

STRUCTURAL DESIGN

STANDARD PACKAGE

ENCLOSED BUILDING

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

21 April 2021

Revision 3

M&A Project No. 16220S/17311S/18104S/21015S

Prepared for:

**USA Steel Buildings, Inc.
210 Airport Road
Mount Airy, NC 27030**

Prepared by:

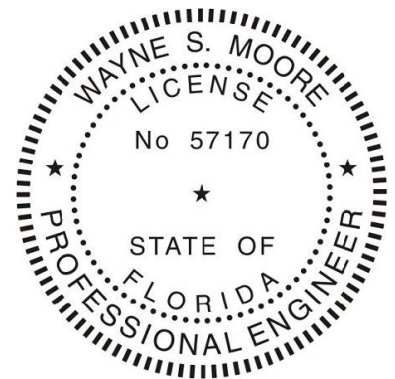
**Moore and Associates Engineering
and Consulting, Inc.**

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

**401 South Main Street, Suite 200
Mount Airy, NC 27030**



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING



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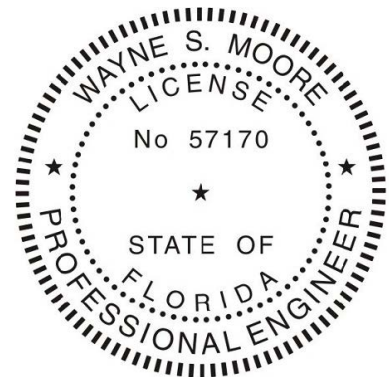
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: AT		USA STEEL BUILDINGS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30'-0"x16'-0" SP ENCLOSED STRUCTURE		
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	CLIENT: USA STEEL		SHT. 1	DWG. NO: SK-3	REV: 3

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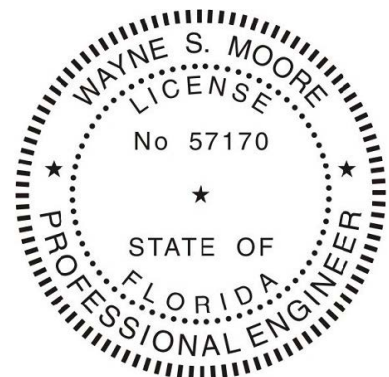
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	CLIENT: USA STEEL	SHT. 2	DWG. NO: SK-3	REV: 3

DRAWING INDEX (CONT.)

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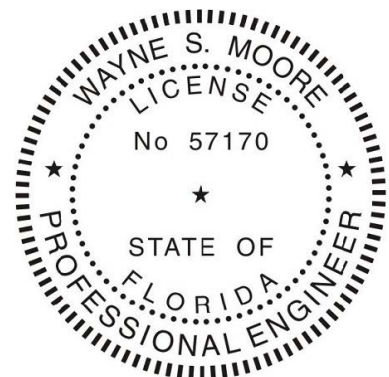
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	CLIENT: USA STEEL	SHT. 2A	DWG. NO: SK-3	REV: 3	

INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 0 PSF
4. 3-SECOND GUST ULTIMATE WIND SPEED V_{ULT} (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET.
5. 3-SECOND GUST ULTIMATE WIND SPEED V_{ULT} (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET.
6. END WALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B/C.
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 FOR LOW WIND. 2 1/4" x 2 1/4" - 12 GAUGE TS MAY BE USED AS AN OPTION FOR LOW WIND. USE 2 1/4" x 2 1/4" - 12 GAUGE TS FOR HIGH WIND.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR DISTANCE OR EDGE DISTANCE) = 10" O.C. (MAX.) FOR LOW WIND AND 6" O.C. (MAX.) FOR HIGH WIND.
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 AT OR WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES. STRUCTURE MUST HAVE AN ANCHOR AT EVERY 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 FOR WIND SPEEDS ≤ 145 MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS FOR WIND SPEEDS > 145 MPH AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 SOIL SITE CLASS = D
 RISK CATEGORY I
 $R = 3.25$ $I_E = 1.0$
 $S_{DS} = 2.039$ $V = C_{SW}$
 $S_{DI} = 1.258$



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CLIENT: USA STEEL

USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE

DATE: 4-21-21

SCALE: NTS

**JOB NO: 16220S/
18104S/21015S**

SHT. 3

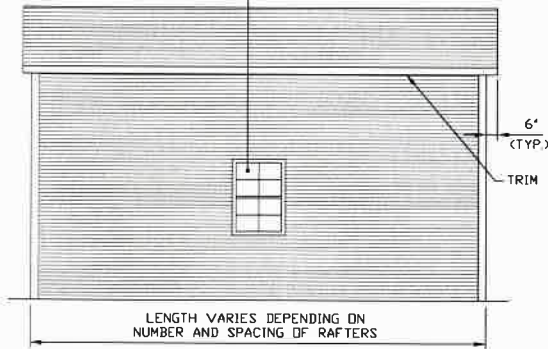
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BOX EAVE FRAME RAFTER STRUCTURE

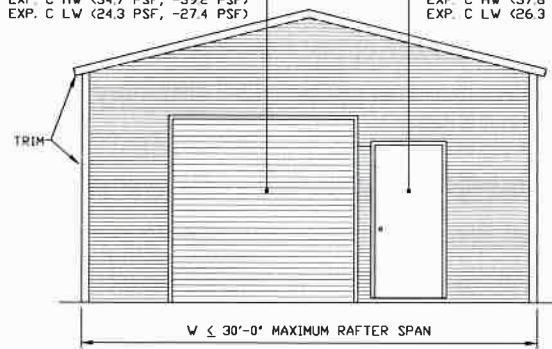
WINDOW (AS APPLICABLE)
DESIGN PRESSURE
EXP. B HW (27.0 PSF, -28.1 PSF)
EXP. B LW (18.1 PSF, -19.6 PSF)
EXP. C HW (39.4 PSF, -41.0 PSF)
EXP. C LW (27.5 PSF, -29.8 PSF)



TYPICAL SIDE ELEVATION

SCALE: NTS

ROLL-UP DOOR (AS APPLICABLE)
DESIGN PRESSURE
EXP. B HW (27.6 PSF, -31.2 PSF)
EXP. B LW (18.5 PSF, -20.9 PSF)
EXP. C HW (34.7 PSF, -39.2 PSF)
EXP. C LW (24.3 PSF, -27.4 PSF)



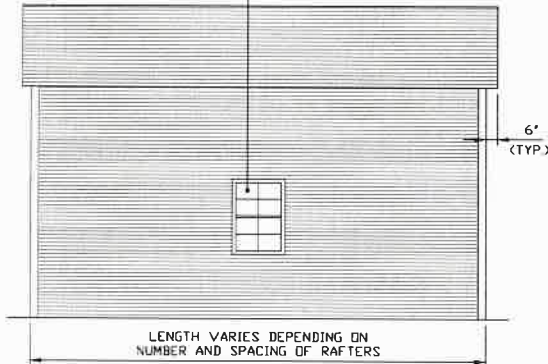
TYPICAL END ELEVATION

SCALE: NTS

PERSONNEL DOOR (AS APPLICABLE)
DESIGN PRESSURE
EXP. B HW (25.7 PSF, -28.0 PSF)
EXP. B LW (17.2 PSF, -18.8 PSF)
EXP. C HW (37.6 PSF, -41.0 PSF)
EXP. C LW (26.3 PSF, -28.6 PSF)

BOW FRAME RAFTER STRUCTURE

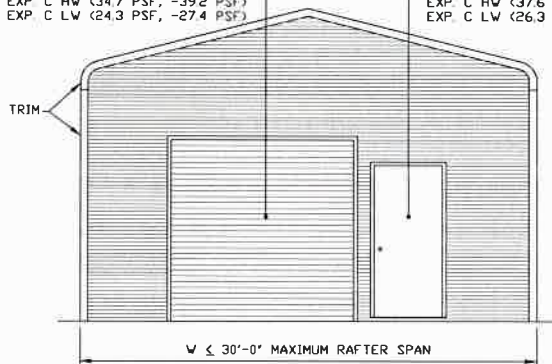
WINDOW (AS APPLICABLE)
DESIGN PRESSURE
EXP. B HW (27.0 PSF, -28.1 PSF)
EXP. B LW (18.1 PSF, -19.6 PSF)
EXP. C HW (39.4 PSF, -41.0 PSF)
EXP. C LW (27.5 PSF, -29.8 PSF)



TYPICAL SIDE ELEVATION

SCALE: NTS

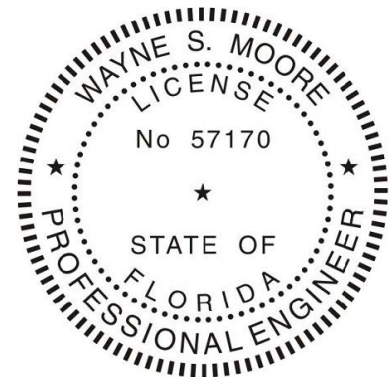
ROLL-UP DOOR (AS APPLICABLE)
DESIGN PRESSURE
EXP. B HW (27.6 PSF, -31.2 PSF)
EXP. B LW (18.5 PSF, -20.9 PSF)
EXP. C HW (34.7 PSF, -39.2 PSF)
EXP. C LW (24.3 PSF, -27.4 PSF)



