# STRUCTURAL DESIGN
# ENCLOSED BUILDING

## MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

**11 December 2020**
**Revision 9**
**M&A Project No.**
**16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S/20324S**

**Prepared for:**

**Steel Buildings and Structures, Inc.**
**P.O. Box 1287**
**Mt. Airy, NC 27030**

**Prepared by:**

**Moore and Associates Engineering and Consulting, Inc.**

**1009 East Avenue**
**North Augusta, SC 29841**

**401 S. Main St., Suite 200**
**Mt. Airy, NC 27030**

Digitally signed by Wayne S Moore
Date: 2020.12.11 11:07:29 -05'00'

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No 57170
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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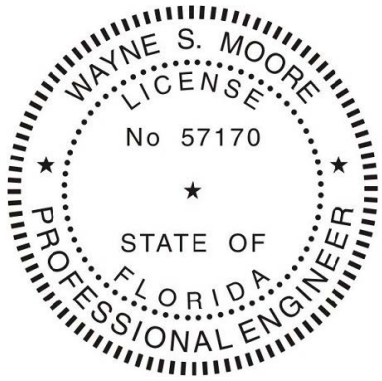


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CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 1 | DWG. NO: SK-3 | REV.: 9

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30'-0"x20'-0" ENCLOSED STRUCTURE

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SCALE: NTS
JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 1A
DWG. NO: SK-3
REV.: 9

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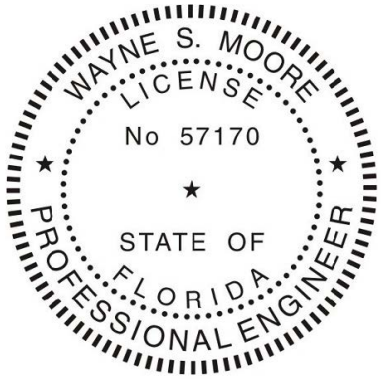


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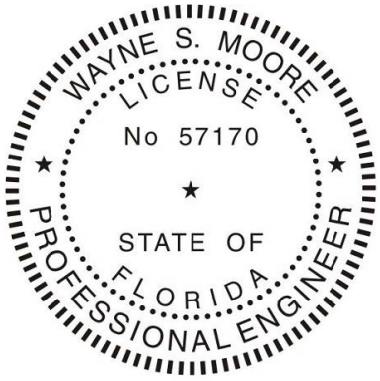
SHT. 2 | DWG. NO: SK-3 | REV.: 9

# INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
   - A) DEAD LOAD = 1.5 PSF
   - B) LIVE LOAD = 12 PSF
   - C) GROUND SNOW LOAD = 30 PSF ($\leq$ 26'-0"), 35 PSF (26'-0" < W $\leq$ 30'-0")
     NOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED).
4. 3-SECOND GUST ULTIMATE WIND SPEED ($V_{ULT}$) = 105 TO 145 MPH (NOMINAL WIND SPEED = 82 TO 112 MPH):
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
11. FASTENERS CONSIST OF 1/4"x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
    SOIL SITE CLASS = D
    RISK CATEGORY I
    R= 3.25 $I_E$= 1.0
    $S_{DS}$= 2.039 g V= $C_S$W
    $S_{D1}$= 1.258 g
15. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.

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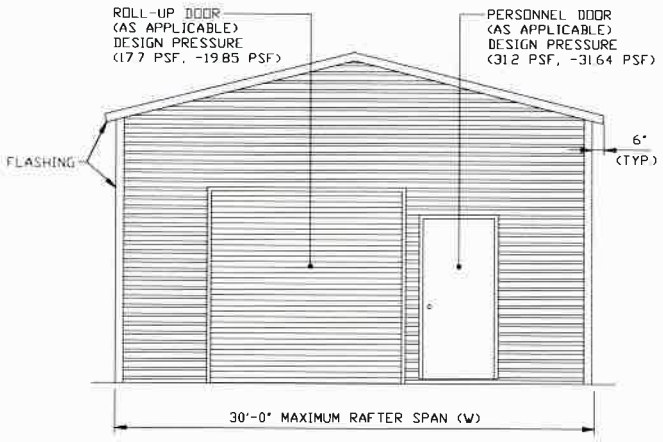
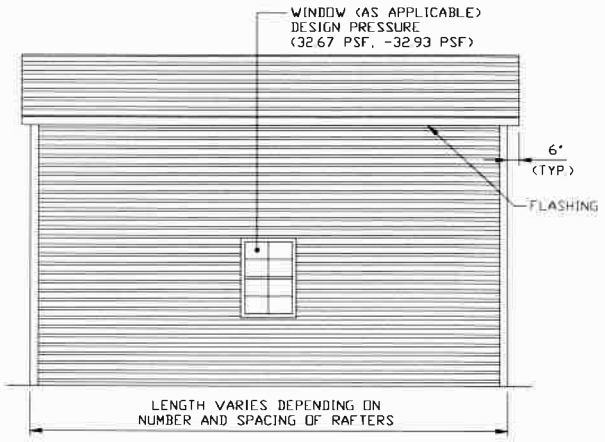
# BOX EAVE FRAME RAFTER STRUCTURE




## TYPICAL END ELEVATION

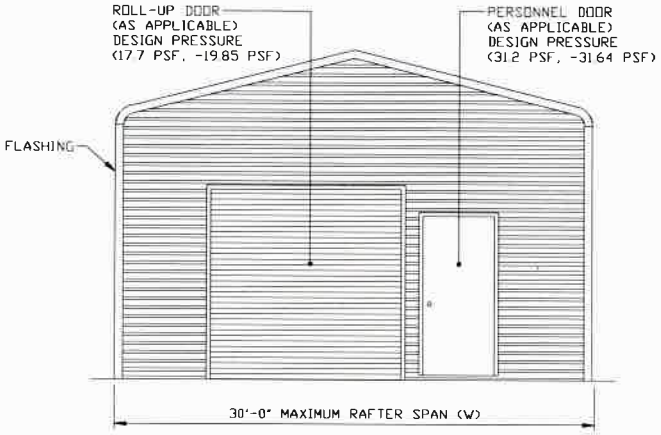
SCALE: NTS




## TYPICAL SIDE ELEVATION

SCALE: NTS

# BOW EAVE FRAME RAFTER STRUCTURE




## TYPICAL END ELEVATION

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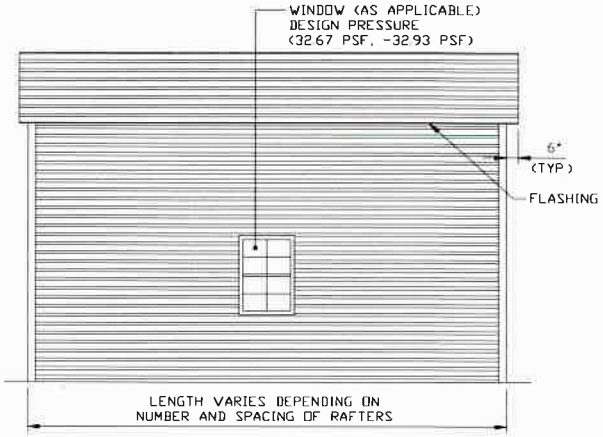


## TYPICAL SIDE ELEVATION

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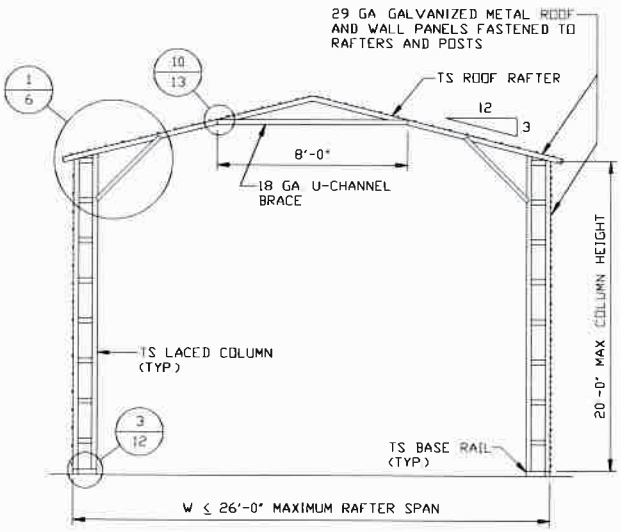
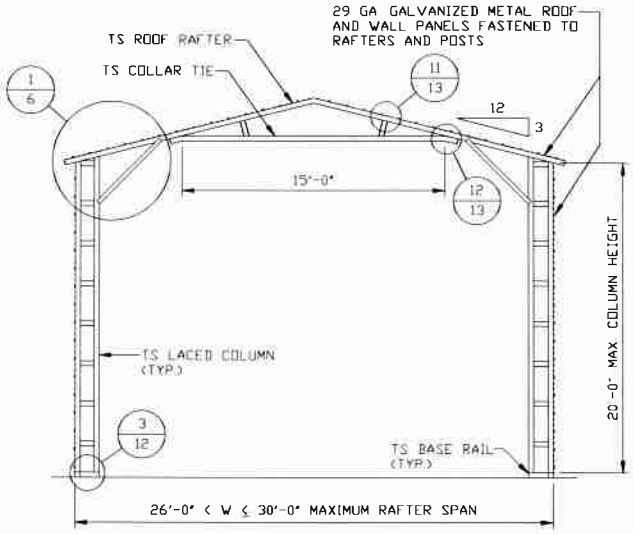



## TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

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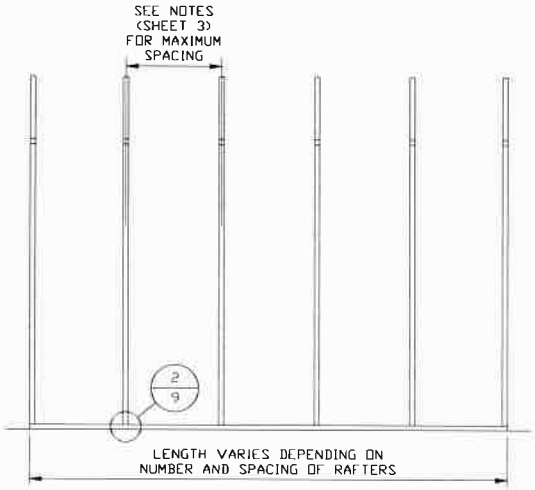


## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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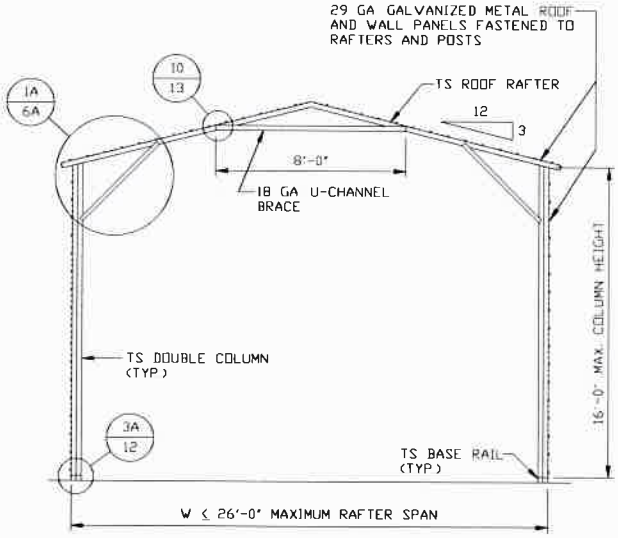


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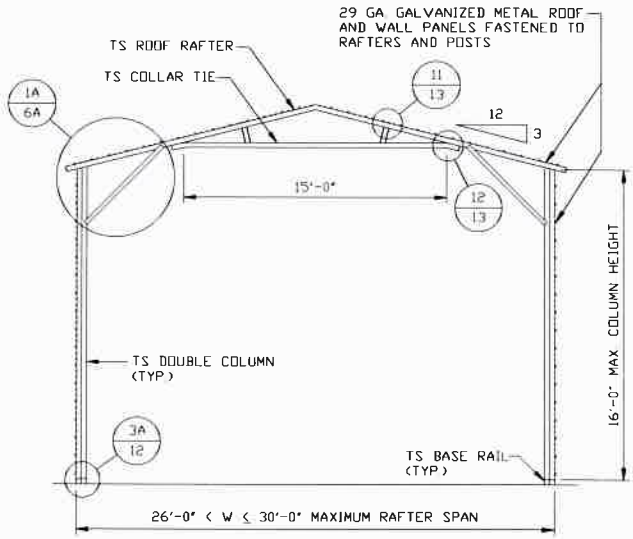


