

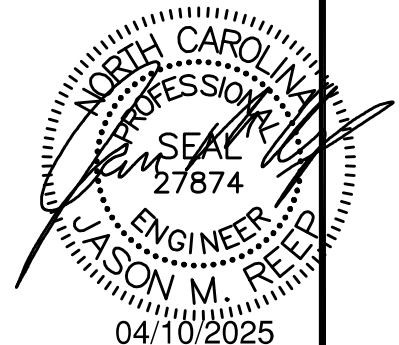
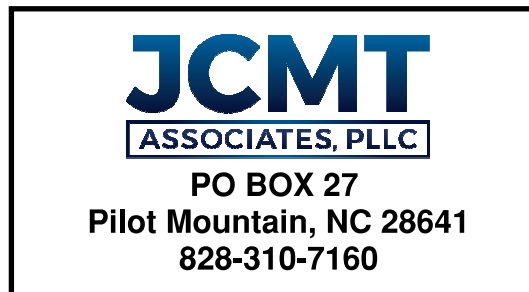
### ENCLOSED GABLE END BUILDING

MIN. 31' TO MAX. 60' WIDE X 20' EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 35 P.S.F. SNOW LOAD

FOR:

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

ISSUE DATE: 04/10/2025



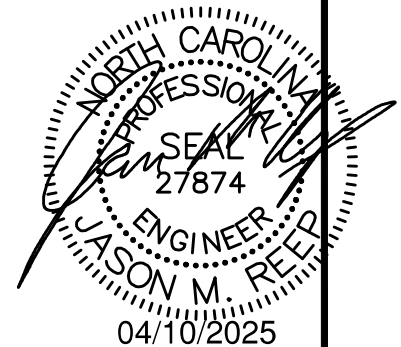
04/10/2025  
THESE PLANS HAVE BEEN PROPERLY  
EXAMINED BY THE UNDERSIGNED. I  
DETERMINED THAT THEY COMPLY  
WITH EXISTING LOCAL NORTH  
CAROLINA CODES AND ARE  
APPROPRIATE FOR USE IN THIS AREA

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

# SHEET INDEX

SHEET NUMBER	SHEET TITLE
S0	SEALED COVER SHEET
S2	DRAWING INDEX
S3	GENERAL NOTES AND SPECIFICATIONS
S4	END ELEVATION
S4A	SIDE ELEVATION
S5	TYPICAL RAFTER / COLUMN FRAME SECTIONS (<20'H / >31' TO <40'W)
S5A	TYPICAL RAFTER / COLUMN FRAME SECTIONS (<20'H / >41' TO <50'W)
S5B	TYPICAL RAFTER / COLUMN FRAME SECTIONS (<20'H / >51' TO <60'W)
S5C	TYPICAL FRAME SECTION
S5D	TYPICAL FRAME SECTION
S6	BOX EAVE / LACED COLUMN SECTION (<20'H / >31' TO <50')
S6A	BOX EAVE / LACED COLUMN SECTION (<20'H / >51' TO <60')
S7	BASE RAIL ANCHORGE / SINGLE COLUMN
S7A	BASE RAIL ANCHORGE / SINGLE COLUMN (NO SLAB)
S7B	BASE RAIL ANCHORGE / SINGLE COLUMN (NO SIDING SHELF)
S7C	BASE RAIL ANCHORGE / SINGLE COLUMN (NO SLAB / NO SIDING SHELF)
S7D	BASE RAIL ANCHORGE / SINGLE COLUMN (CLIP ANGLE ATTACHMENT OPTION)
S7E	BASE RAIL ANCHORGE / DOUBLE COLUMN
S7F	BASE RAIL ANCHORGE / DOUBLE COLUMN (NO SLAB)
S7G	BASE RAIL ANCHORGE / DOUBLE COLUMN (NO SIDING SHELF)
S7H	BASE RAIL ANCHORGE / DOUBLE COLUMN (NO SLAB / NO SIDING SHELF)
S7J	BASE RAIL ANCHORGE / LACED COLUMN (NO SLAB / NO SIDING SHELF)
S7K	BASE RAIL ANCHORGE / LACED COLUMN (NO SLAB / NO SIDING SHELF)
S7L	BASE RAIL ANCHORGE / LACED COLUMN (NO SLAB / NO SIDING SHELF)
S7M	BASE RAIL ANCHORGE / LACED COLUMN (NO SLAB / NO SIDING SHELF)

SHEET NUMBER	SHEET TITLE
S8	(SOIL) BASE RAIL ANCHORAGE
S9	TYPICAL BOX EAVE / END WALL FRAMING AND OPENINGS
S9A	TYPICAL BOX EAVE / END WALL FRAMING AND OPENINGS
S9B	TYPICAL BOX EAVE / SIDE WALL FRAMING AND OPENINGS
S10	CONNECTION DETAILS
S11	CONNECTION DETAILS
S12	CONNECTION DETAILS
S13	CONNECTION DETAILS
S14	BOX EAVE RAFTER / SINGLE & DOUBLE RAFTER LEAN-TO OPTIONS
S14A	BOX EAVE / LACED RAFTER LEAN-TO OPTIONS
S14B	LEAN-TO HIP OPTIONS
S15	LEAN-TO CONNECTION DETAILS / SINGLE COLUMN
S15A	LEAN-TO CONNECTION DETAILS / DOUBLE COLUMN
S15B	LEAN-TO CONNECTION DETAILS / SINGLE COLUMN / LACED RAFTER
S15C	LEAN-TO CONNECTION DETAILS / DOUBLE COLUMN / LACED RAFTER
S15D	LEAN-TO / MAIN FRAME CONNECTION DETAILS
S15E	LEAN-TO / MAIN FRAME / LACED RAFTER CONNECTION DETAIL
S15F	LEAN-TO / MAIN FRAME CONNECTION DETAILS
S15G	LEAN-TO / MAIN FRAME / LACED RAFTER CONNECTION DETAIL (FLUSH)
S15H	END WALL COLUMN / HIP RAFTER CONNECTION DETAIL
S16	VERTICAL ROOF / SIDING OPTION
S16A	VERTICAL ROOF / SIDING OPTION
S16B	VERTICAL ROOF / SIDING OPTION
S17	SIDE WALL HEADER OPTIONS
S17A	END WALL HEADER OPTIONS



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S2**

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

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:                      10

WIND LOAD:                      BASIC WIND SPEED                      118      M.P.H. ASCE 7-10      \*DRIFT LOAD HAS NOT  
    EXPOSURE CATEGORY                      C      BEEN CALCULATED

SEISMIC DESIGN CATEGORY                      ☐ A      ☐ B      ☒ C      ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY                      II

SPECTRAL RESPONSE ACCELERATION                      S<sub>s</sub> 18.6      %g      S<sub>1</sub> 8.7      %g

SITE CLASSIFICATION                      D      ☐ FIELD TEST      ☒ PRESUMPTIVE      ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

☐ BEARING WALL                      ☐ DUAL W/ SPECTRAL MOMENT FRAME  
☒ BUILDING FRAME                      ☐ DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL  
☐ MOMENT FRAME                      ☐ INVERTED PENDULUM

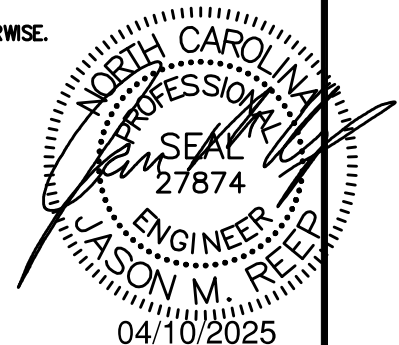
ANALYSIS PROCEDURE                      ☐ SIMPLIFIED      ☒ EQUIVALANT LATERAL FORCE      ☐ MODAL

LATERAL DESIGN CONTROL?                      ☐ EARTHQUAKE                      ☒ WIND

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

GENERAL NOTES:

1. MAX FRAME SPACING SHALL BE 48"oc UNLESS NOTED OTHERWISE.
2. MAX. END-WALL COLUMN SPACING SHALL BE 48"oc UNLESS NOTED OTHERWISE.
3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14ga. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.
4. ALL FASTENERS SHALL BE #12 SELF TAPPING AT 9"oc. UNLESS NOTED OTHERWISE.
5. 1,500 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
6. THIS DESIGN AND DRAWINGS MEET THE REQUIRMENTS OF THE 2021IBC.



**JCMT**  
 ASSOCIATES, PLLC

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

Marquis L. Devane  
 73 Bombo Drive  
 Lillington, NC 27546

DRAWN BY:  
 BKS

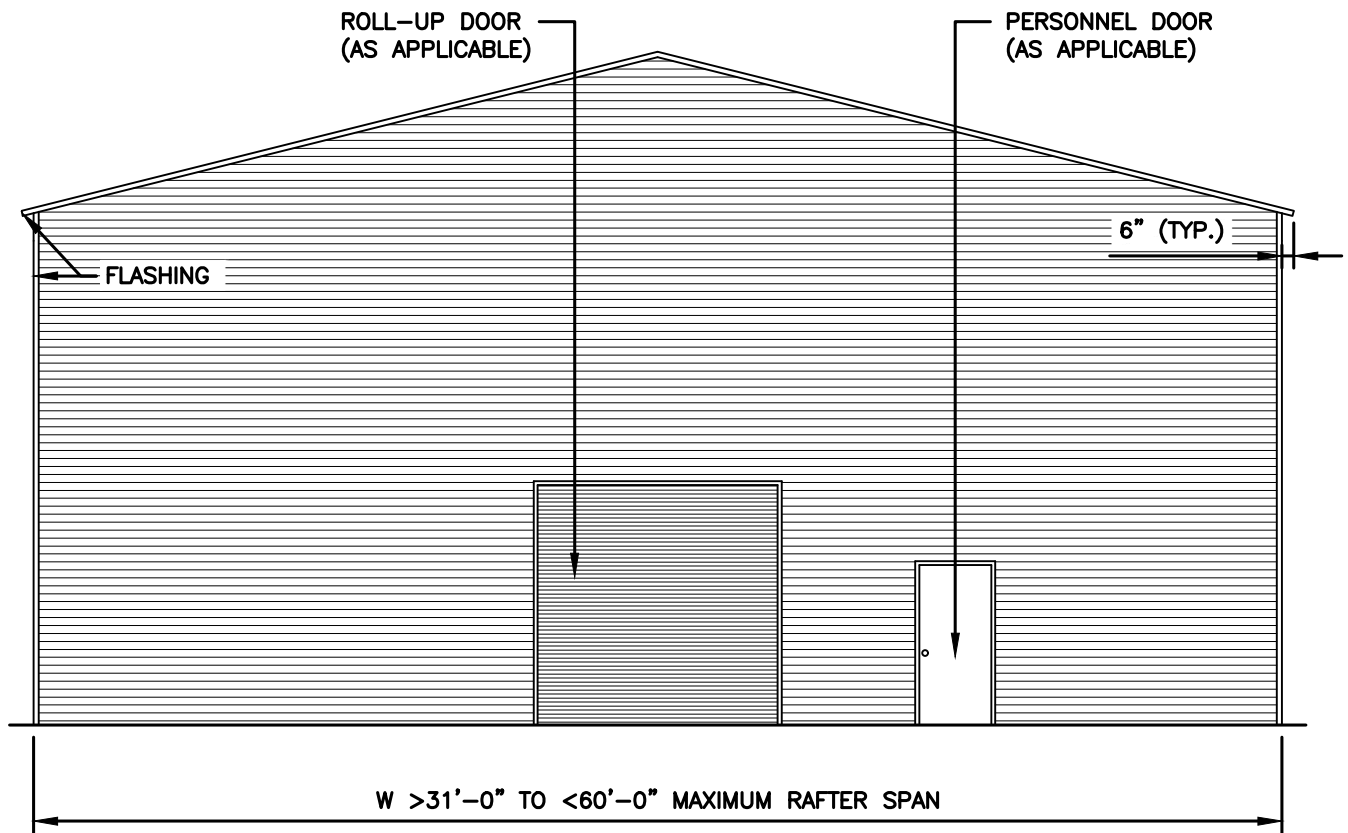
PROJECT NO:  
 0725-0381

DATE:  
 04/10/25

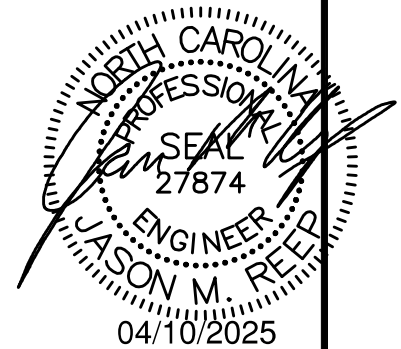
SHEET NO:  
**S3**

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

## BOX EVE FRAME RAFTER STURCTURE



TYPICAL END ELEVATION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

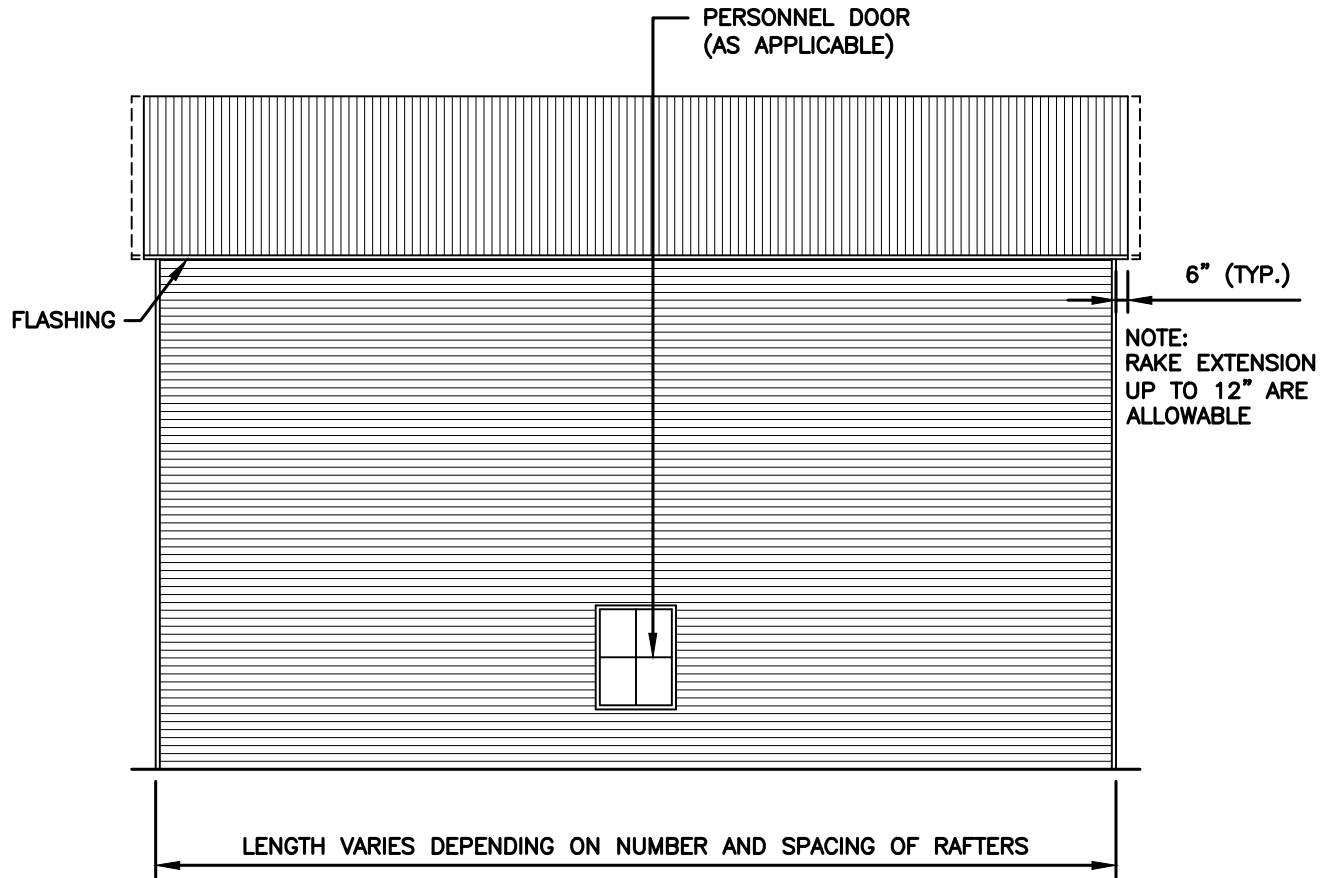
PROJECT NO:  
0725-0381

DATE:  
04/10/25

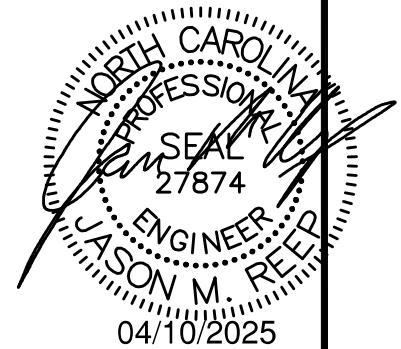
SHEET NO:  
**S4**

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

## BOX EVE FRAME RAFTER STURCTURE



TYPICAL SIDE ELEVATION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

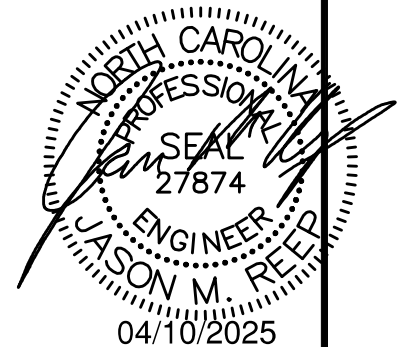
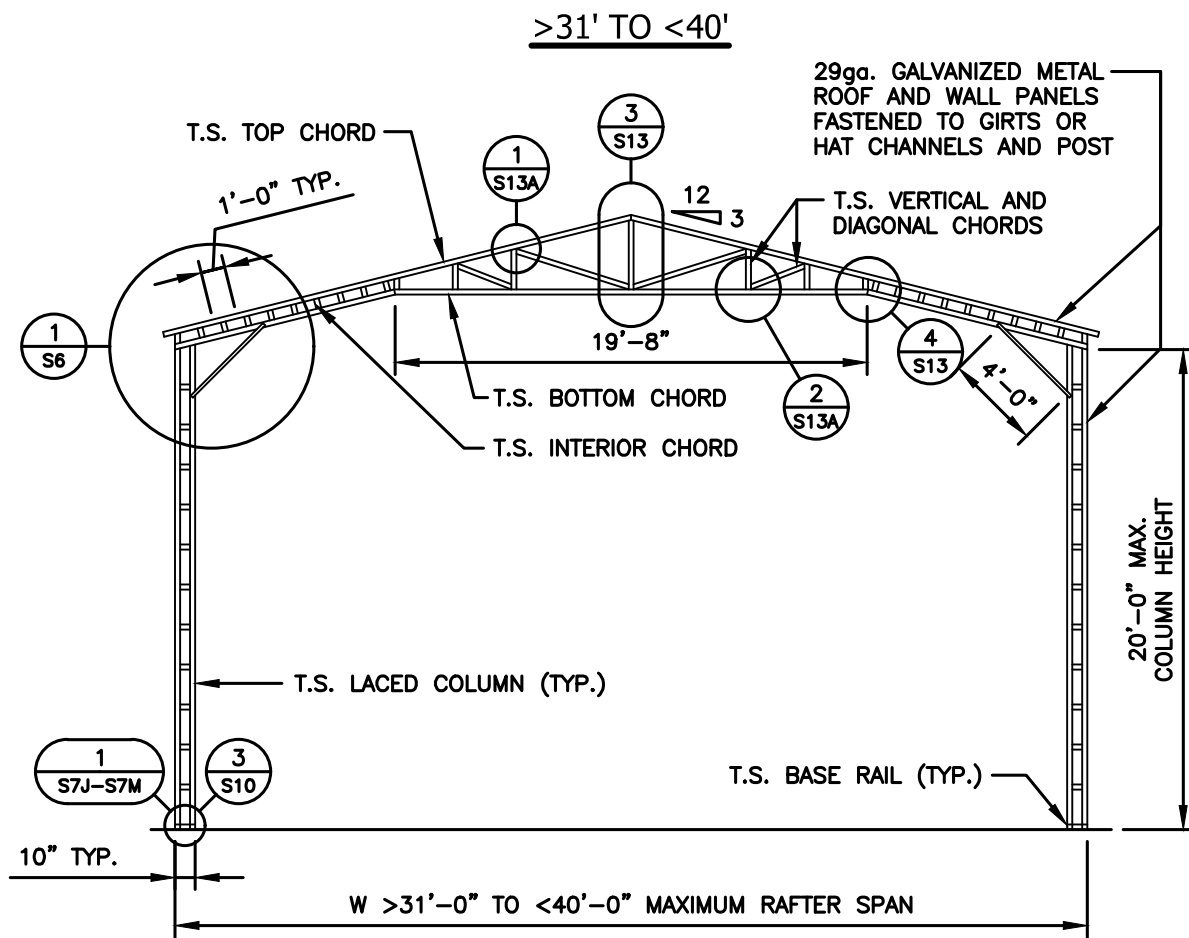
DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S4A**