TYPICAL END ELEVATION

SCALE: NTS

PERSONNEL DOOR (AS APPLICABLE)
DESIGN PRESSURE
EXP. B HW (25.7 PSF, -28.0 PSF)
EXP. B LW (17.2 PSF, -18.8 PSF)
EXP. C HW (37.6 PSF, -41.0 PSF)
EXP. C LW (26.3 PSF, -28.6 PSF)



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PROJECT MGR: WSH

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 3A

SCALE: NTS

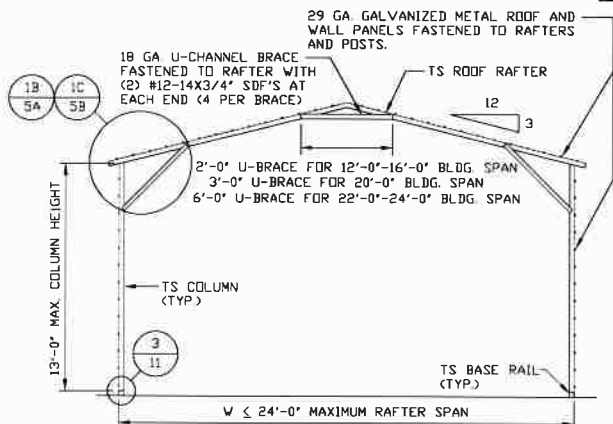
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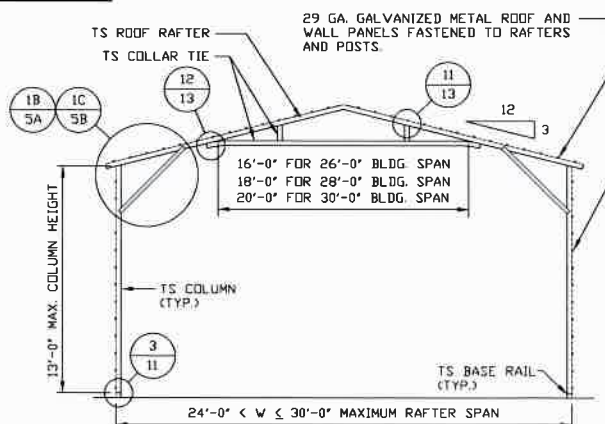
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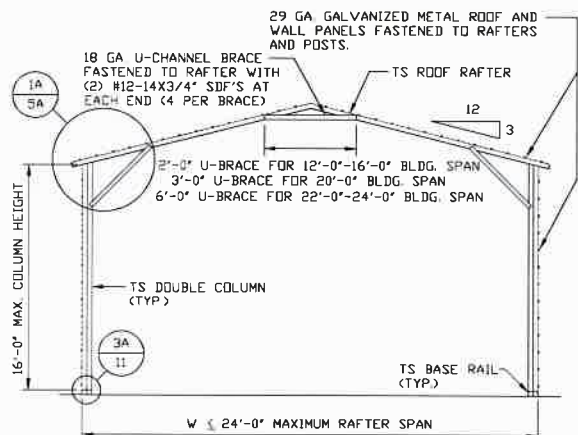
EXPOSURE B



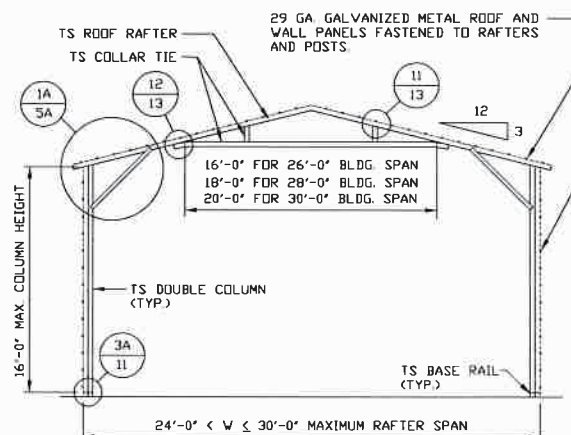
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



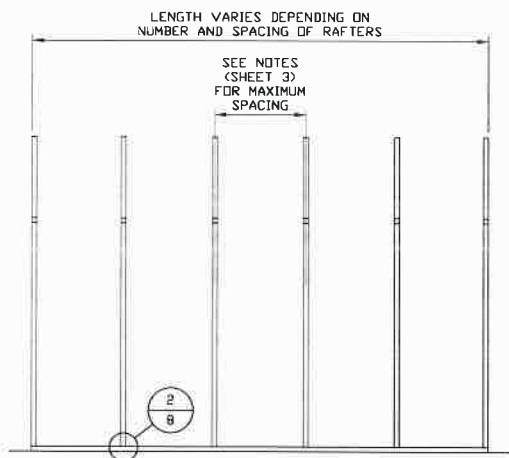
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



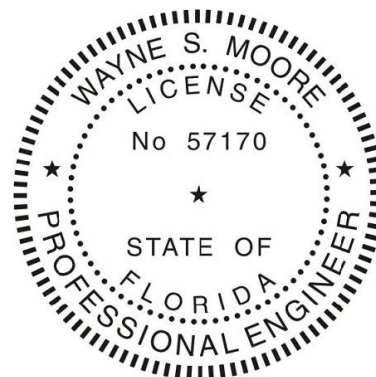
TYPICAL RAFTER/COLUMN END FRAME SECTION
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TYPICAL RAFTER/COLUMN END FRAME SECTION
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 4

SCALE: NTS

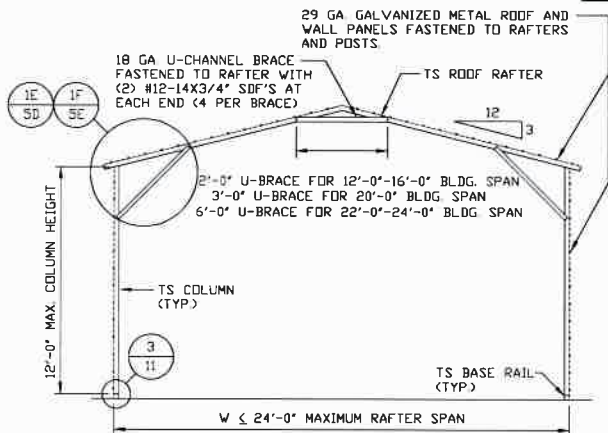
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**JOB NO: 16220S/
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REV: 3

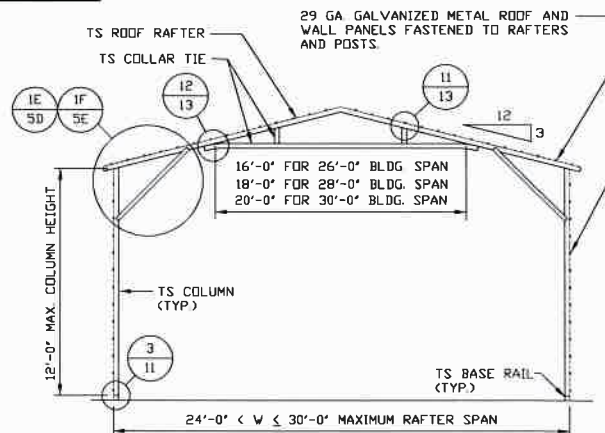
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EXPOSURE C



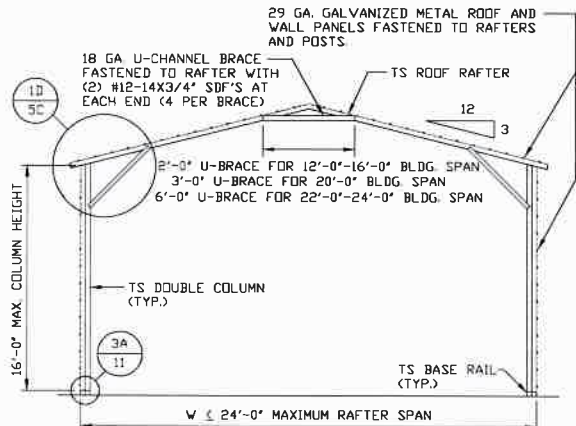
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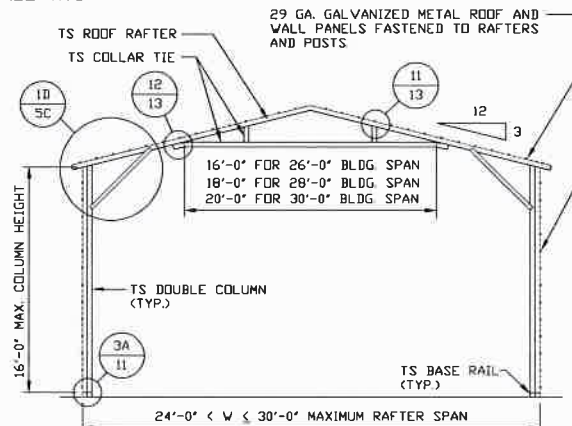
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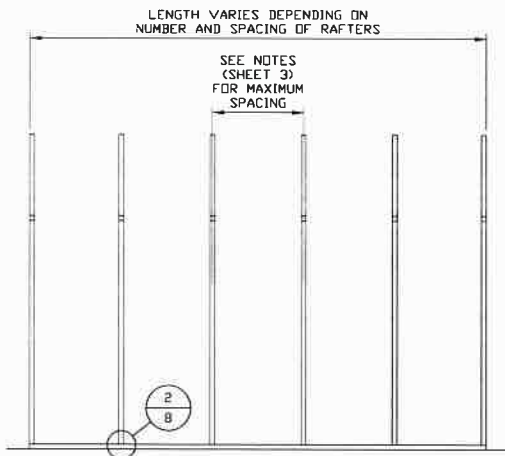
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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SHT. 4A

