



STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 30'- 0" WIDE X 16'- 0" HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

12 June 2020

Revision 6

M&A Project No. 17232S/18070S/18094S/19050S/20127S

Prepared for:

**Steel Building Garages
1804 River Street
Wilkesboro, NC 28697**

Prepared by:

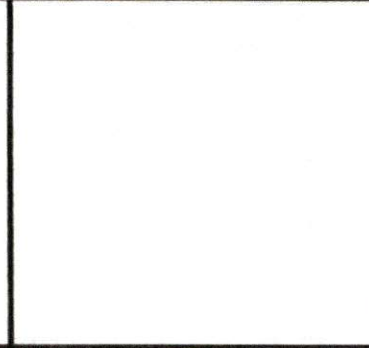
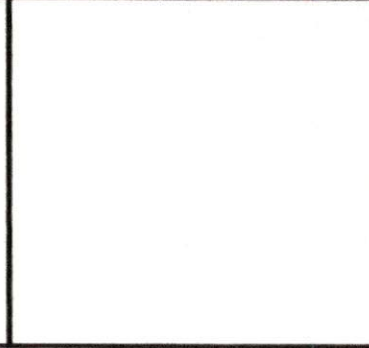
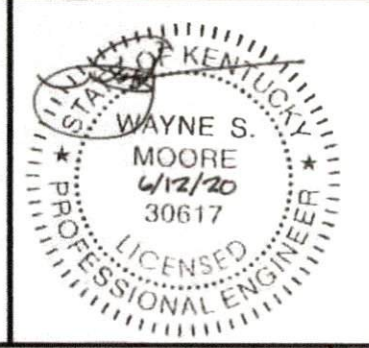
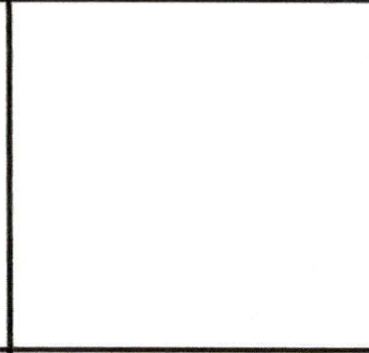
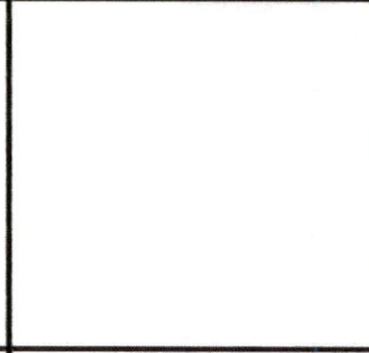
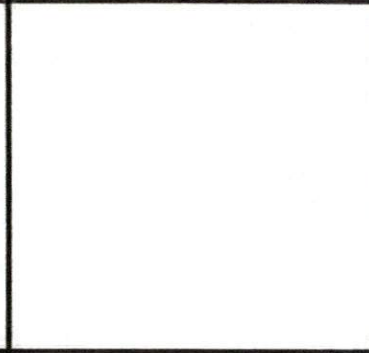
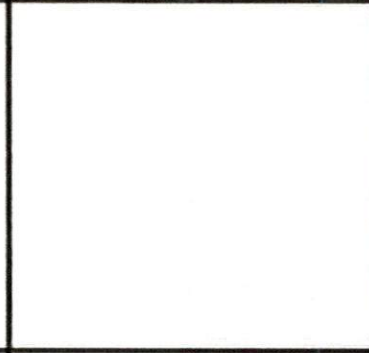
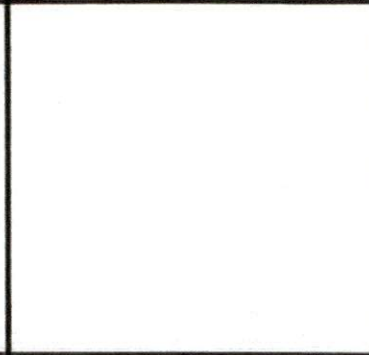
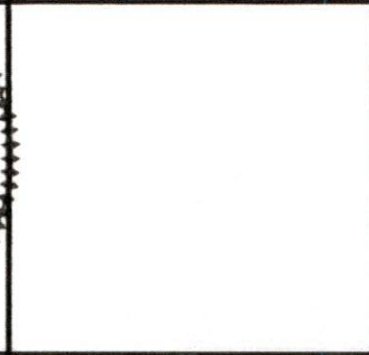
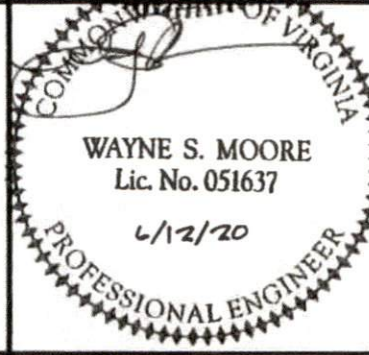
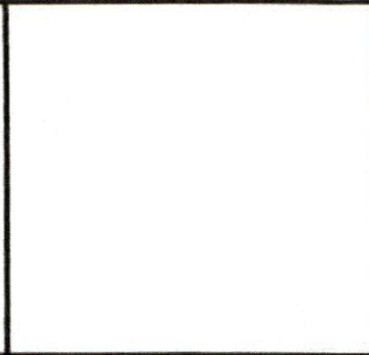
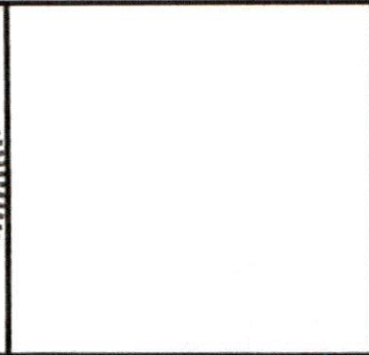
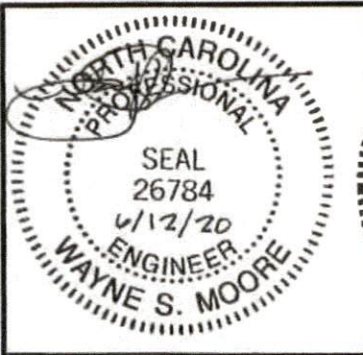
Moore and Associates Engineering and Consulting, Inc.