## TYPICAL RAFTER/COLUMN FRAME SECTION

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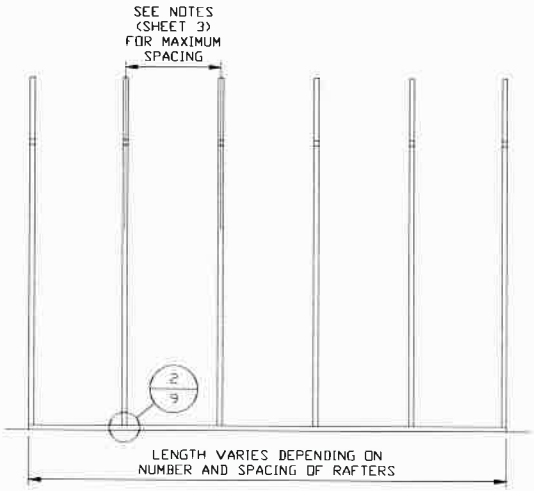


## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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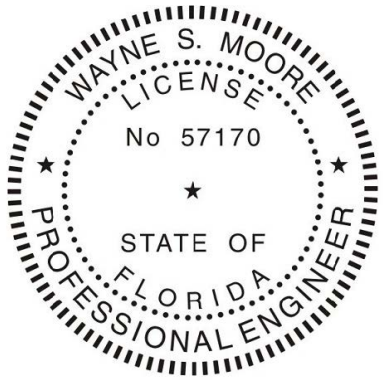


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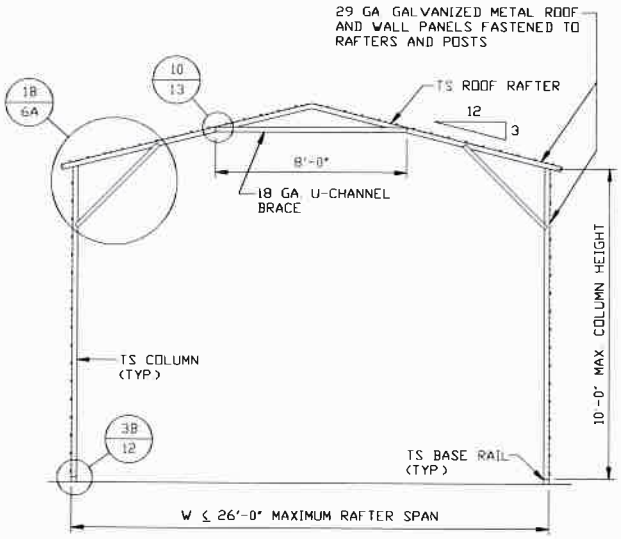


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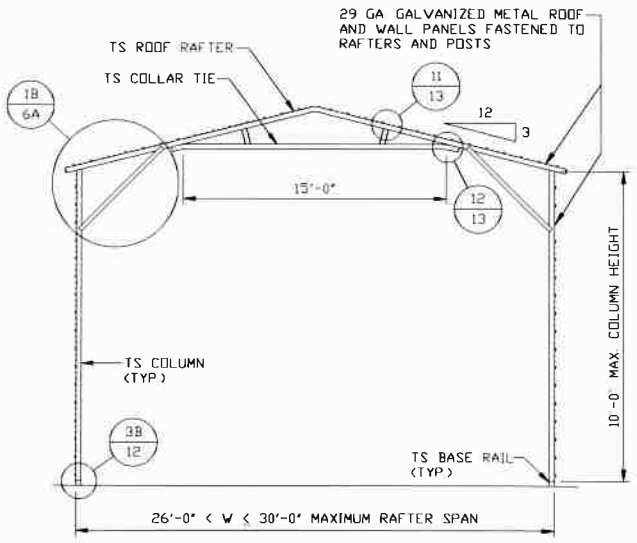


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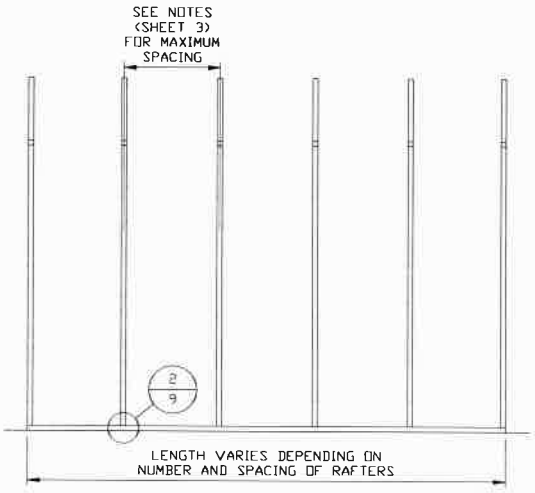


## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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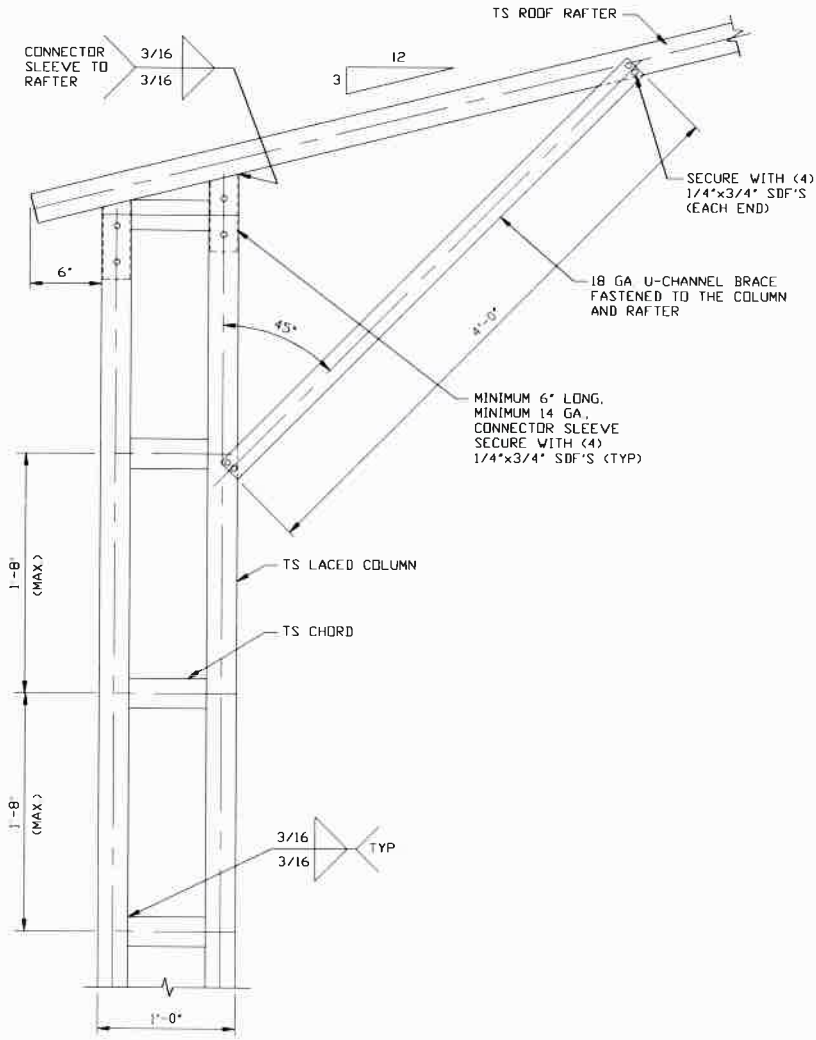


## BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

1

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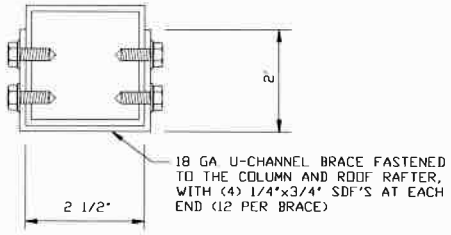


## BRACE SECTION

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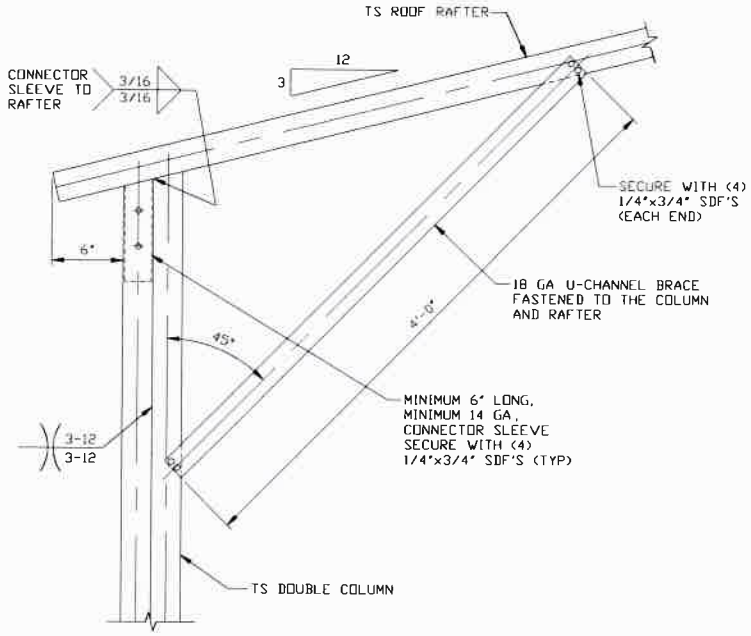
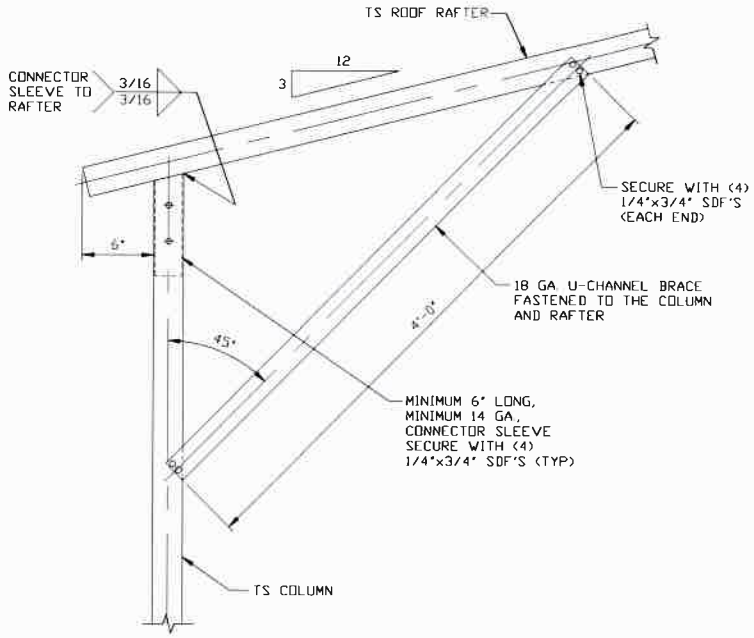