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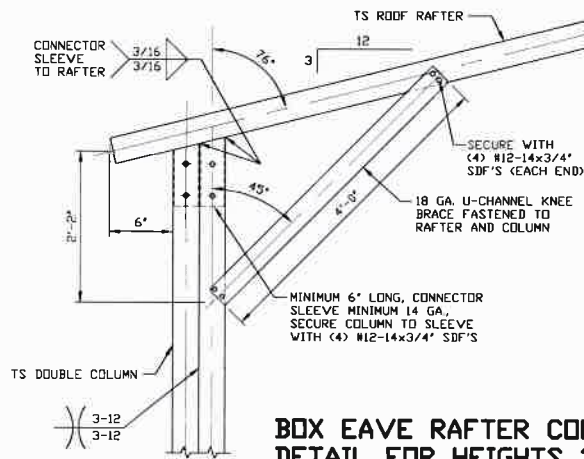
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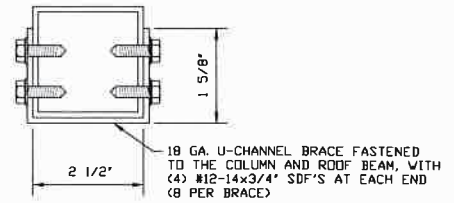
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EXPOSURE B



1A

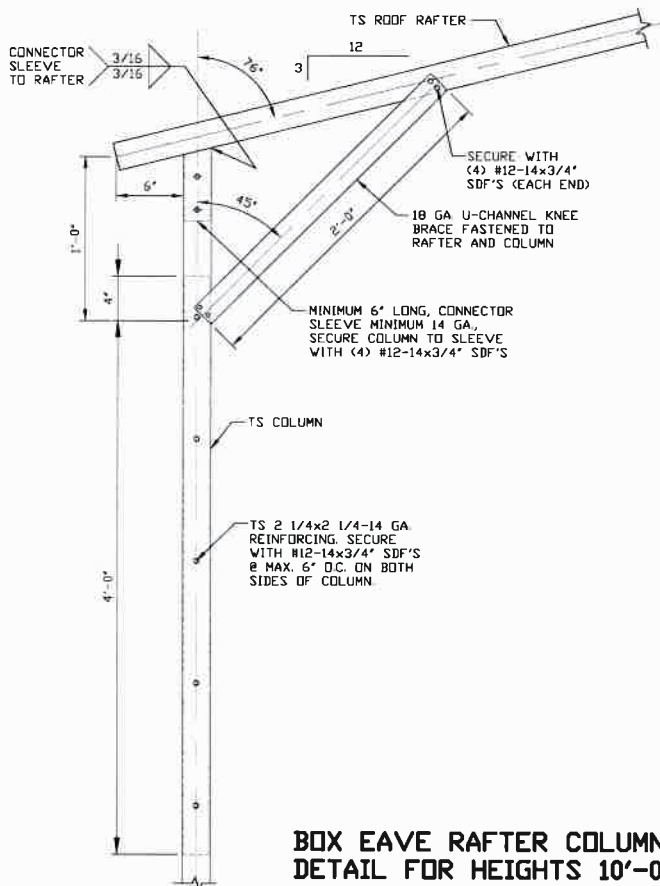
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BRACE SECTION

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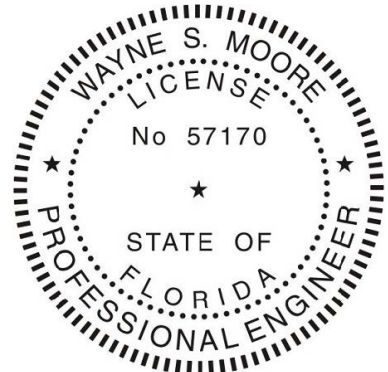
**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 13'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS ≤ 140 MPH**



1B

SCALE: NTS

**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 11'-0" < TO ≤ 13'-0"
FOR WIND SPEEDS ≤ 140 MPH**



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
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SHT. 5A

SCALE: NTS

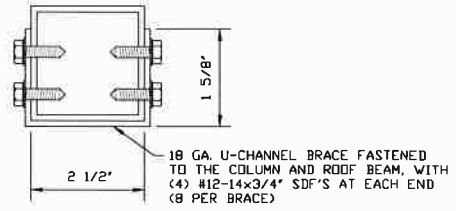
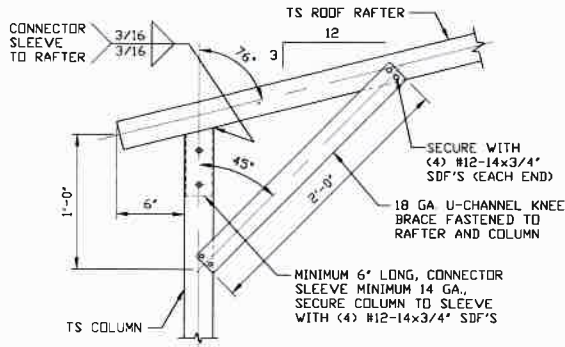
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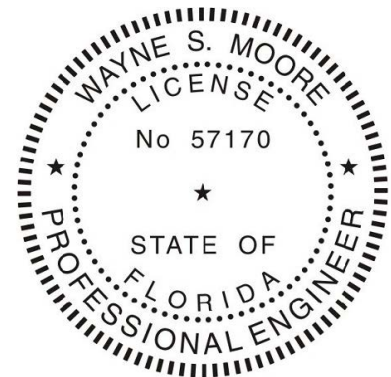
BRACE SECTION

SCALE: NTS

**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS ≤ 10'-0" FOR
WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND HEIGHTS ≤ 11'-0" FOR
WIND SPEEDS ≤ 140 MPH**

1C

SCALE: NTS



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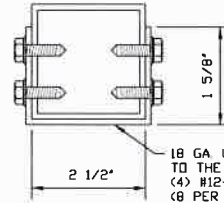
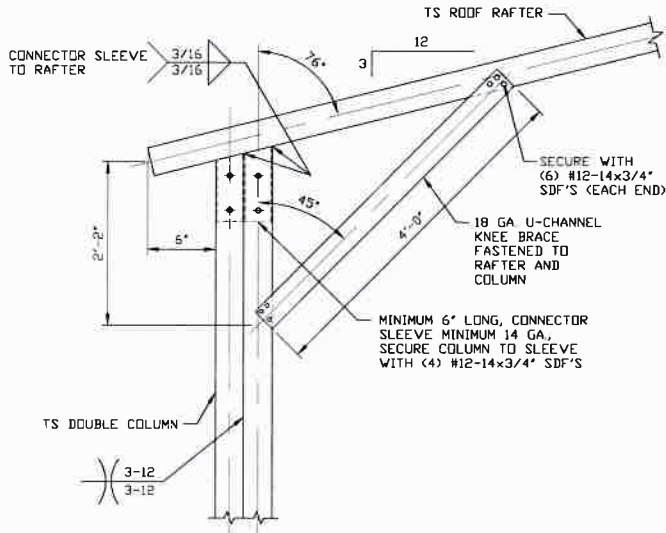
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**JOB NO: 16220S/
18104S/21015S**

REV: 3

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EXPOSURE C



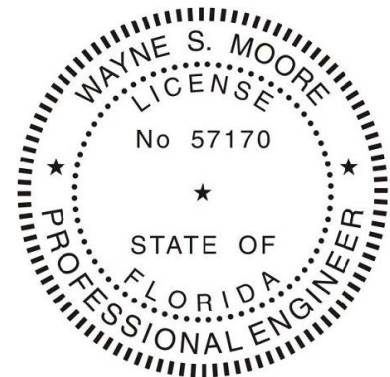
BRACE SECTION

SCALE: NTS

**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS ≤ 140 MPH**

1D

SCALE: NTS



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DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SCALE: NTS

SHT. 5C

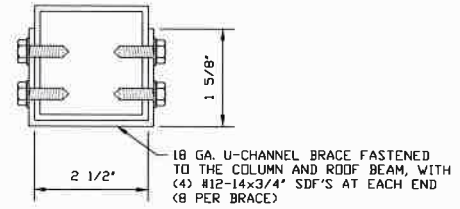
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18104S/210153**

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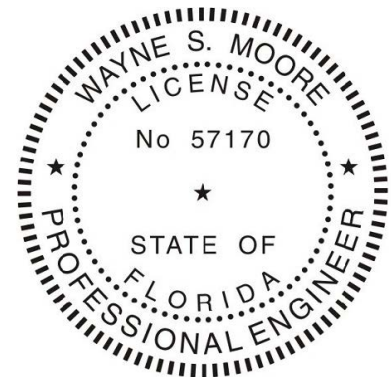
EXPOSURE C