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

**401 S. Main Street, Suite 200
Mount Airy, NC 27030**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT
CHECKED BY: PDH

STEEL BUILDING GARAGES
1804 RIVER STREET
WILKESBORO, NC 28697
30'-0"x16'-0" ENCLOSED BUILDING

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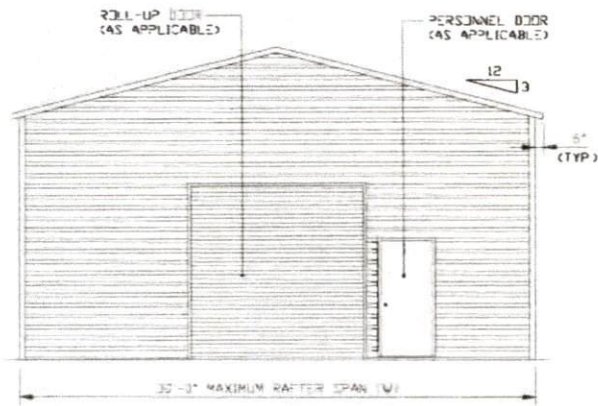
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CLIENT: SBG

DATE: 6-12-20
SCALE: NTS
JOB NO: 17232S/18070S/
18094S/19050S/20127S
SHT: 1
DWG. NO: SK-3
REV: 6

INSTALLATION NOTES AND SPECIFICATIONS

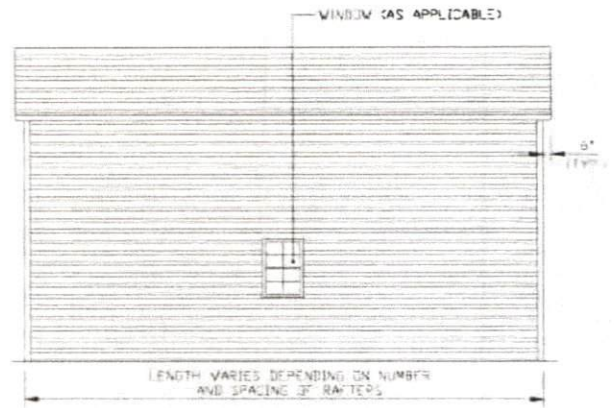
- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 15'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC AND 2018 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF (MAXIMUM 45 PSF AT 4'-0" OC RAFTER/POST SPACING)
 = 35 PSF < TO ≤ 45 PSF WITH TS COLLAR TIE (W < 24'-0")
 = 30 PSF WITH U-CHANNEL PEAK BRACE (W < 24'-0")
 (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
- 4 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = 105 TO 150 MPH (NOMINAL WIND SPEED = 81 TO 116 MPH)
- 5 MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS/POSTS ARE EQUIVALENT TO SIDE WALL COLUMNS/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" x 3" - 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) = 10" OC (MAX)
- 11 FASTENERS CONSIST OF #12-14x3/4" 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 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
- 13 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG AND MAY ONLY BE USED IN CONJUNCTION WITH OTHER (OPTIONAL) ANCHOR DEVICES AND ONLY IN SUITABLE SOILS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED SOIL NAILS MAY ONLY BE USED FOR WIND SPEEDS < 145 MPH COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:
 SOIL SITE CLASS = D
 RISK CATEGORY I
 $R = 325$ $I_E = 10$
 $S_{ps} = 2039 g$ $V = C_s W$
 $S_{01} = 1258 g$
- 15 APPLY LAP SEALANT TO METAL ROOF PANELS FOR 1:12 ROOF SLOPE

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING GARAGES 1804 RIVER STREET WILKESBORO, NC 28697 30'-0" x 16'-0" ENCLOSED BUILDING		
	CHECKED BY: PDH			
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	CLIENT: SBG	SHT. 3	DWG. NO: SK-3	REV: 6