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

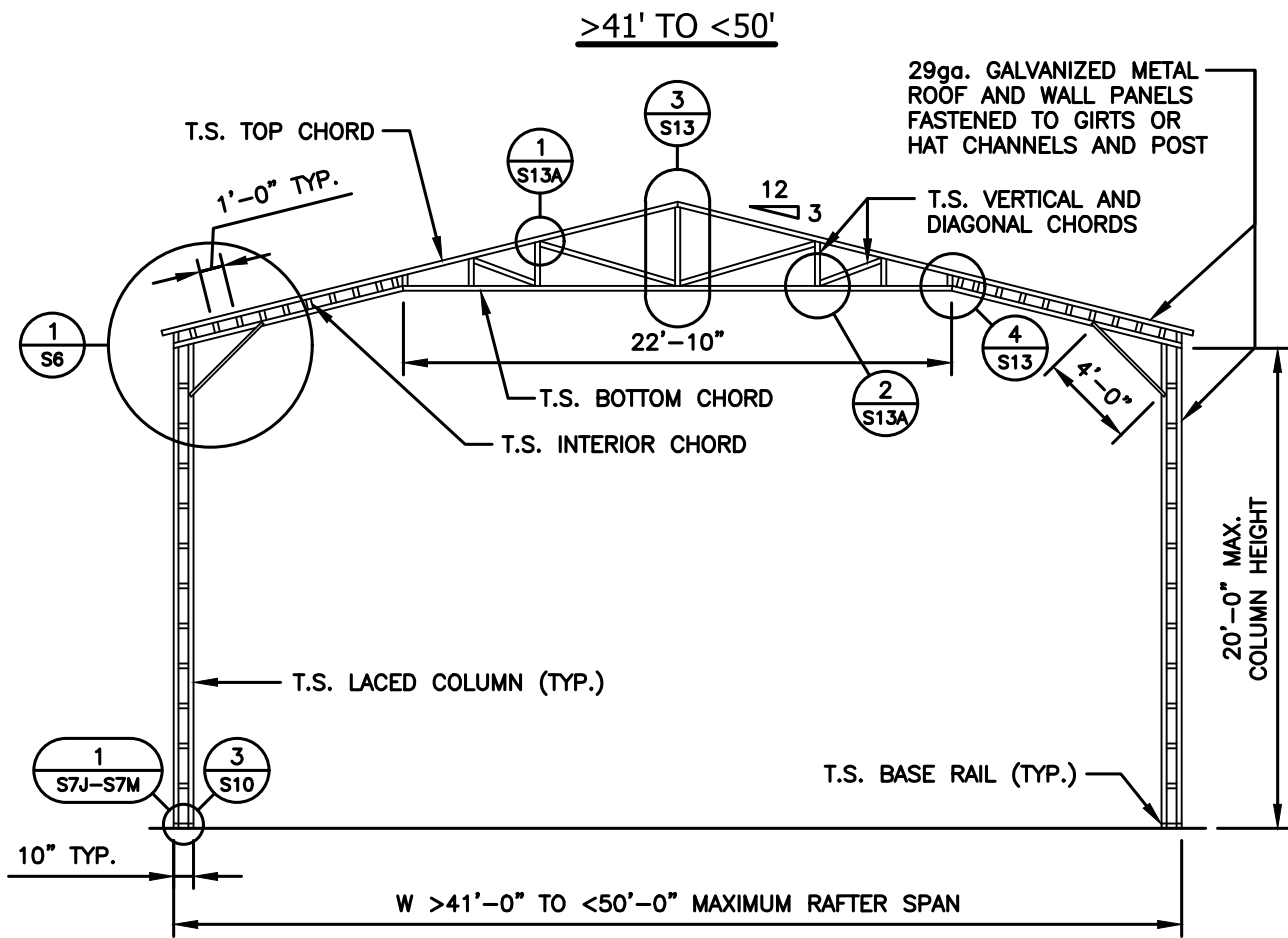
DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

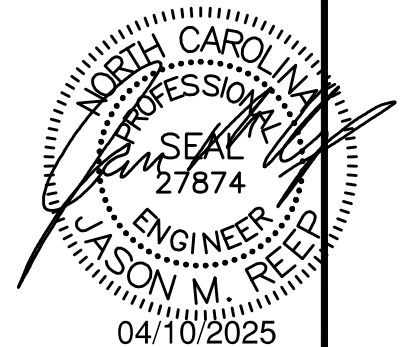
DATE:  
04/10/25

SHEET NO:  
**S5**

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



TYPICAL RAFTER / COLUMN FRAME SECTION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

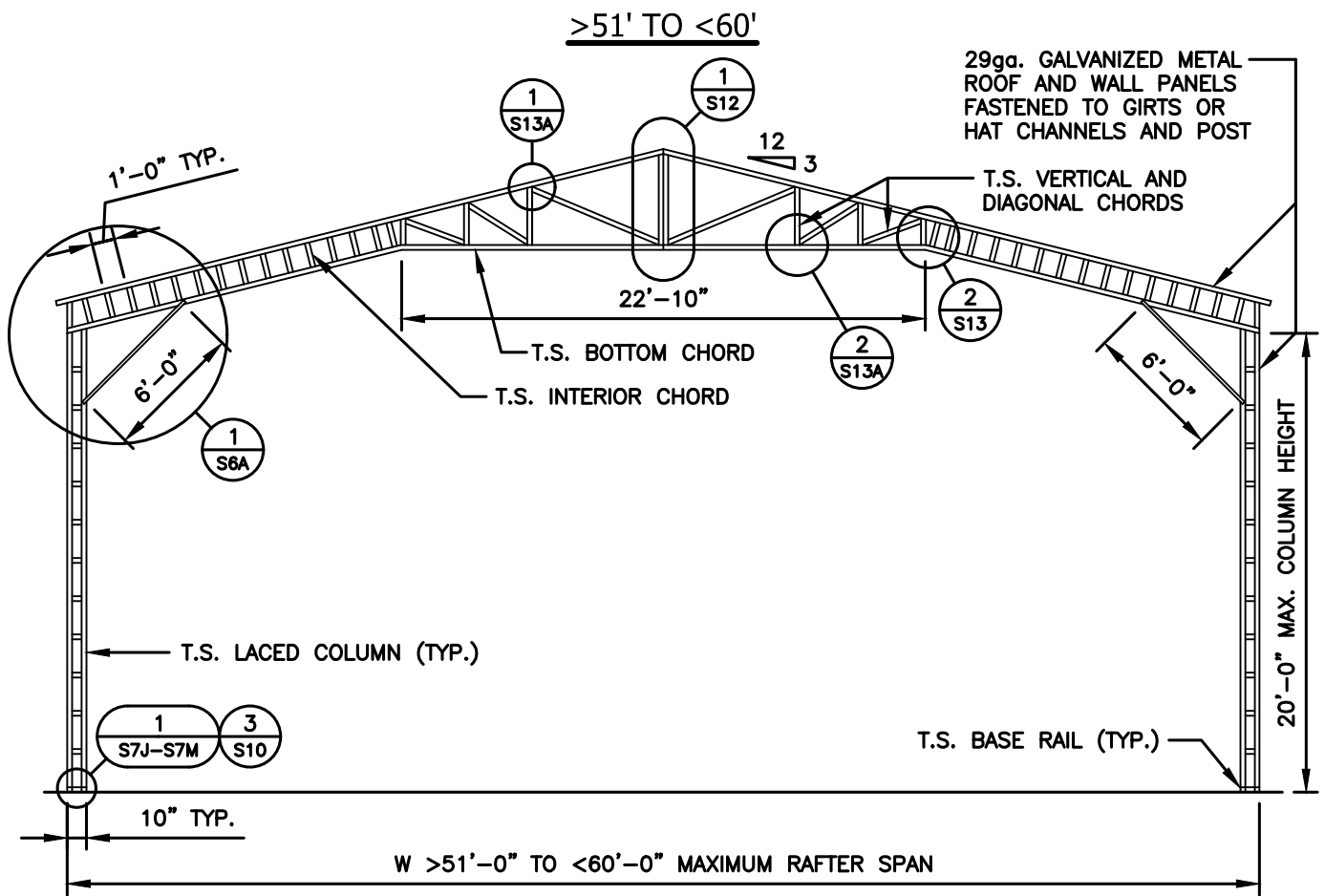
DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

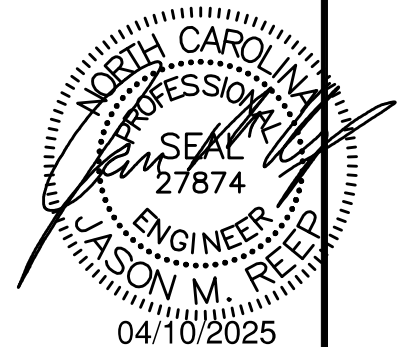
DATE:  
04/10/25

SHEET NO:  
**S5A**

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



TYPICAL RAFTER / COLUMN FRAME SECTION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

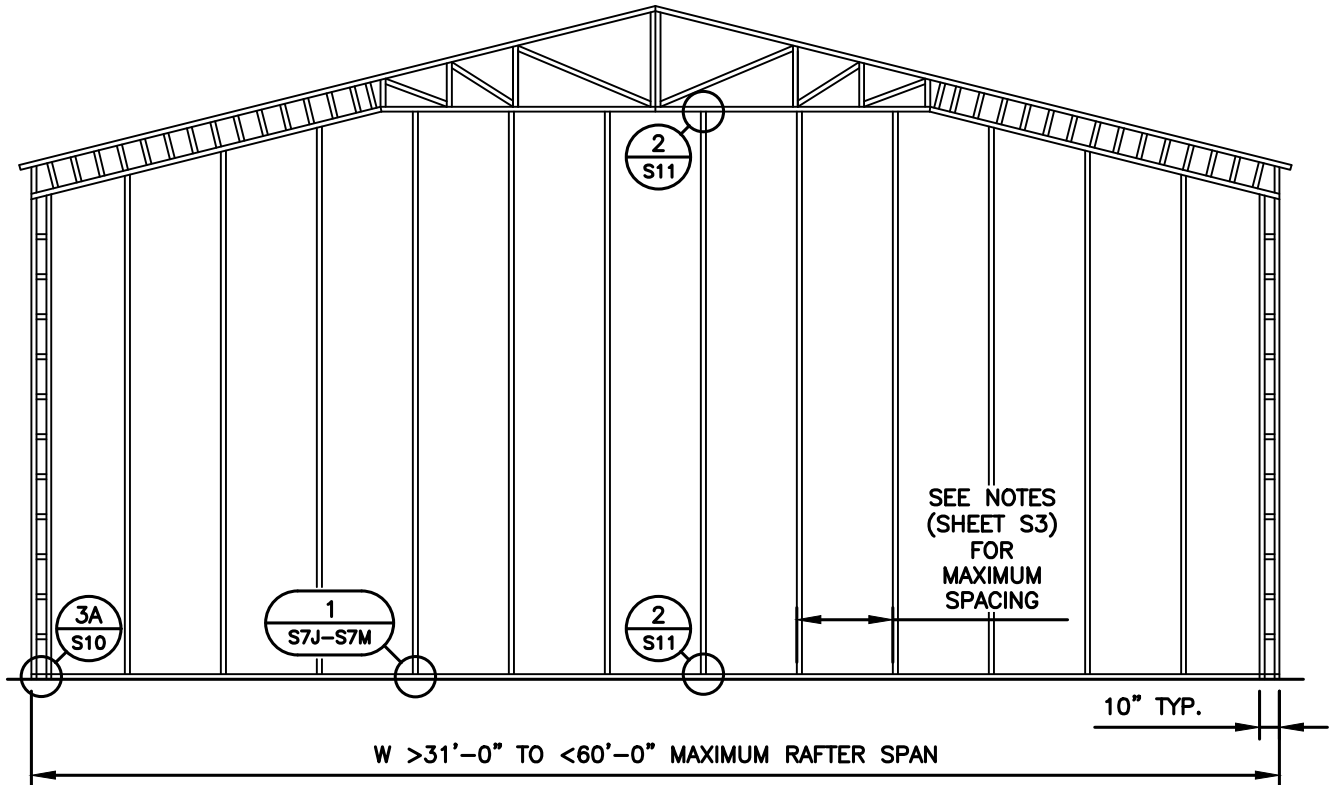
PROJECT NO:  
0725-0381

DATE:  
04/10/25

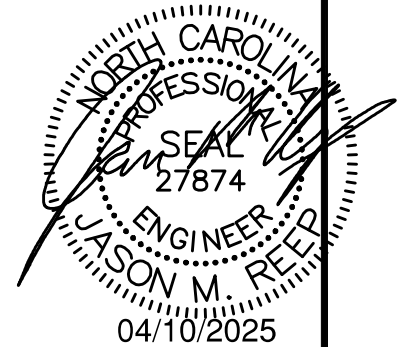
SHEET NO:  
**S5B**

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

## TYPICAL FRAME SECTIONS



TYPICAL RAFTER / COLUMN / END WALL FRAME SECTION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

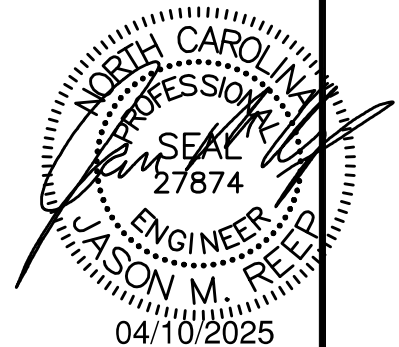
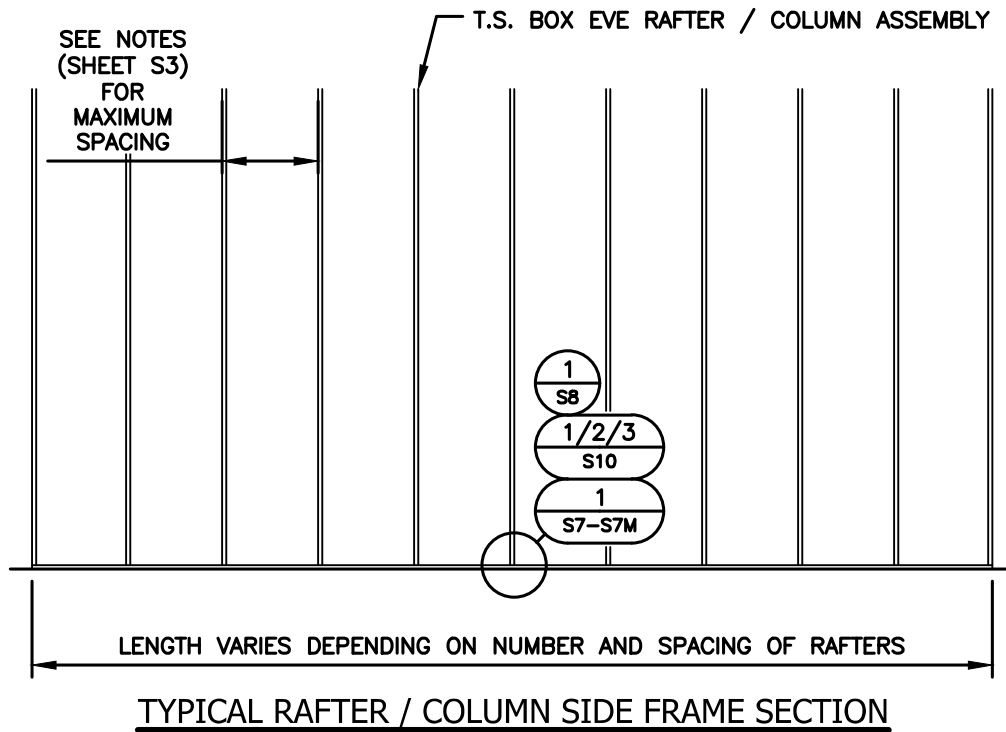
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S5C**

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

## TYPICAL FRAME SECTIONS



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S5D**

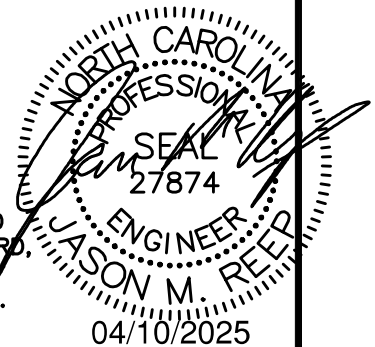
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

CONNECTOR SLEEVE  
TO BOTTOM CHORD /  
MISC. WELDS (TYP.)



S6

18ga. U-CHANNEL BRACE FASTENED  
TO THE COLUMN AND BOTTOM CHORD,  
WITH #12-14 x 3/4" S.D.F.'S AT  
EACH END AS SHOWN IN ELEVATION.



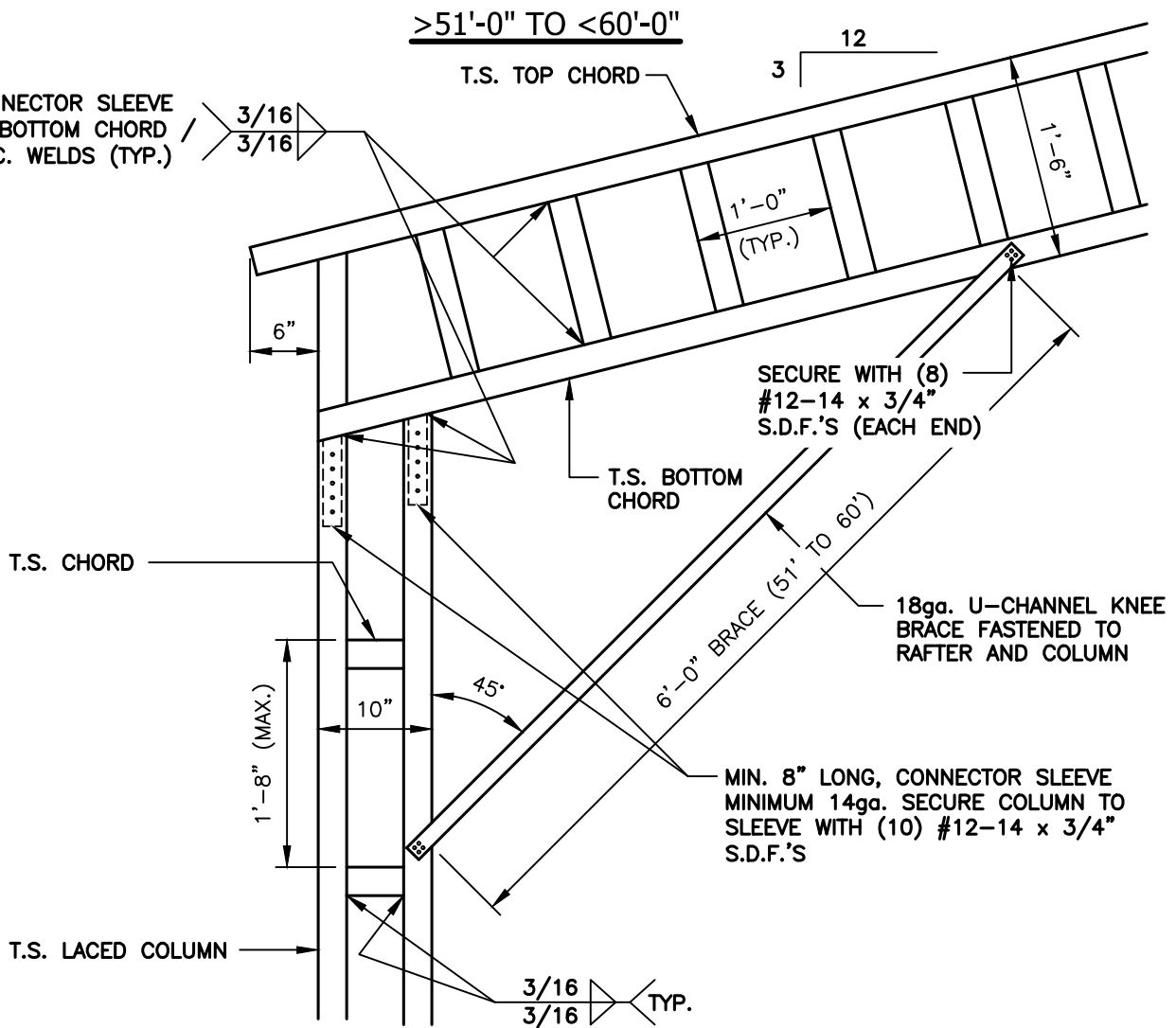
**JCMT**  
ASSOCIATES, PLLC

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

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

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

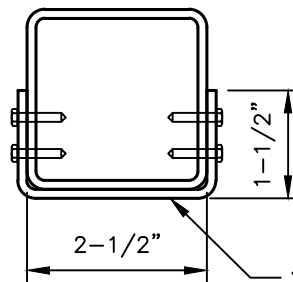
CONNECTOR SLEEVE  
TO BOTTOM CHORD /  
MISC. WELDS (TYP.)