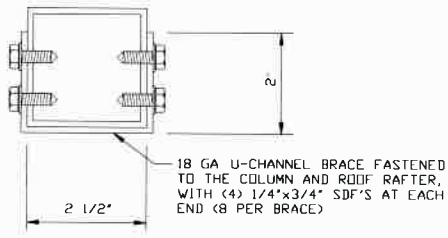

## 1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 16'-0"

SCALE: NTS




## 1B BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

SCALE: NTS




## BRACE SECTION

SCALE: NTS

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PROFESSIONAL ENGINEER

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| | CHECKED BY: PDH | | | |
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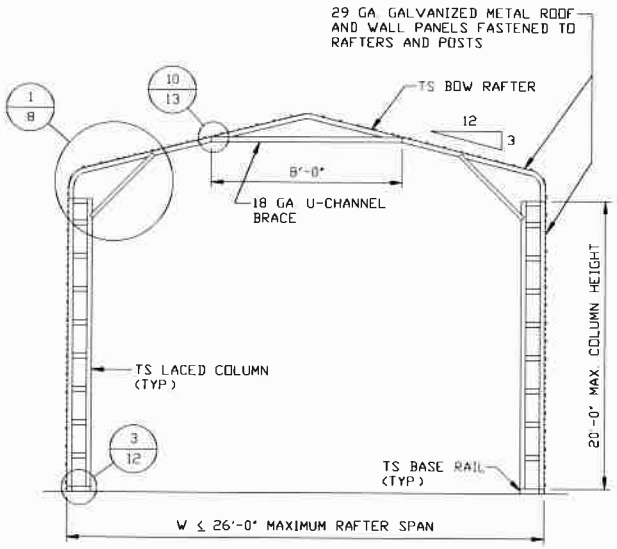
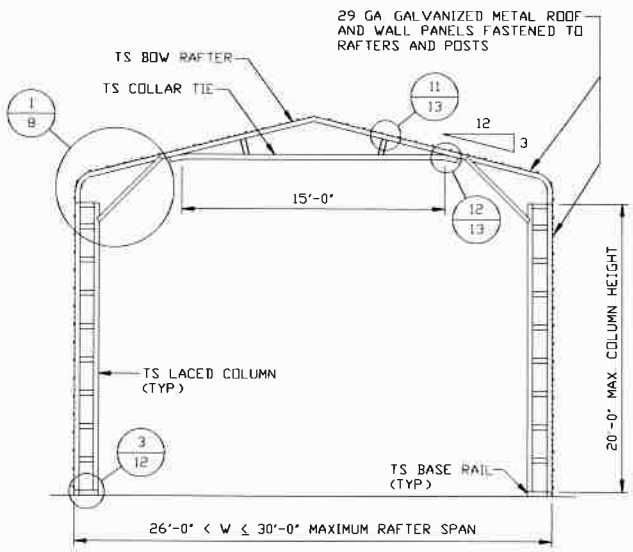
| | CLIENT: SBSI | SHT. 6A | DWG. NO: SK-3 | REV.: 9 |




## TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS




## TYPICAL RAFTER/COLUMN FRAME SECTION

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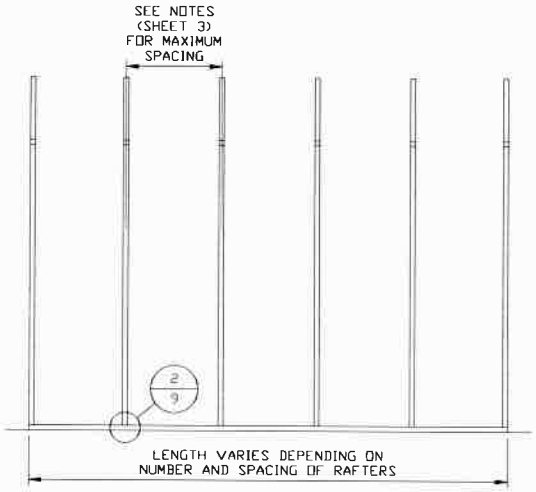


## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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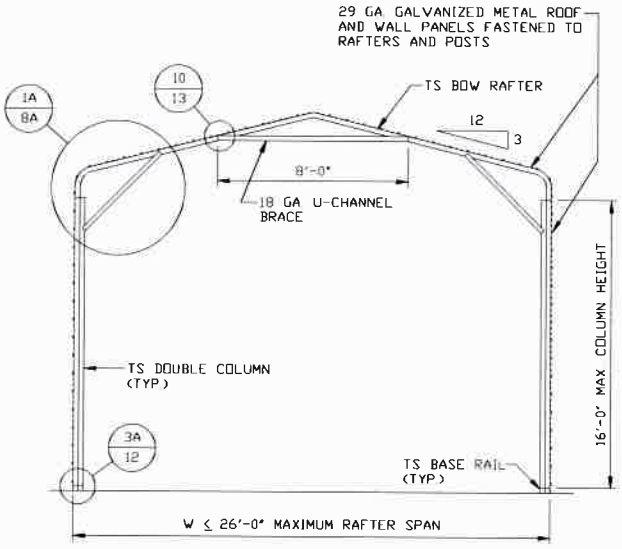
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 7 | DWG. NO: SK-3 | REV.: 9

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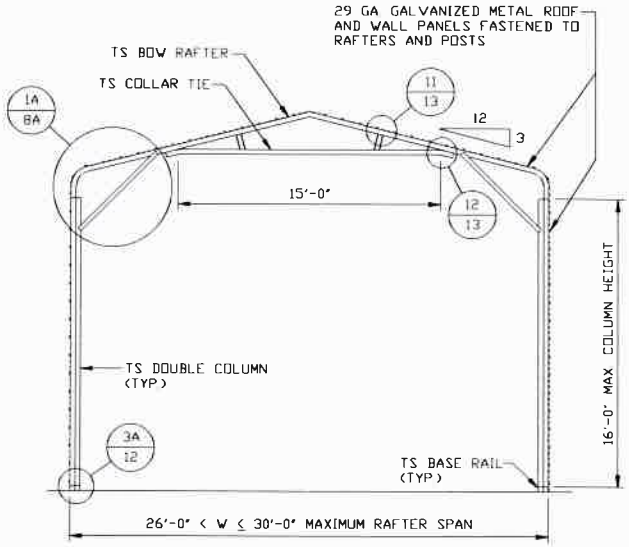


## TYPICAL RAFTER/COLUMN FRAME SECTION

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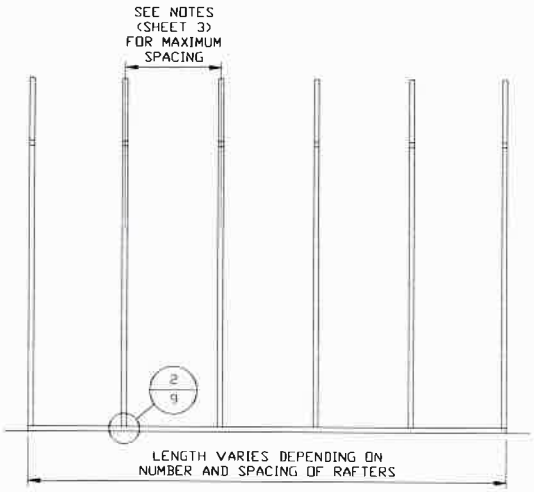


## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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| | CHECKED BY: PDH | | | |
| | PROJECT MGR: WSM | DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S |
| | CLIENT: SBSI | SHT. 7A | DWG. NO: SK-3 | REV.: 9 |

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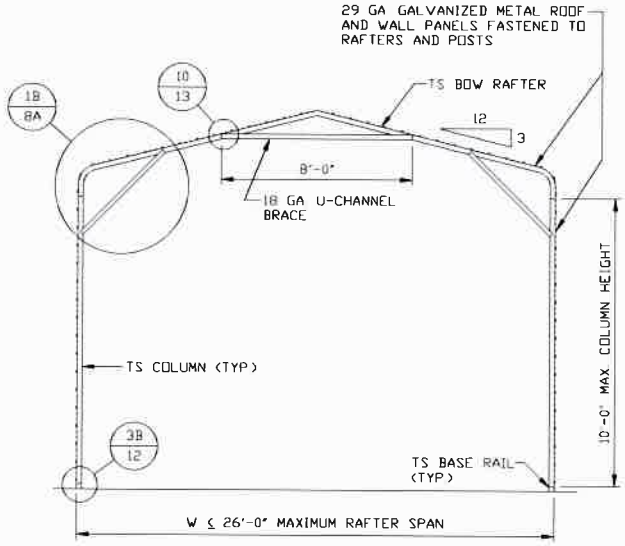


## TYPICAL RAFTER/COLUMN FRAME SECTION

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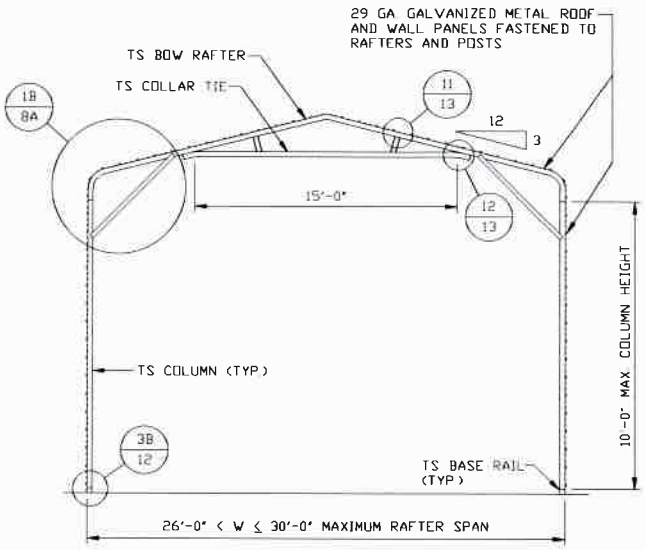


## TYPICAL RAFTER/COLUMN FRAME SECTION

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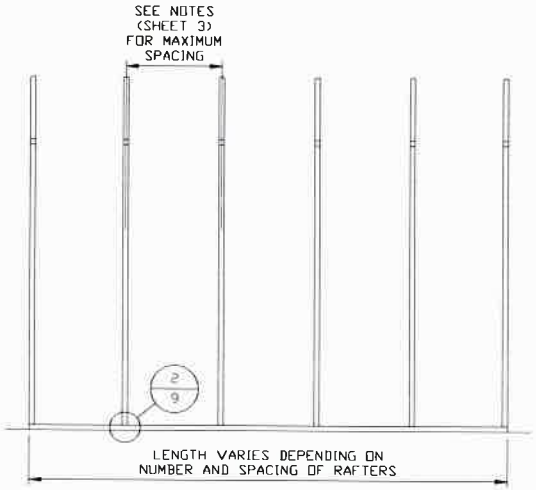
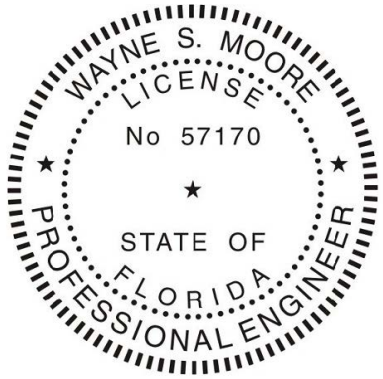



## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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| | CLIENT: SBSI | SHT. 7B | DWG. NO: SK-3 | REV.: 9 |

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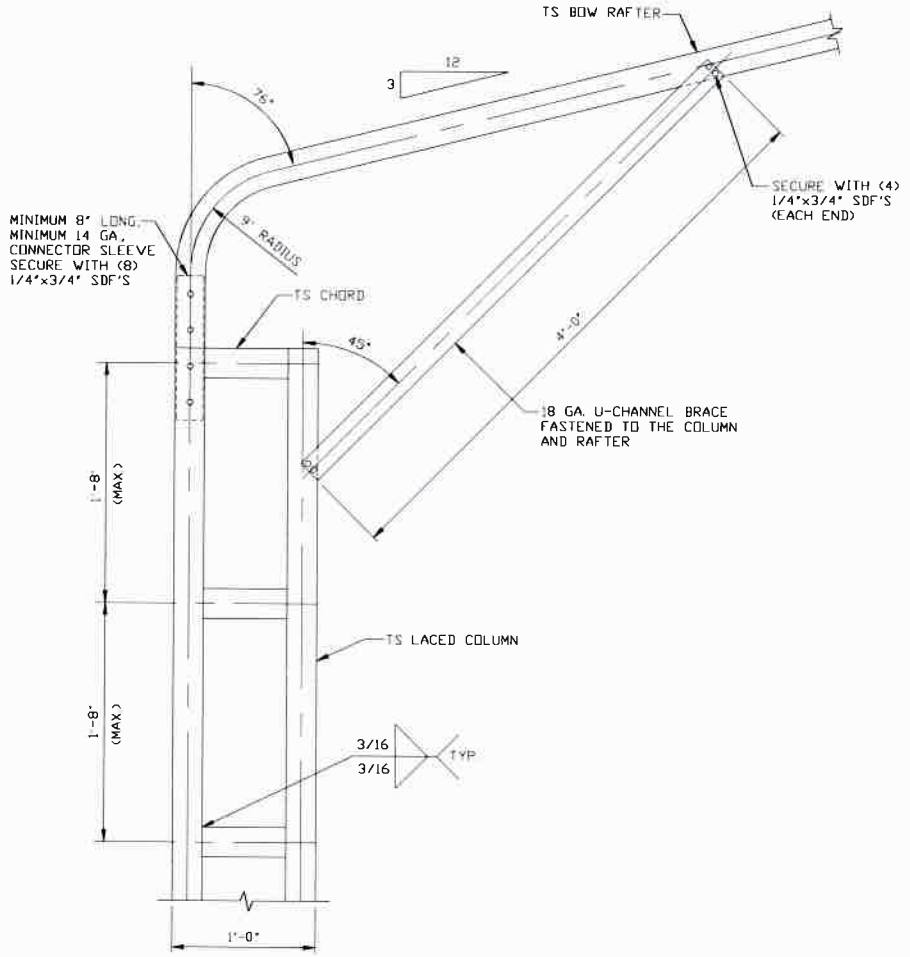
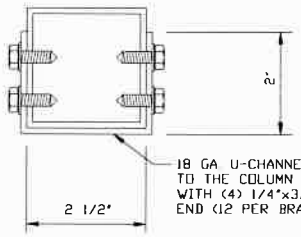



## BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

1

SCALE: NTS




## BRACE SECTION

SCALE: NTS

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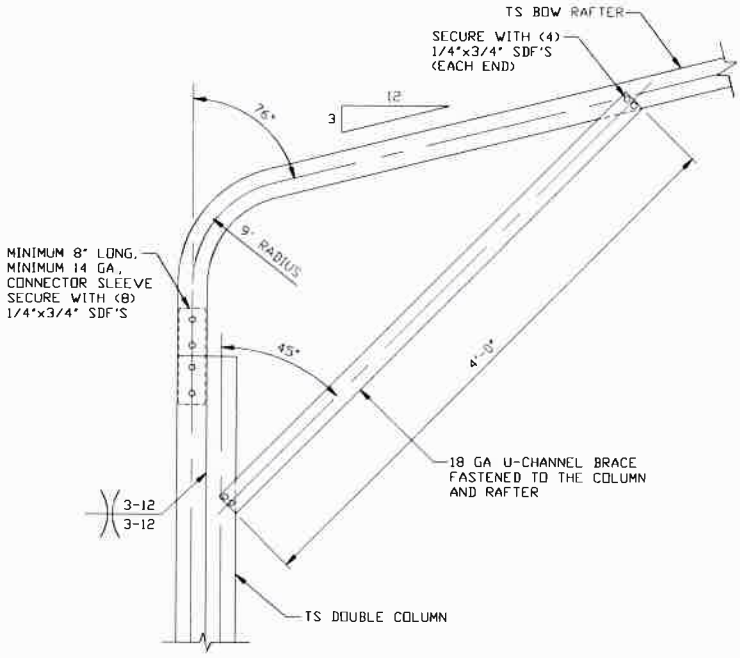
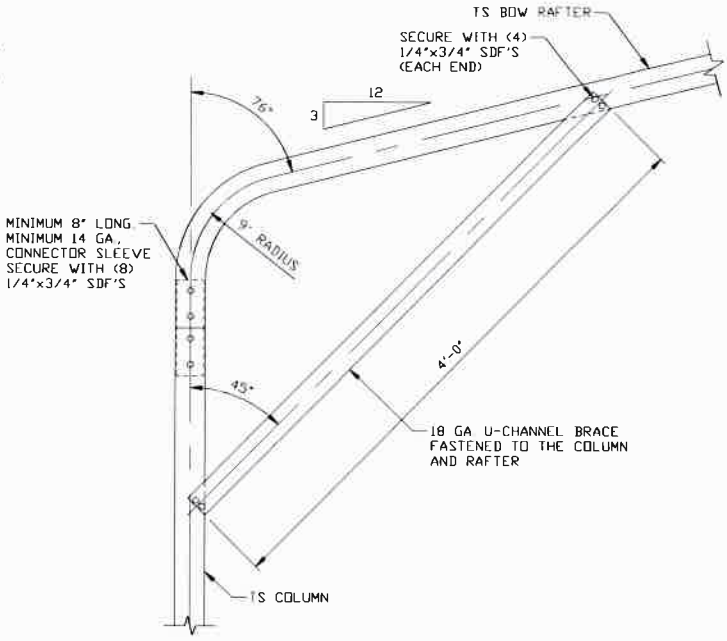



## BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 16'-0"

1A

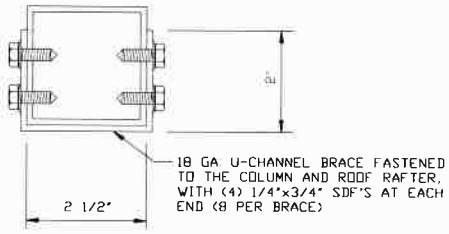
SCALE: NTS




## BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

1B

SCALE: NTS

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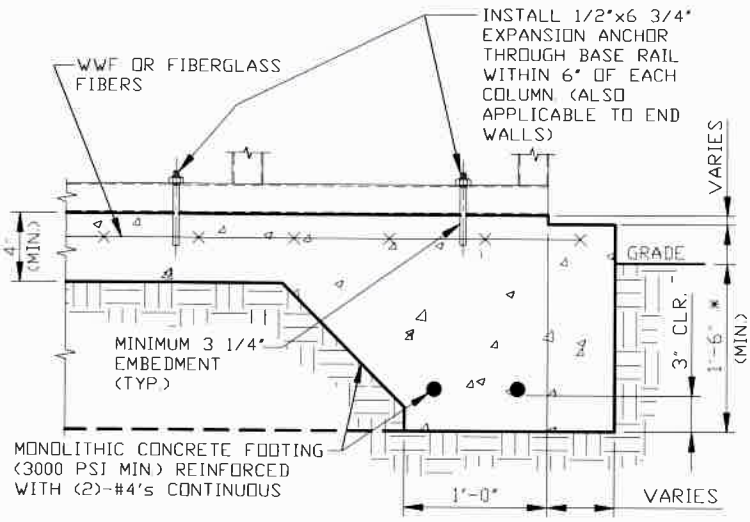
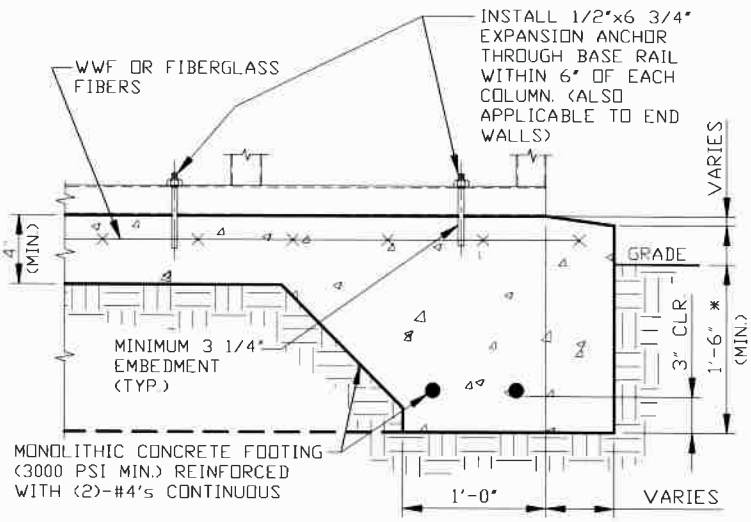
| CLIENT: SBSI | SHT. 8A | DWG. NO: SK-3 | REV.: 9 |

# BASE RAIL ANCHORAGE OPTIONS




## 2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL CODES/ORD.




## 2A CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL CODES/ORD.

## GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI 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 OR WEATHER, AND 1 1/2" ELSEWHERE.

### REINFORCING STEEL:

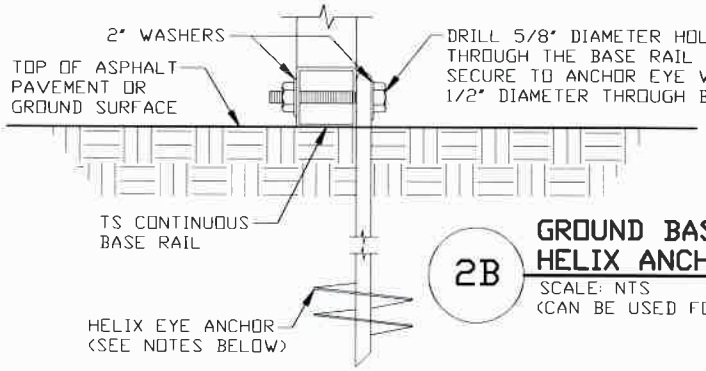
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

### REINFORCEMENT MAY BE BENT IN THE SHOP OR 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.

### HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.




## 2B GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)

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| | CHECKED BY: PDH | | | |
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| | CLIENT: SBSI | SHT. 9 | DWG. NO: SK-3 | REV.: 9 |

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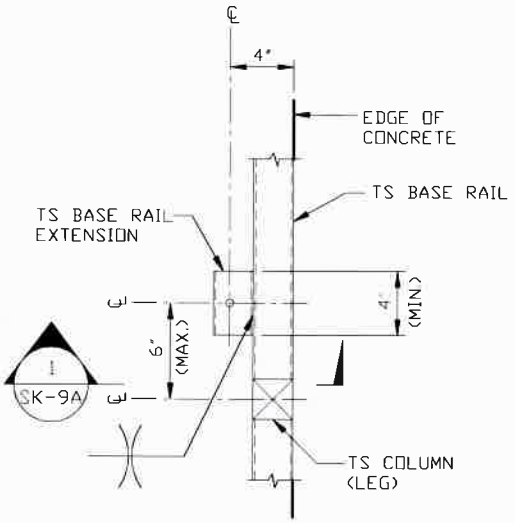
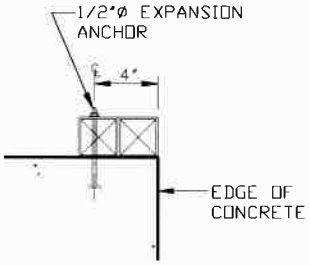
# ADDITIONAL BASE RAIL ANCHORAGE OPTION



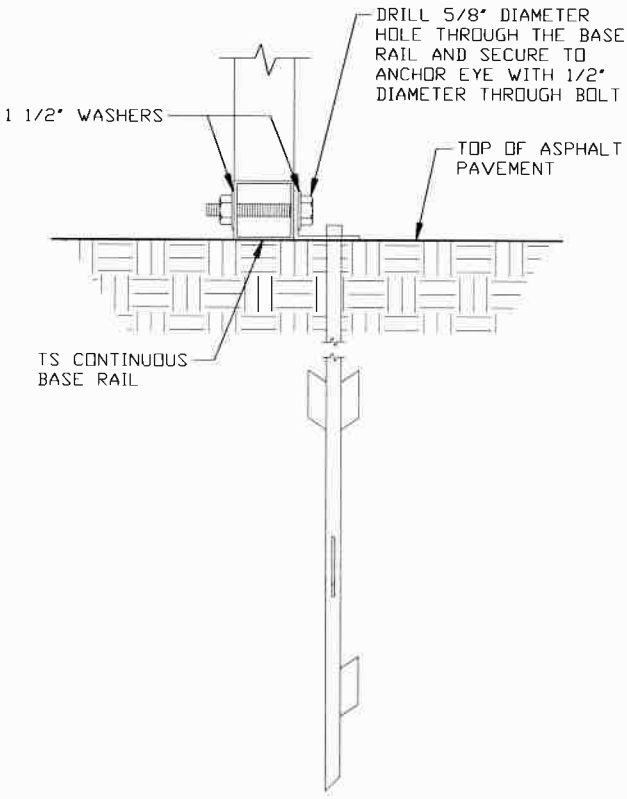

TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS




SECTION 1 / SK-9A

SCALE: NTS




2C ASPHALT BASE ANCHORAGE

SCALE: NTS

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PROJECT MGR: WSM
CLIENT: SBSI

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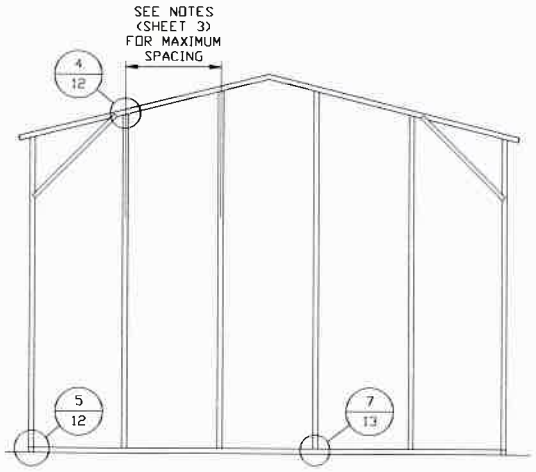
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