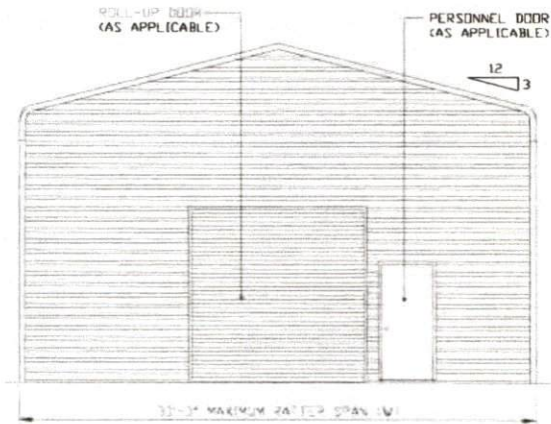
TYPICAL END ELEVATION

SCALE: NTS



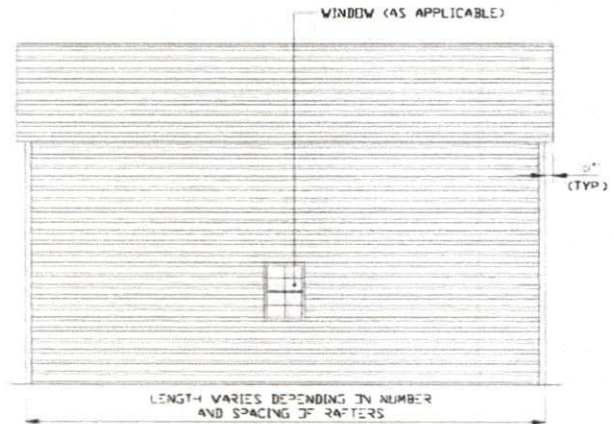
TYPICAL SIDE ELEVATION

SCALE: NTS



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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STEEL BUILDING GARAGES
1804 RIVER STREET
WILKESBORO, NC 28697
30'-0" x 16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 4

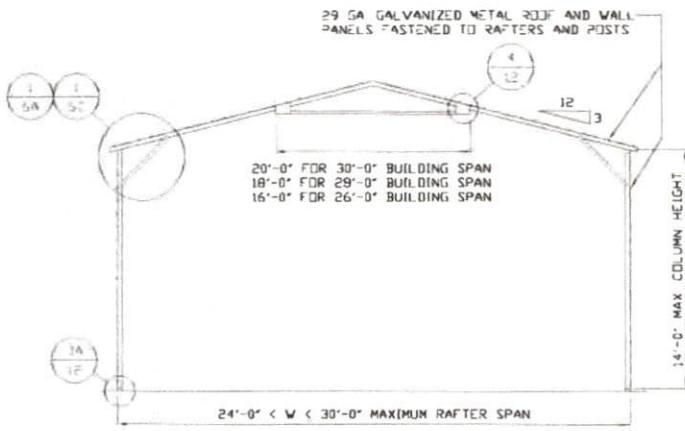
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DWG. NO: SK-3

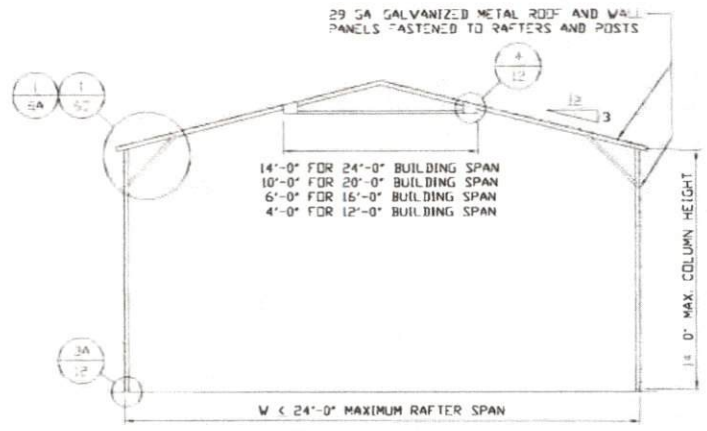
JOB NO: 17232S/18070S/
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REV: 6

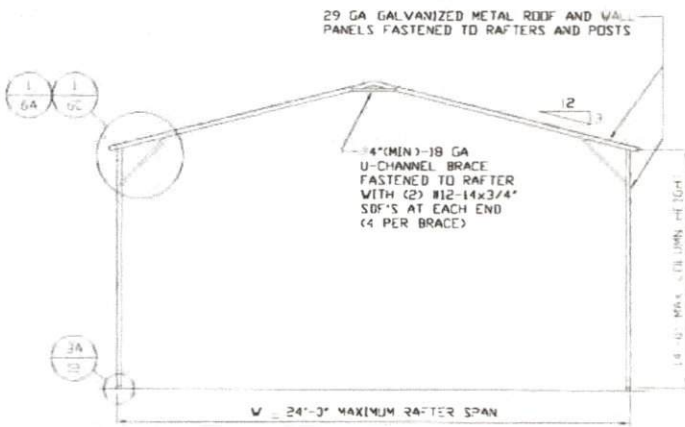
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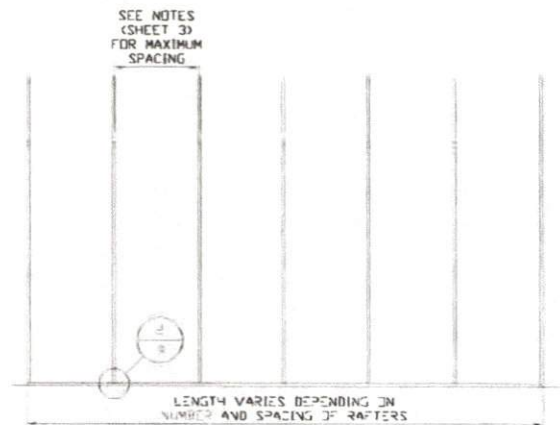
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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STEEL BUILDING GARAGES