SCALE: NTS

1E

SCALE NTS

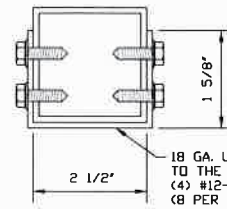
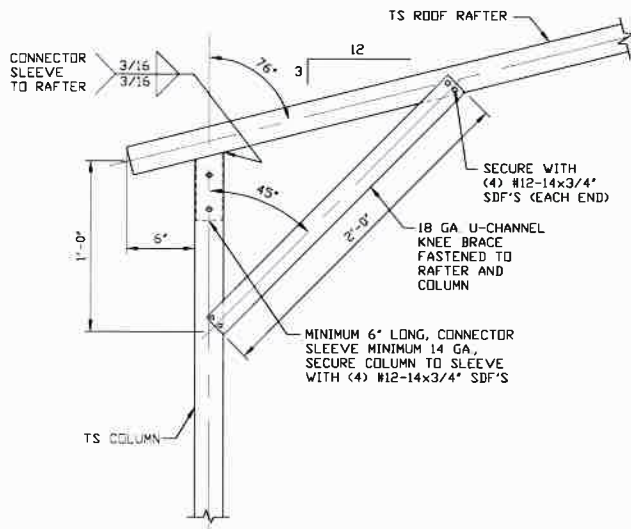


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EXPOSURE C

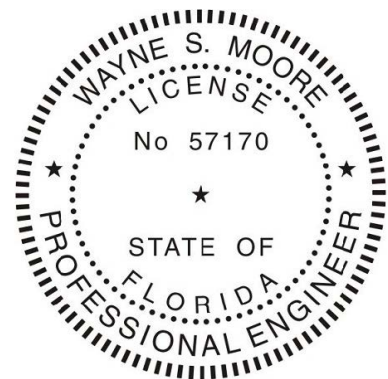


BRACE SECTION
SCALE: NTS

**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS ≤ 9'-0" FOR
WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND HEIGHTS ≤ 10'-0" FOR
WIND SPEEDS ≤ 140 MPH**

1F

SCALE: NTS



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PROJECT MGR: VSM

CLIENT: USA STEEL

USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0" x 16'-0" SP ENCLOSED STRUCTURE

DATE: 4-21-21

SHT. 5E

SCALE: NTS

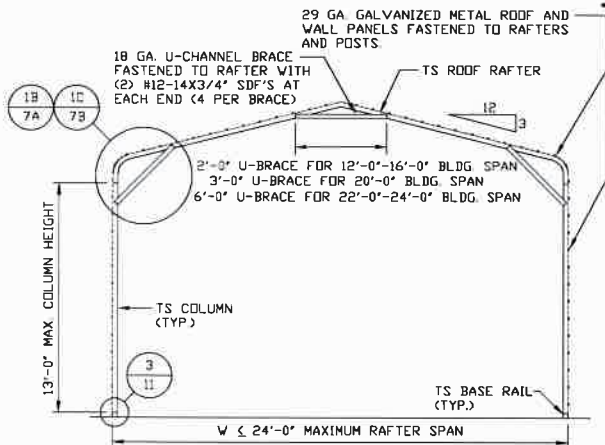
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**JOB NO: 16220S/
18104S/21015S**

REV: 3

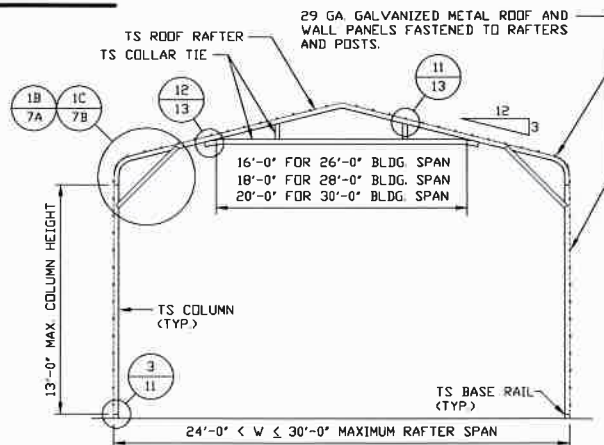
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EXPOSURE B



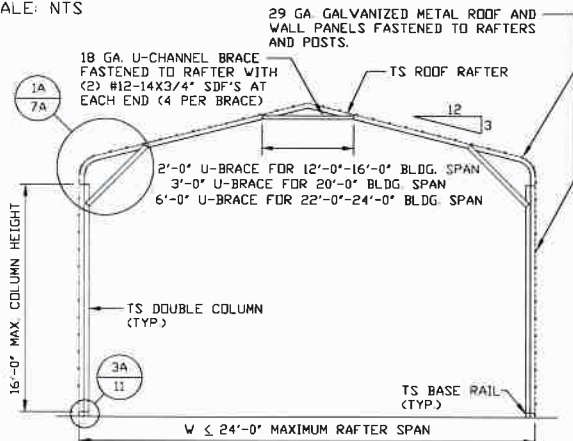
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



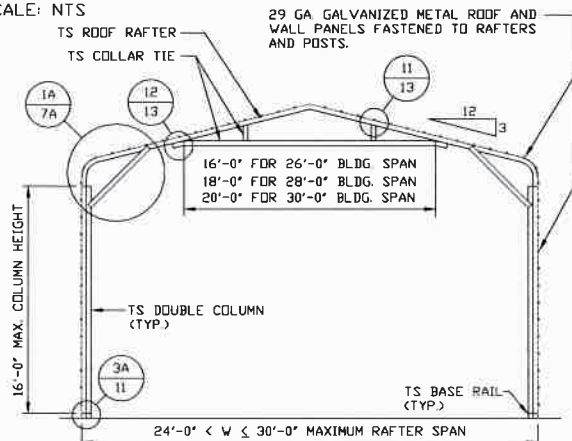
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SCALE: NTS



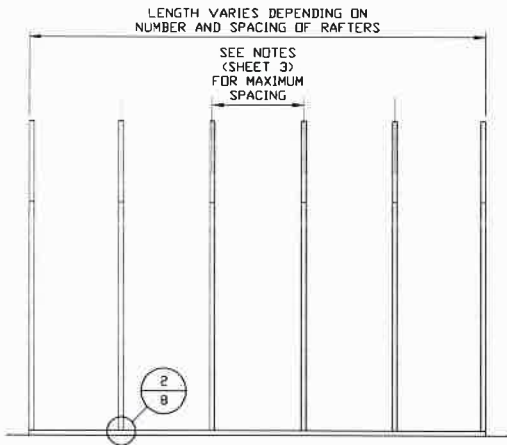
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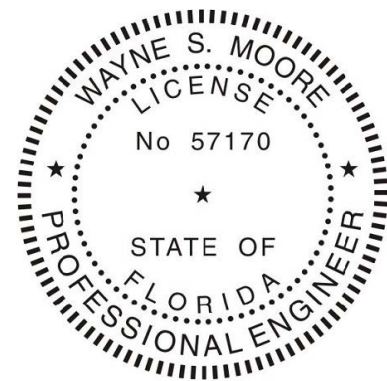
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 6

SCALE: NTS

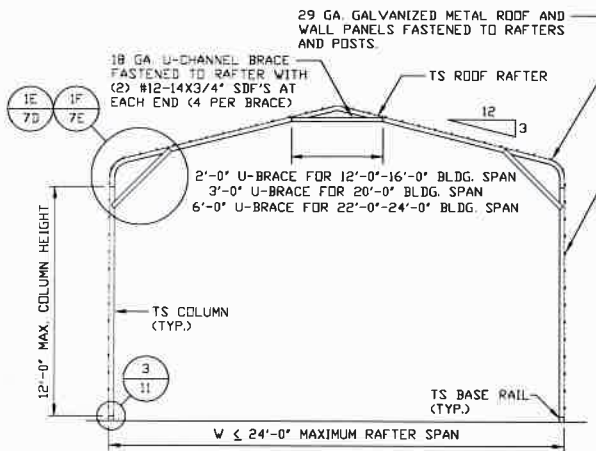
DWG. NO: SK-3

**JOB NO: 16220S/
18104S/21015S**

REV: 3

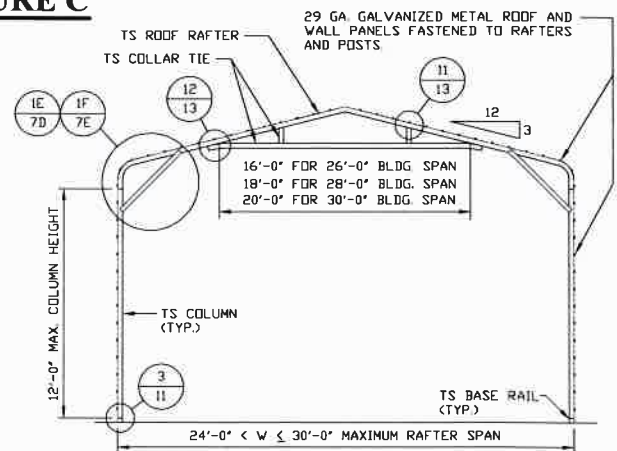
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EXPOSURE C



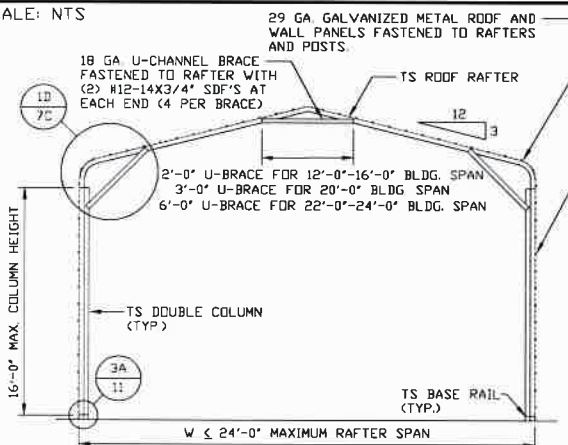
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SCALE: NTS