BOX EAVE / CORNER POST CONNECTION DETAIL  
FOR HEIGHTS <20'-0"

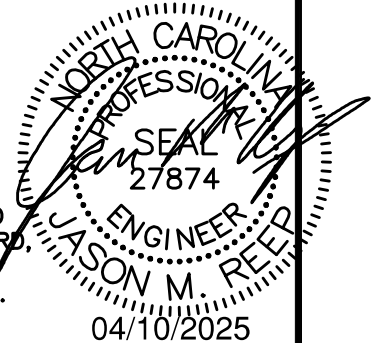
1  
S6A

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



BRACE  
SECTION

18ga. U-CHANNEL BRACE FASTENED  
TO THE COLUMN AND BOTTOM CHORD,  
WITH #12-14 x 3/4" S.D.F.'S AT  
EACH END AS SHOWN IN ELEVATION.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

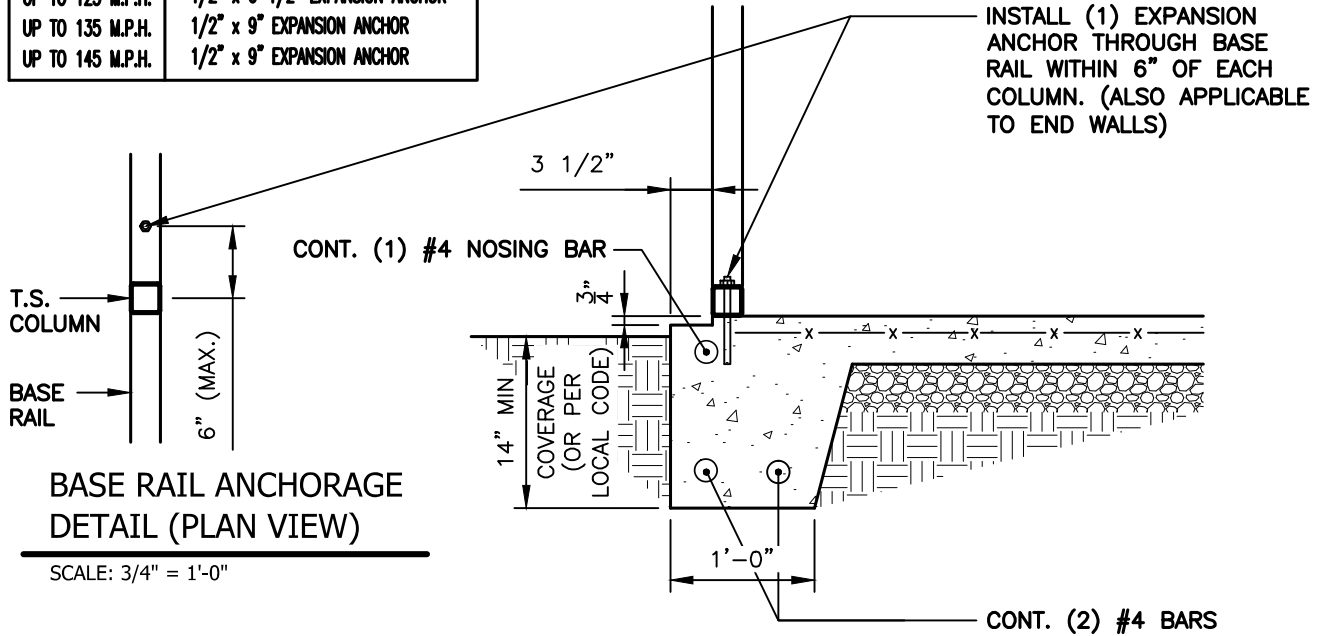
DATE:  
04/10/25

SHEET NO:  
**S6A**

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

## CONCRETE BASE RAIL ANCHORAGE (LEAN-TO'S ONLY)

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

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:

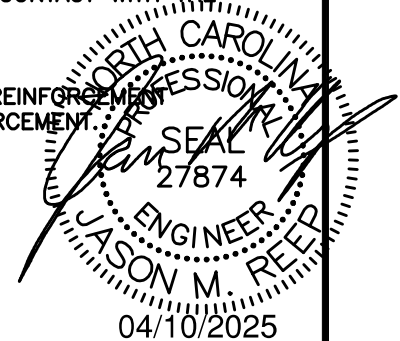
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:  
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE  
EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

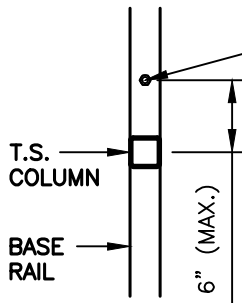
DATE:  
04/10/25

SHEET NO:  
**S7**

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

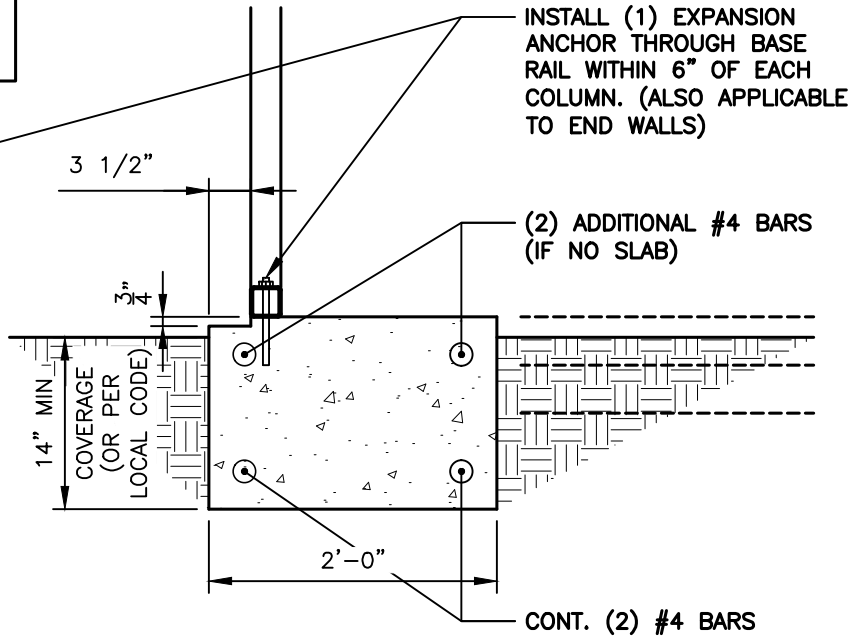
## CONCRETE BASE RAIL ANCHORAGE (NO SLAB / LEAN-TO'S ONLY)

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 (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:

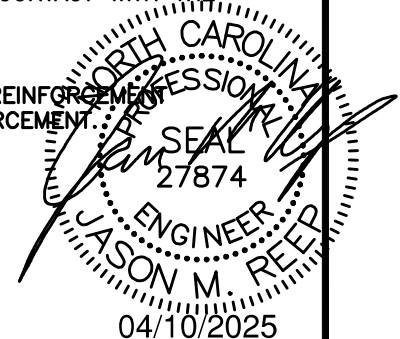
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

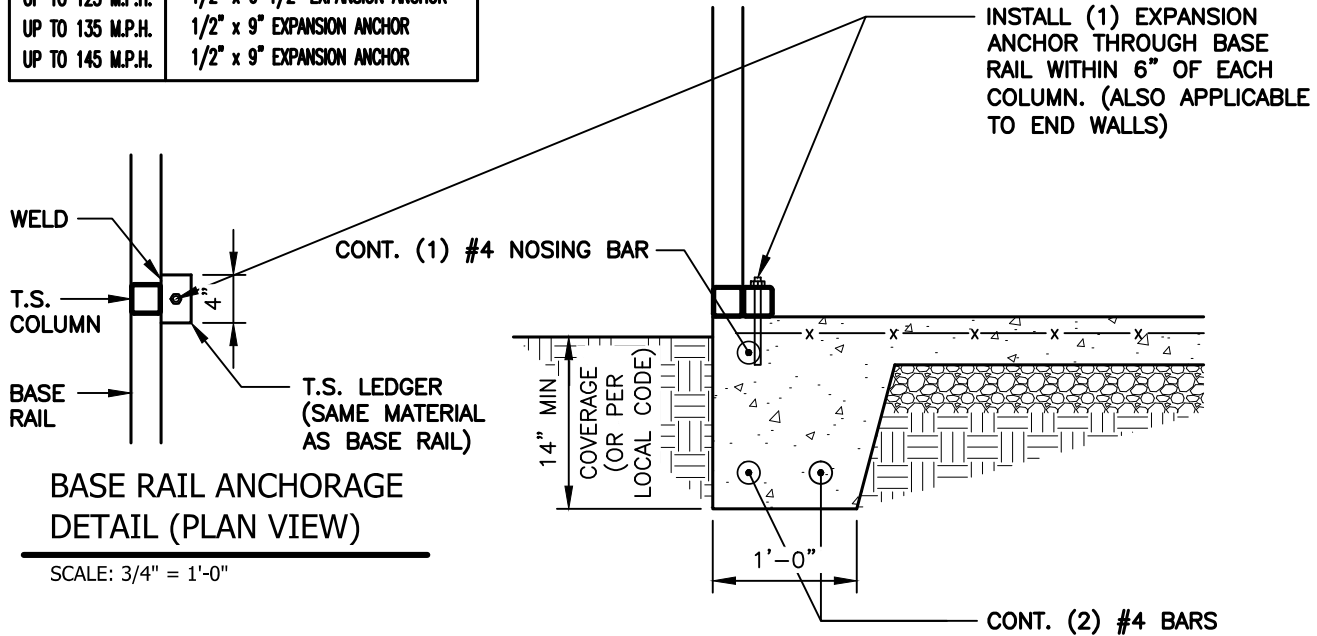
DATE:  
04/10/25

SHEET NO:  
**S7A**

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

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

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:

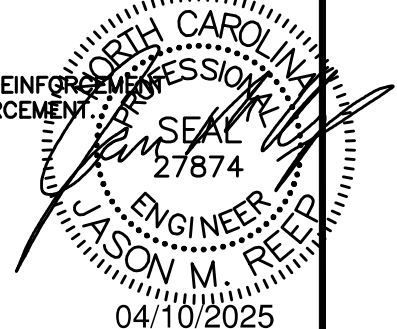
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:  
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE  
EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

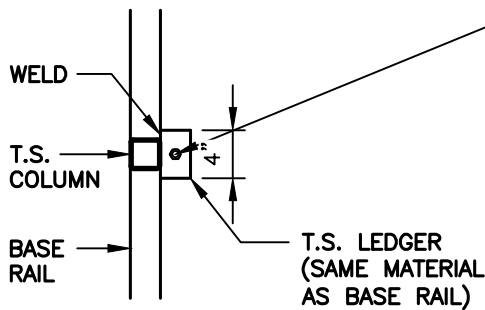
DATE:  
04/10/25

SHEET NO:  
**S7B**

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

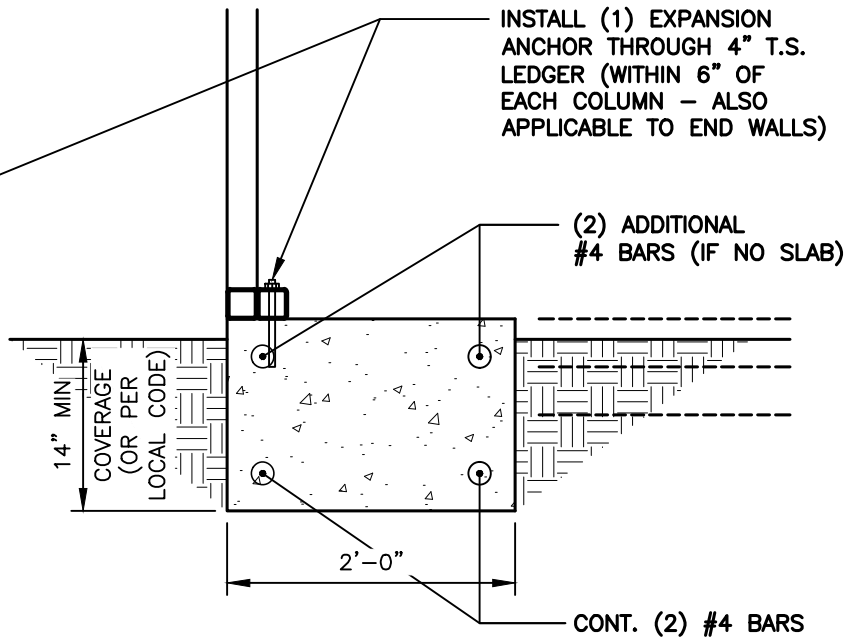
# CONCRETE BASE RAIL ANCHORAGE (NO LEDGE / NO SLAB / LEAN-TO'S ONLY)

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 (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:

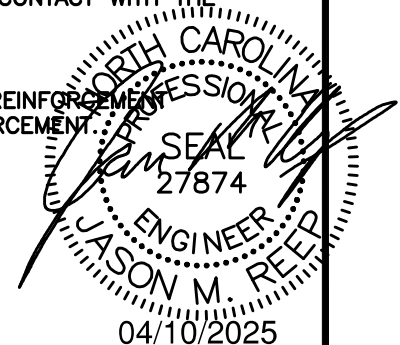
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

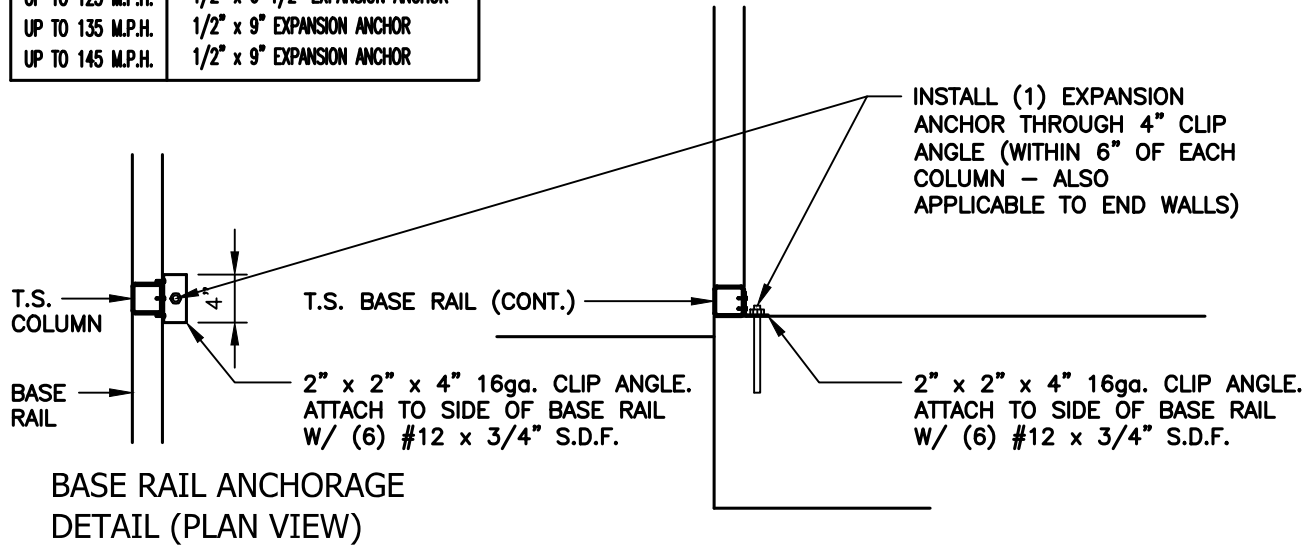
DATE:  
04/10/25

SHEET NO:  
**S7C**

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

# 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

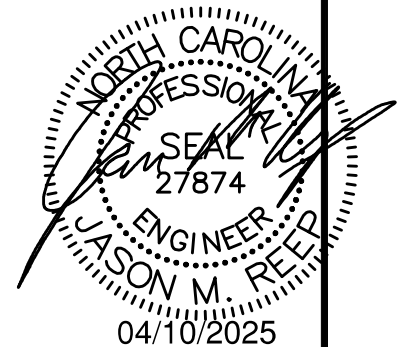


SCALE: 3/4" = 1'-0"

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



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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

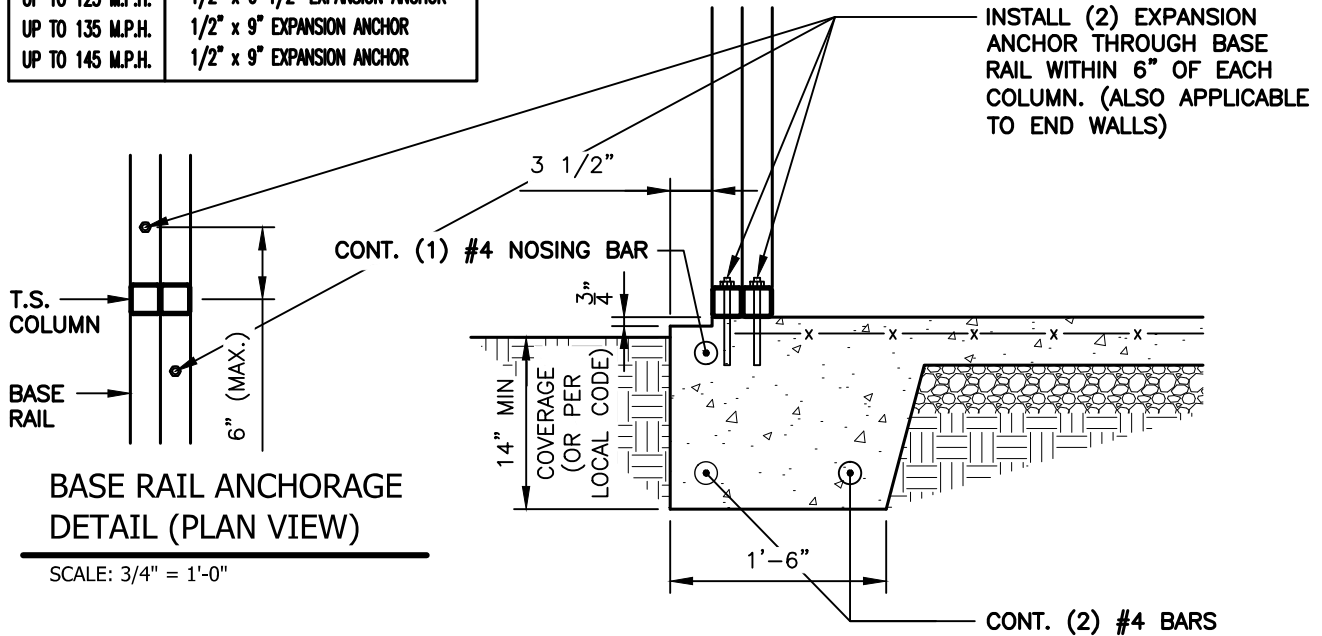
DATE:  
04/10/25

SHEET NO:  
**S7D**

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

## CONCRETE BASE RAIL ANCHORAGE (LEAN-TO ONLY)

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:

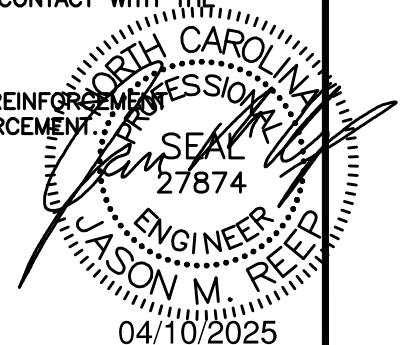
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

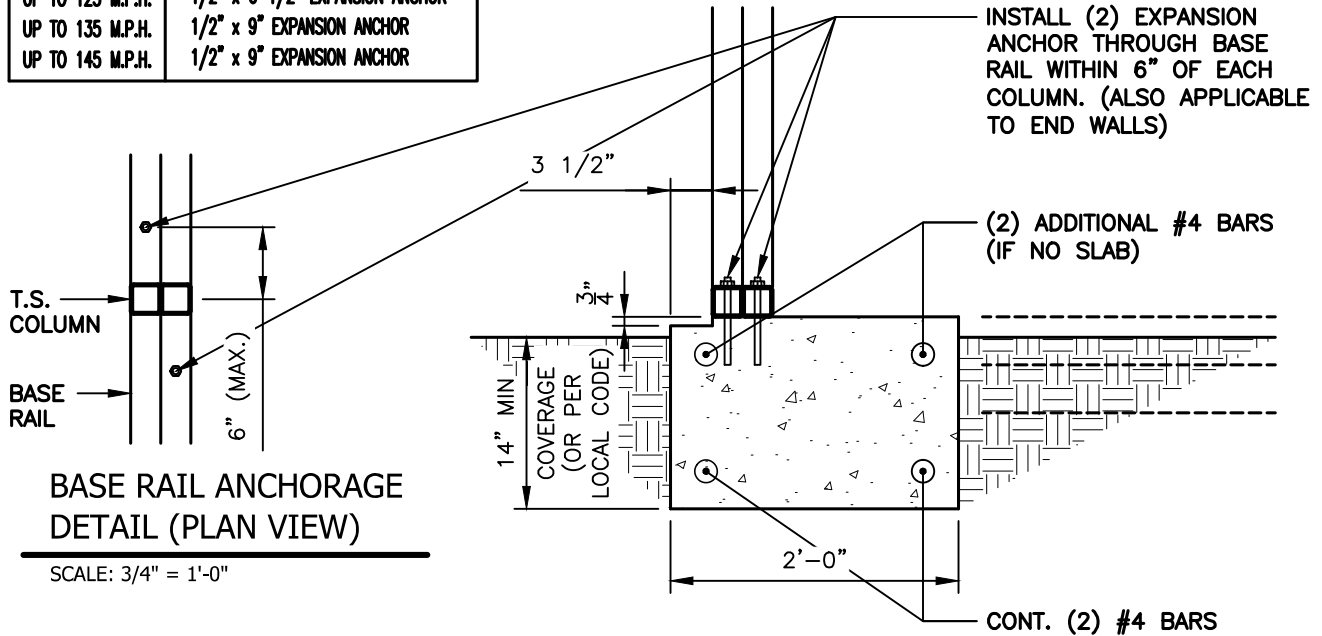
DATE:  
04/10/25

SHEET NO:  
**S7E**

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

## CONCRETE BASE RAIL ANCHORAGE (NO SLAB - LEAN-TO ONLY)

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 (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:

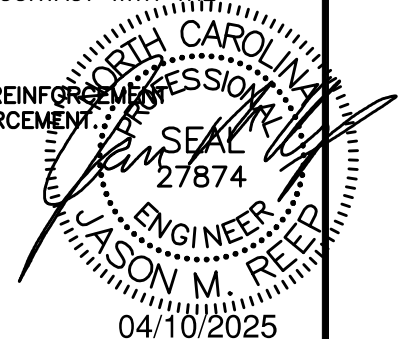
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

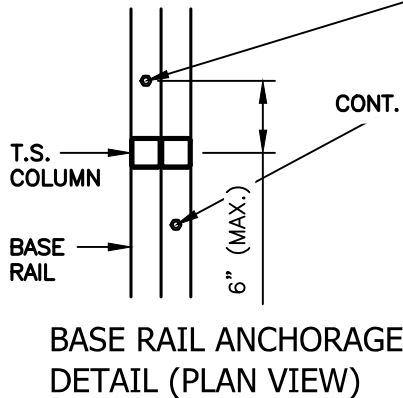
DATE:  
04/10/25

SHEET NO:  
**S7F**

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

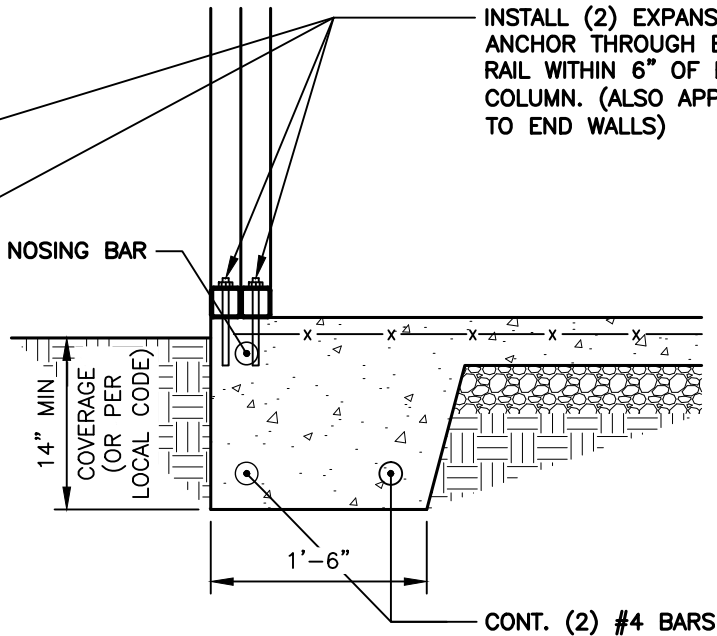
## CONCRETE BASE RAIL ANCHORAGE (NO LEDGE - LEAN-TO ONLY)