1804 RIVER STREET

WILKESBORO, NC 28697

30'-0"x16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 5A

SCALE: NTS

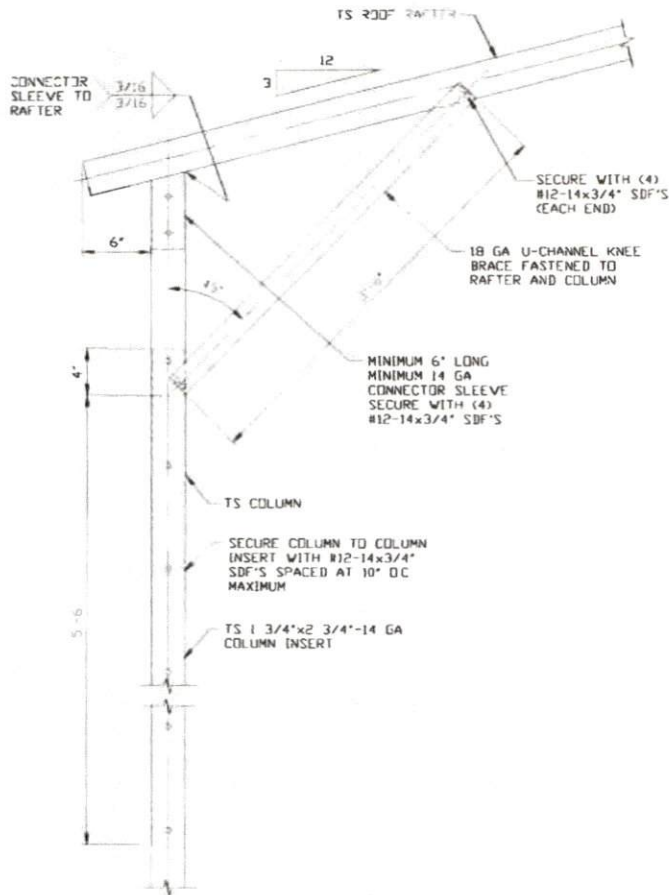
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JOB NO: 17232S/18070S/
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REV: 6

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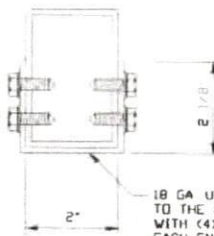
COLUMN CONNECTION DETAILS FOR WIND SPEEDS 105 < TO ≤ 150 MPH



1A

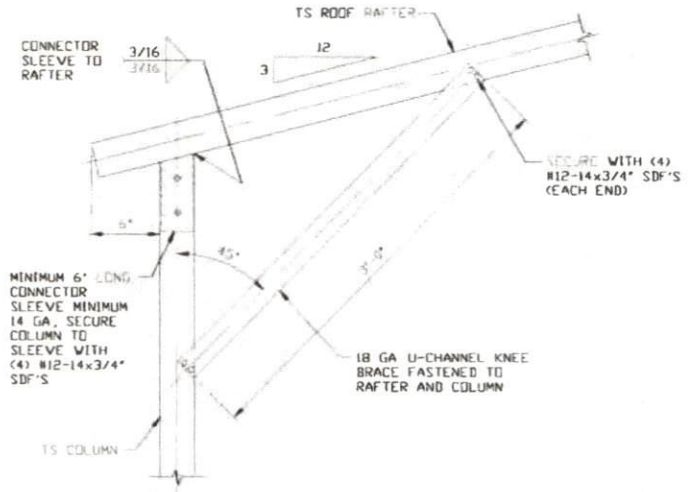
BOX EAVE RAFTER COLUMN CONNECTION DETAIL
HEIGHTS 10'-0" < TO ≤ 14'-0"

SCALE NTS



BRACE SECTION

SCALE NTS



1B

BOX EAVE RAFTER COLUMN CONNECTION DETAIL
HEIGHTS ≤ 10'-0"

SCALE NTS

NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS ≤ 26'-0"

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WILKESBORO, NC 28697
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SHT. 6A

SCALE: NTS

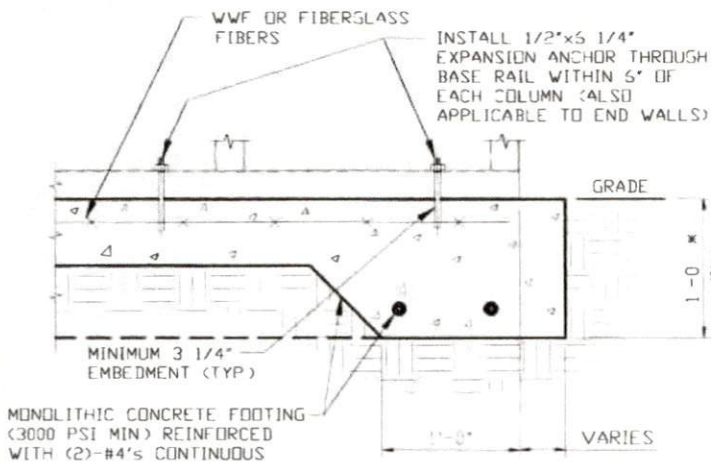
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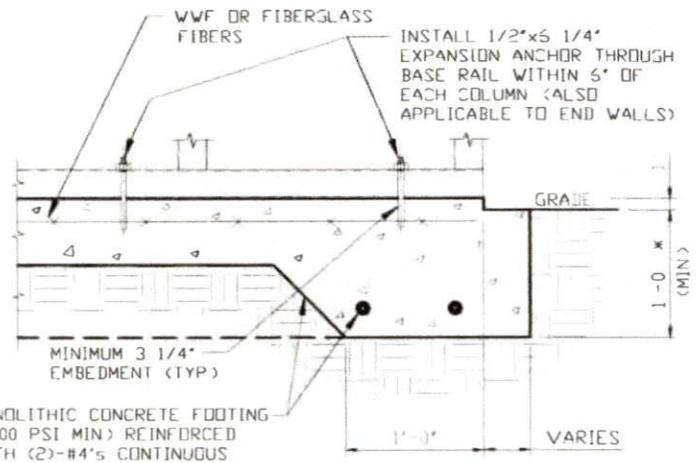
BASE RAIL ANCHORAGE OPTIONS