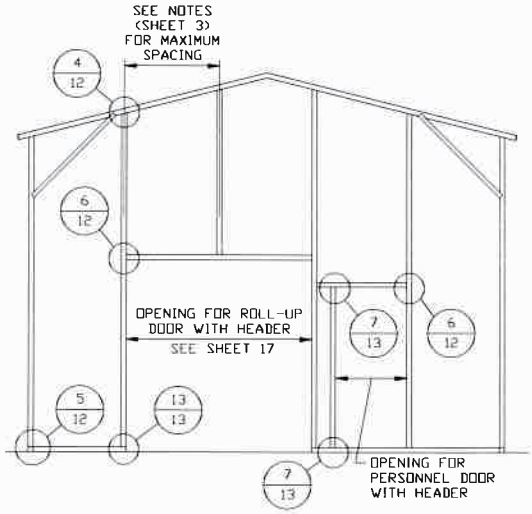
DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 9A | DWG. NO: SK-3 | REV.: 9

# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



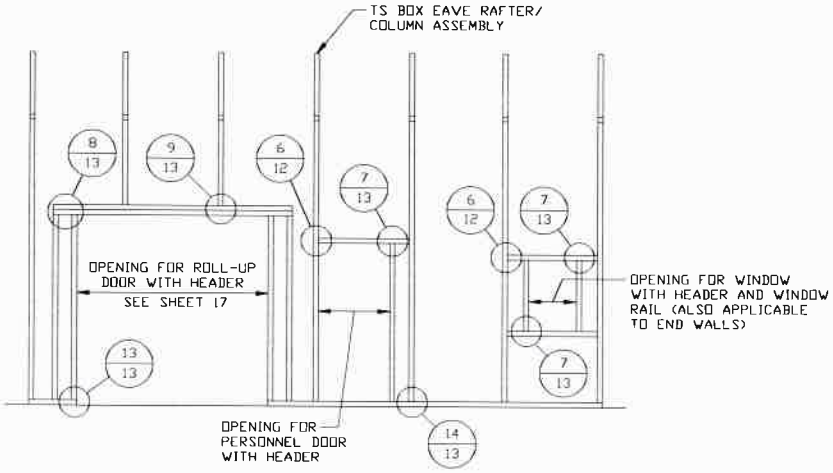

TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS




TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS




TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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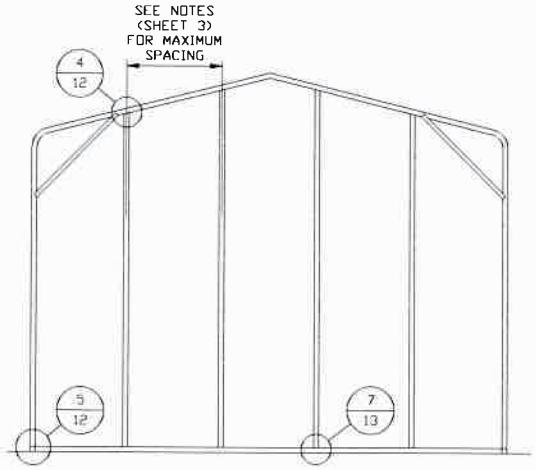
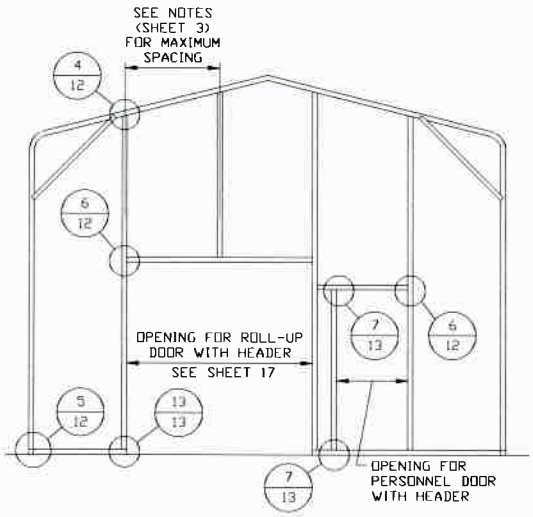
DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 10 | DWG. NO: SK-3 | REV.: 9

# BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



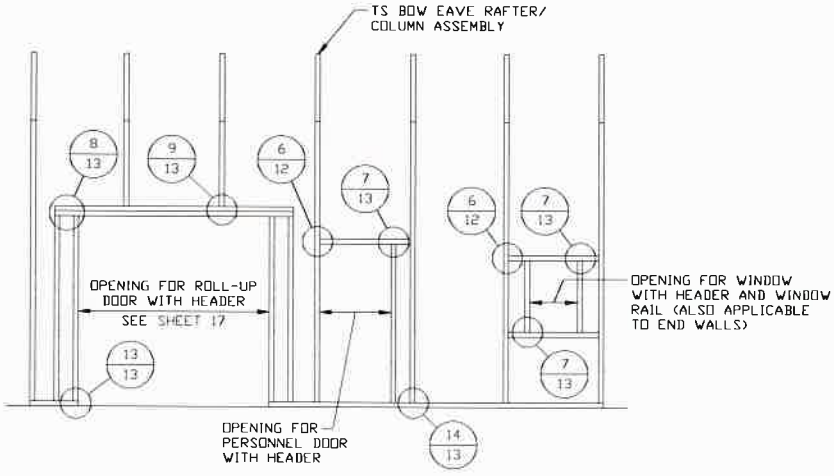

## TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS




## TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS




## TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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| | CHECKED BY: PDH | | | |
| | PROJECT MGR: WSM | DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S |
| | CLIENT: SBSI | SHT. 11 | DWG. NO: SK-3 | REV.: 9 |

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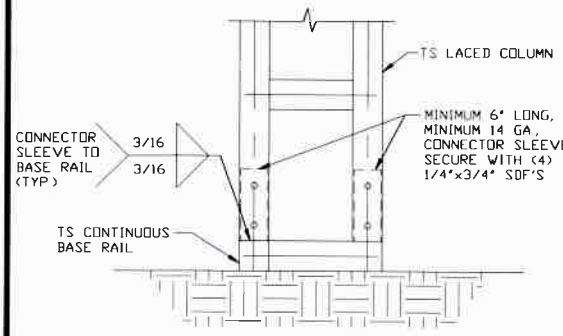
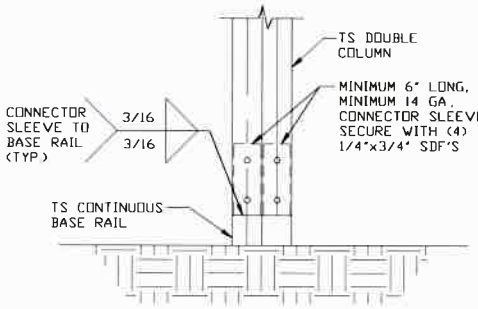
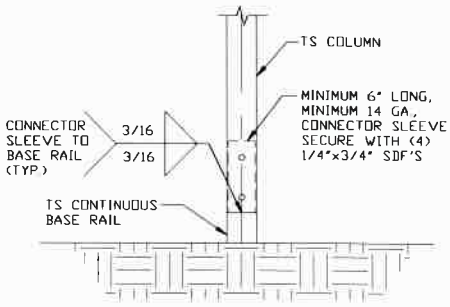
# CONNECTION DETAILS



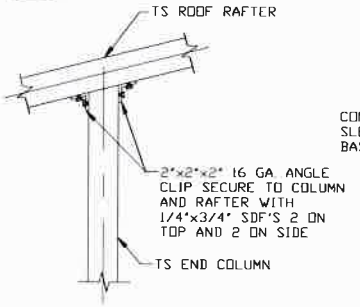

3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



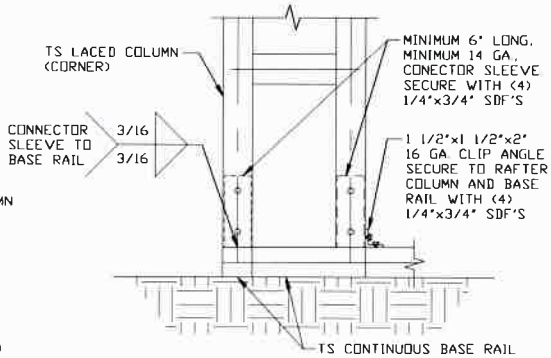

3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



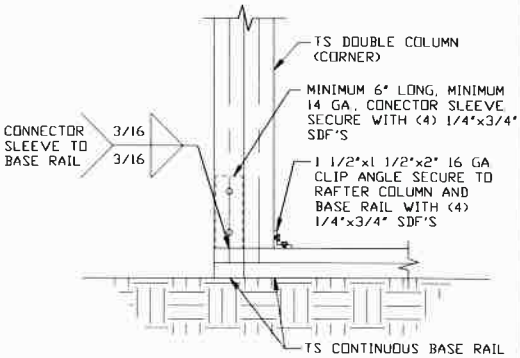

3B POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



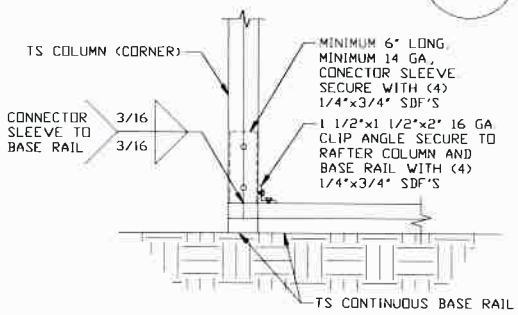

4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



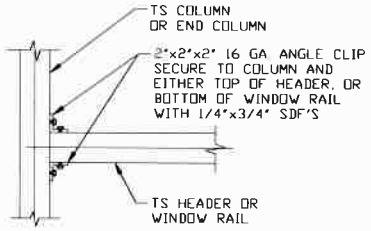

5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS




5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS




5B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS




6 COLUMN OR WINDOW RAIL/ WALL GIRT TO POST CONNECTION DETAIL
SCALE: NTS

WAYNE S. MOORE
LICENSE
No 57170
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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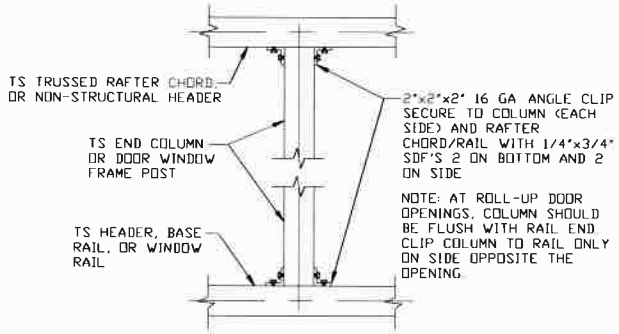
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

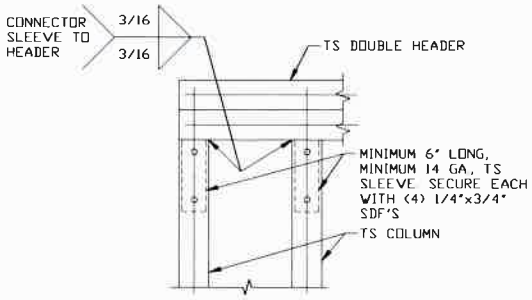
STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 12 | DWG. NO: SK-3 | REV.: 9