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



### 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:

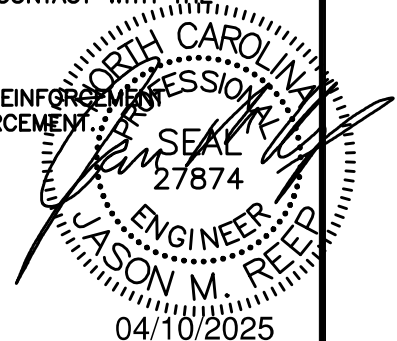
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

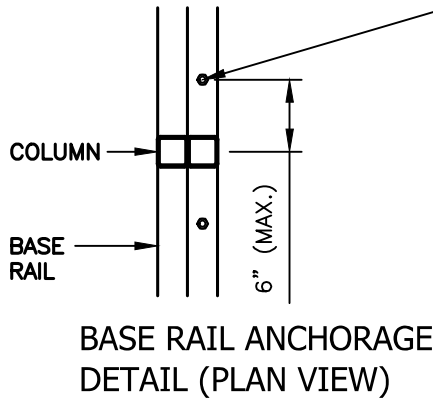
DATE:  
04/10/25

SHEET NO:  
**S7G**

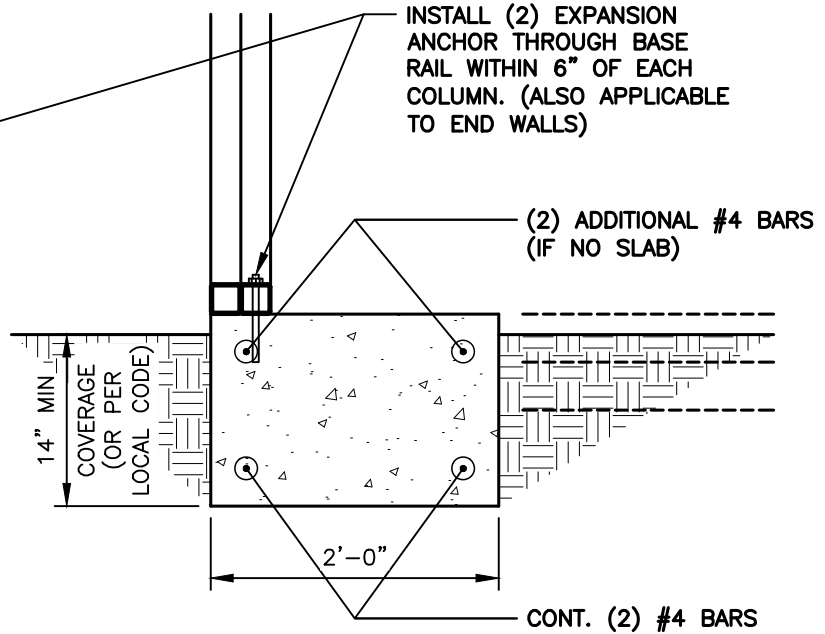
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

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

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"



## 1 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:

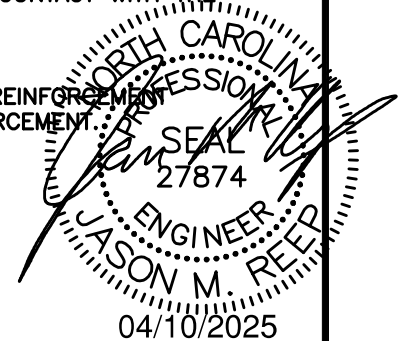
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

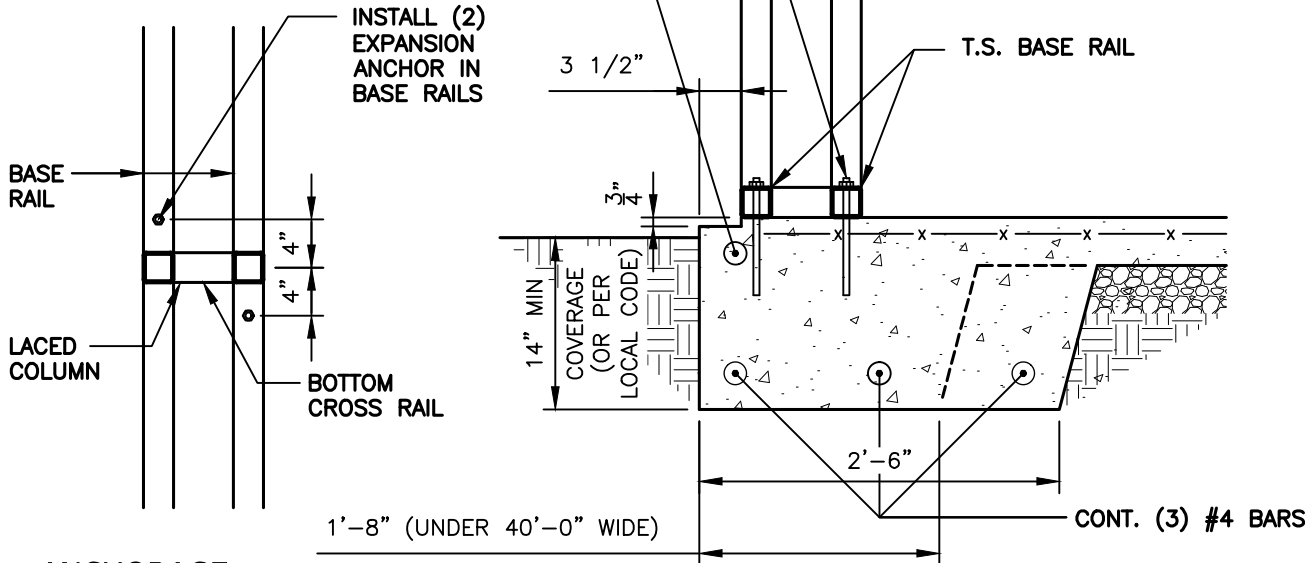
DATE:  
04/10/25

SHEET NO:  
**S7H**

NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER 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



**ANCHORAGE  
DETAIL (PLAN VIEW)**

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



**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:

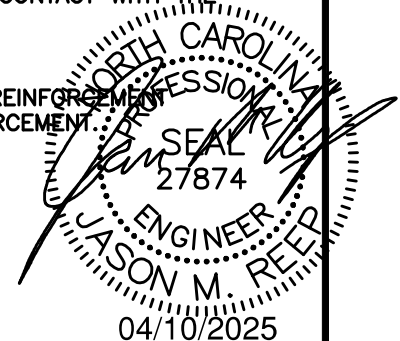
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

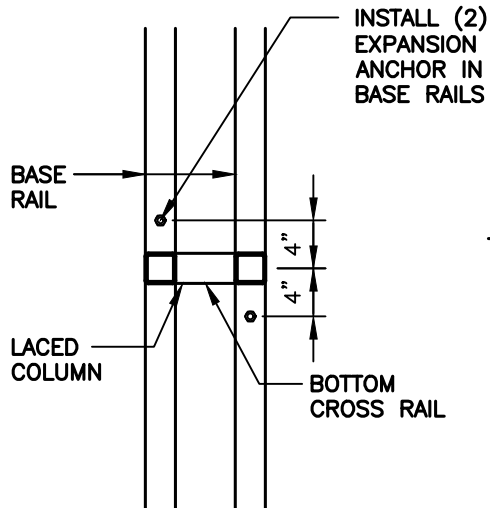
DATE:  
04/10/25

SHEET NO:  
**S7J**

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

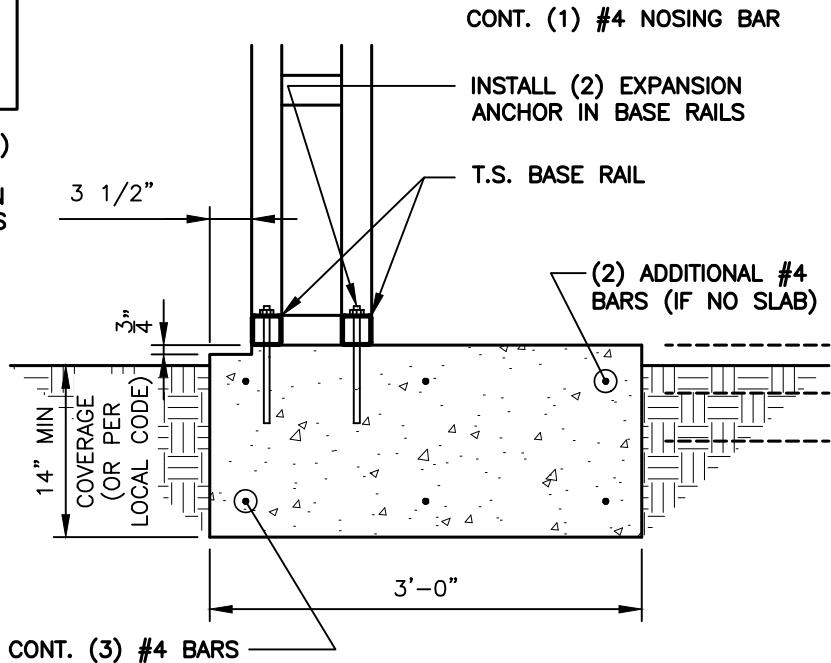
## CONCRETE BASE RAIL ANCHORAGE (NO SLAB)

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



### ANCHORAGE DETAIL (PLAN VIEW)

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



### 1 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:

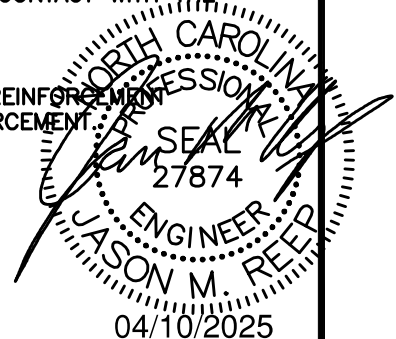
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

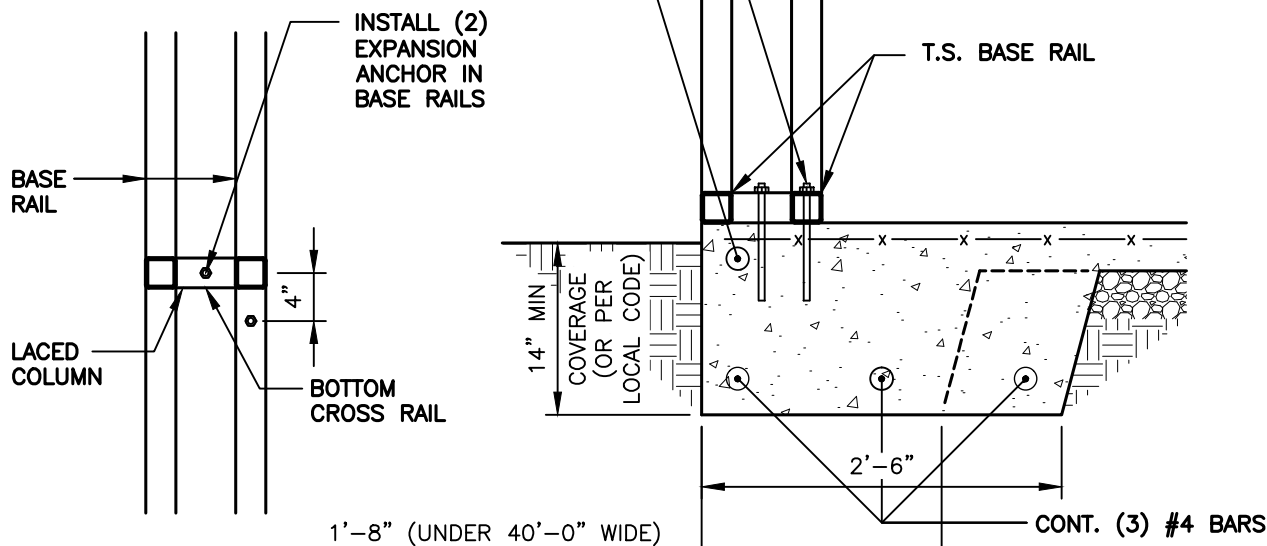
DATE:  
04/10/25

SHEET NO:  
**S7K**

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

## 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



**ANCHORAGE  
DETAIL (PLAN VIEW)**

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



**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:

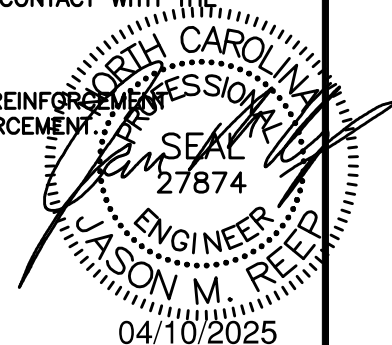
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

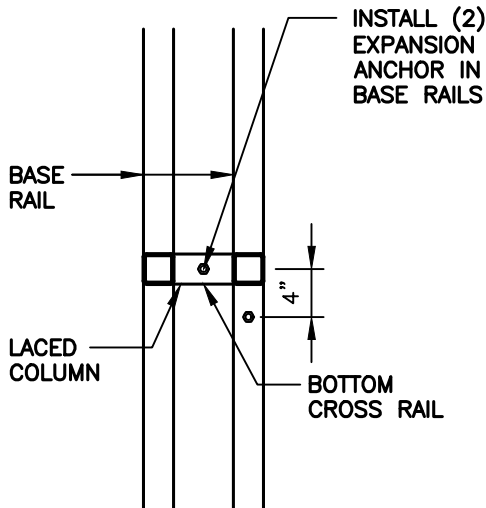
DATE:  
04/10/25

SHEET NO:  
**S7L**

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

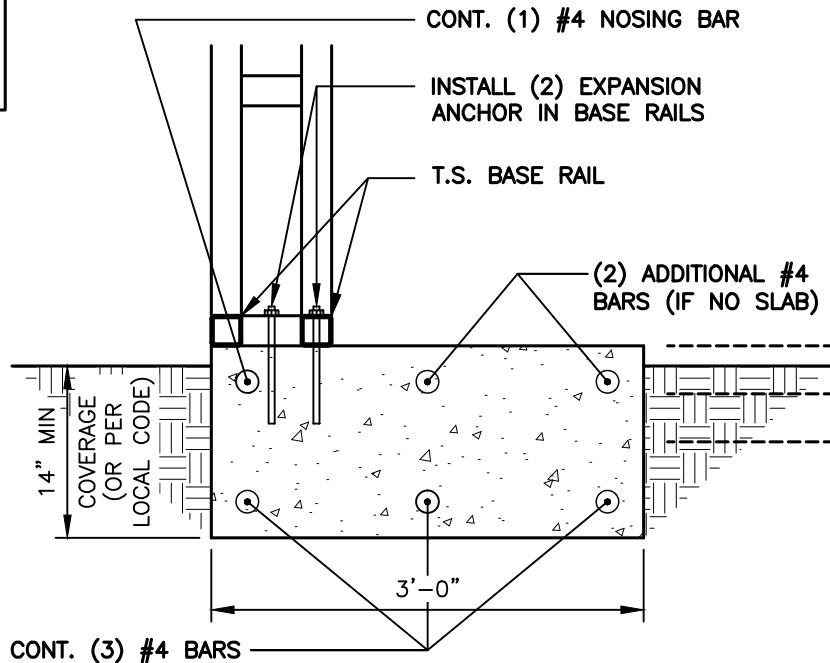
## CONCRETE BASE RAIL ANCHORAGE (NO LEDGE / NO SLAB)

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



### ANCHORAGE DETAIL (PLAN VIEW)

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



### 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:

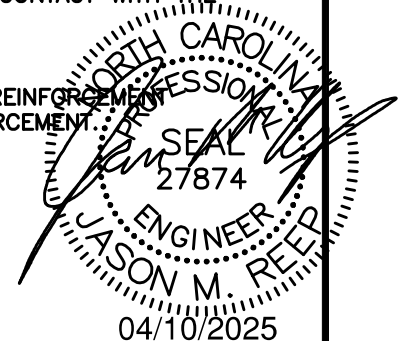
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### 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.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

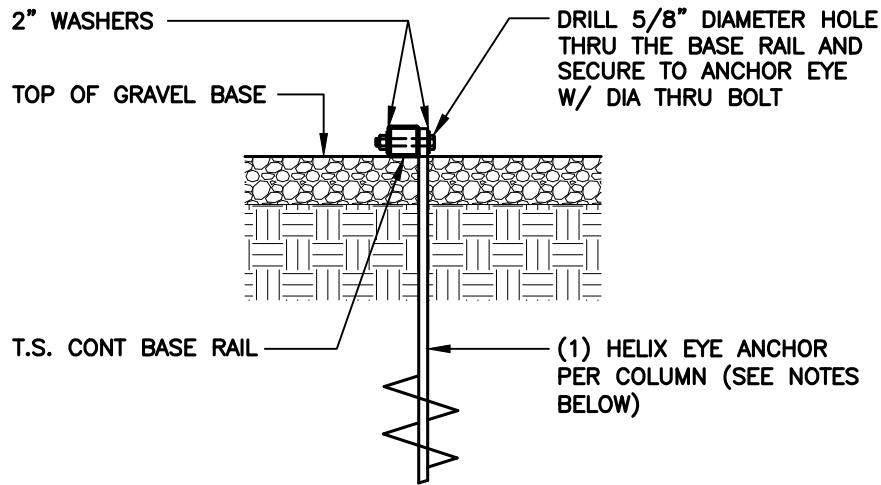
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S7M**

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

## 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 SILT.S. 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.

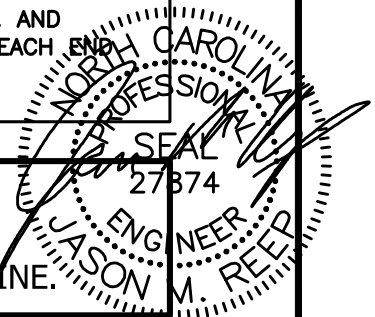
FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT.S., AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILT.S., 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 SILT.S. 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.



