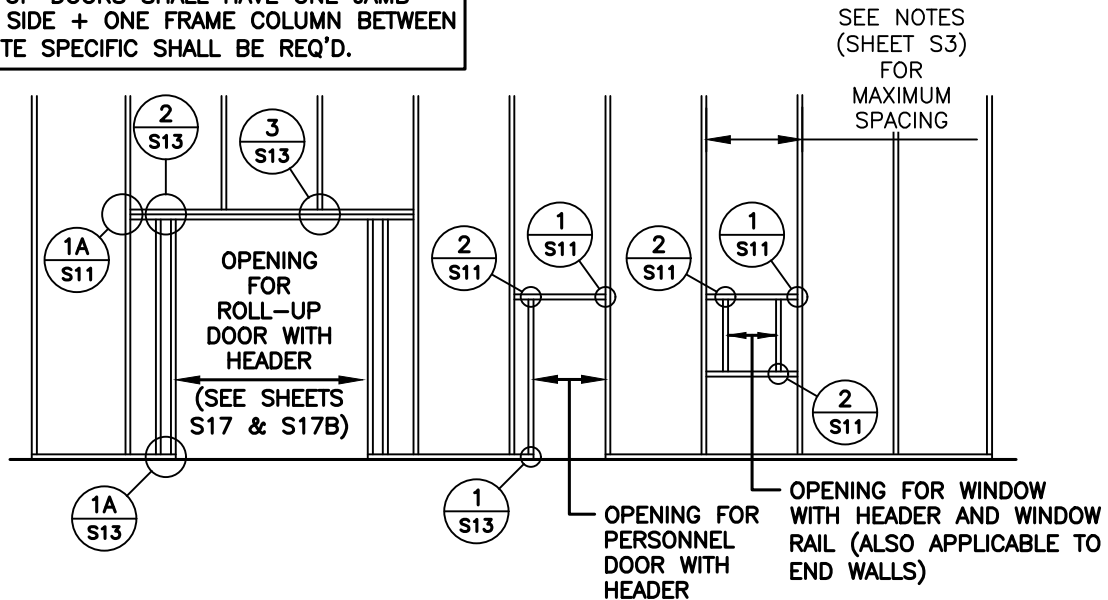
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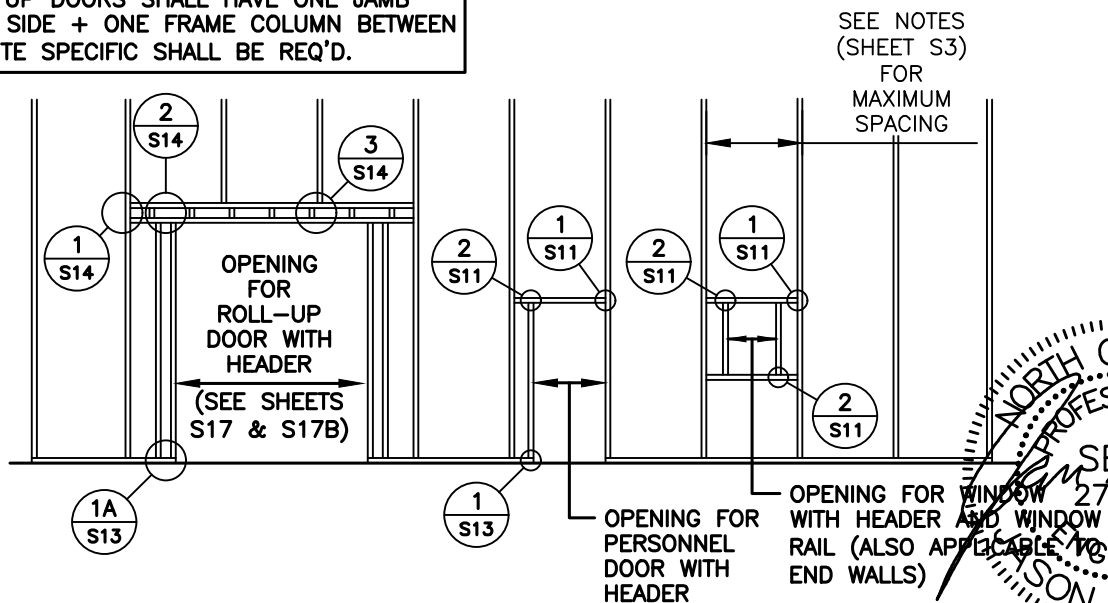
## BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

**NOTE:**  
ROLL UP DOORS SHALL HAVE ONE JAMB  
EACH SIDE + ONE FRAME COLUMN BETWEEN  
OR SITE SPECIFIC SHALL BE REQ'D.



### TYPICAL END WALL OPENING FRAMING SECTION

**NOTE:**  
ROLL UP DOORS SHALL HAVE ONE JAMB  
EACH SIDE + ONE FRAME COLUMN BETWEEN  
OR SITE SPECIFIC SHALL BE REQ'D.



### TYPICAL SIDE WALL OPENING FRAMING SECTION



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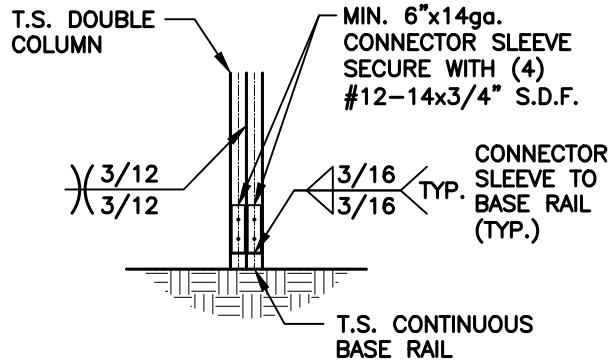
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**S9A**

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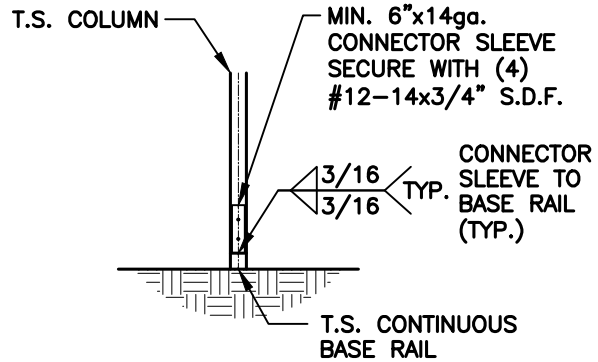
## CONNECTION DETAILS