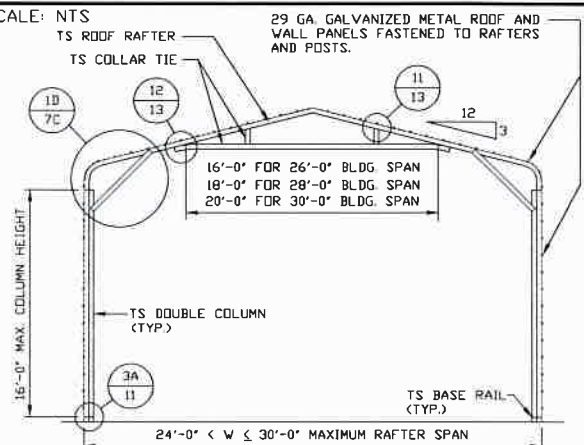
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SCALE: NTS



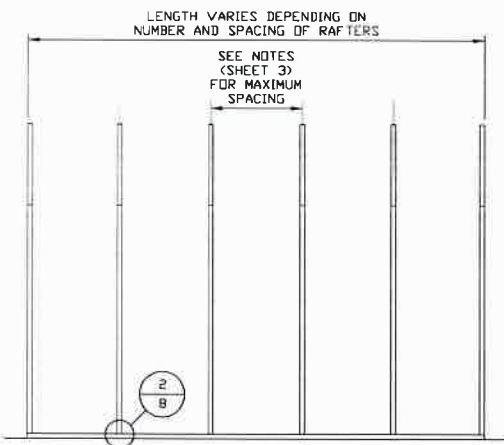
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SCALE: NTS



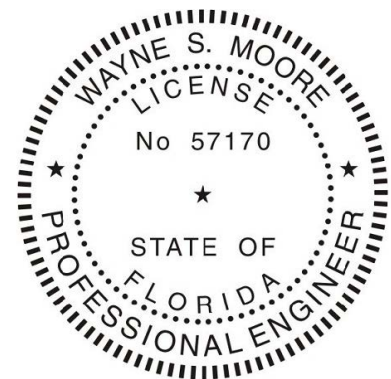
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS



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CLIENT: USA STEEL

**USA STEEL BUILDINGS
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DATE: 4-21-21

SHT. 6A

SCALE: NTS

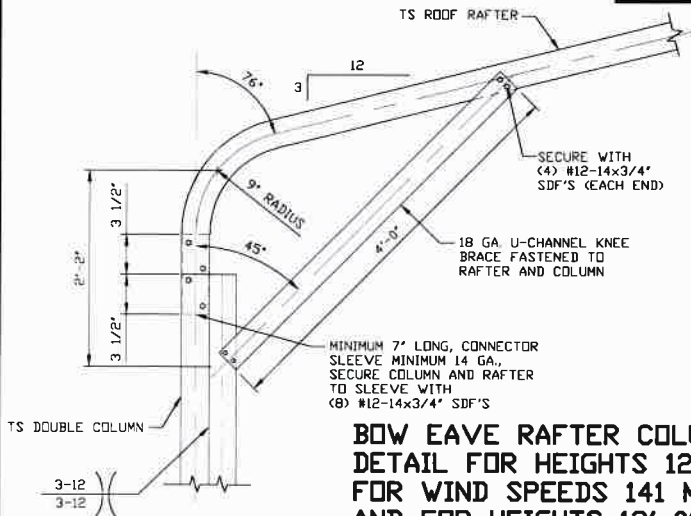
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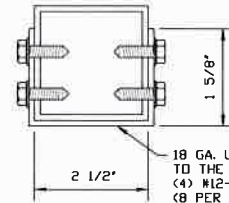
EXPOSURE B



**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 13'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS ≤ 140 MPH**

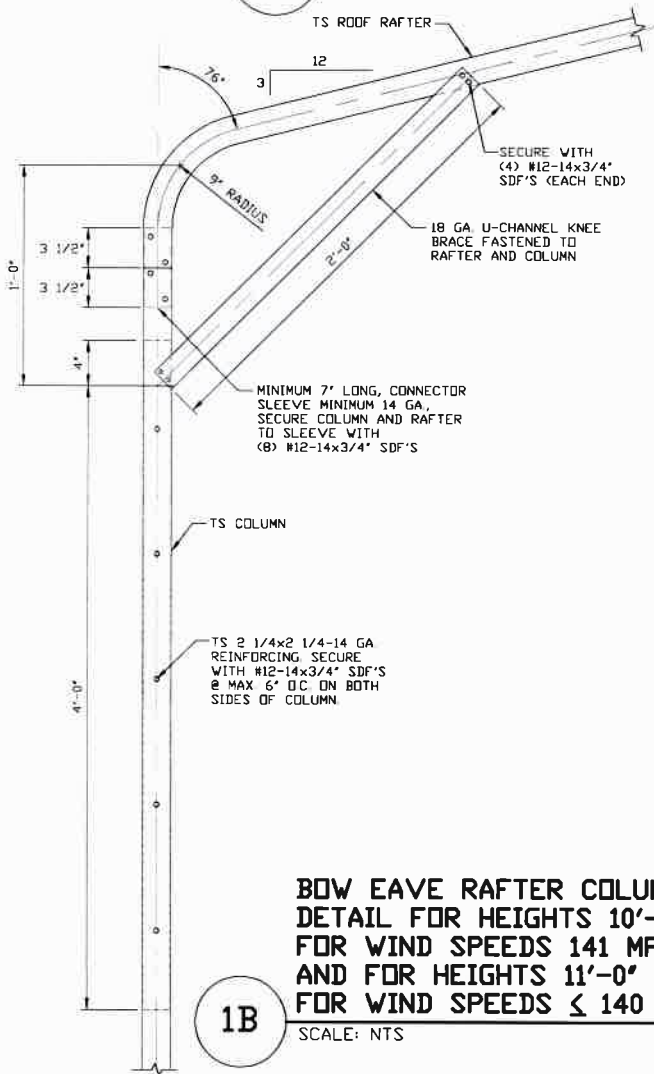
1A

SCALE: NTS



BRACE SECTION

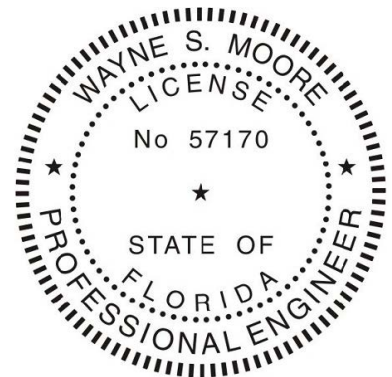
SCALE: NTS



**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 11'-0" < TO ≤ 13'-0"
FOR WIND SPEEDS ≤ 140 MPH**

1B

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PROJECT MGR: VSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 7A

SCALE: NTS

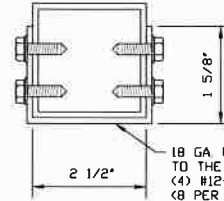
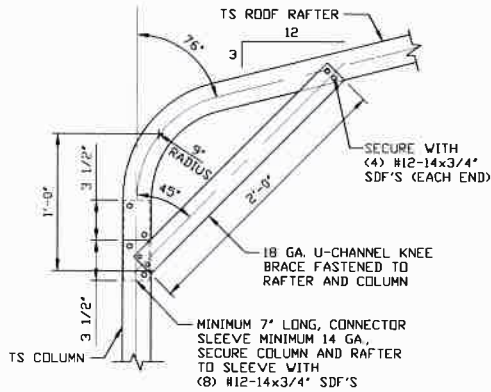
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EXPOSURE B



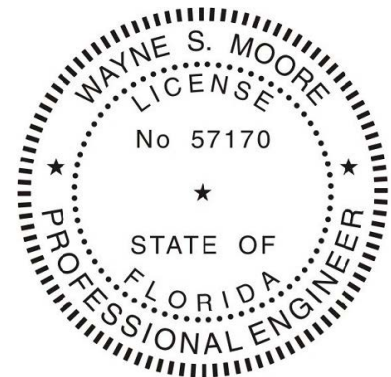
BRACE SECTION

SCALE: NTS

**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS ≤ 10'-0" FOR
WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND HEIGHTS ≤ 11'-0" FOR
WIND SPEEDS ≤ 140 MPH**

1C

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 7B

SCALE: NTS

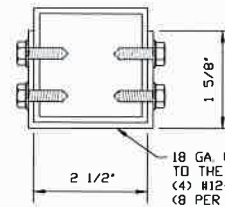
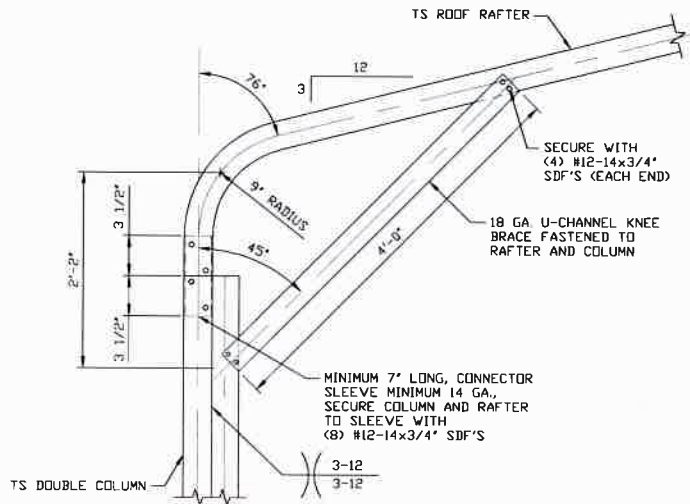
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EXPOSURE C