04/10/2025

**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

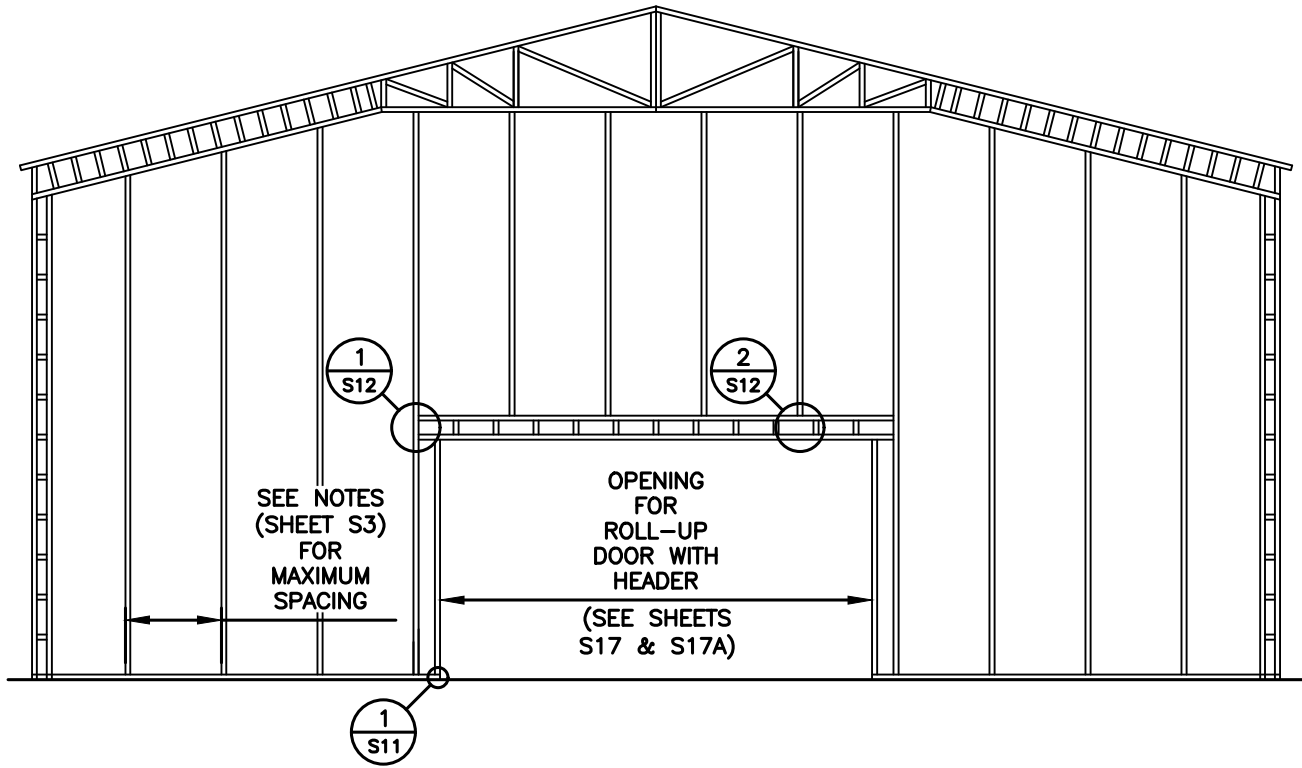
PROJECT NO:  
0725-0381

DATE:  
04/10/25

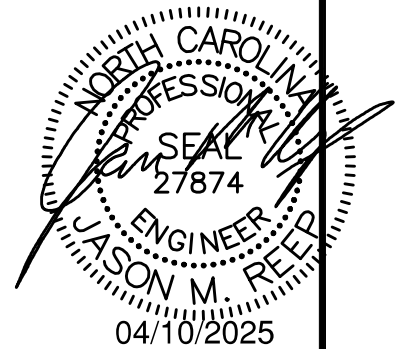
SHEET NO:  
**S8**

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

## TYPICAL END WALL FRAMING SECTION



## TYPICAL END WALL OPENING FRAMING



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

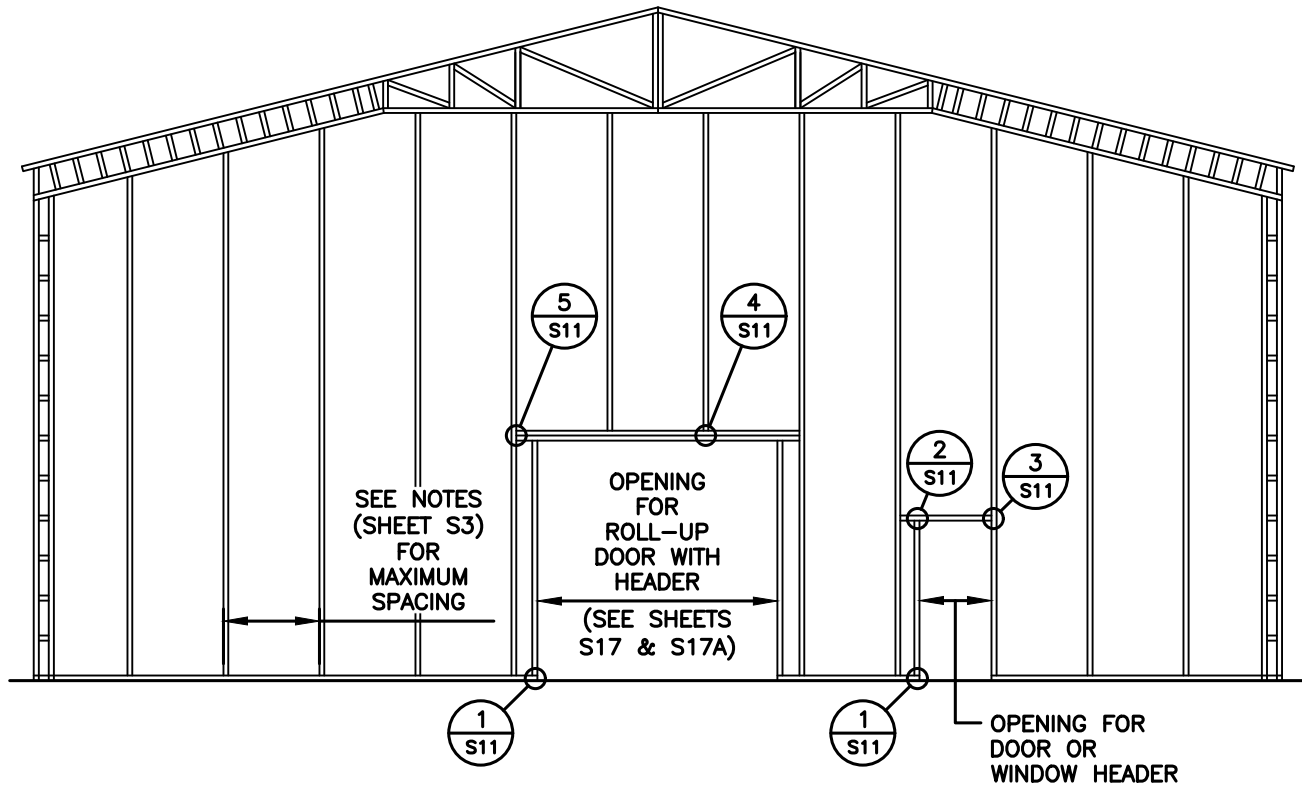
PROJECT NO:  
0725-0381

DATE:  
04/10/25

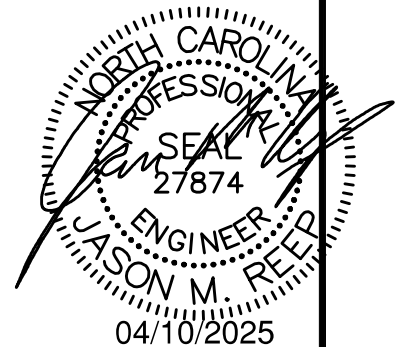
SHEET NO:  
**S9**

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

TYPICAL END WALL OPENING FRAMING SECTION



TYPICAL END WALL OPENING FRAMING



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

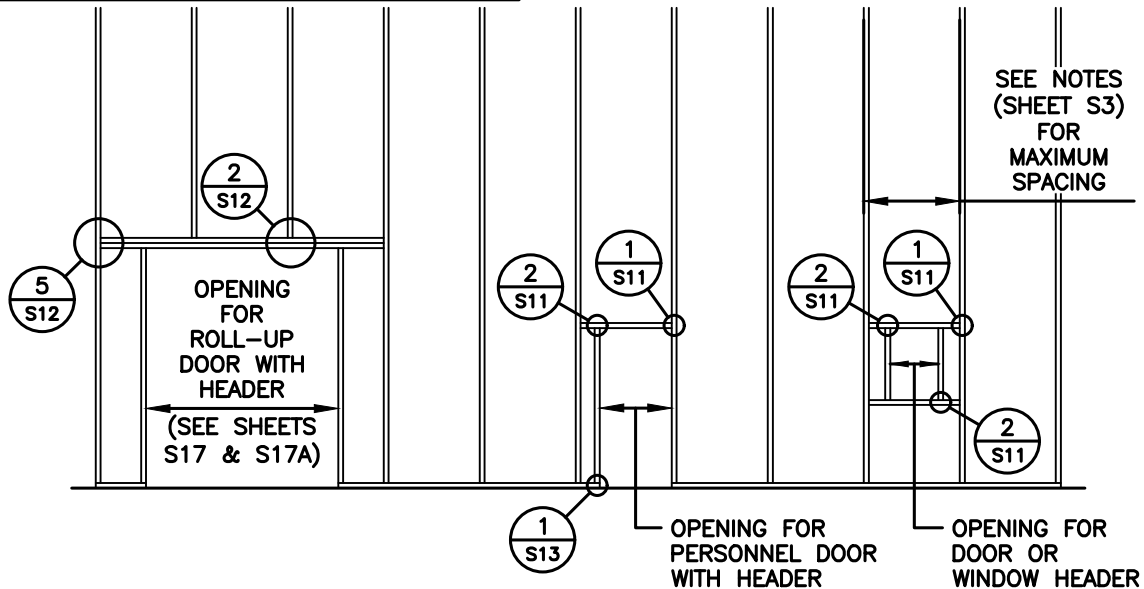
DATE:  
04/10/25

SHEET NO:  
**S9A**

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

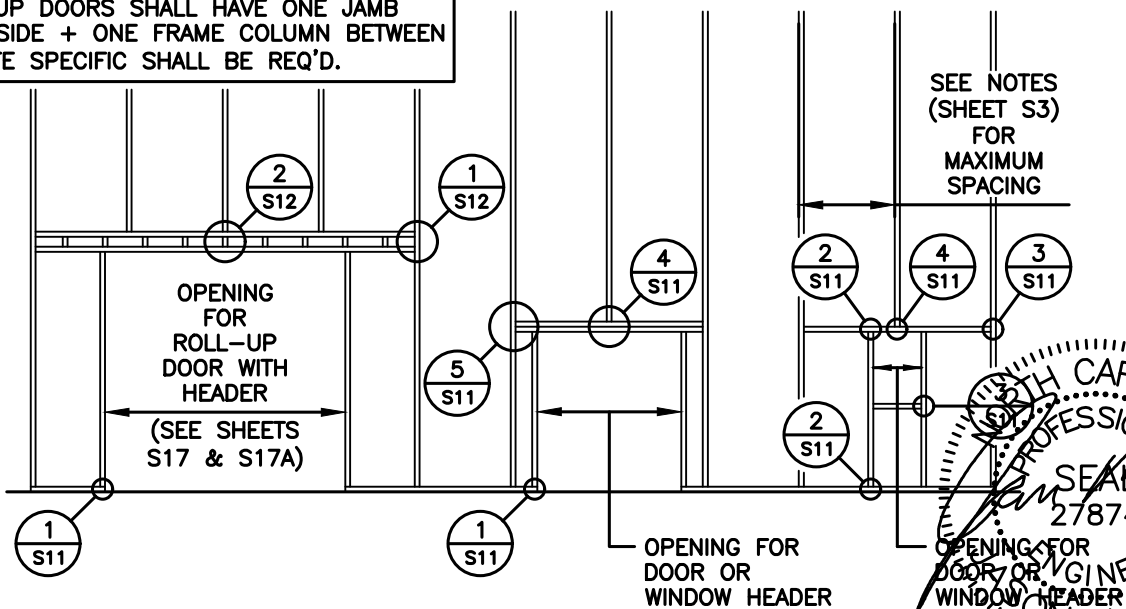
## BOX EAVE RAFTER / SIDE WALL OPENINGS FRAMING

**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

**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

04/10/2025

**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

**DRAWN BY:**  
BKS

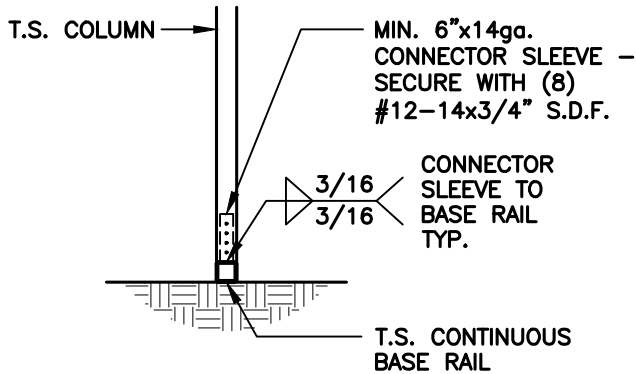
**PROJECT NO:**  
0725-0381

**DATE:**  
04/10/25

**SHEET NO:**  
**S9B**

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

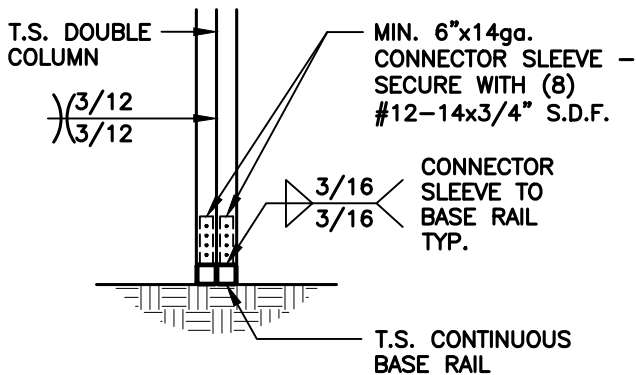
## BASE RAIL CONNECTION DETAILS



COLUMN / BASE RAIL  
CONNECTION DETAIL

1  
S10

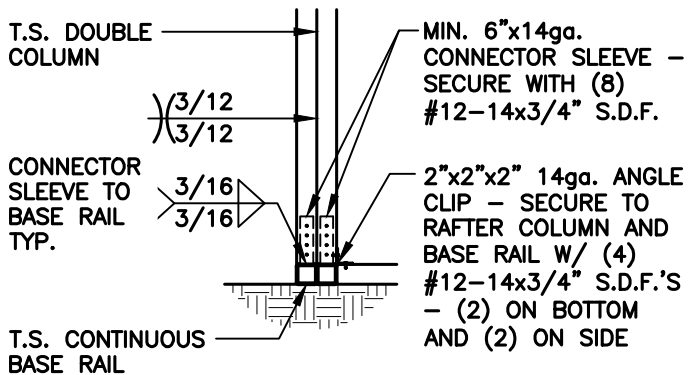
SCALE: 1/2" = 1'-0"



COLUMN / BASE RAIL  
CONNECTION DETAIL

2  
S10

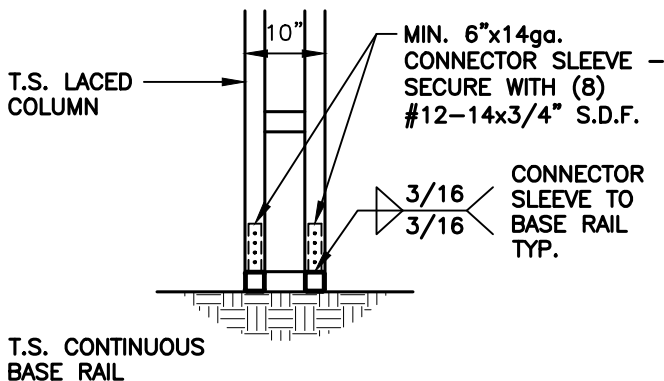
SCALE: 1/2" = 1'-0"



END COLUMN / BASE RAIL  
CONNECTION DETAIL

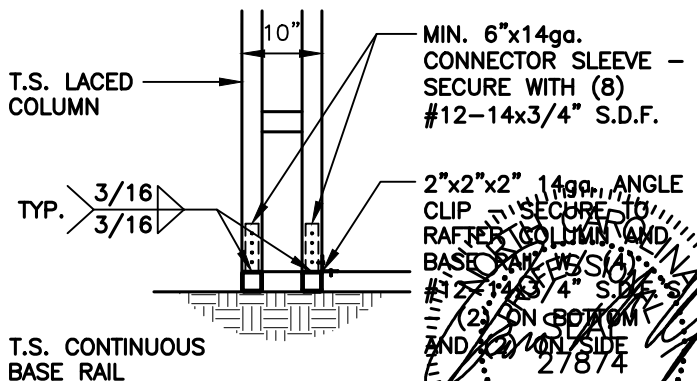
2A  
S10

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



COLUMN / BASE RAIL  
CONNECTION DETAIL

3  
S10



END COLUMN / BASE RAIL  
CONNECTION DETAIL

3A  
S10

04/10/2025

**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

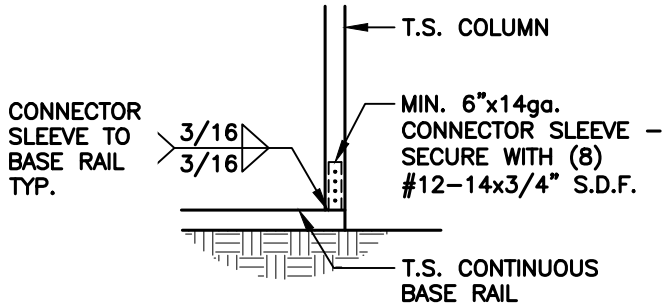
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S10**

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

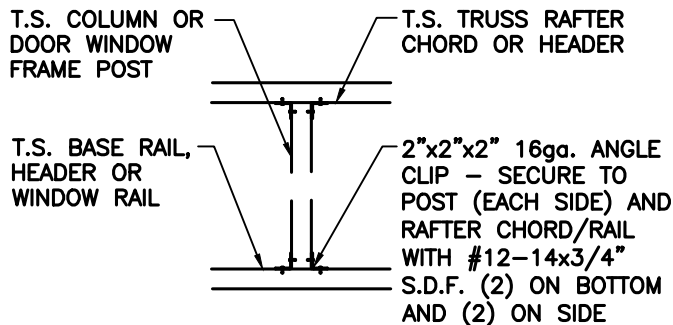
## T.S. OPENING CONNECTION DETAILS



**COLUMN / BASE RAIL  
CONNECTION DETAIL**

**1**  
**S11**

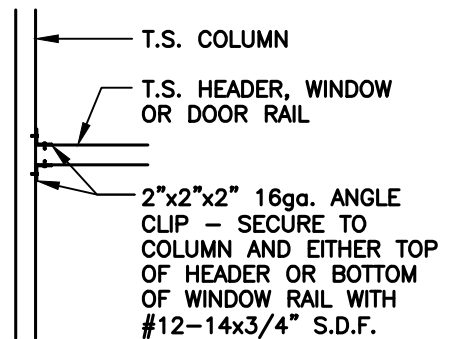
SCALE: 1/2" = 1'-0"



**TRUSS / HEADER TO POST  
CONNECTION DETAIL**

**2**  
**S11**

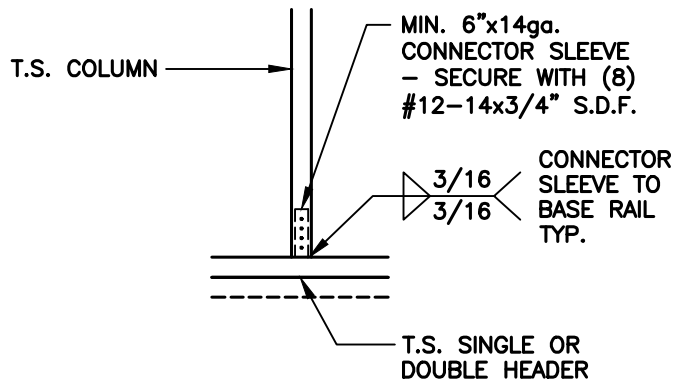
SCALE: 1/2" = 1'-0"



**HEADER / WINDOW OR DOOR RAIL  
TO POST CONNECTION DETAIL**

**3**  
**S11**

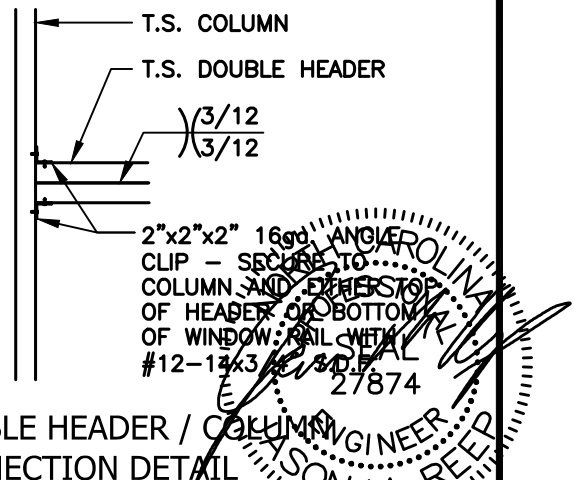
SCALE: 1/2" = 1'-0"



**COLUMN / DOUBLE HEADER  
CONNECTION DETAIL**

**4**  
**S11**

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



**DOUBLE HEADER / COLUMN  
CONNECTION DETAIL**

**5**  
**S11**

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

04/10/2025

**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

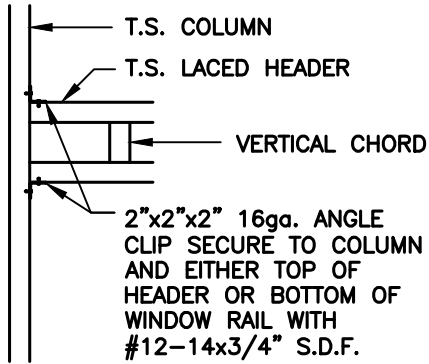
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S11**

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

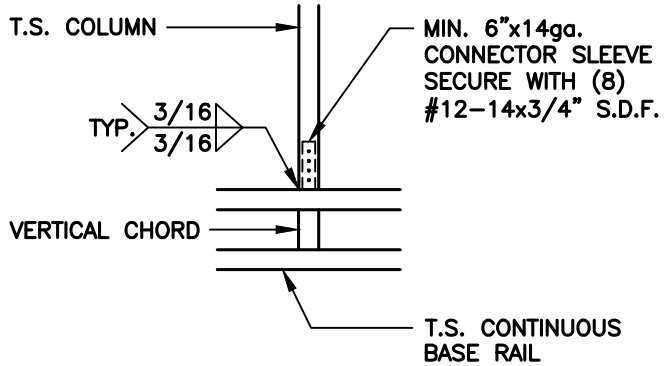
## T.S. OPENING CONNECTION DETAILS



**1**  
**COLUMN / LACED HEADER**  
**CONNECTION DETAIL**

**S12**

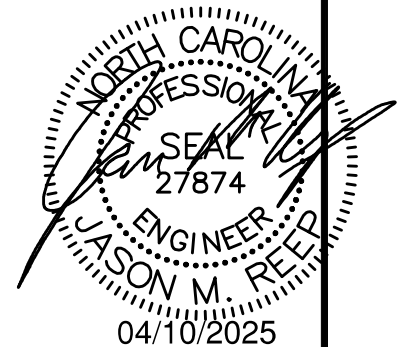
SCALE: 1/2" = 1'-0"



**2**  
**LACED HEADER / COLUMN**  
**CONNECTION DETAIL**

**S12**

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

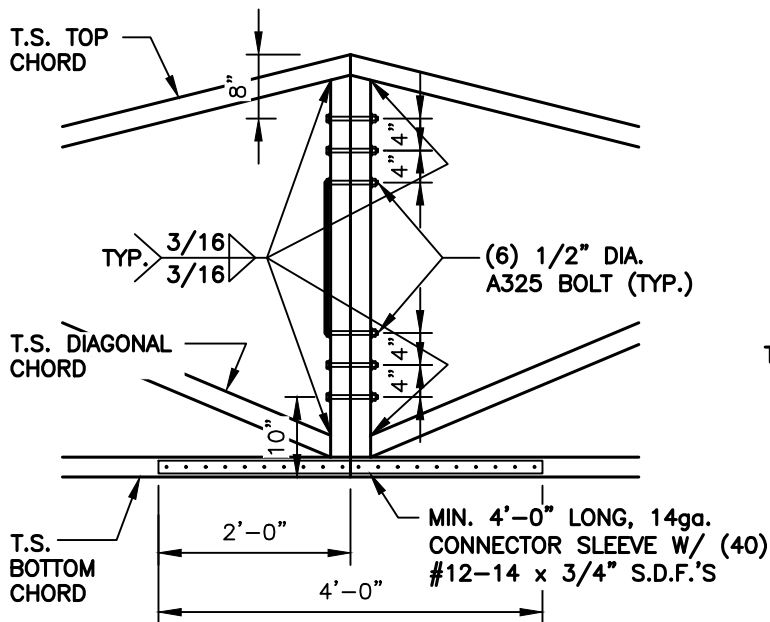
DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