POST / BASE RAIL  
CONNECTION DETAIL



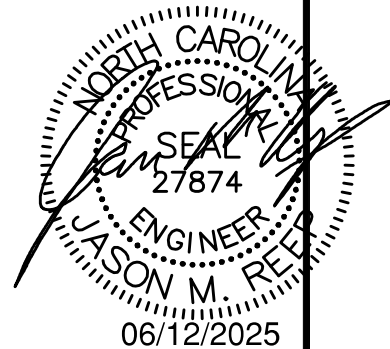
SCALE: 1/2" = 1'-0"



POST / BASE RAIL  
CONNECTION DETAIL



SCALE: 1/2" = 1'-0"



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BKS

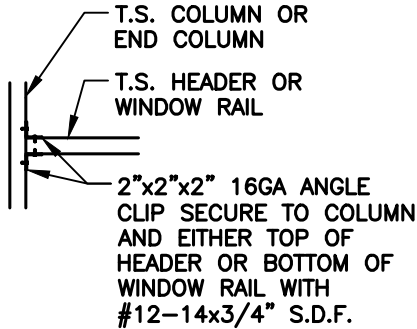
PROJECT NO:  
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**S10**

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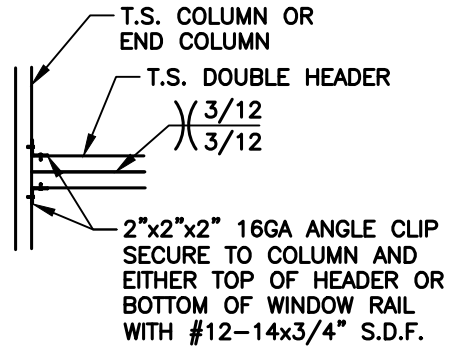
## CONNECTION DETAILS



COLUMN OR WINDOW  
RAIL / WALL GIRT TO POST  
CONNECTION DETAIL

1  
S11

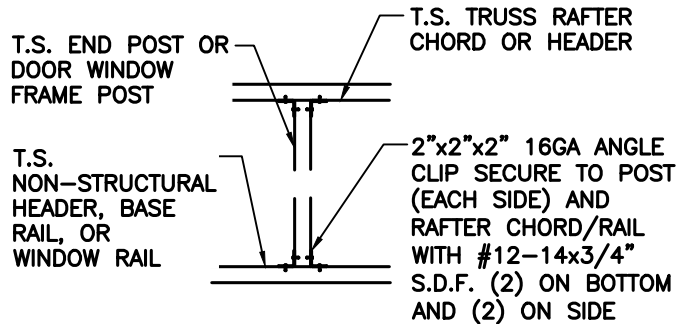
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER  
CONNECTION DETAIL

1A  
S11

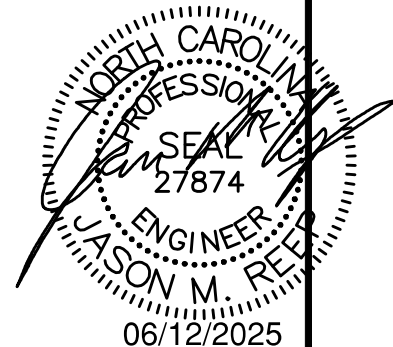
SCALE: 1/2" = 1'-0"



DOOR OR WINDOW HEADER  
RAIL TO POST CONNECTION  
DETAIL

2  
S11

SCALE: 1/2" = 1'-0"



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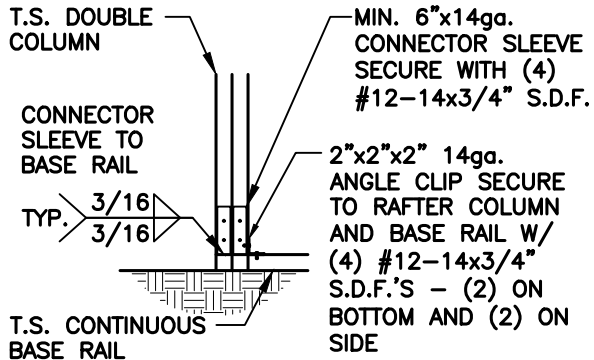
PROJECT NO:  
0725-0577

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SHEET NO:  
**S11**

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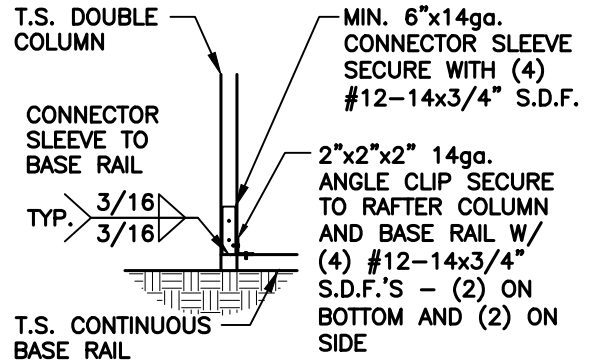
## CONNECTION DETAILS



END COLUMN / BASE RAIL  
CONNECTION DETAIL

1  
S12

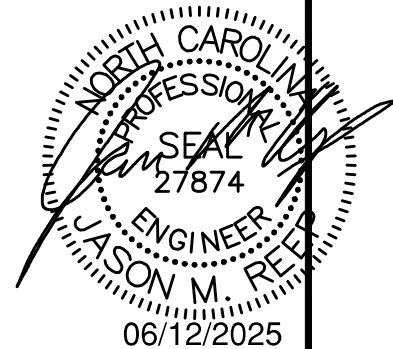
SCALE: 1/2" = 1'-0"



END COLUMN / BASE RAIL  
CONNECTION DETAIL

1A  
S12

SCALE: 1/2" = 1'-0"