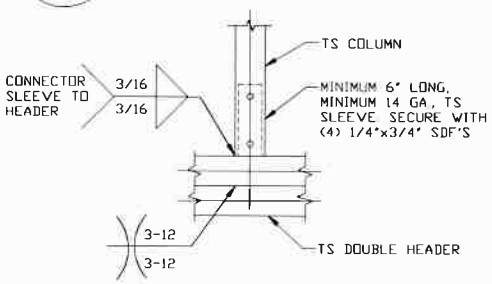
# CONNECTION DETAILS



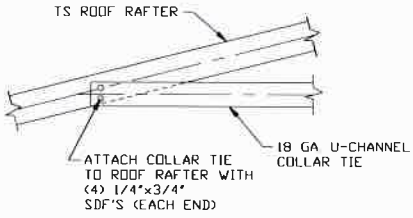

7 **COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL**
SCALE: NTS



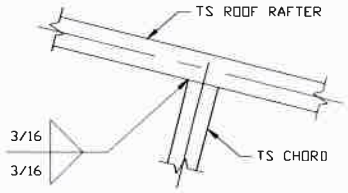

8 **DOUBLE HEADER/COLUMN CONNECTION DETAIL**
SCALE: NTS



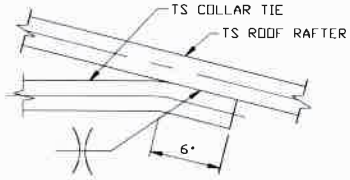

9 **COLUMN/DOUBLE HEADER CONNECTION DETAIL**
SCALE: NTS



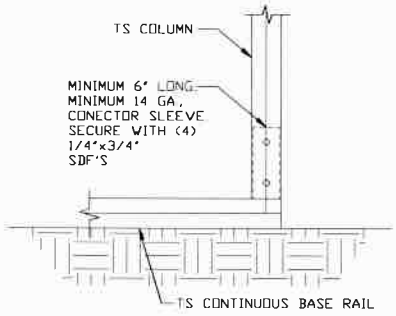

10 **COLLAR TIE CONNECTION DETAIL**
SCALE: NTS



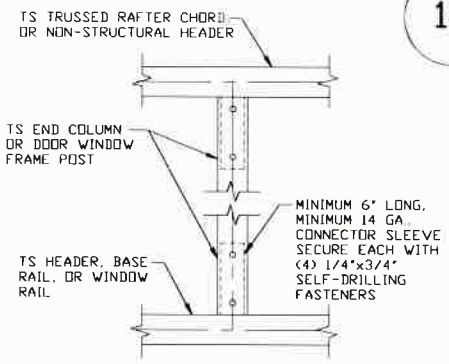

11 **RAFTER TO CHORD CONNECTION DETAIL**
SCALE: NTS




12 **COLLAR TIE CONNECTION DETAIL**
SCALE: NTS




13 **COLUMN/BASE RAIL CONNECTION DETAIL**
SCALE: NTS




14 **COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL**
SCALE: NTS

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| | CHECKED BY: PDH | | | |
| | PROJECT MGR: WSM | DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S |
| | CLIENT: SBSI | SHT. 13 | DWG. NO: SK-3 | REV.: 9 |

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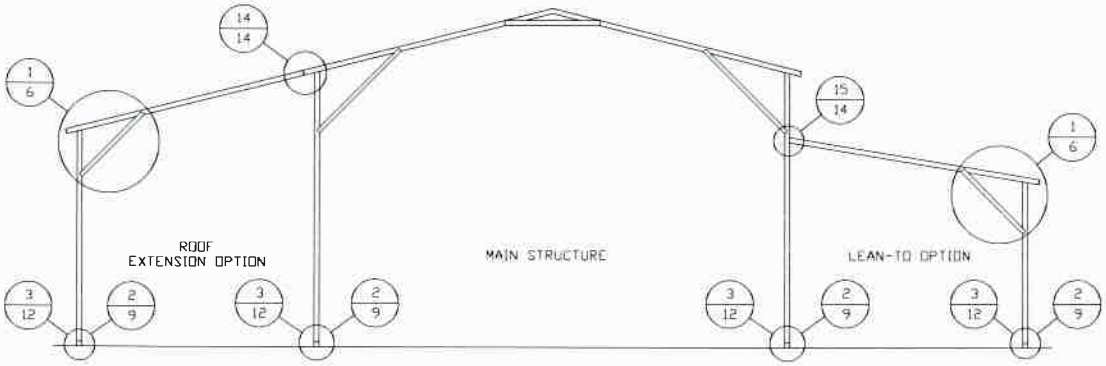
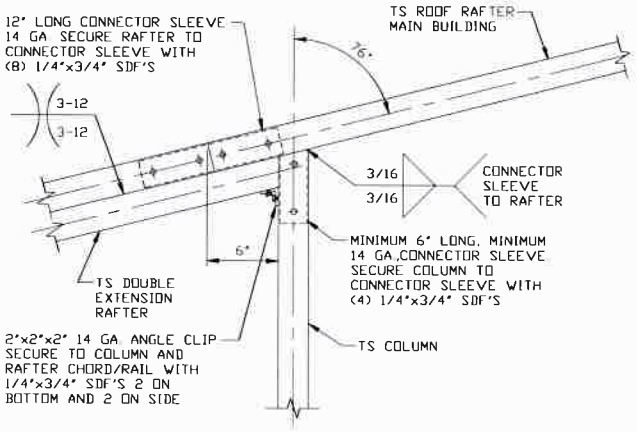
# BOX EAVE RAFTER LEAN-TO OPTIONS

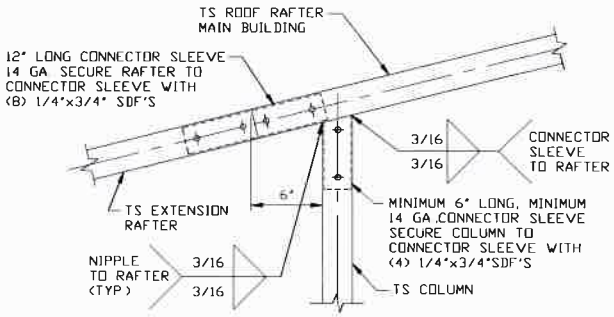



## TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

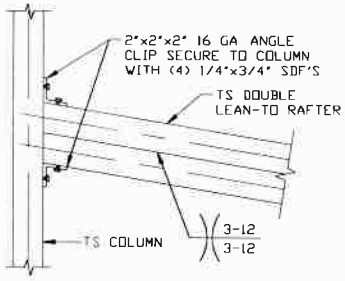
SCALE: NTS
MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0".
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0".
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0".
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



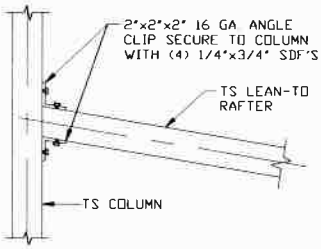

14 SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"
SCALE: NTS




14A SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS ≤ 12'-0"
SCALE: NTS




15 LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO ≤ 16'-0"
SCALE: NTS




15A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"
SCALE: NTS

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| | CHECKED BY: PDH | | | |
| | PROJECT MGR: WSM | DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S |
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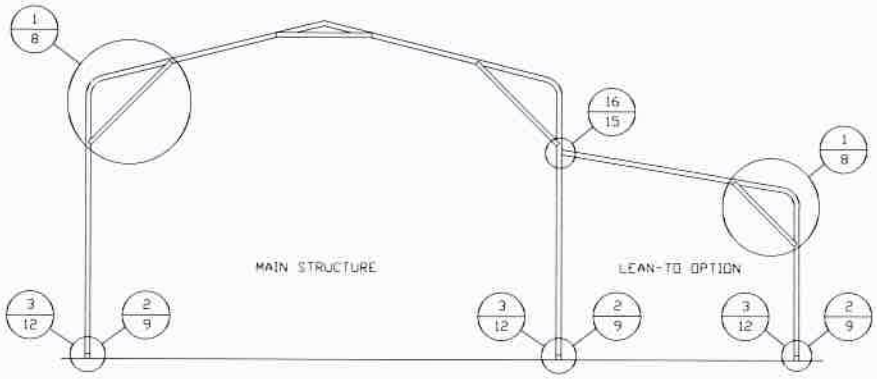
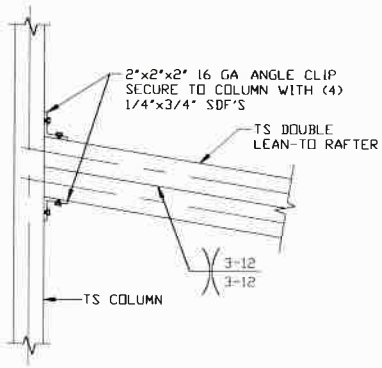
# BOW EAVE RAFTER LEAN-TO OPTIONS

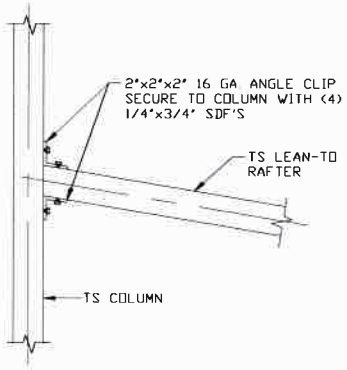



## TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS
MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0".
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0".
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0"
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.




16 LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO ≤ 16'-0"
SCALE: NTS




16A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"
SCALE: NTS

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LICENSE
No 57170
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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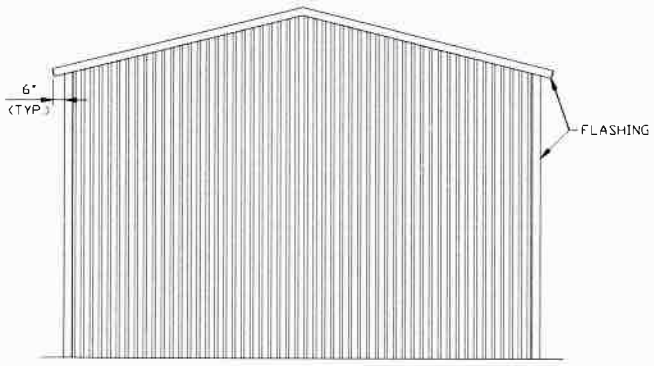
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

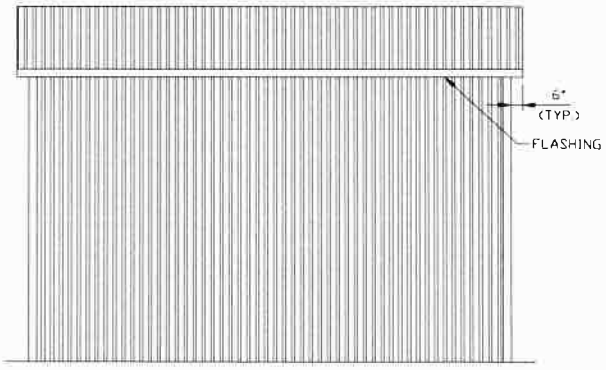
STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 15 | DWG. NO: SK-3 | REV.: 9

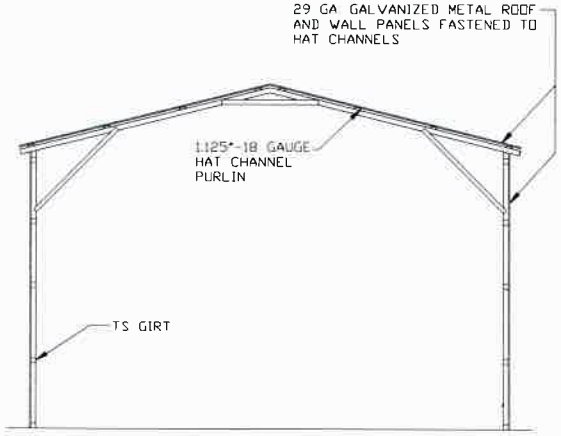
# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



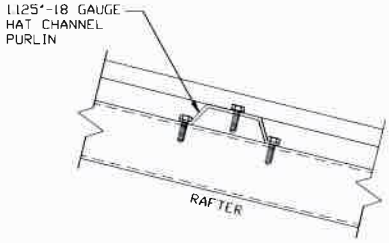

TYPICAL END ELEVATION
VERTICAL ROOF/SIDING
SCALE: NTS



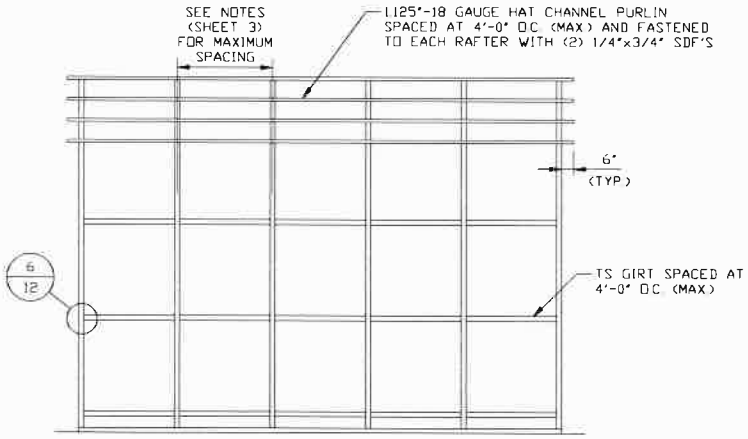

TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING
SCALE: NTS




TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS




PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS




TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS

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| | CHECKED BY: PDH | | | |
| | PROJECT MGR: WSM | DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S |
| | CLIENT: SBSI | SHT. 16 | DWG. NO: SK-3 | REV.: 9 |