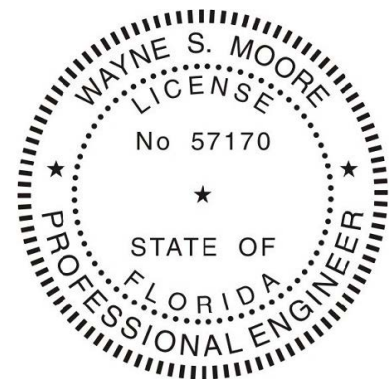
BRACE SECTION

SCALE: NTS

**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
FOR WIND SPEEDS ≤ 140 MPH**

1D

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 7C

SCALE: NTS

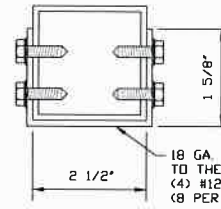
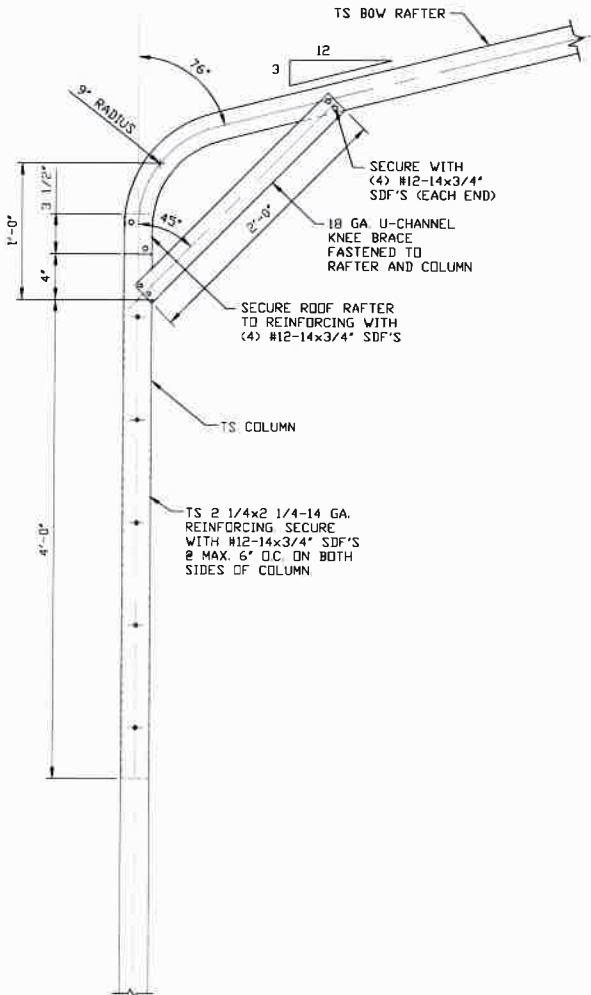
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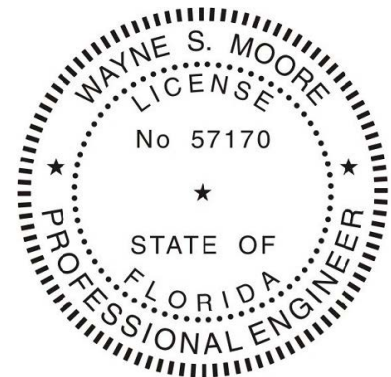


BRACE SECTION
SCALE: NTS

**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 9'-0" < TO ≤ 11'-0"
FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH
AND FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
FOR WIND SPEEDS ≤ 140 MPH**

1E

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 7D

SCALE: NTS

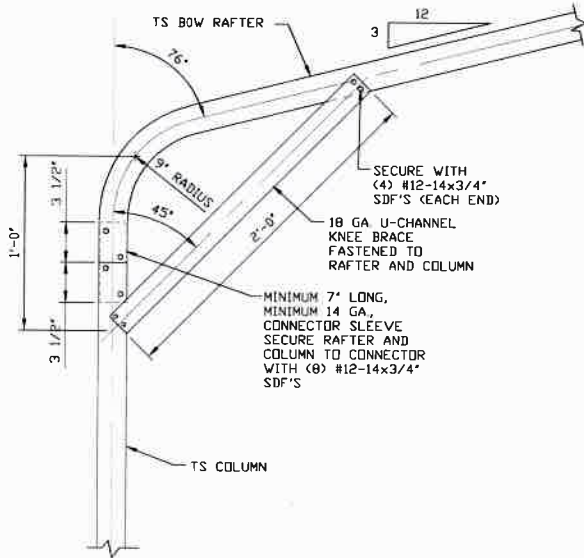
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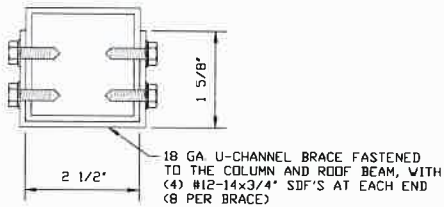
EXPOSURE C



**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS $\leq 9'-0"$ FOR
WIND SPEEDS 141 MPH $< TO \leq 170$ MPH
AND HEIGHTS $\leq 10'-0"$ FOR
WIND SPEEDS ≤ 140 MPH**

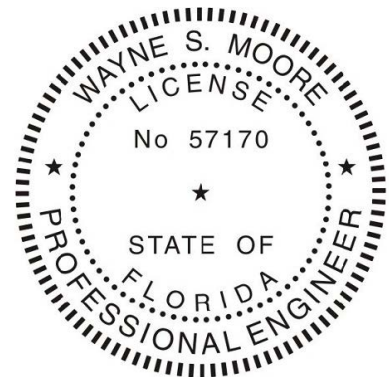
1F

SCALE: NTS



BRACE SECTION

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 7E

SCALE: NTS

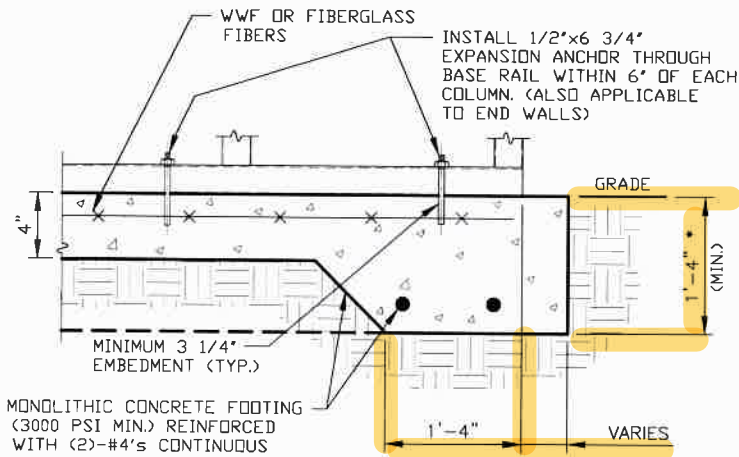
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BASE RAIL ANCHORAGE OPTIONS FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH



2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE/ORD.
REGARDING REQUIRED FOOTING DEPTH.

DRILL 5/8" DIAMETER HOLE
THROUGH THE BASE RAIL AND
SECURE TO ANCHOR EYE WITH
1/2" DIAMETER THROUGH BOLT

2" WASHERS

TOP OF ASPHALT
PAVEMENT OR
GROUND SURFACE

TS CONTINUOUS
BASE RAIL

HELIX EYE ANCHOR
(SEE NOTES BELOW)

2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

* COORDINATE WITH LOCAL BUILDING CODE/ORD.
REGARDING REQUIRED ANCHOR LENGTH.

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.



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DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: USA STEEL

USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE

DATE: 4-21-21

SHT. 8

SCALE: NTS

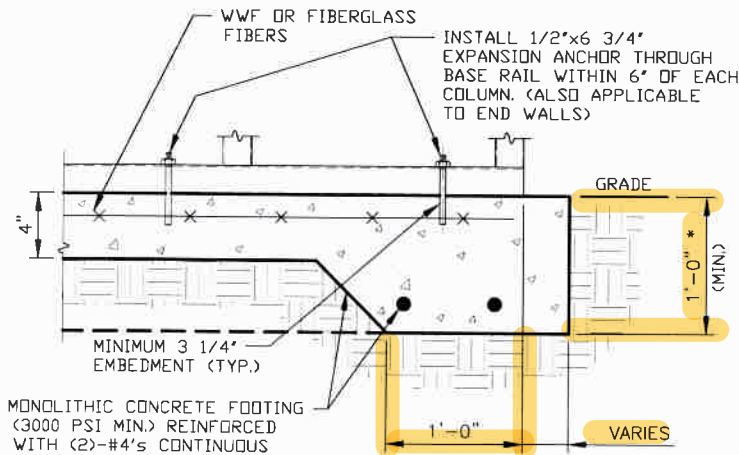
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JOB NO: 16220S/
18104S/21015S

REV: 3

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BASE RAIL ANCHORAGE OPTIONS FOR WIND SPEEDS ≤ 140 MPH



2A

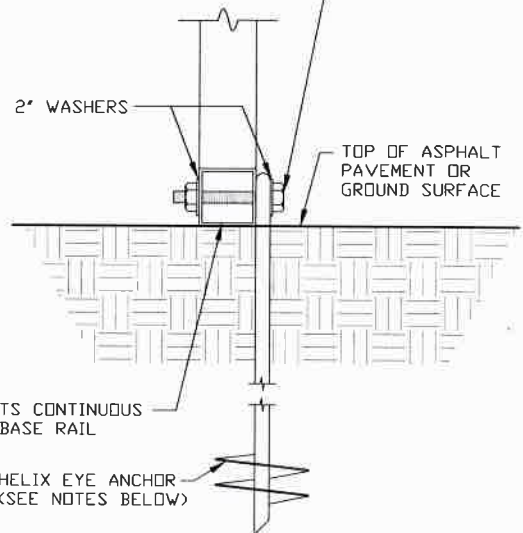
CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING REQUIRED FOOTING DEPTH.