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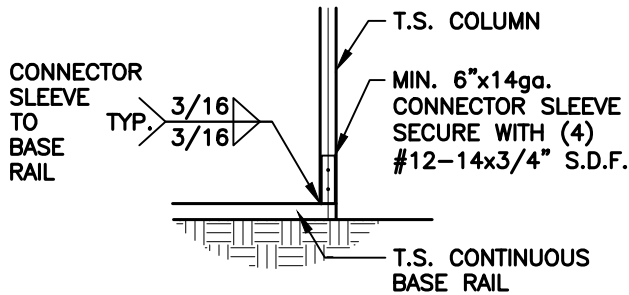
PROJECT NO:  
0725-0577

DATE:  
06/12/25

SHEET NO:  
**S12**

NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

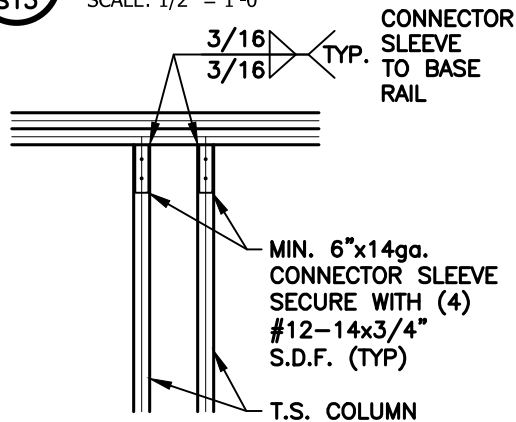
## CONNECTION DETAILS



**1**  
**COLUMN / BASE RAIL**  
**CONNECTION DETAIL**

**S13**

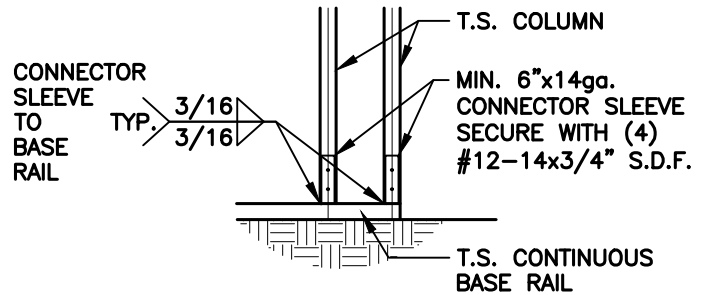
SCALE: 1/2" = 1'-0"



**2**  
**DOUBLE HEADER / COLUMN**  
**CONNECTION DETAIL**

**S13**

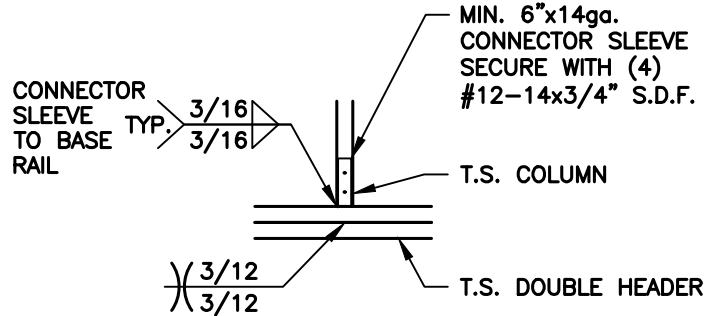
SCALE: 1/2" = 1'-0"



**1A**  
**COLUMN / BASE RAIL**  
**CONNECTION DETAIL**

**S13**

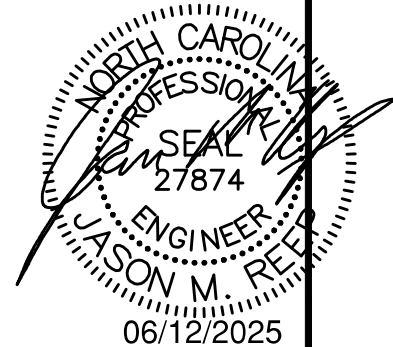
SCALE: 1/2" = 1'-0"



**3**  
**COLUMN / DOUBLE HEADER**  
**CONNECTION DETAIL**

**S13**

SCALE: 1/2" = 1'-0"



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**BKS**

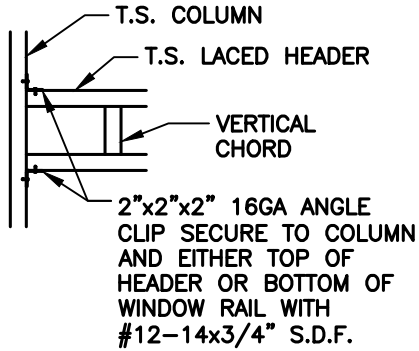
**PROJECT NO:**  
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**DATE:**  
06/12/25

**SHEET NO:**  
**S13**

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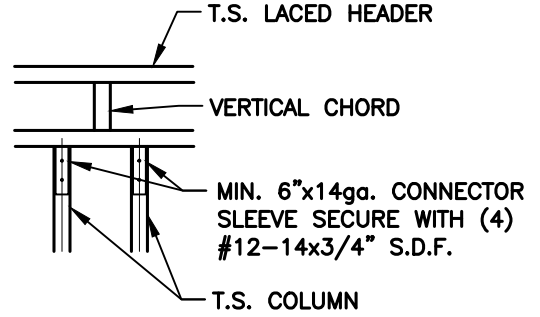
## CONNECTION DETAILS



**COLUMN / LACED HEADER  
CONNECTION DETAIL**

1  
S14

SCALE: 1/2" = 1'-0"

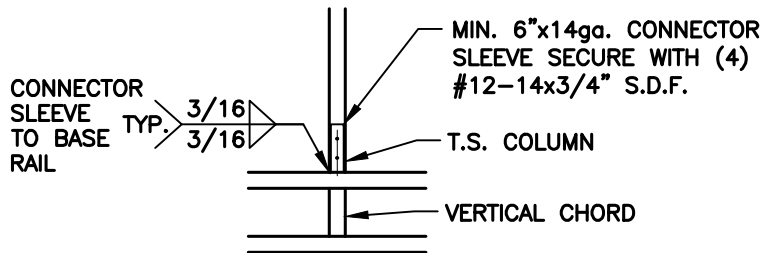


**LACED HEADER / COLUMN  
CONNECTION DETAIL**

2  
S14

SCALE: 1/2" = 1'-0"