2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
NOTE: MIN ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH



2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE WITH NOTCH

SCALE: NTS
NOTE: MIN ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH

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:

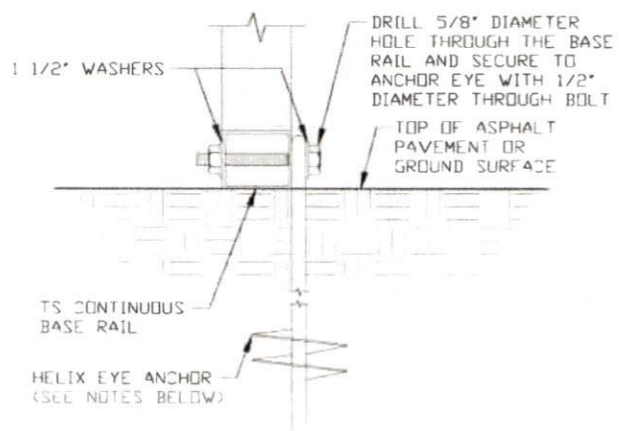
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE SO THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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 LOOSE 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)
* COORDINATE WITH LOCAL CODES/ORD
REGARDING MIN FROST DEPTH (LENGTH)

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CLIENT: SBG

STEEL BUILDING GARAGES

1804 RIVER STREET
WILKESBORO, NC 28697

30'-0" x 16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 9

SCALE: NTS

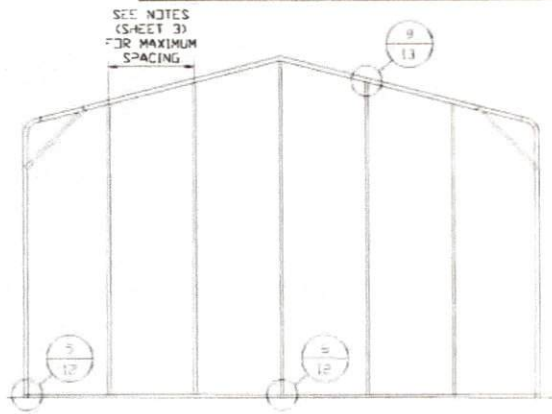
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REV: 6

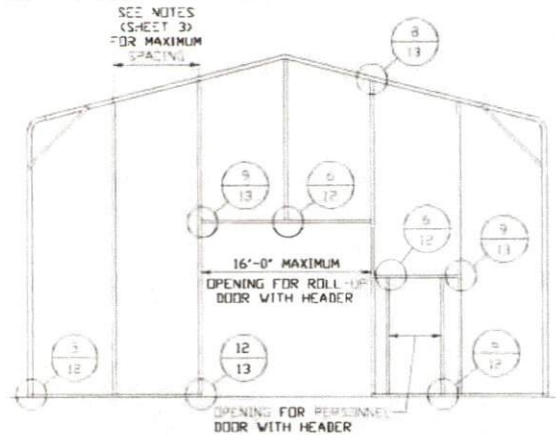
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



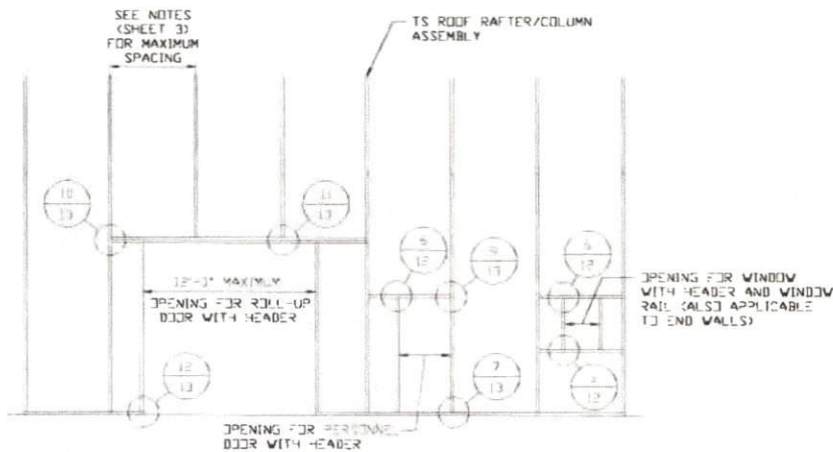
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



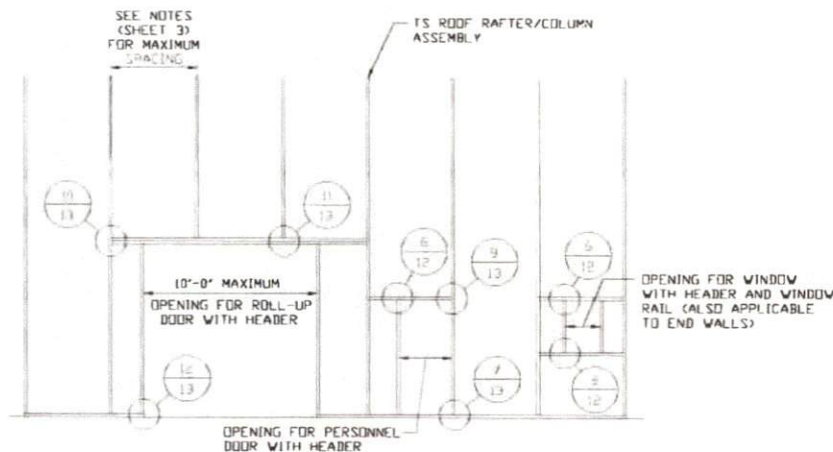
TYPICAL BOW EAVE RAFTER END WALL OPENING FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION FOR GROUND SNOW LOADS ≤ 35 PSF

SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION FOR GROUND SNOW LOADS 35 PSF < TO ≤ 45 PSF

SCALE: NTS

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STEEL BUILDING GARAGES

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30'-0" x 16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 11

SCALE: NTS

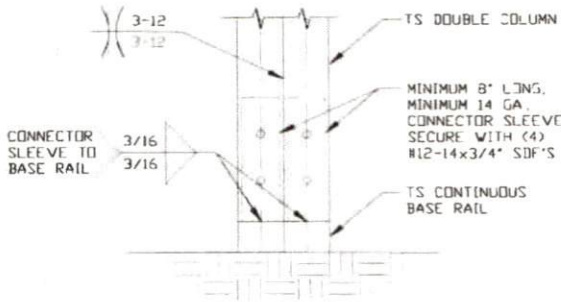
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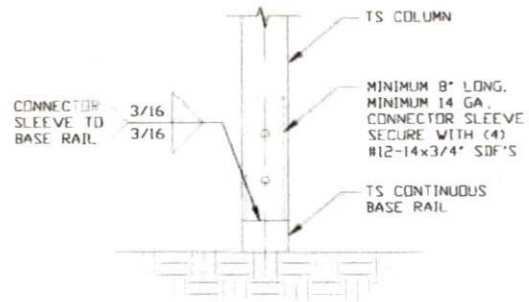
CONNECTION DETAILS



3

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

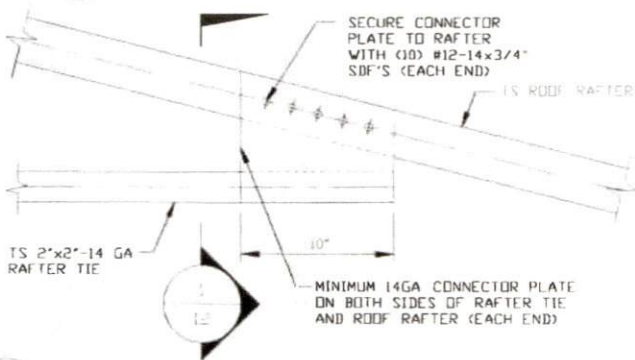
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3A

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

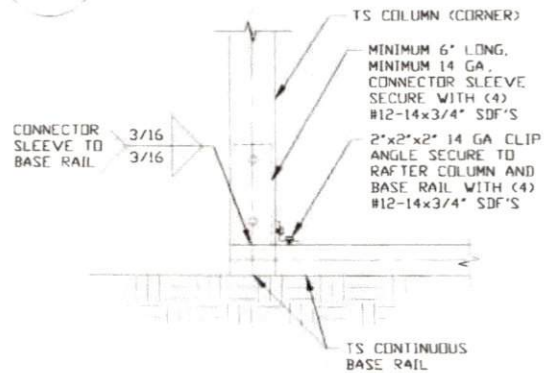
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4

ROOF RAFTER TIE CONNECTION DETAIL

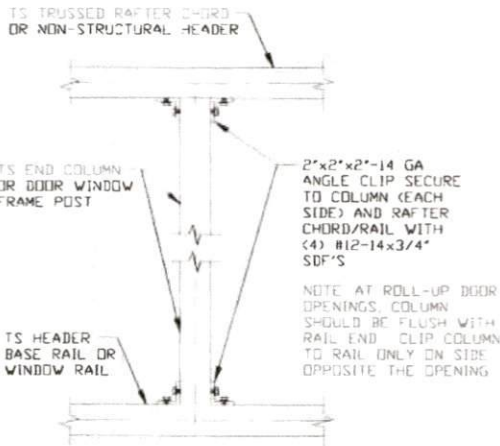
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5

END COLUMN/BASE RAIL CONNECTION DETAIL

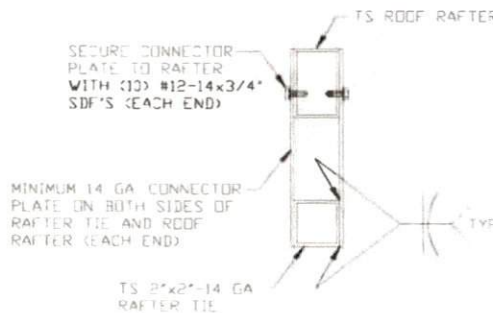
SCALE: NTS



6

COLUMN TO WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



1

SECTION

SCALE: NTS

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STEEL BUILDING GARAGES
1804 RIVER STREET
WILKESBORO, NC 28697
30'-0" x 16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 12

SCALE: NTS

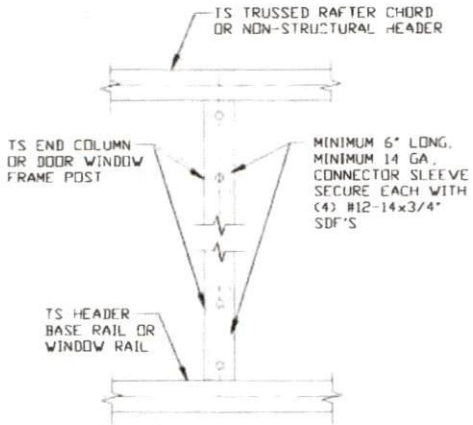
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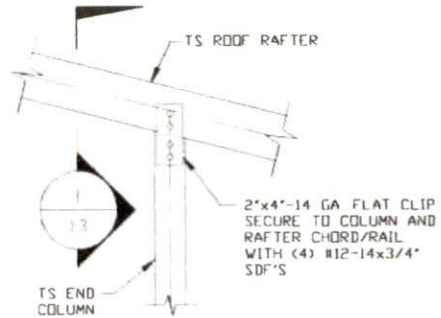
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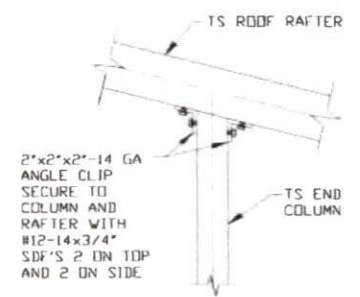
CONNECTION DETAILS