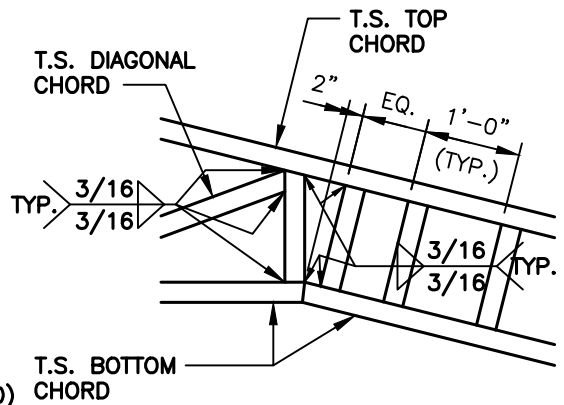
DATE:  
04/10/25

SHEET NO:  
**S12**

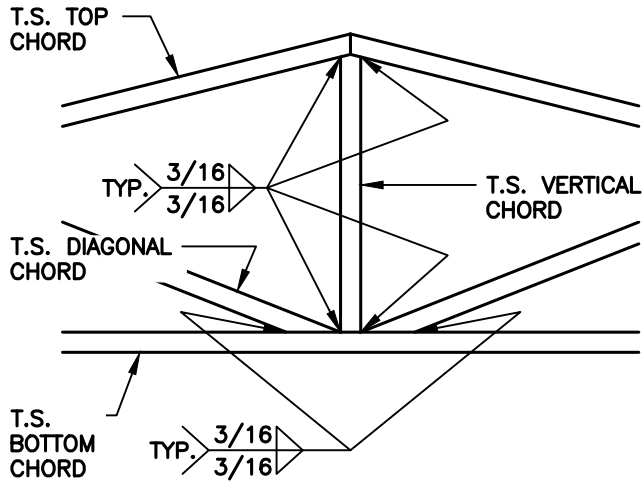
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



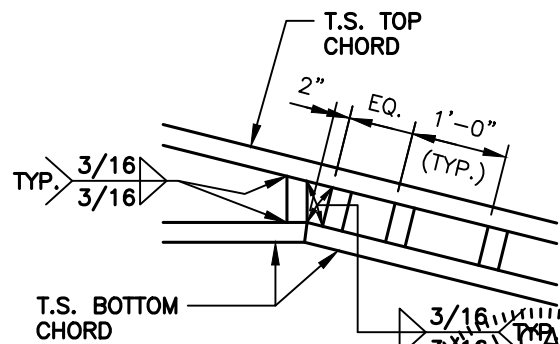
**1** SPLICE CONNECTION DETAIL  
S13 SCALE: 1/2" = 1'-0"



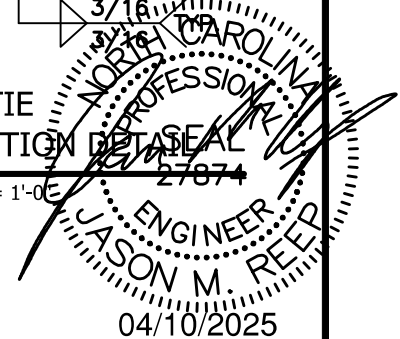
**2** TRUSS TIE CONNECTION DETAIL  
S13 SCALE: 1/2" = 1'-0"



**3** CONNECTION DETAIL  
S13 SCALE: 1/2" = 1'-0"



**4** TRUSS TIE CONNECTION DETAIL  
S13 SCALE: 1/2" = 1'-0"



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

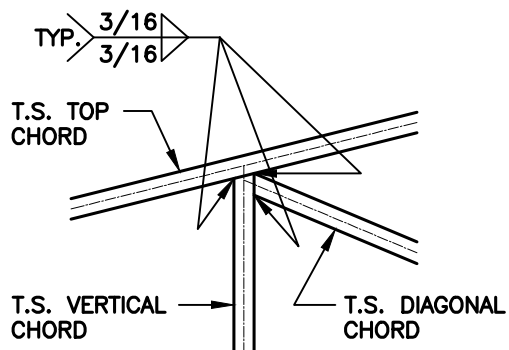
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S13**

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

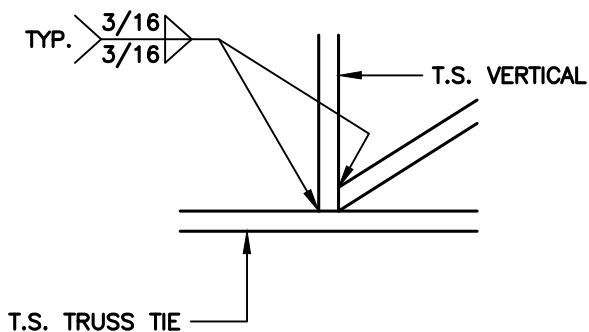
## CONNECTION DETAILS



**TRUSS TIE  
CONNECTION DETAIL**

1  
S13A

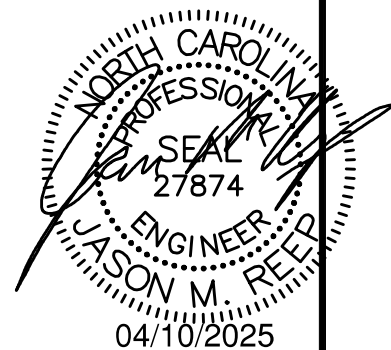
SCALE: 1/2" = 1'-0"



**TRUSS TIE / TRUSS  
CONNECTION DETAIL**

2  
S13A

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

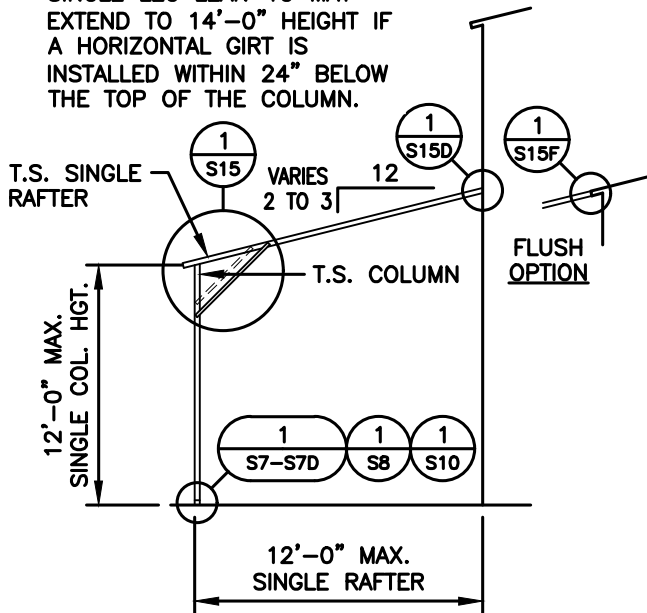
DATE:  
04/10/25

SHEET NO:  
**S13A**

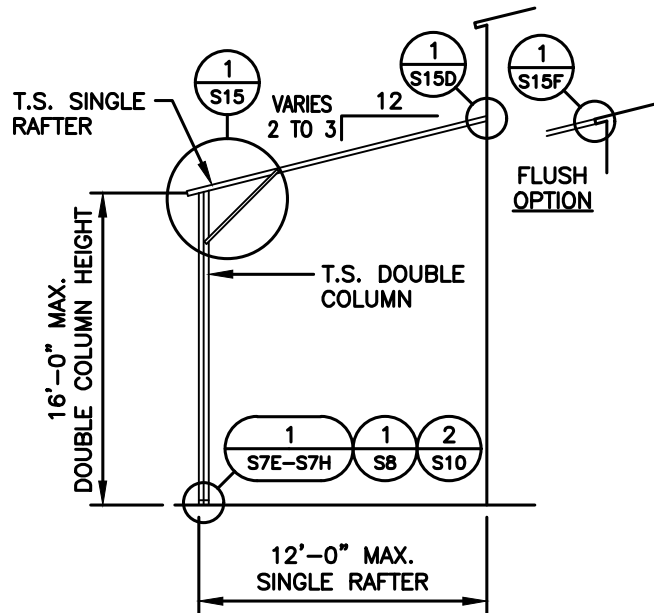
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

## BOX EVE RAFTER / SINGLE & DOUBLE RAFTER - LEAN-TO OPTIONS

NOTE:  
SINGLE LEG LEAN-TO MAY  
EXTEND TO 14'-0" HEIGHT IF  
A HORIZONTAL GIRT IS  
INSTALLED WITHIN 24" BELOW  
THE TOP OF THE COLUMN.

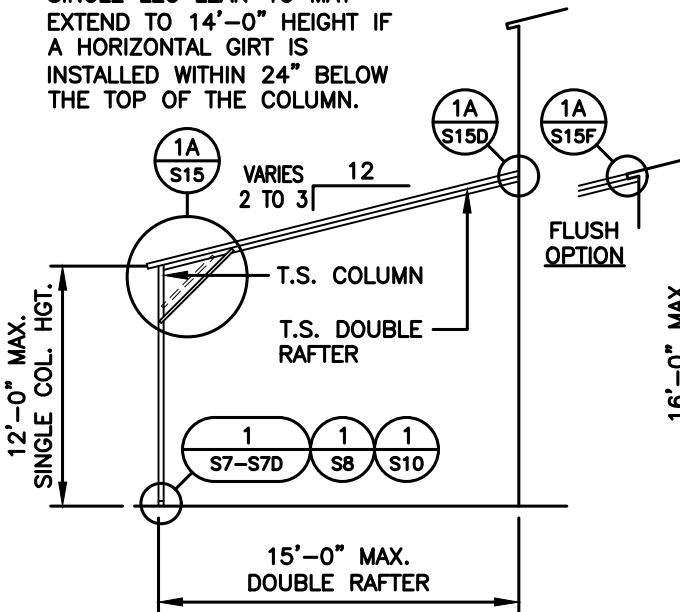


SINGLE RAFTER / SINGLE COLUMN  
LEAN-TO FRAMING SECTION

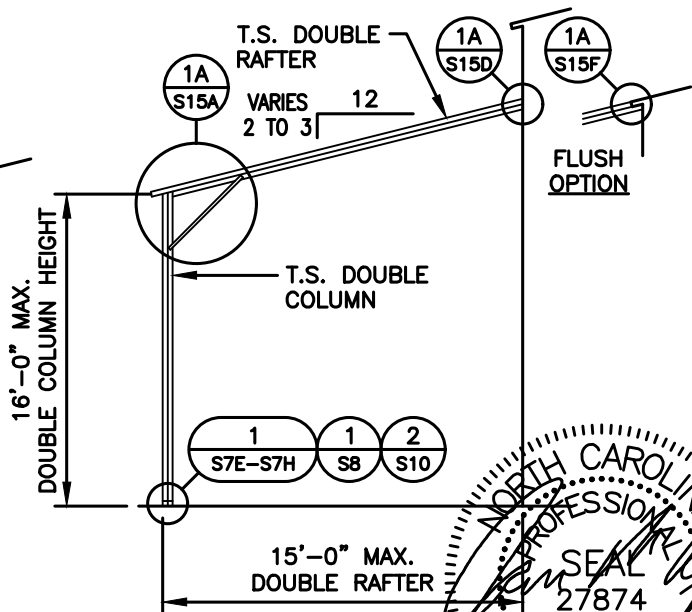


SINGLE RAFTER / DOUBLE COLUMN  
LEAN-TO FRAMING SECTION

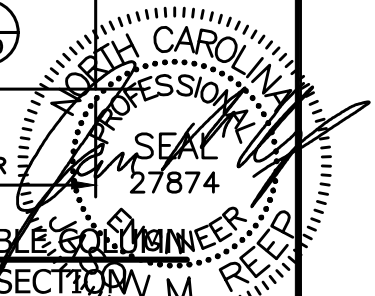
NOTE:  
SINGLE LEG LEAN-TO MAY  
EXTEND TO 14'-0" HEIGHT IF  
A HORIZONTAL GIRT IS  
INSTALLED WITHIN 24" BELOW  
THE TOP OF THE COLUMN.



DOUBLE RAFTER / SINGLE COLUMN  
LEAN-TO FRAMING SECTION



DOUBLE RAFTER / DOUBLE COLUMN  
LEAN-TO FRAMING SECTION



04/10/2025

**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

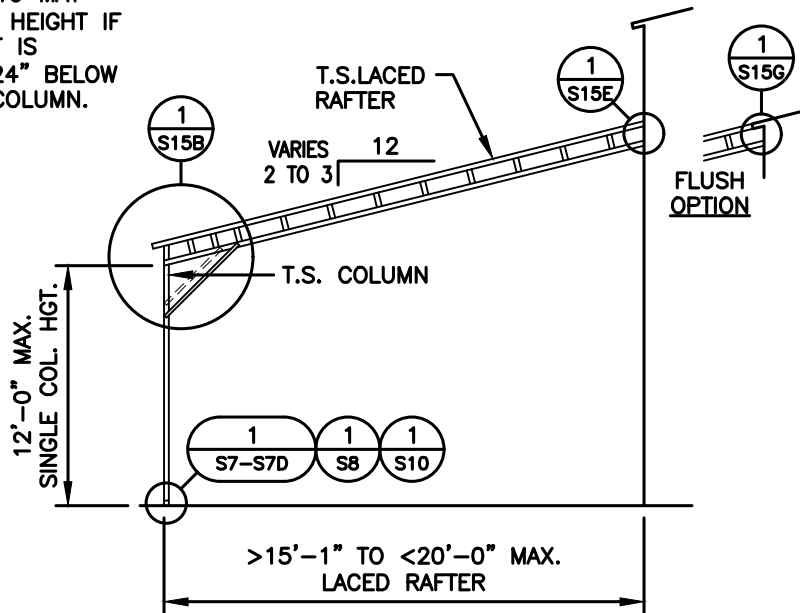
DATE:  
04/10/25

SHEET NO:  
**S14**

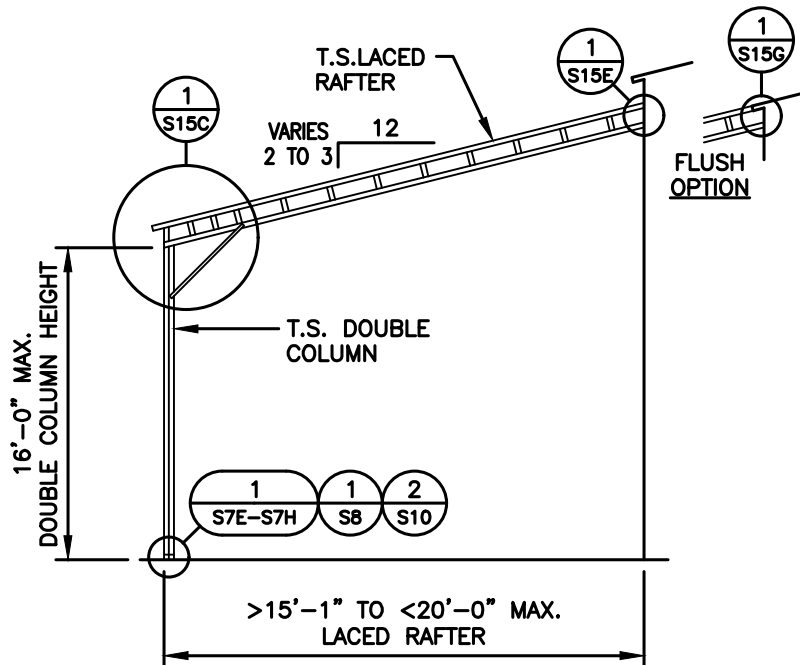
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

## BOX EVE RAFTER / LACED RAFTER - LEAN-TO OPTIONS

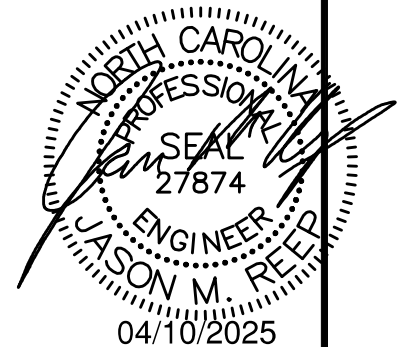
NOTE:  
SINGLE LEG LEAN-TO MAY  
EXTEND TO 14'-0" HEIGHT IF  
A HORIZONTAL GIRT IS  
INSTALLED WITHIN 24" BELOW  
THE TOP OF THE COLUMN.



LACED RAFTER / SINGLE COLUMN  
LEAN-TO FRAMING SECTION



LACED RAFTER / DOUBLE COLUMN  
LEAN-TO FRAMING SECTION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

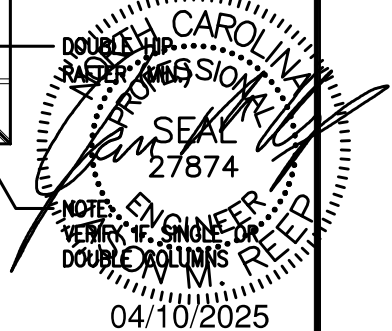
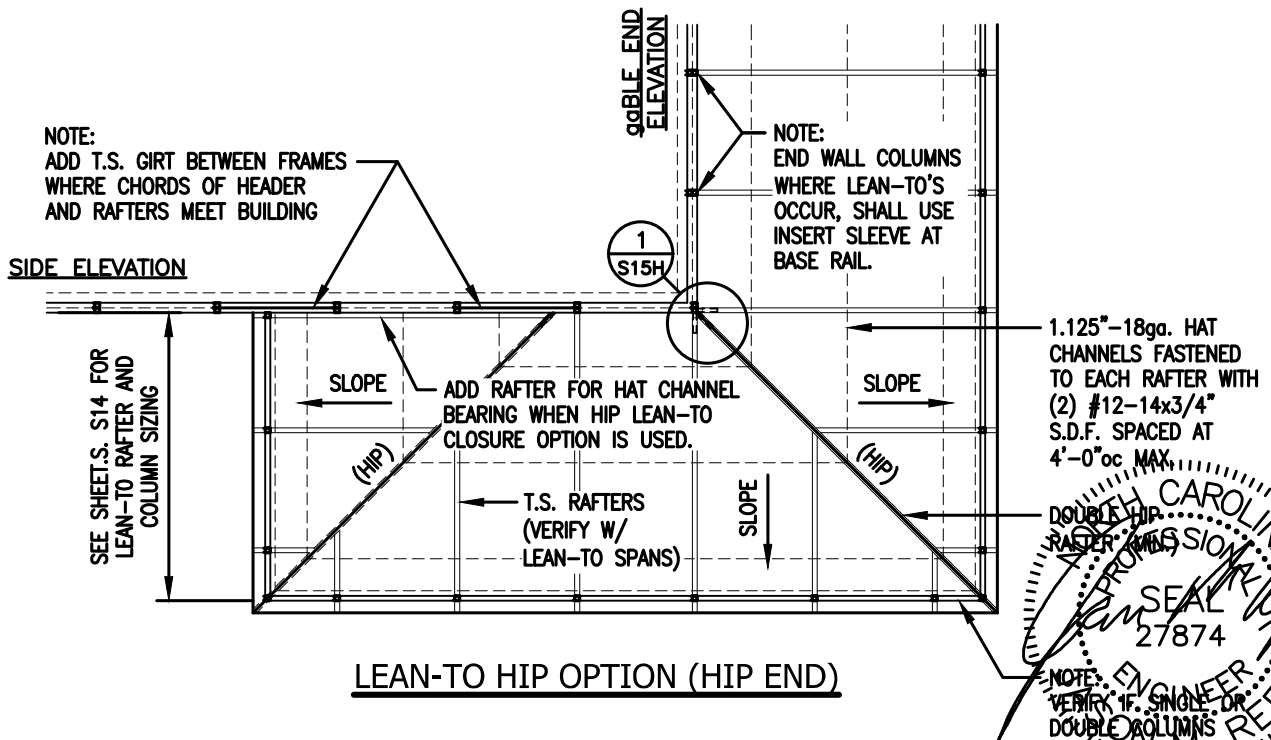
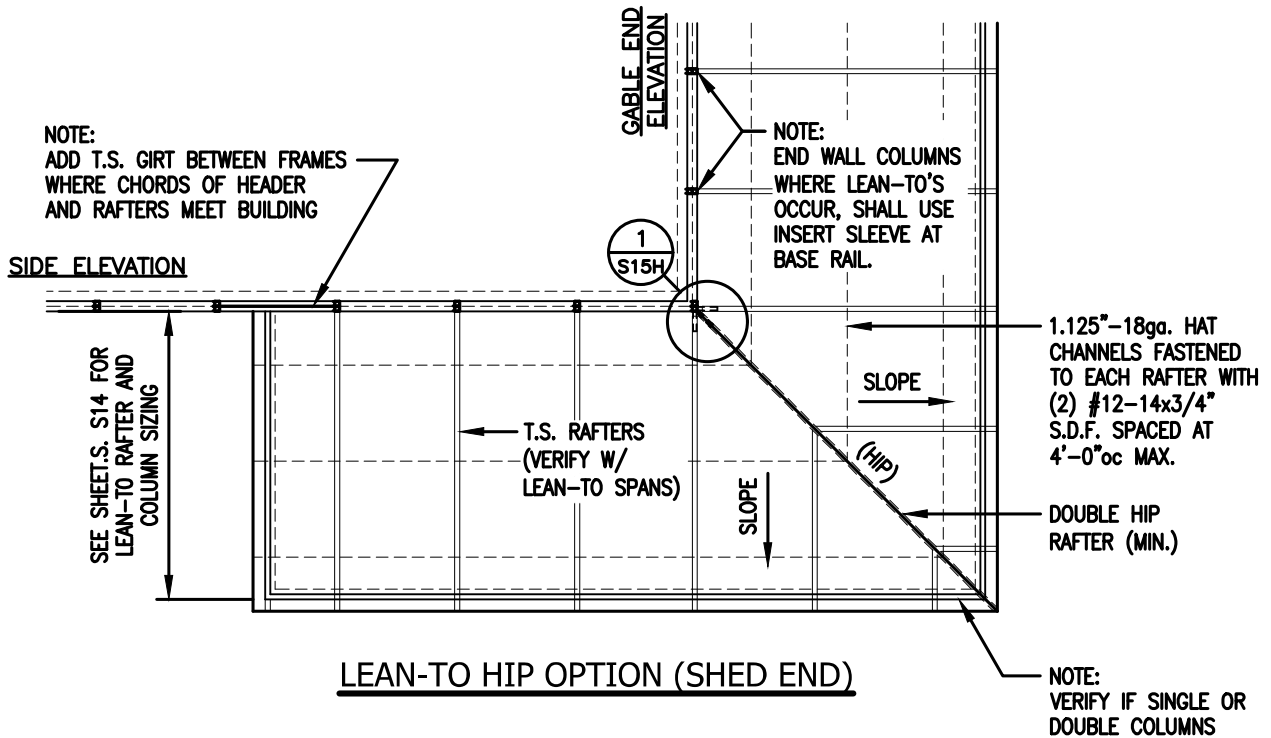
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S14A**

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

## LEAN-TO 'HIP' OPTIONS



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S14B**

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

T.S. SINGLE RAFTER

CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.)