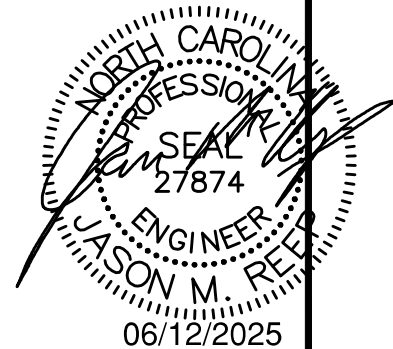
CONCRETE BASE RAIL ANCHORAGE



**COLUMN / LACED HEADER  
CONNECTION DETAIL**

3  
S14

SCALE: 1/2" = 1'-0"



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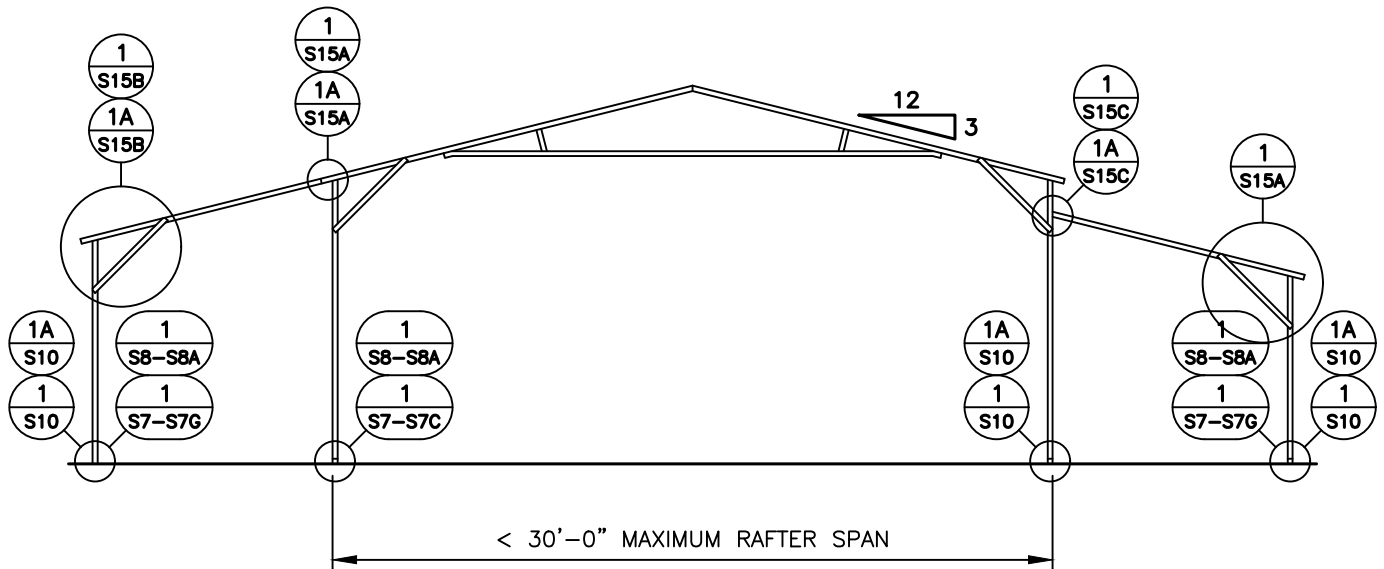
PROJECT NO:  
0725-0577

DATE:  
06/12/25

SHEET NO:  
**S14**

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## BOX EVE RAFTER LEAN-TO OPTIONS



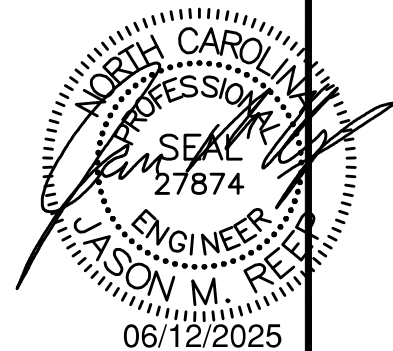
### TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0"

MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO IS 15'-0"

12'-0" MAX. LEAN-TO HEIGHT WITH SINGLE COLUMN

16'-0" MAX. LEAN-TO HEIGHT WITH DOUBLE COLUMN



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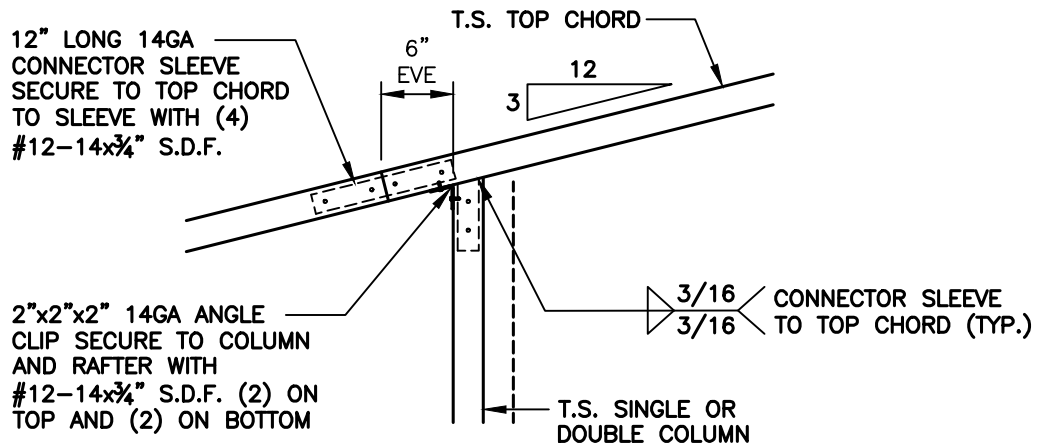
PROJECT NO:  
0725-0577