DRILL 5/8" DIAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2" DIAMETER THROUGH BOLT



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

* COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING REQUIRED ANCHOR LENGTH.

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.



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CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: USA STEEL

USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE

DATE: 4-21-21

SHT. 8A

SCALE: NTS

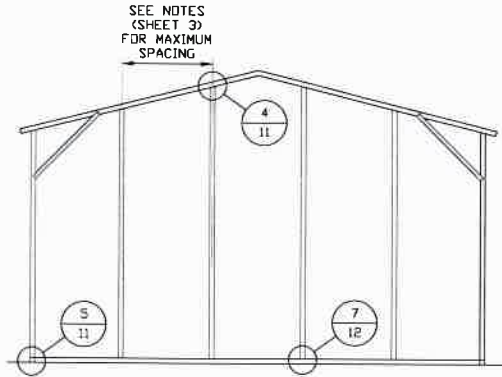
DWG. NO. SK-3

JOB NO. 16220S/
18104S/21015S

REV. 3

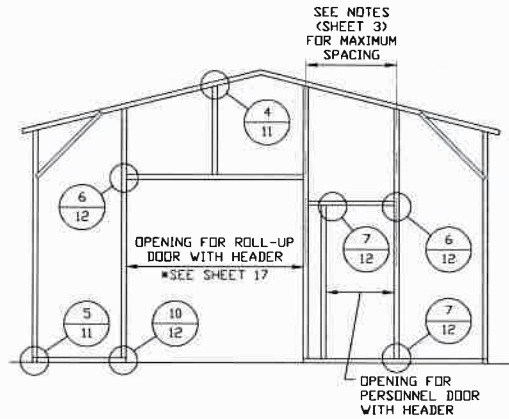
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



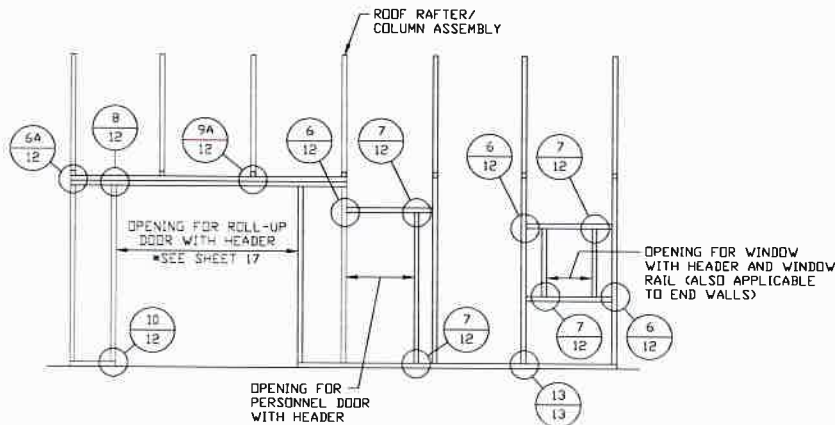
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



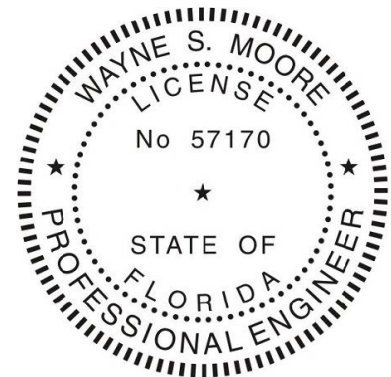
**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0" x 16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 9

SCALE: NTS

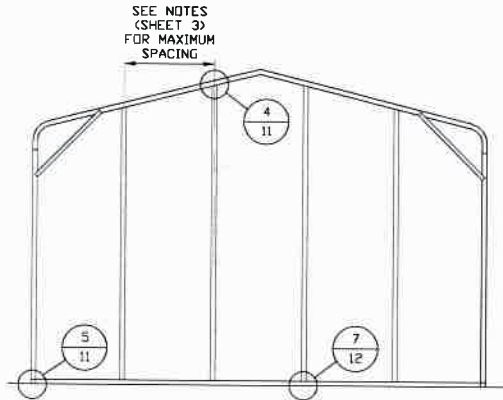
DWG. NO: SK-3

**JOB NO: 16220S/
18104S/21015S**

REV: 3

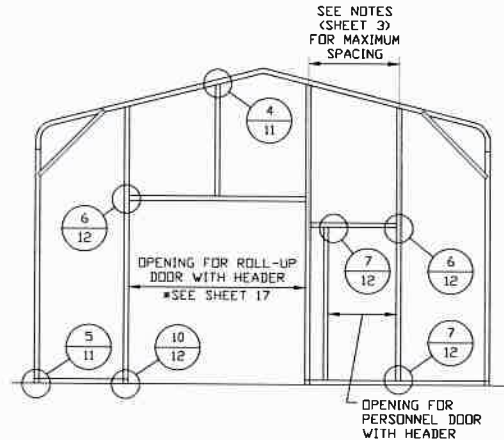
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



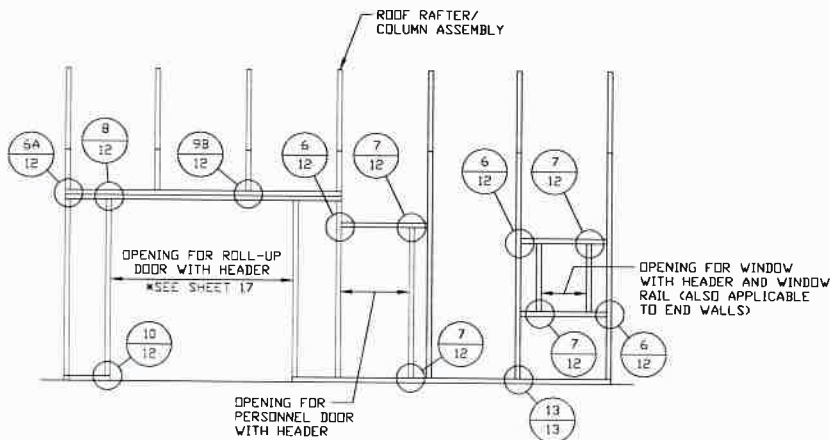
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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CLIENT: USA STEEL

**USA STEEL BUILDINGS
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SHT. 10

SCALE: NTS

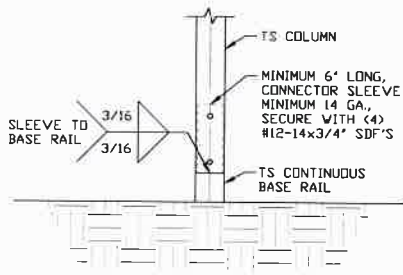
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18104S/21015S**

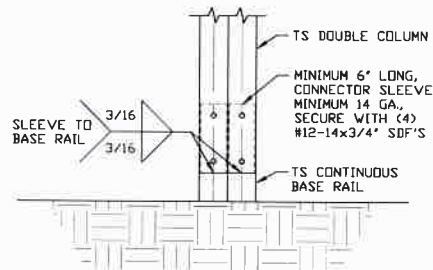
REV: 3

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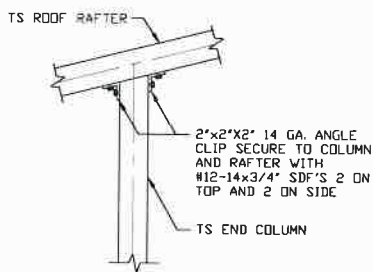
CONNECTION DETAILS



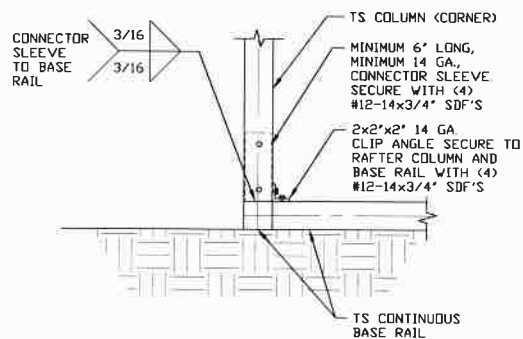
3 **RAFTER COLUMN/BASE
RAIL CONNECTION DETAIL**
SCALE: NTS



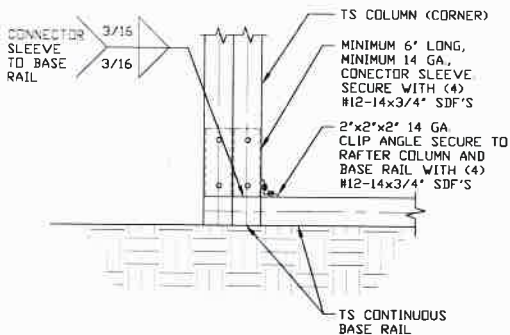
3A **RAFTER COLUMN/BASE
RAIL CONNECTION DETAIL**
SCALE: NTS



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



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CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 11