3/16

3/16

VARIES 2 TO 3

12

6"

45°

4'-0"

SECURE WITH (4) #12-14 x 3/4" S.D.F.'S (EACH END)

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

ON SINGLE COLUMN LEAN-TO'S UNDER 8'-0" A 3'-0" BRACE CAN BE USED. ON LEAN-TO'S TALLER THAN 8'-1" A 4'-0" BRACE MUST BE USED.

T.S. COLUMN

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



T.S. DOUBLE RAFTER

CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.)

VARIES 2 TO 3

12

3/16

3/16

6"

45°

4'-0"

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

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

ON SINGLE COLUMN LEAN-TO'S UNDER 8'-0" A 3'-0" BRACE CAN BE USED. ON LEAN-TO'S TALLER THAN 8'-1" A 4'-0" BRACE MUST BE USED.

T.S. COLUMN

3/12

3/12

TYP.

SECURE WITH (4) #12-14 x 3/4" S.D.F.'S (EACH END)

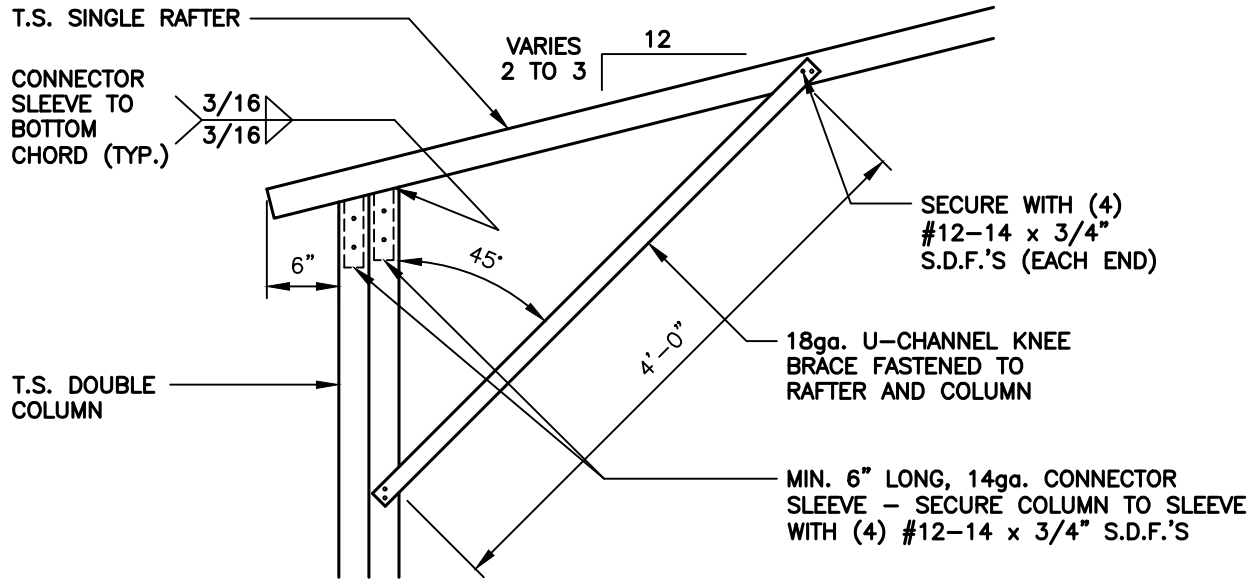


. CONNECTOR  
 COLUMN TO REEF  
 3/4" S.D.S.  
 SEAL  
 27874  
 ENGINEER  
 JASON M. REED  
 04/10/2025



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

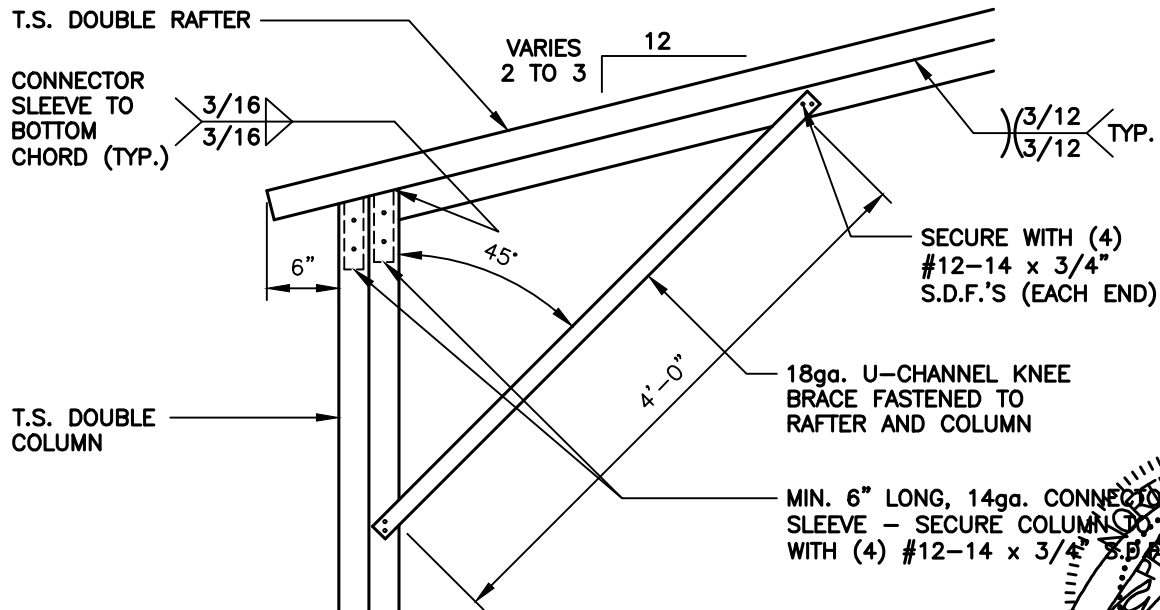
## LEAN-TO CONNECTION DETAILS - DOUBLE COLUMN



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

1  
S15A

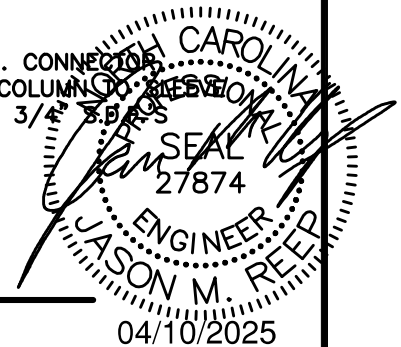
SCALE: 3/4" = 1'-0"



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

1A  
S15A

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

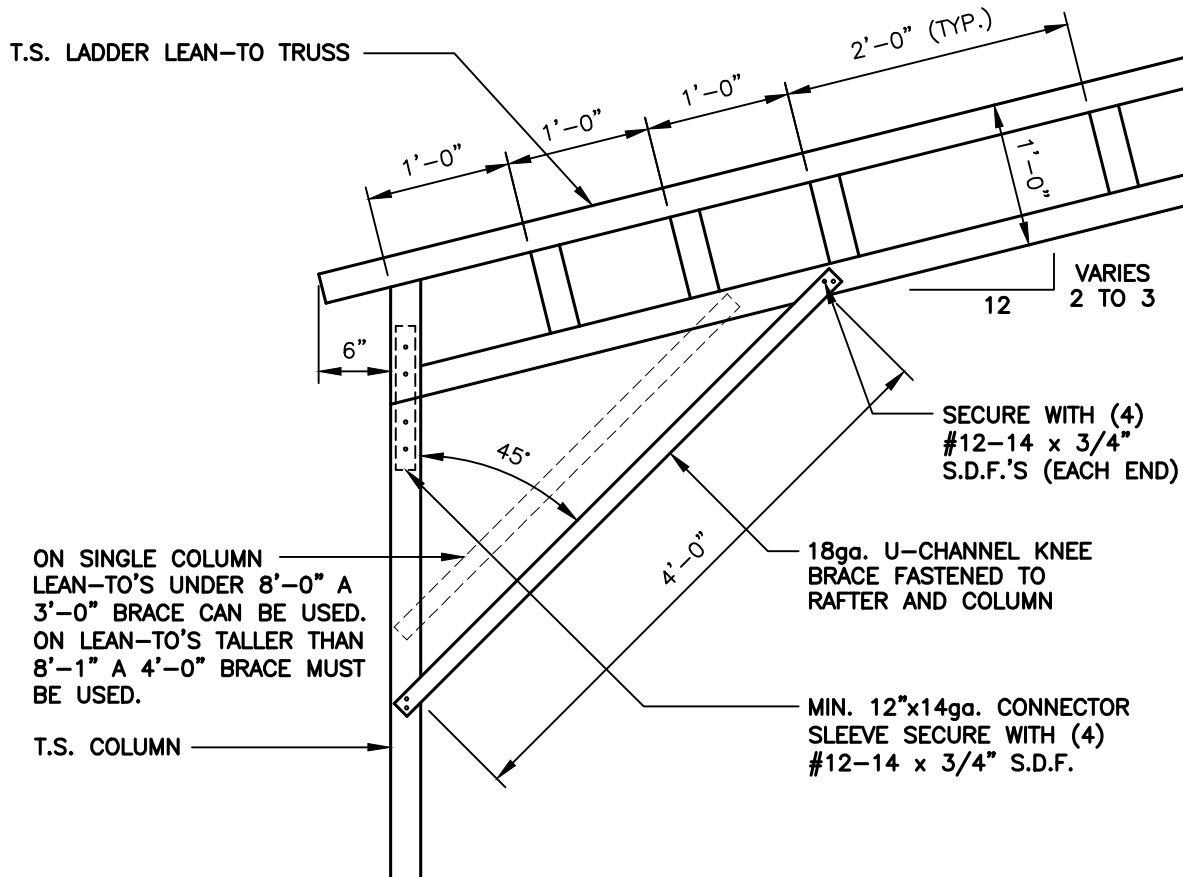
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S15A**

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

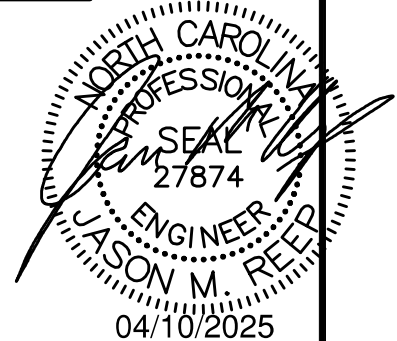
## LEAN-TO CONNECTION DETAILS - LACED RAFTER / SINGLE COLUMN



LEAN-TO LACED RAFTER / SINGLE COLUMN  
CONNECTION DETAIL



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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S15B**

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

T.S. LADDER LEAN-TO TRUSS

CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.)

MIN. 12"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14 x 3/4" S.D.F.

T.S. COLUMN

1'-0"

1'-0"

1'-0"

2'-0" (TYP.)

1'-0"

6"

45°

4'-0"

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

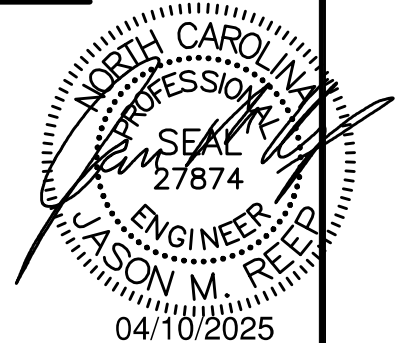
MIN. 6" LONG, 14ga. CONNECTOR SLEEVE - SECURE COLUMN TO SLEEVE WITH (4) #12-14 x 3/4" S.D.F.'S

VARIES 2 TO 3

12



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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

**DRAWN BY:**  
**BKS**

**PROJECT NO:**  
0725-0381

**DATE:**  
04/10/25

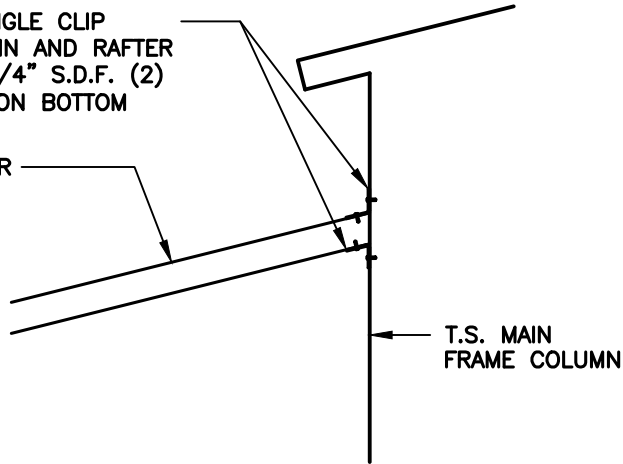
**SHEET NO:**  
**S15C**

NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER 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  
S15D

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. DOUBLE RAFTER

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

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

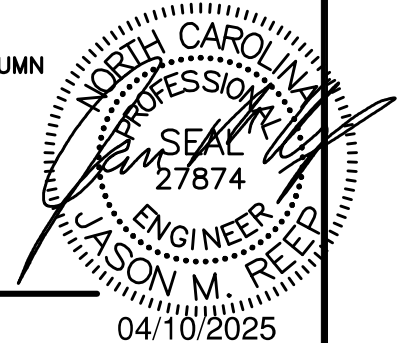
MIN. 6" LONG, 14ga. CONNECTOR  
SLEEVE - SECURE COLUMN TO  
SLEEVE WITH (4) #12-14 x 3/4"  
S.D.F.'S

T.S. MAIN  
FRAME COLUMN

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

1A  
S15D

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S15D**

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

## LEAN-TO / MAIN FRAME CONNECTION DETAILS

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

T.S. LADDER LEAN-TO TRUSS

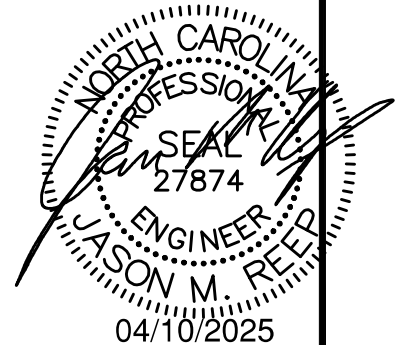
3/16  
3/16  
CONNECTOR  
SLEEVE TO  
COLUMN

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

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

1  
S15E

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

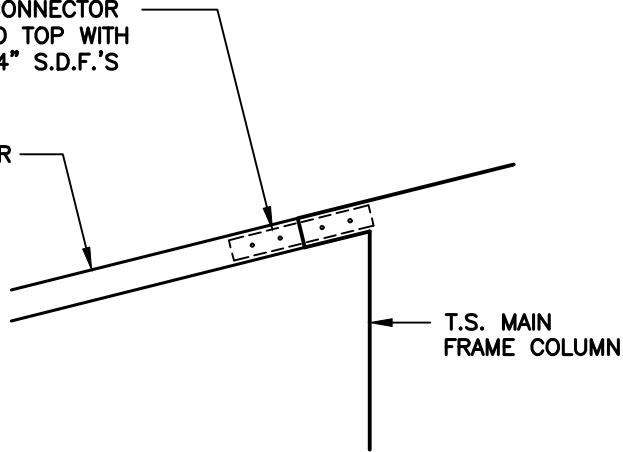
SHEET NO:  
**S15E**

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

## LEAN-TO / MAIN FRAME CONNECTION DETAILS

12" LONG 14ga. CONNECTOR  
SLEEVE SECURE TO TOP WITH  
(8) #12-14 x 3/4" S.D.F.'S

T.S. SINGLE RAFTER



### LEAN-TO SINGLE RAFTER / BUILDING FRAME (FLUSH) CONNECTION DETAIL

1  
S15F

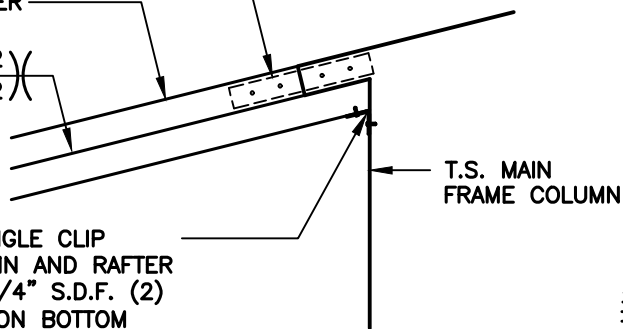
SCALE: 3/4" = 1'-0"

12" LONG 14ga. CONNECTOR  
SLEEVE SECURE TO TOP WITH  
(8) #12-14 x 3/4" S.D.F.'S

T.S. DOUBLE RAFTER

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

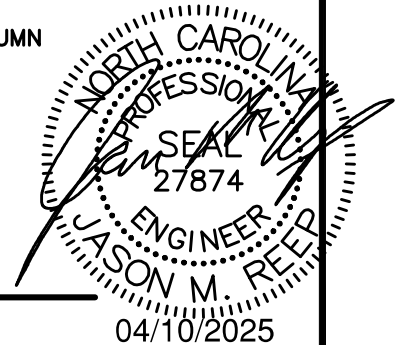
2"x2"x2" 14ga. ANGLE CLIP  
SECURE TO COLUMN AND RAFTER  
WITH #12-14 x 3/4" S.D.F. (2)  
ON TOP AND (2) ON BOTTOM



### LEAN-TO DOUBLE RAFTER / BUILDING FRAME (FLUSH) CONNECTION DETAIL

1A  
S15F

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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S15F**

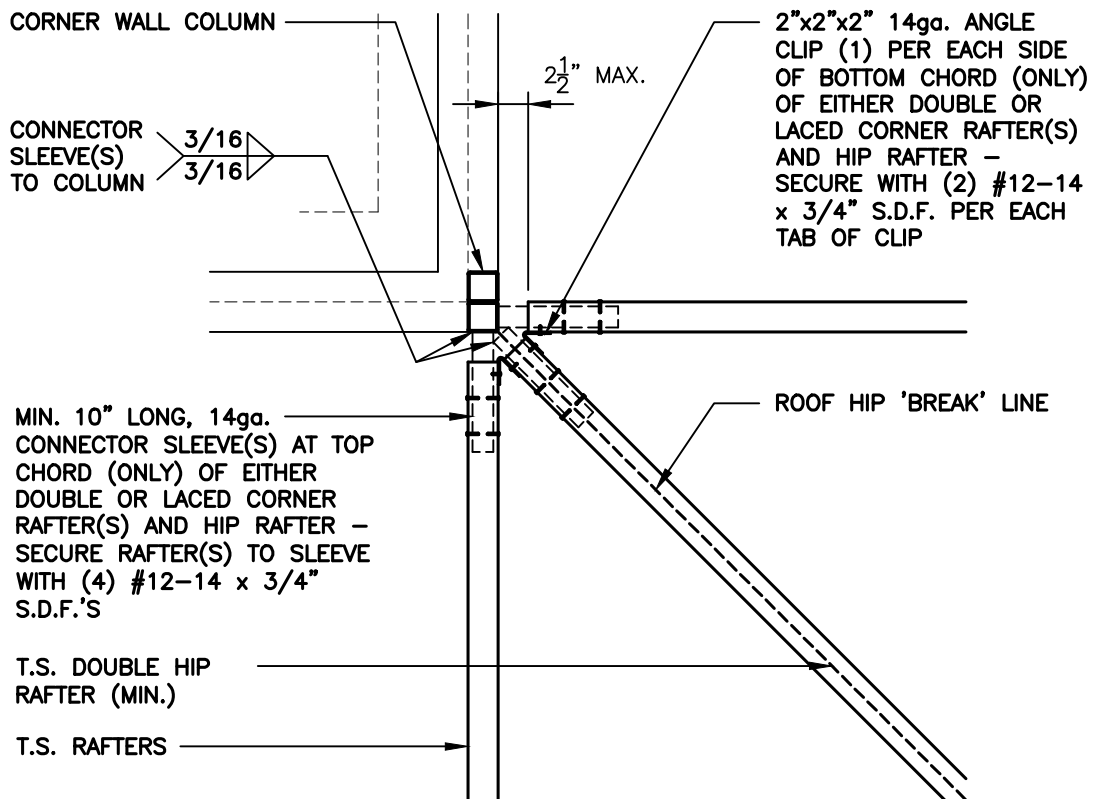
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