DATE:  
06/12/25

SHEET NO:  
**S15**

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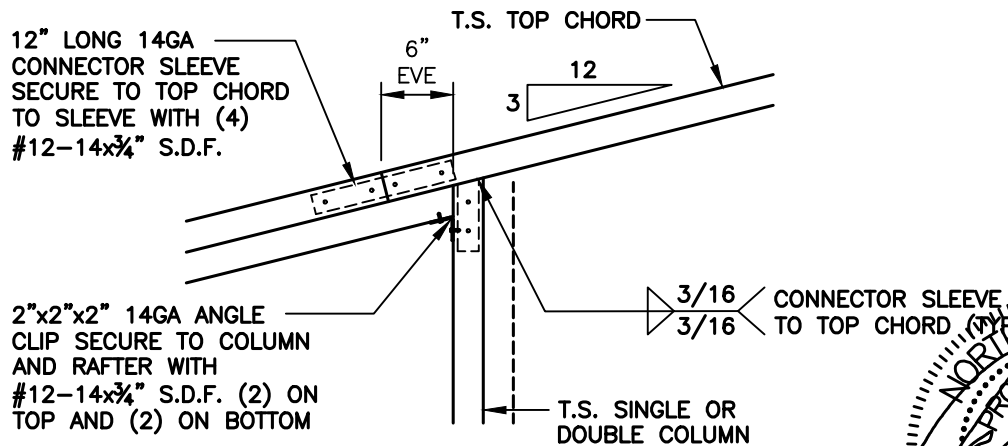
## LEAN-TO CONNECTION DETAILS



### ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 12'-0"

1  
S15A

SCALE: 3/4" = 1'-0"



### ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"

1A  
S15A

SCALE: 3/4" = 1'-0"

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
27874  
ENGINEER  
JASON M. REED  
06/12/2025

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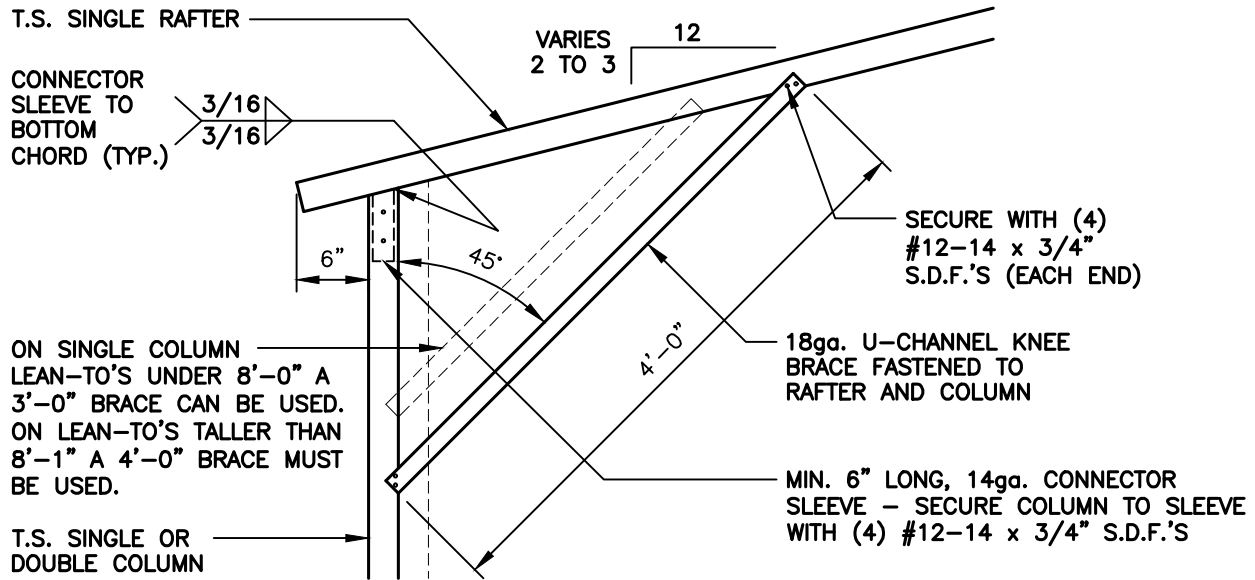
PROJECT NO:  
0725-0577

DATE:  
06/12/25

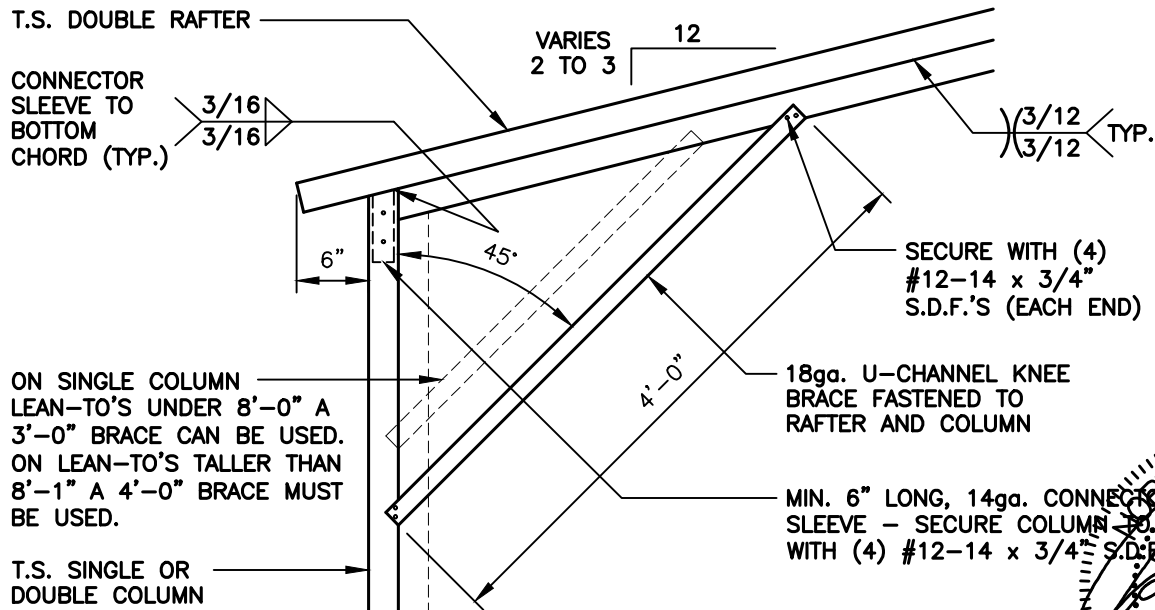
SHEET NO:  
**S15A**

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## LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



### LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL



### LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

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 JASON M. REEL  
 27874  
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DATE:  
06/12/25

SHEET NO:  
**S15B**

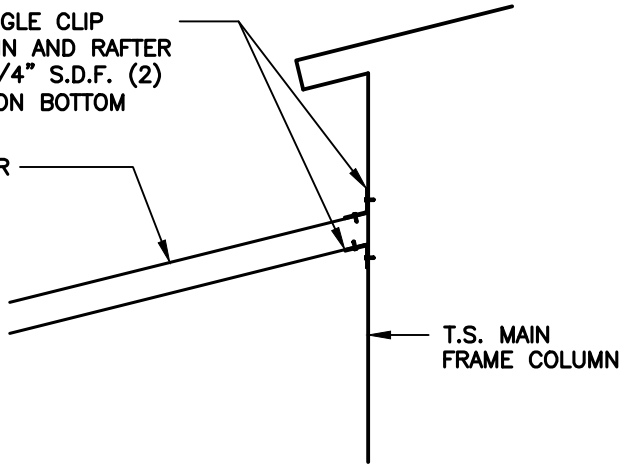
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



## LEAN-TO / MAIN FRAME CONNECTION DETAILS

2"x2"x2" 14ga. ANGLE CLIP  
SECURE TO COLUMN AND RAFTER  
WITH #12-14 x 3/4" S.D.F. (2)  
ON TOP AND (2) ON BOTTOM

T.S. SINGLE RAFTER



### LEAN-TO SINGLE RAFTER / BUILDING FRAME CONNECTION DETAIL

1  
S15C

SCALE: 3/4" = 1'-0"

2"x2"x2" 14ga. ANGLE CLIP  
SECURE TO COLUMN AND RAFTER  
WITH #12-14 x 3/4" S.D.F. (2)  
ON TOP AND (2) ON BOTTOM

T.S. SINGLE RAFTER

TYP.  $\frac{3/12}{3/12}$

$\frac{3/16}{3/16}$  CONNECTOR  
SLEEVE TO  
COLUMN

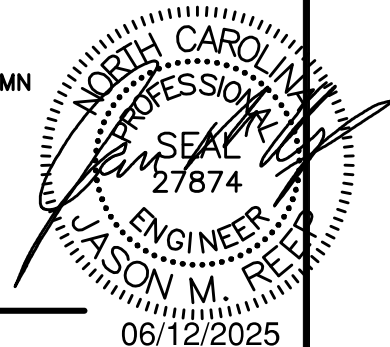
MIN. 6" LONG, 14ga. CONNECTOR  
SLEEVE - SECURE COLUMN TO  
SLEEVE WITH (4) #12-14 x 3/4"  
S.D.F.'S

T.S. MAIN  
FRAME COLUMN

### LEAN-TO DOUBLE RAFTER / BUILDING FRAME CONNECTION DETAIL

1A  
S15C

SCALE: 3/4" = 1'-0"



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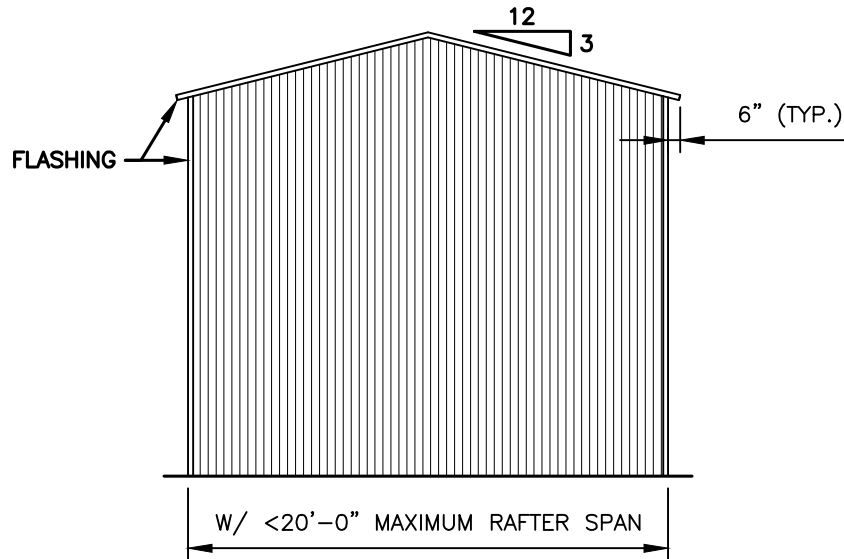
PROJECT NO:  
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DATE:  
06/12/25