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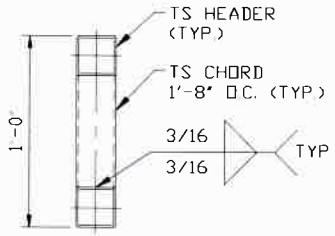
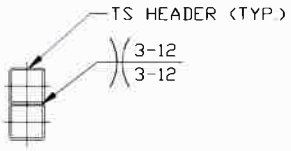
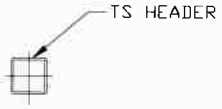
# SIDE WALL HEADER OPTIONS




LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH ≤ 20'-0"
SCALE: NTS

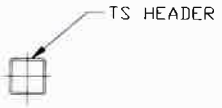



DOUBLE HEADER DETAIL FOR DOOR OPENINGS 7'-0" < LENGTH ≤ 12'-0"
SCALE: NTS

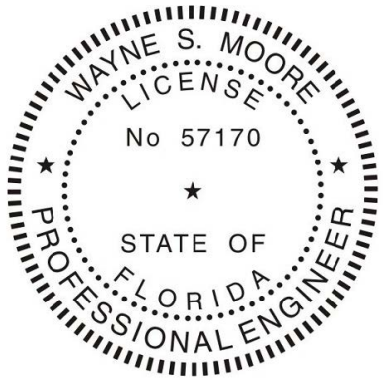



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH ≤ 7'-0"
SCALE: NTS

# END WALL HEADER OPTIONS




SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH ≤ 12'-0"
SCALE: NTS

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|---|---|---|---|---|
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| | CHECKED BY: PDH | | | |
| | PROJECT MGR: WSM | DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S |
| | CLIENT: SBSI | SHT. 17 | DWG. NO: SK-3 | REV.: 9 |

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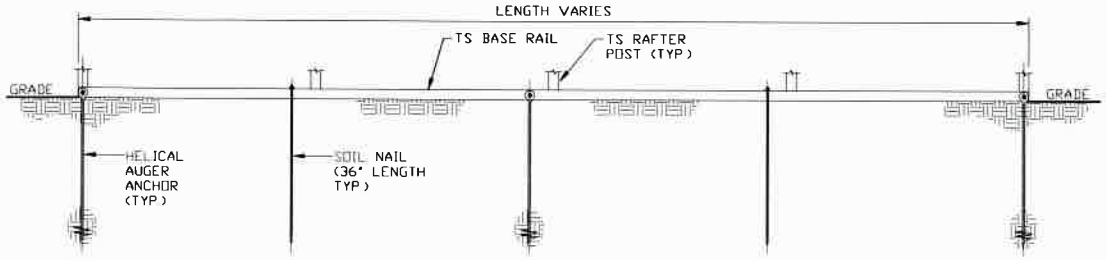
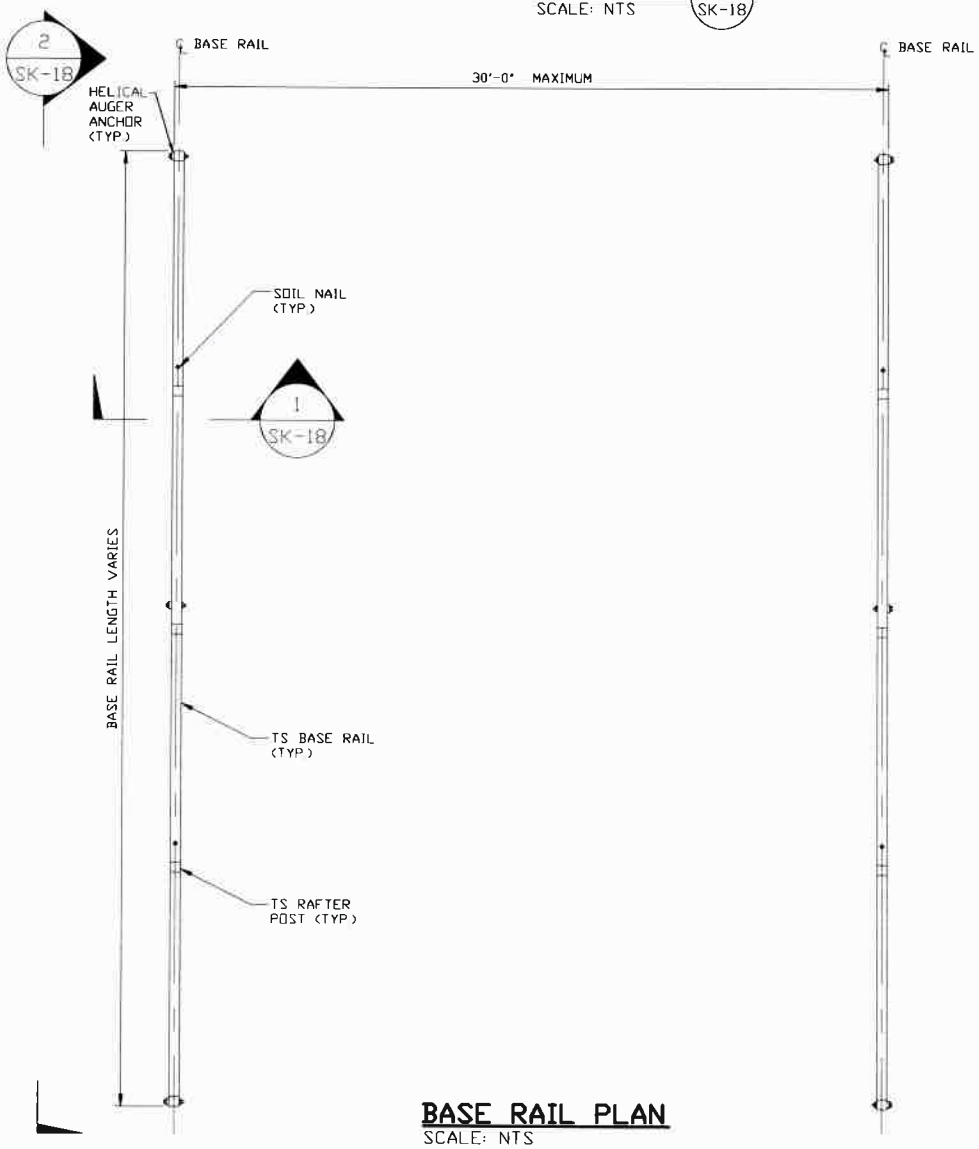
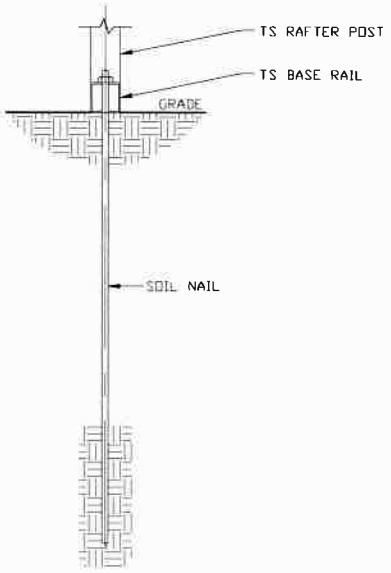
# OPTIONAL BASE RAIL ON GRADE APPLICATION




SECTION 2/SK-18
SCALE: NTS

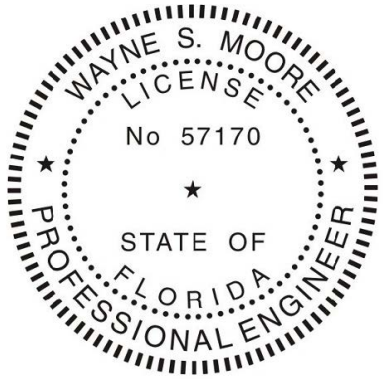



BASE RAIL PLAN
SCALE: NTS




SECTION 1/SK-18
SCALE: NTS

| HELIX ANCHOR | |
|---|---|
| SIDE LENGTH | MAXIMUM SPACING |
| VARIES | 10'-0" (EVERY OTHER POST) |

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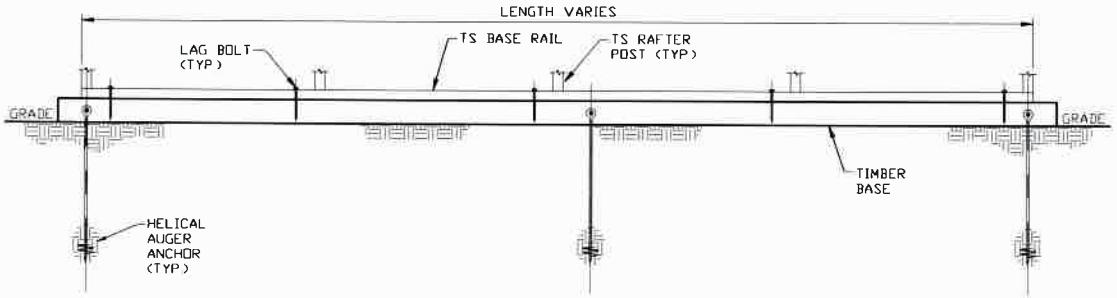
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

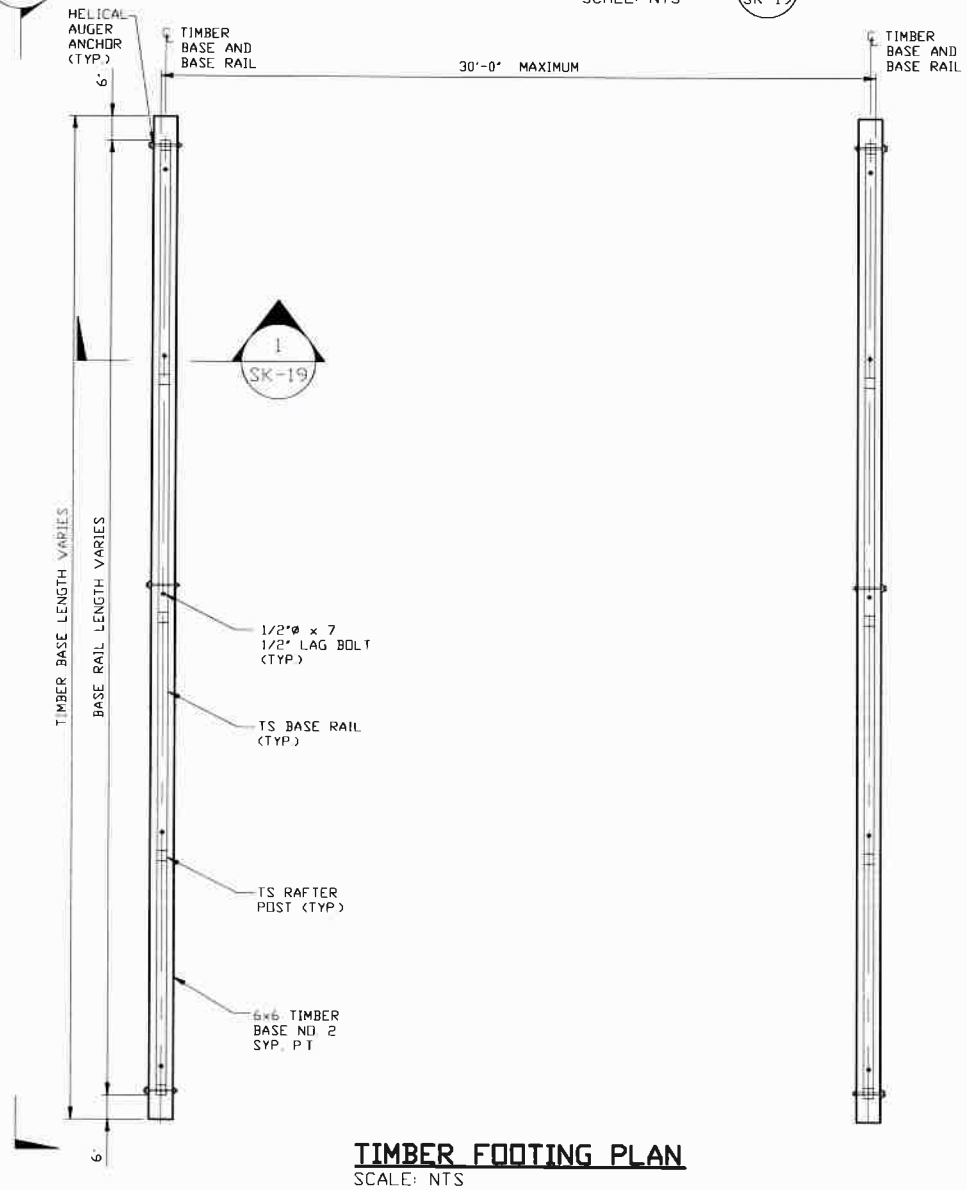
STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 18 | DWG. NO: SK-3 | REV.: 9