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



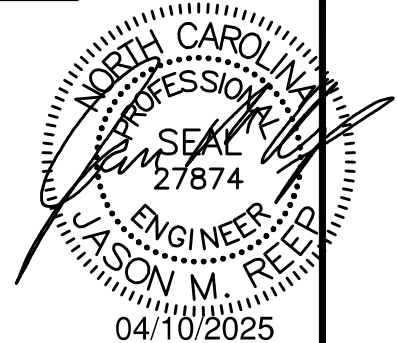
## END WALL COLUMN / HIP RAFTER CONNECTION DETAIL



END WALL COLUMN / HIP RAFTER  
CONNECTION DETAIL



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



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

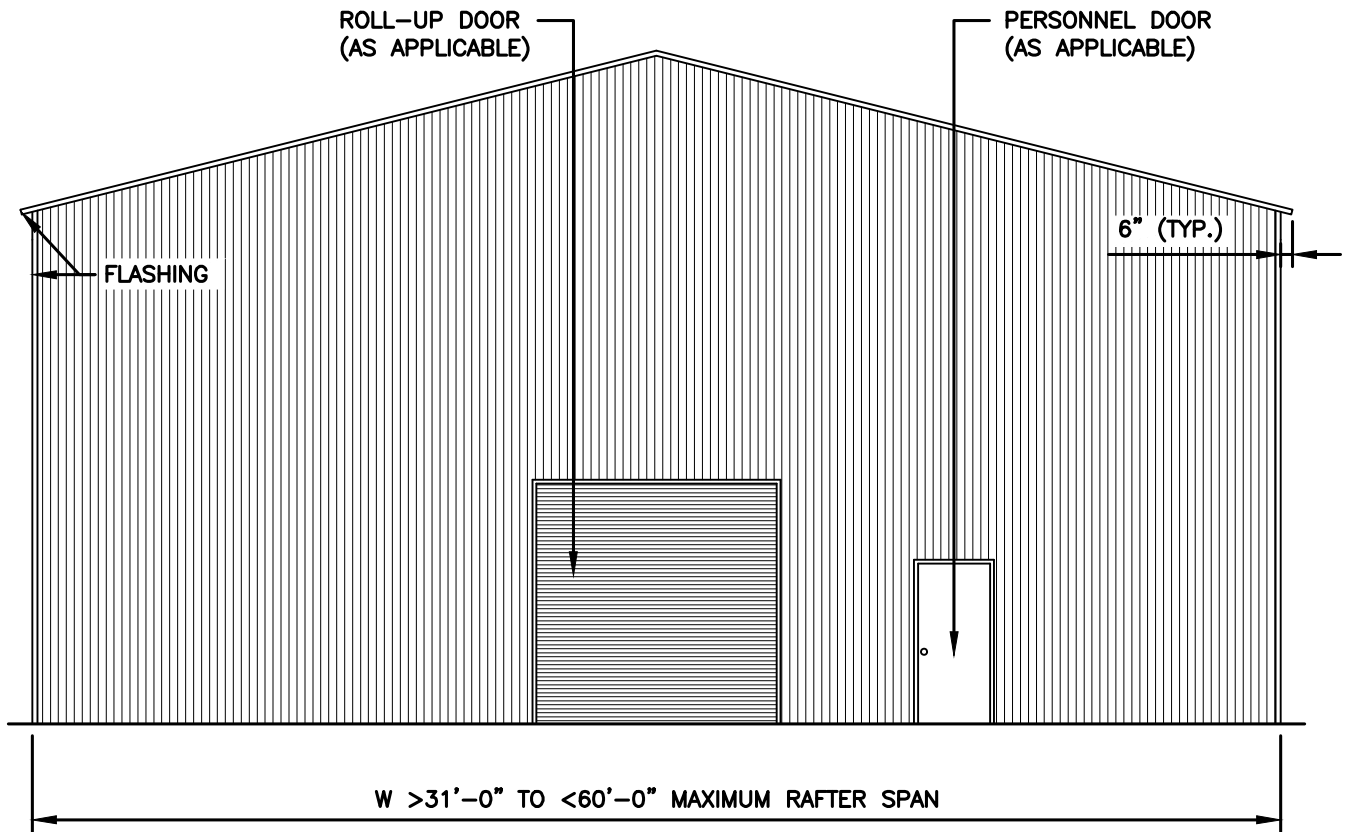
PROJECT NO:  
0725-0381

DATE:  
04/10/25

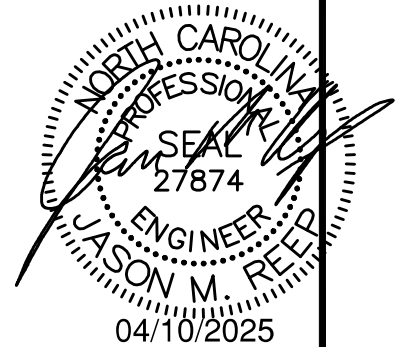
SHEET NO:  
**S15H**

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

## VERTICAL ROOF / SIDING OPTION ELEVATIONS



TYPICAL END ELEVATION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

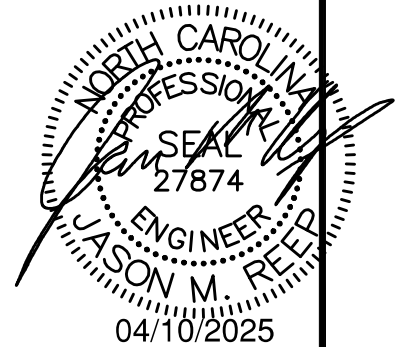
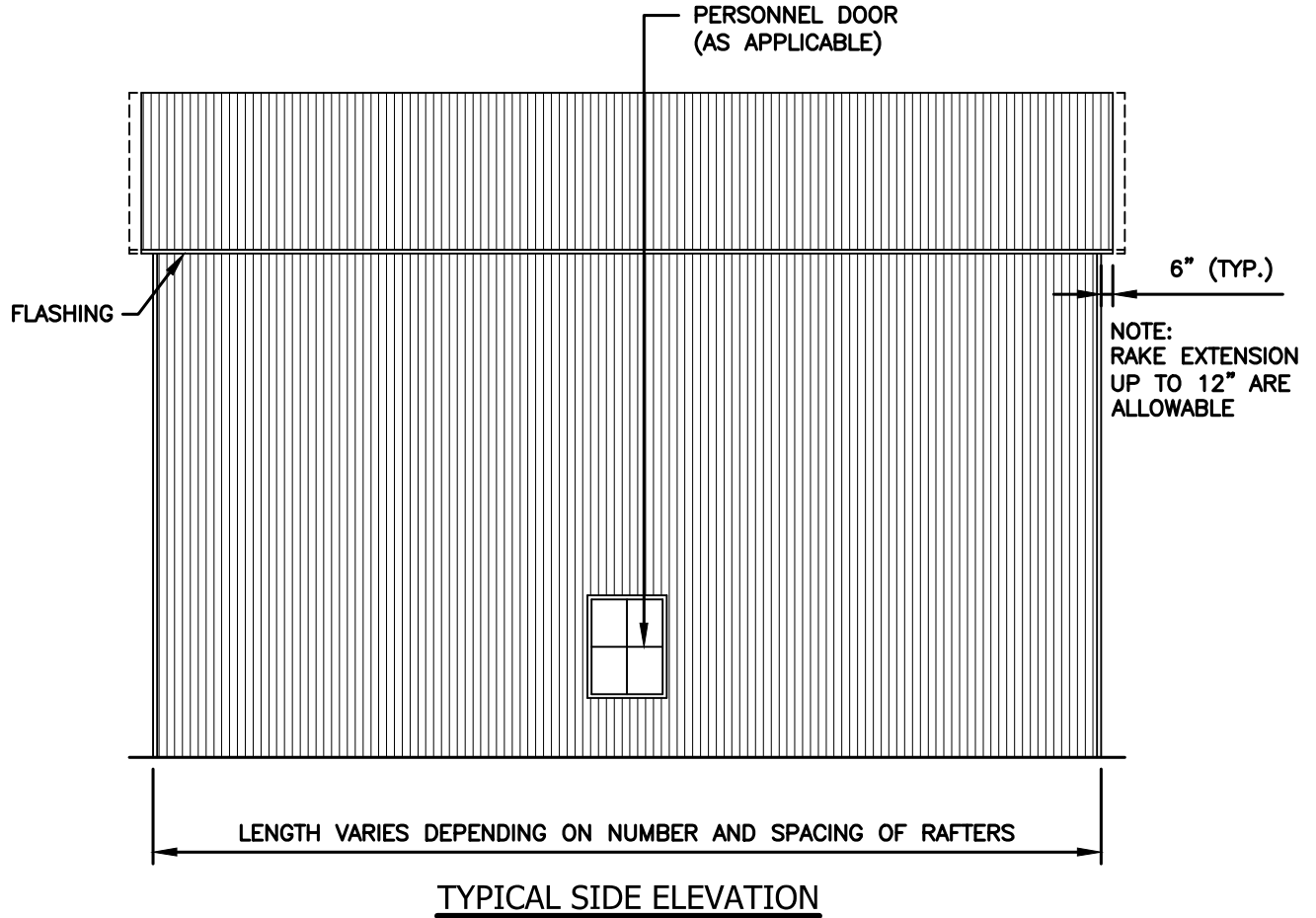
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S16**

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

## VERTICAL ROOF / SIDING OPTION ELEAVTIONS



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

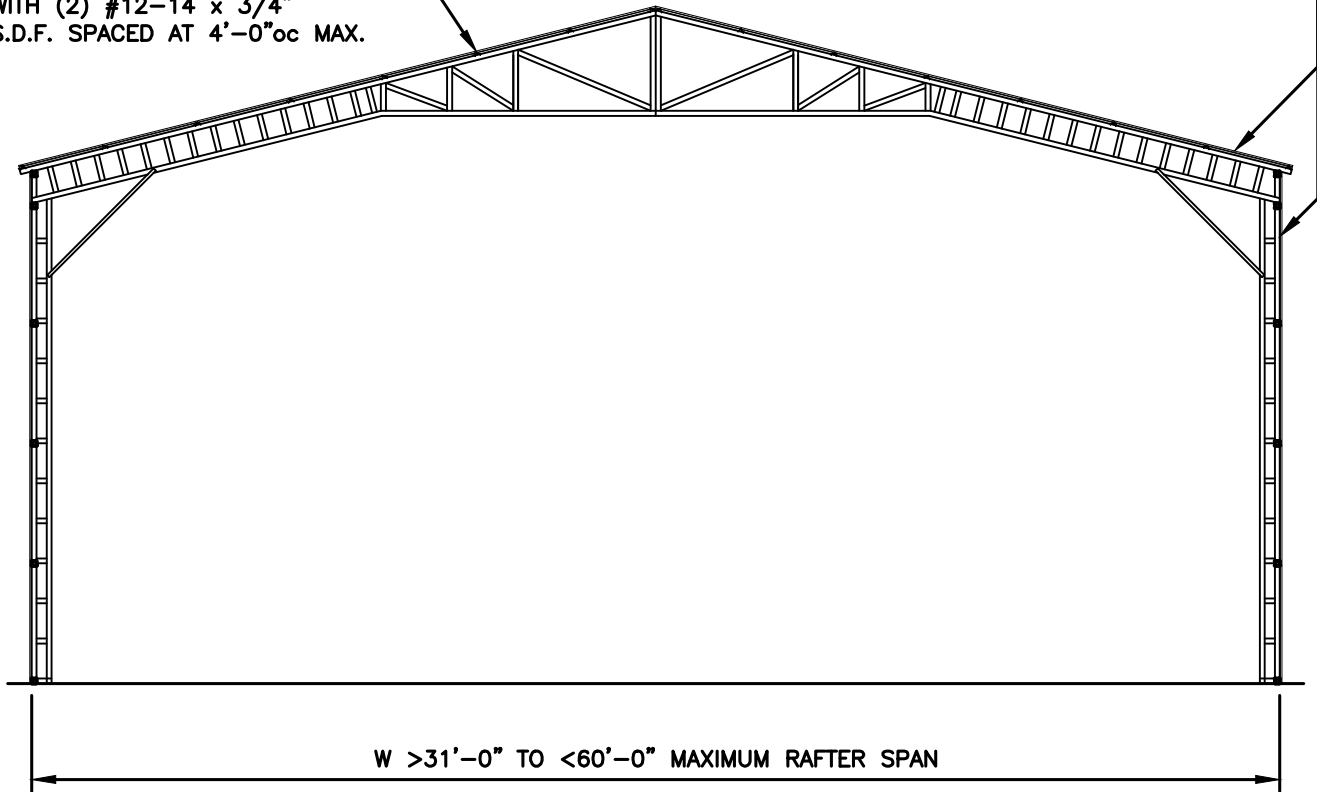
SHEET NO:  
**S16A**

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

VERTICAL ROOF / SIDING OPTION

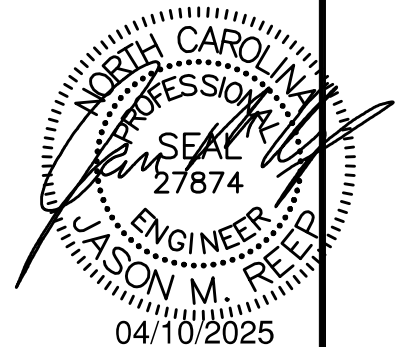
1.125"-18ga. HAT CHANNELS  
FASTENED TO EACH RAFTER  
WITH (2) #12-14 x 3/4"  
S.D.F. SPACED AT 4'-0"oc MAX.

29ga. GALVANIZED METAL  
ROOF AND WALL PANELS  
FASTENED TO GIRTS OR  
HAT CHANNELS AND POST



W >31'-0" TO <60'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER / COLUMN FRAME SECTION



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

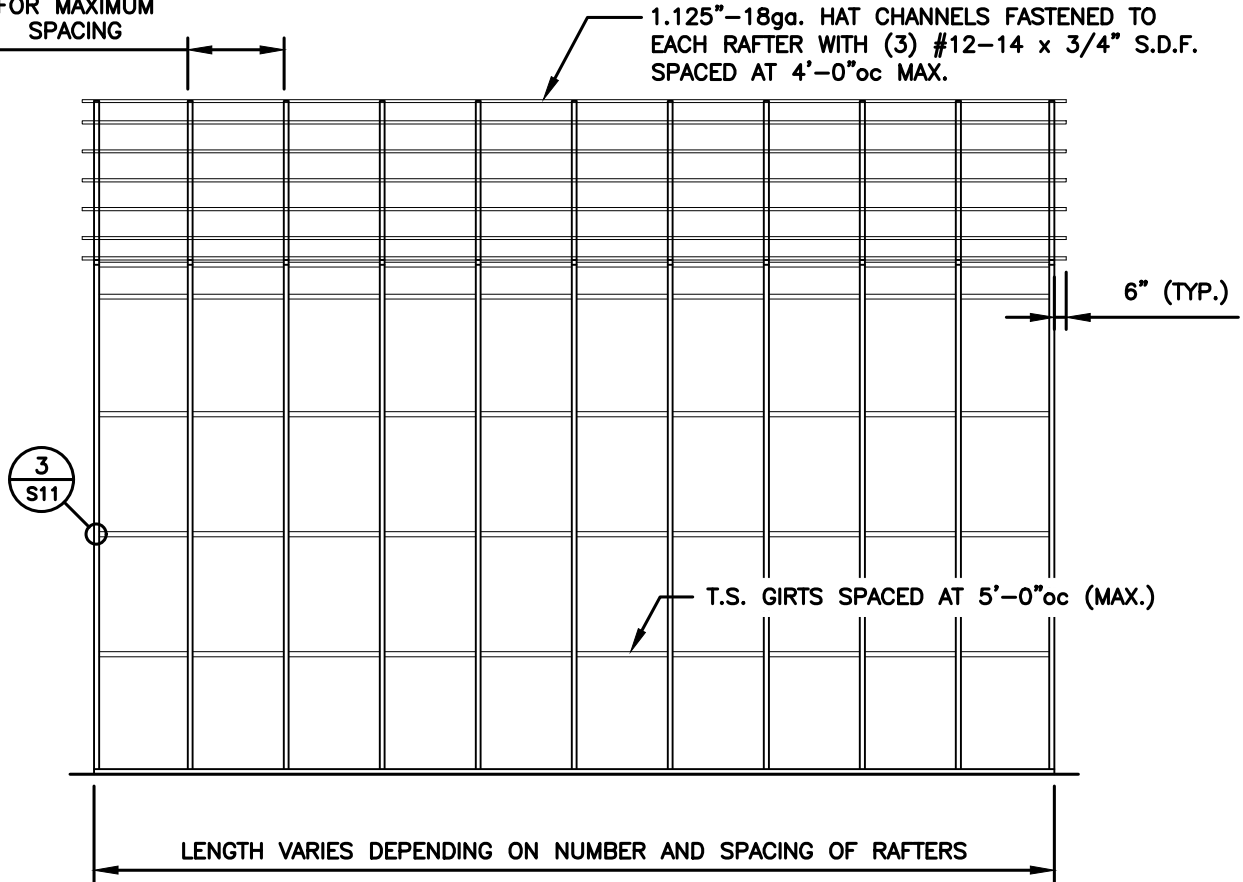
DATE:  
04/10/25

SHEET NO:  
**S16B**

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

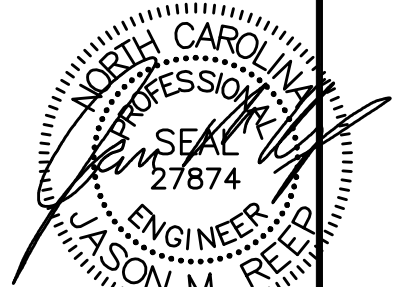
SEE NOTES  
(SHEET S3)  
FOR MAXIMUM  
SPACING

## VERTICAL ROOF / SIDING OPTION



## TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

NOTE:



1.125" - 48 ga. 25H

**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

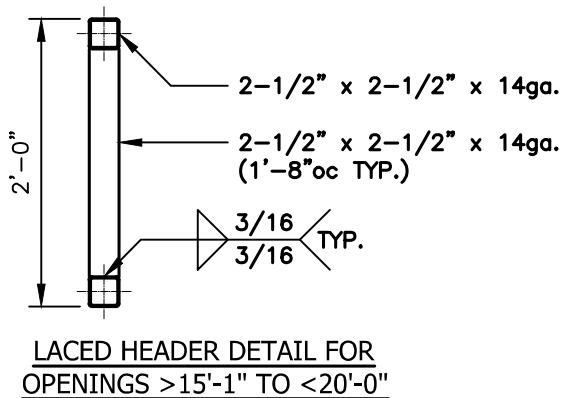
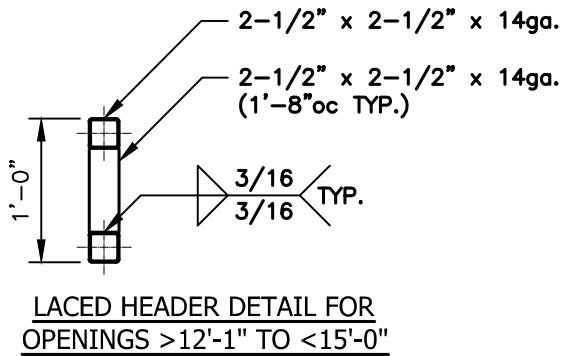
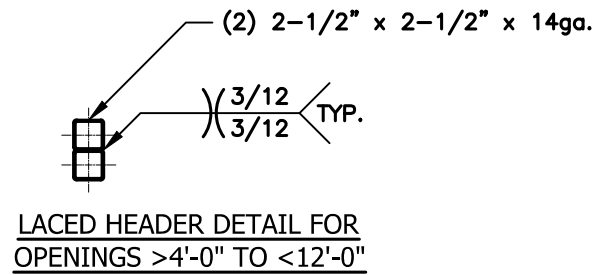
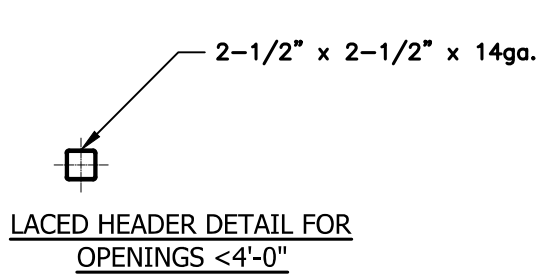
PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S16C**

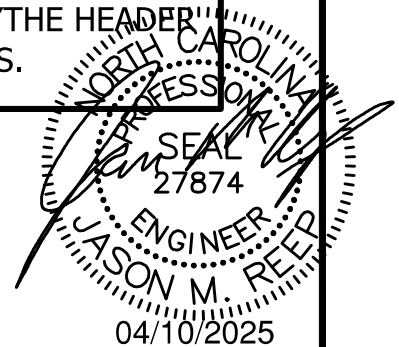
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

## SIDE WALL HEADER OPTIONS



### GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER  
ON DOUBLE COLUMNS.



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

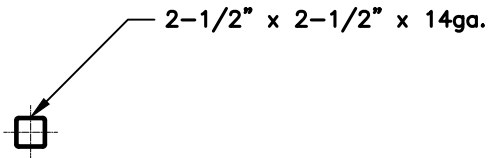
PROJECT NO:  
0725-0381

DATE:  
04/10/25

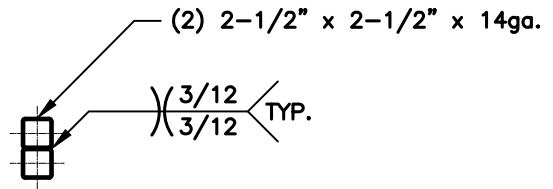
SHEET NO:  
**S17**

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

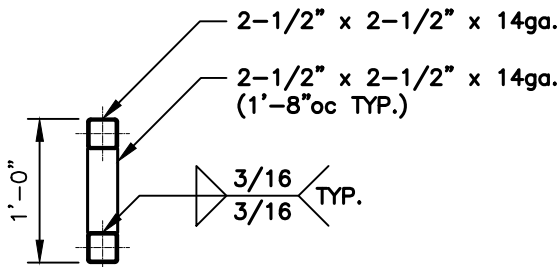
## END WALL HEADER OPTIONS



LACED HEADER DETAIL FOR  
OPENINGS <7'-0"



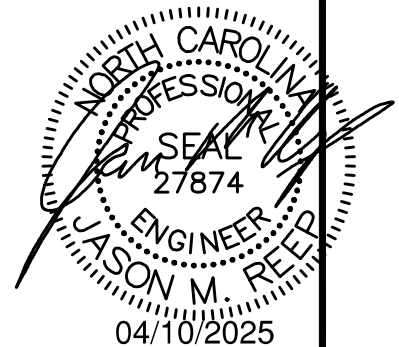
LACED HEADER DETAIL FOR  
OPENINGS >7'1" TO <16'-0"



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

### GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER  
ON DOUBLE COLUMNS



**JCMT**  
ASSOCIATES, PLLC

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

Marquis L. Devane  
73 Bombo Drive  
Lillington, NC 27546

DRAWN BY:  
BKS

PROJECT NO:  
0725-0381

DATE:  
04/10/25

SHEET NO:  
**S17A**

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