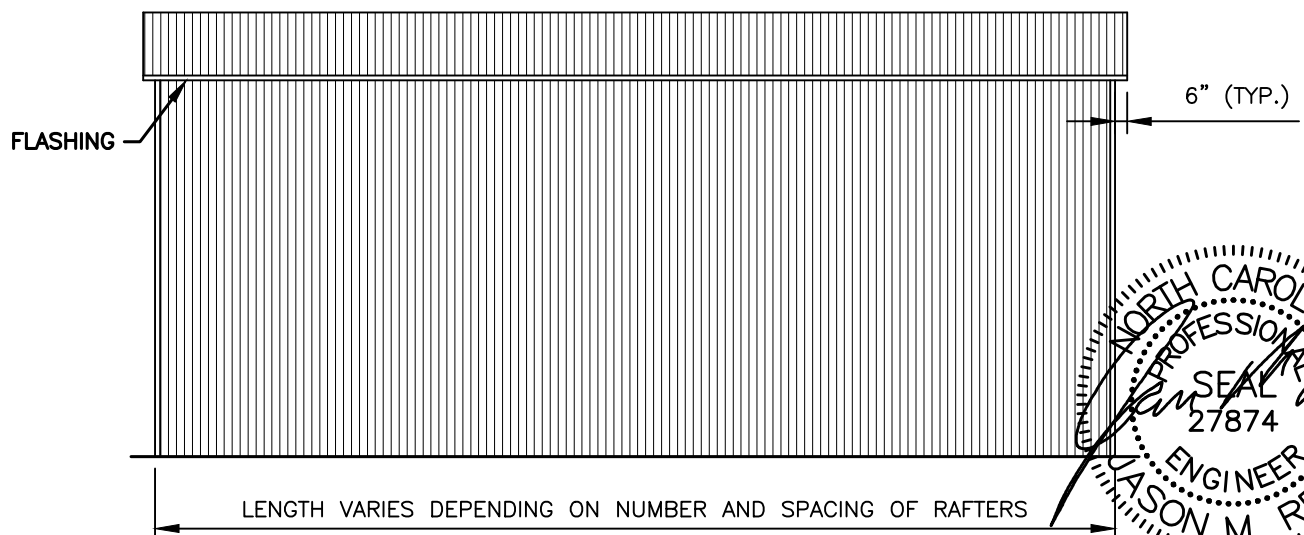
SHEET NO:  
**S15C**

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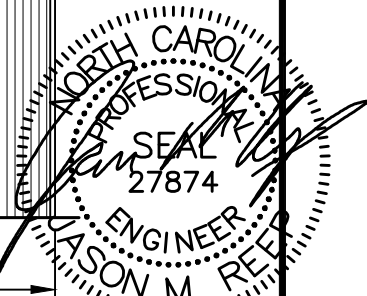
## VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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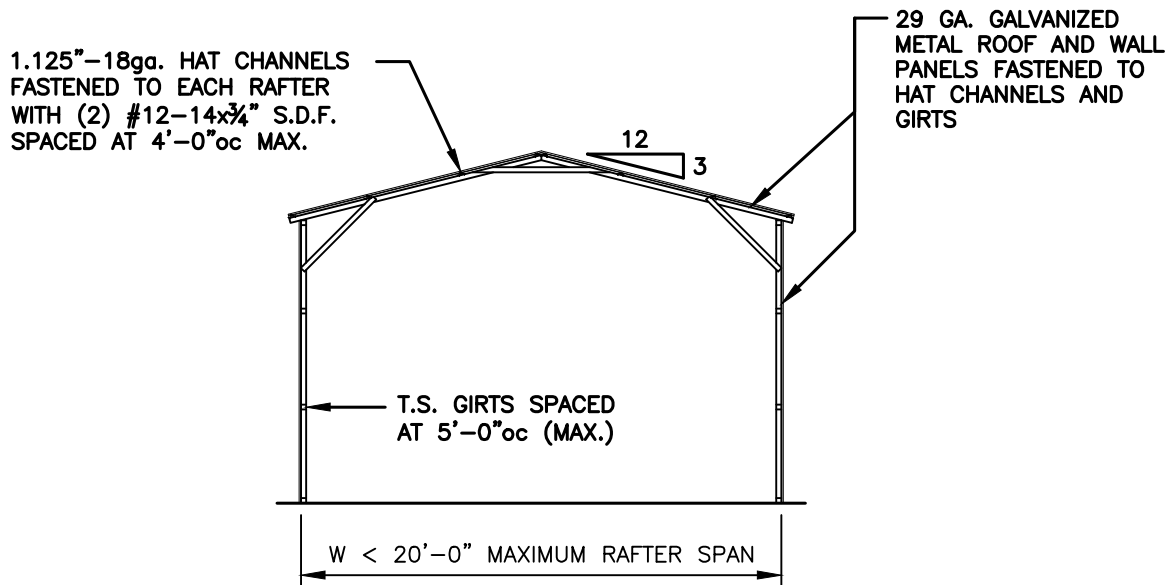
PROJECT NO:  
0725-0577

DATE:  
06/12/25

SHEET NO:  
**S16**

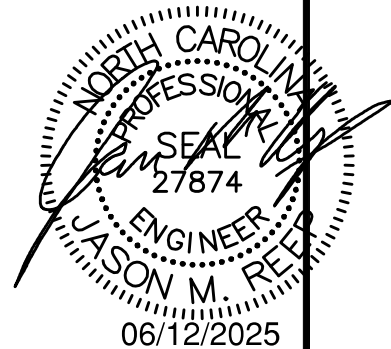
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

## VERTICAL ROOF / SIDING OPTION



## TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:  
H.S.S. 2-1/2"x2-1/2"x14ga. OR  
2-1/4"x2-1/4"x14ga. MATERIAL  
MAY BE USED FOR TRUSS METAL.



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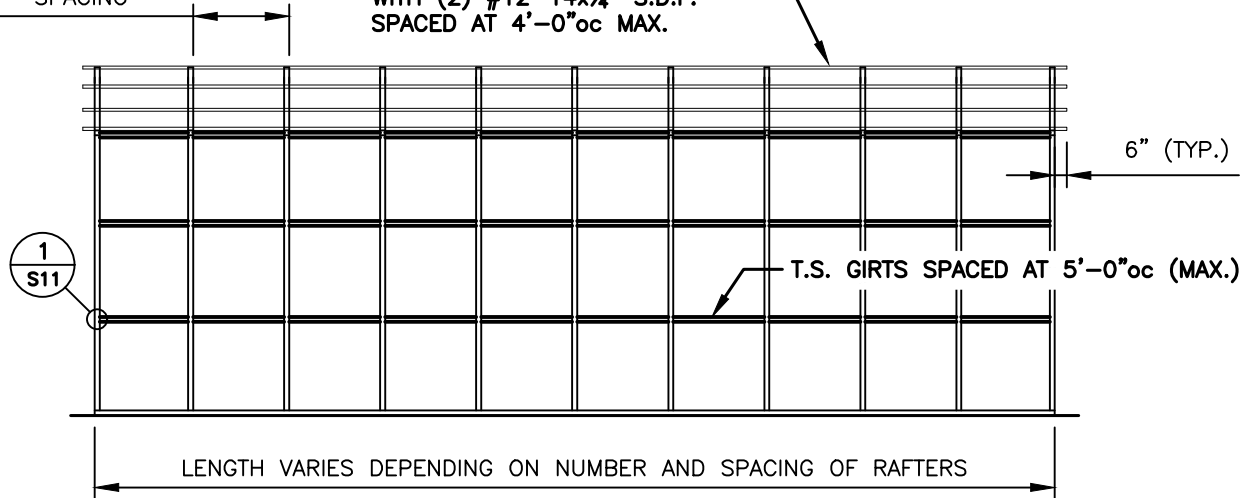
SHEET NO:  
**S16A**