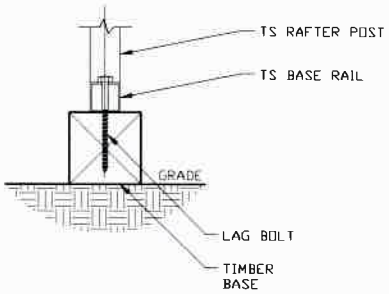
# OPTIONAL BASE RAIL ON TIMBER BEAM




SECTION 2 / SK-19
SCALE: NTS




TIMBER FOOTING PLAN
SCALE: NTS




SECTION 1 / SK-19
SCALE: NTS

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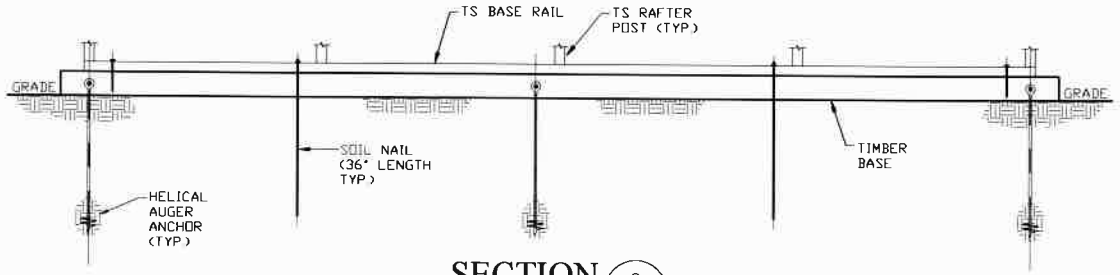
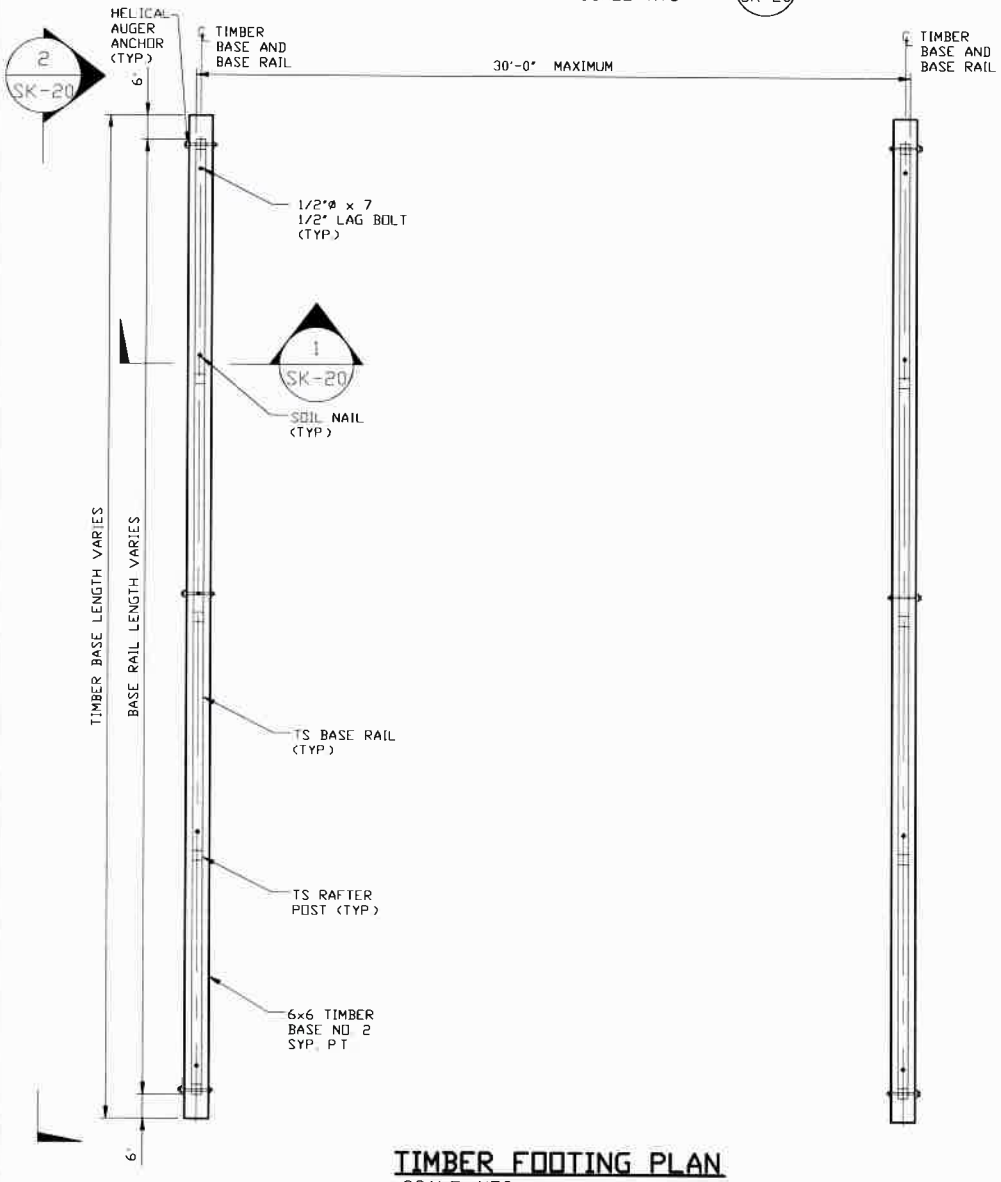
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 19 | DWG. NO: SK-3 | REV.: 9

# OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL




SECTION 2 / SK-20
SCALE: NTS




TIMBER FOOTING PLAN
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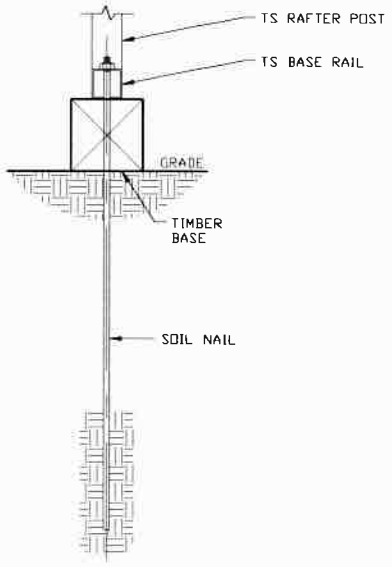


SECTION 1 / SK-20
SCALE: NTS

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|---|---|
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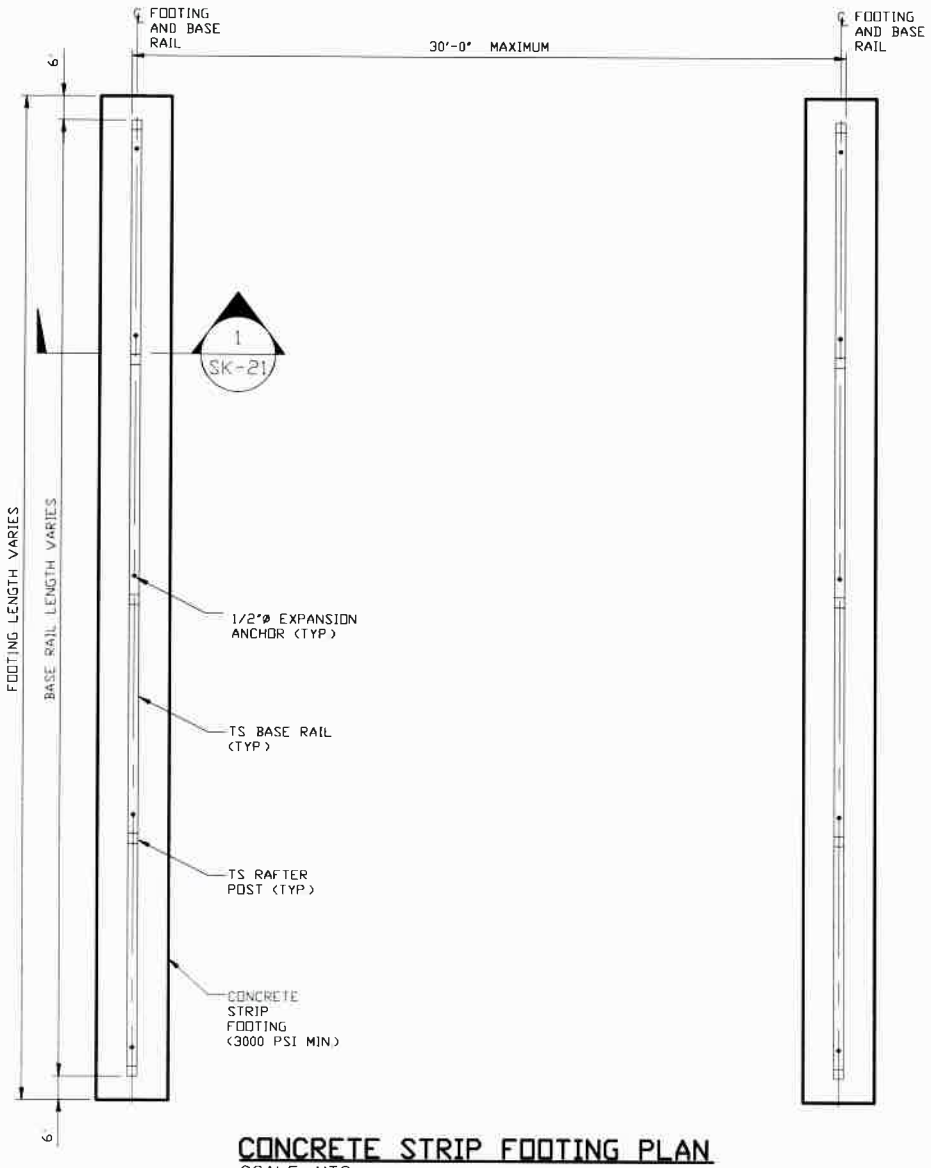
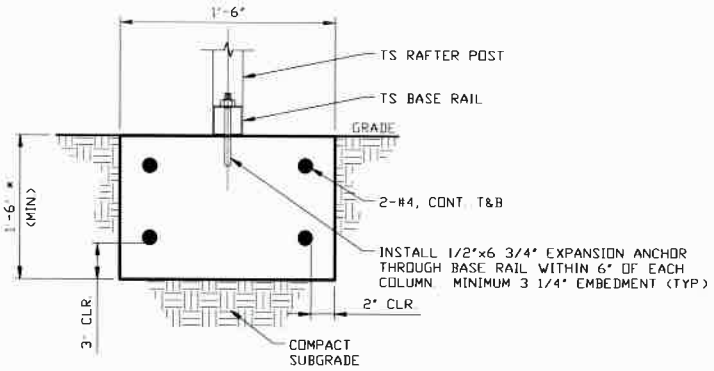
SHT. 20 | DWG. NO: SK-3 | REV.: 9

# OPTIONAL CONCRETE STRIP FOOTING




## CONCRETE STRIP FOOTING PLAN

SCALE: NTS




## SECTION 1/SK-21

SCALE: NTS

* COORDINATE WITH LOCAL CODES/ORD.

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LICENSE
No 57170
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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