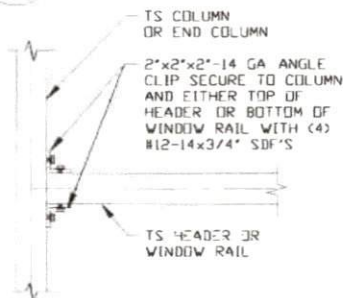
7 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS



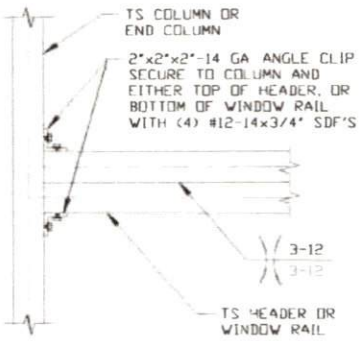
8 RAFTER TO POST CONNECTION DETAIL
SCALE: NTS



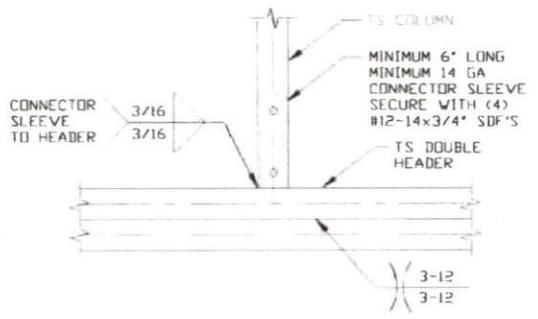
8A RAFTER TO POST CONNECTION DETAIL
SCALE: NTS



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



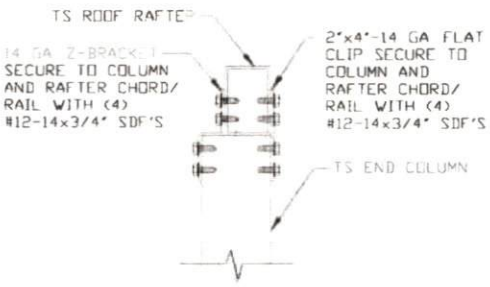
10 DOUBLE HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS



11 COLUMN TO DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



12 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



1 SECTION
SCALE: NTS

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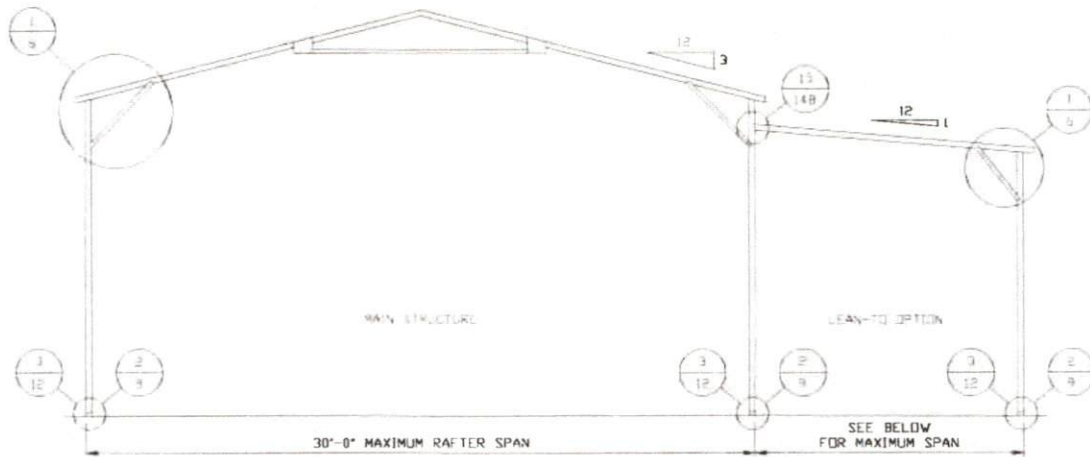
DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBG

STEEL BUILDING GARAGES
1804 RIVER STREET
WILKESBORO, NC 28697
30'-0" x 16'-0" ENCLOSED BUILDING

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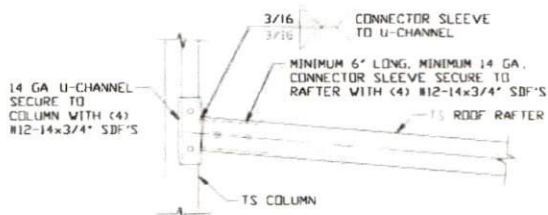
DATE: 6-12-20
SHT. 13
SCALE: NTS
DWG. NO: SK-3
JOB NO: 17232S/18070S/
18094S/19050S/20127S
REV: 6

BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

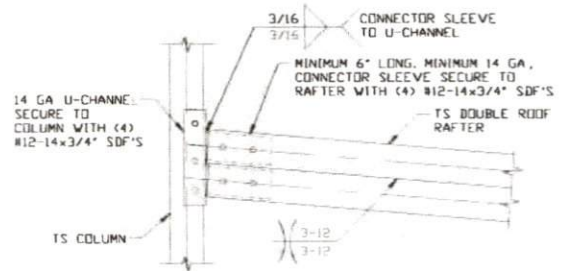
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LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 11'-0''$

15

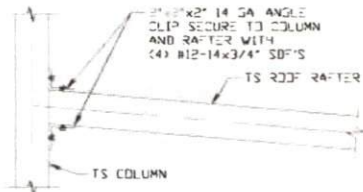
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LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $11'-0'' < \text{TO} \leq 15'-0''$

15A

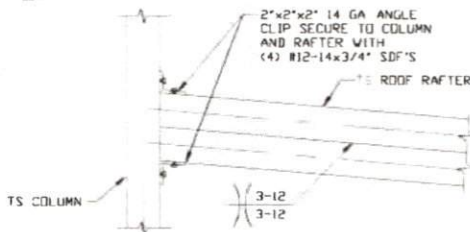
SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 11'-0''$

15B

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $11'-0'' < \text{TO} \leq 15'-0''$

15C

SCALE: NTS

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STEEL BUILDING GARAGES

1804 RIVER STREET

WILKESBORO, NC 28697

30'-0"X16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 14B

SCALE: NTS

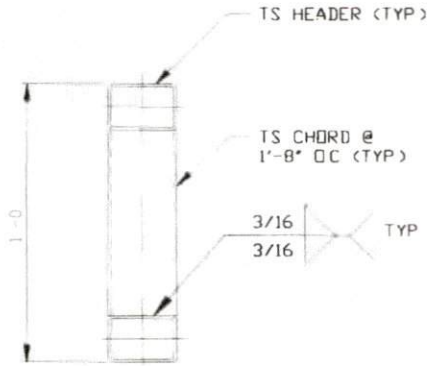
DWG. NO: SK-3

JOB NO: 17232S/18070S/
18094S/19050S/20127S

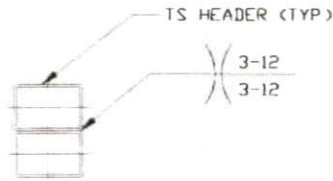
REV: 6

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SIDE WALL HEADER OPTIONS 35 < TO ≤ 45 PSF



HEADER DETAIL FOR SPANS 9'-0" < TO ≤ 16'-0"
SCALE: NTS

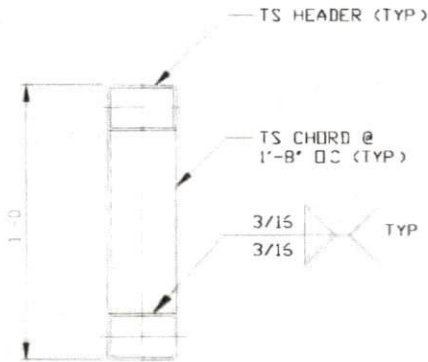


HEADER DETAIL FOR SPANS 6'-0" < TO ≤ 9'-0"
SCALE: NTS

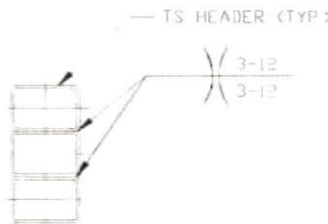


HEADER DETAIL FOR SPANS ≤ 6'-0"
SCALE: NTS

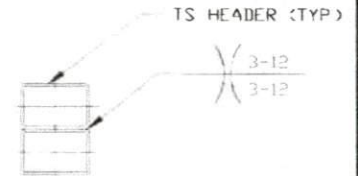
SIDE WALL HEADER OPTIONS ≤ 35 PSF



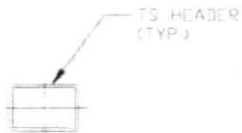
HEADER DETAIL FOR SPANS 15'-0" < TO ≤ 16'-0"
SCALE: NTS



HEADER DETAIL FOR SPANS 11'-0" < TO ≤ 15'-0"
SCALE: NTS



HEADER DETAIL FOR SPANS 7'-0" < TO ≤ 11'-0"
SCALE: NTS



HEADER DETAIL FOR SPANS ≤ 7'-0"
SCALE: NTS

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CLIENT: SBG

STEEL BUILDING GARAGES
1804 RIVER STREET
WILKESBORO, NC 28697
30'-0" x 16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 17

SCALE: NTS

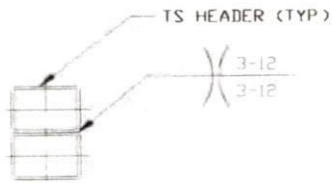
DWG. NO: SK-3

JOB NO: 17232S/18070S/
18094S/19050S/20127S

REV: 6

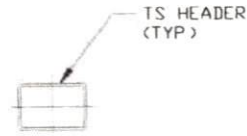
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END WALL HEADER OPTIONS



**HEADER DETAIL FOR
SPANS 13'-0" < TO ≤ 16'-0"**

SCALE: NTS



**HEADER DETAIL
FOR SPANS ≤ 13'-0"**

SCALE: NTS

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CLIENT: SBG

STEEL BUILDING GARAGES

1804 RIVER STREET

WILKESBORO, NC 28697

30'-0" x 16'-0" ENCLOSED BUILDING

DATE: 6-12-20

SHT. 18

SCALE: NTS

DWG. NO: SK-3

**JOB NO: 17232S/18070S/
18094S/19050S/20127S**

REV: 6

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