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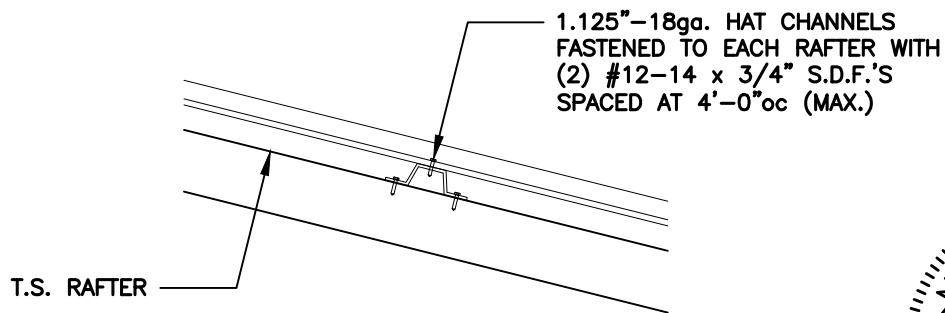
## VERTICAL ROOF / SIDING OPTION

SEE NOTES  
(SHEET S3)  
FOR MAXIMUM  
SPACING

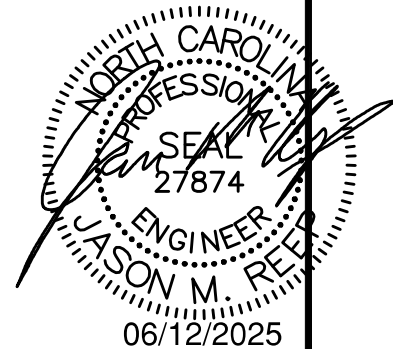
1.125"-18ga. HAT CHANNELS  
FASTENED TO EACH RAFTER  
WITH (2) #12-14x $\frac{3}{4}$ " S.D.F.  
SPACED AT 4'-0"oc MAX.



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



(TYPICAL) ROOF PANEL ATTACHMENT



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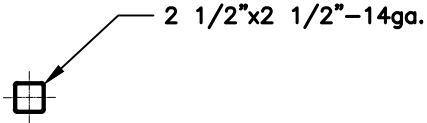
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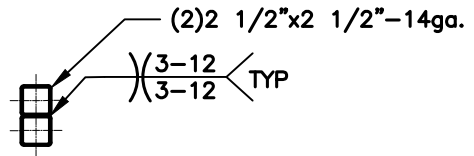
SHEET NO:  
**S16B**

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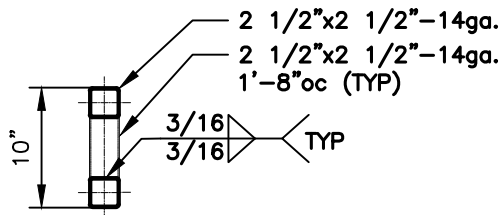
## SIDE WALL HEADER OPTIONS



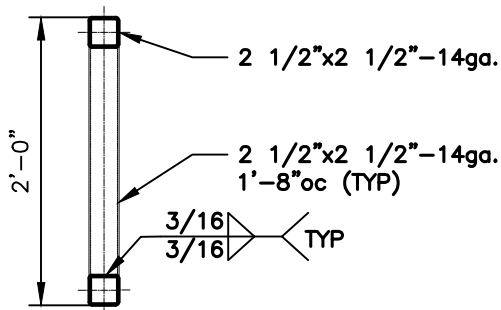
HEADER DETAIL FOR DOOR  
OPENINGS < 4'-0"  
NTS



HEADER DETAIL FOR DOOR  
OPENINGS 4'-1" < TO < 12'-0"  
NTS



LACED HEADER DETAIL FOR DOOR  
OPENINGS 12'-1" < TO < 15'-0"  
NTS



LACED HEADER DETAIL FOR DOOR  
OPENINGS 15'-1" < TO < 20'-0"

### GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADERS  
ON DOUBLE COLUMNS AND LACED  
COLUMNS



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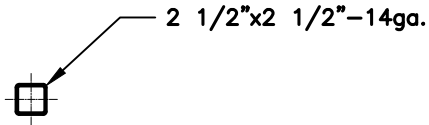
PROJECT NO:  
0725-0577

DATE:  
06/12/25

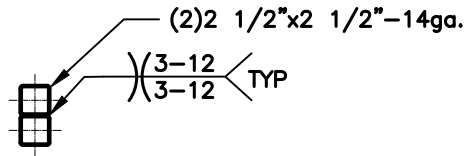
SHEET NO:  
**S17**

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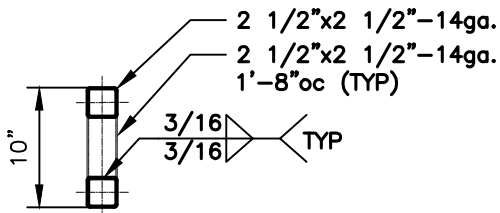
## END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR  
OPENINGS < 7'-0"  
NTS



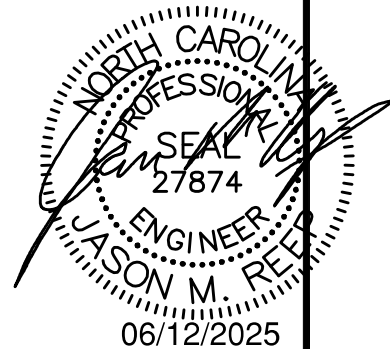
HEADER DETAIL FOR DOOR  
OPENINGS 7'-1" < TO < 16'-0"  
NTS



LACED HEADER DETAIL FOR DOOR  
OPENINGS 16'-1" < TO < 20'-0"  
NTS

### GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER  
ON DOUBLE COLUMNS AND LACED  
COLUMNS



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**S17A**

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