SCALE: NTS

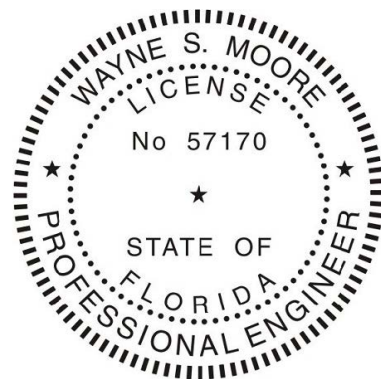
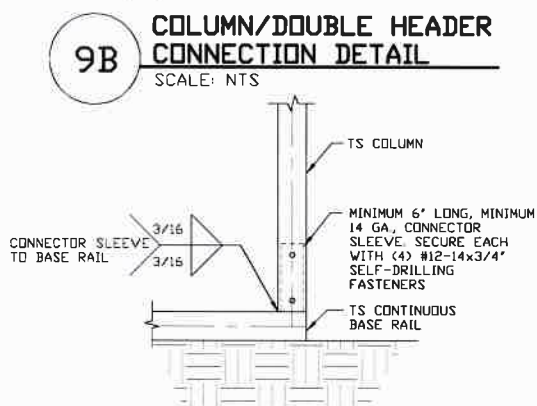
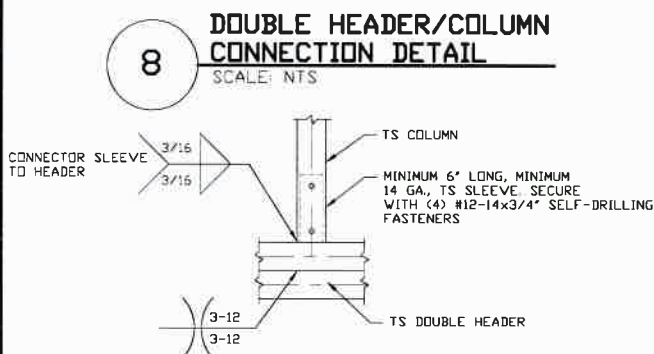
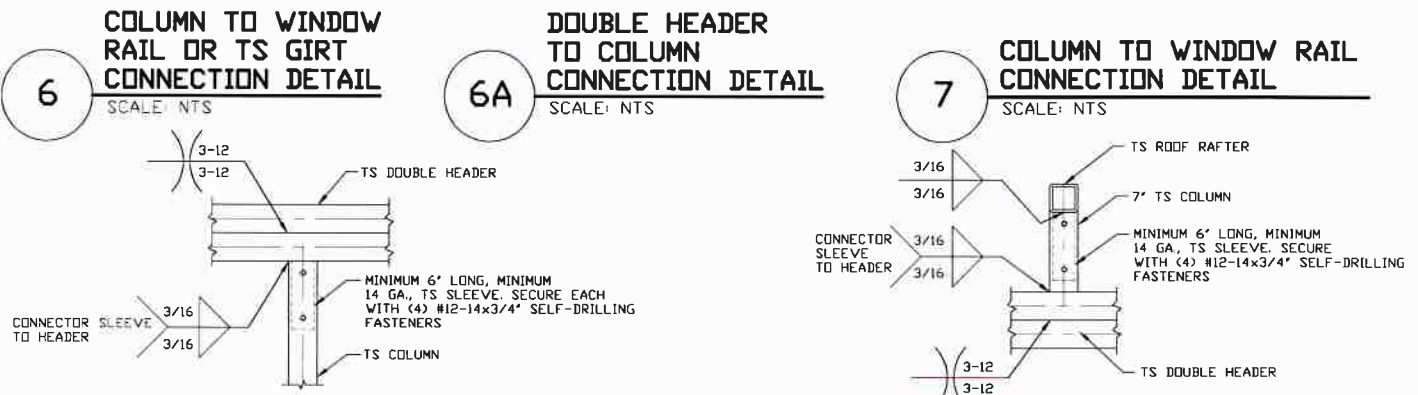
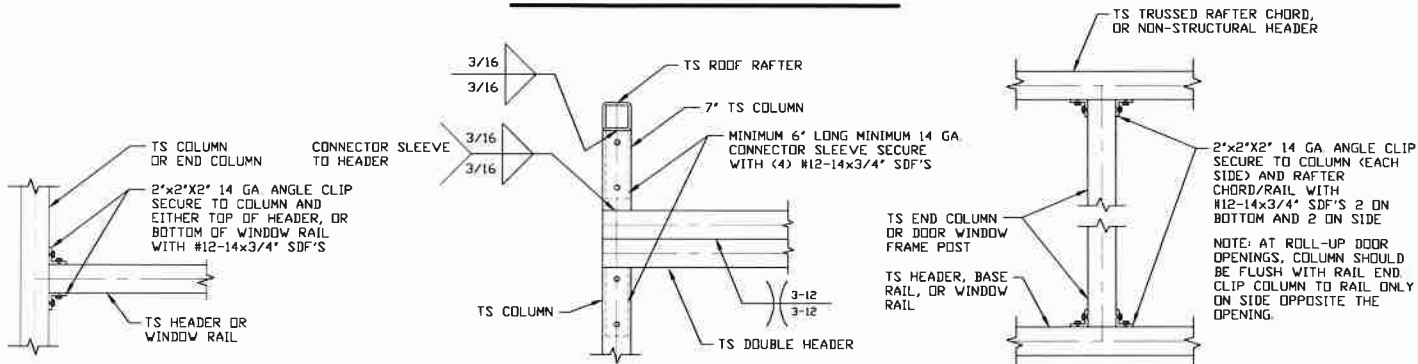
DWG. NO: SK-3

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CONNECTION DETAILS



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 12

SCALE: NTS

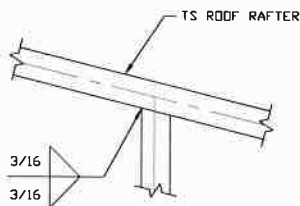
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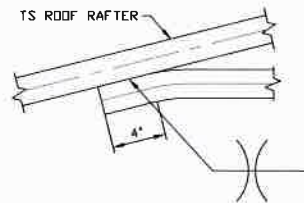
CONNECTION DETAILS



11

RAFTER TO CHORD CONNECTION DETAIL

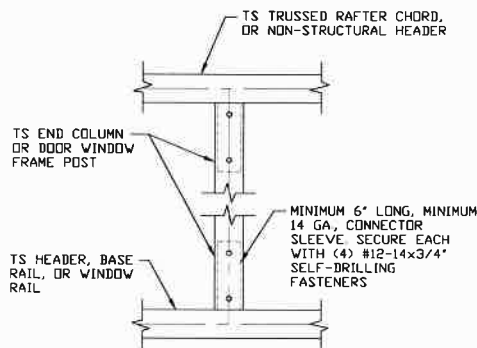
SCALE: NTS



12

COLLAR TIE CONNECTION DETAIL

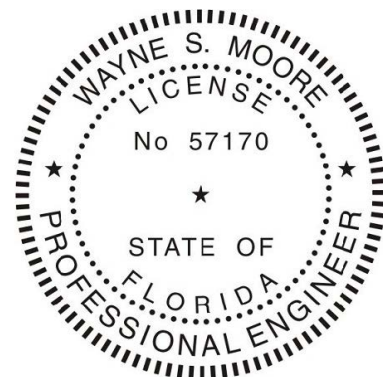
SCALE: NTS



13

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS



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DATE: 4-21-21

SHT. 13

SCALE: NTS

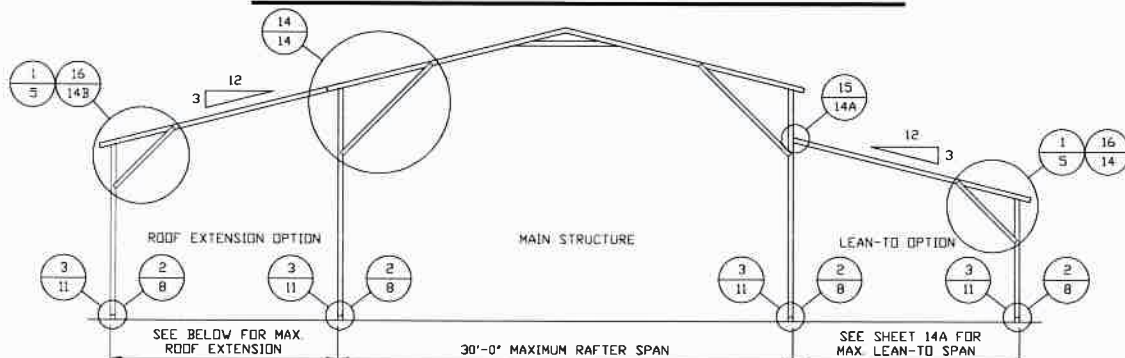
DWG NO SK-3

**JOB NO: 16220S/
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BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

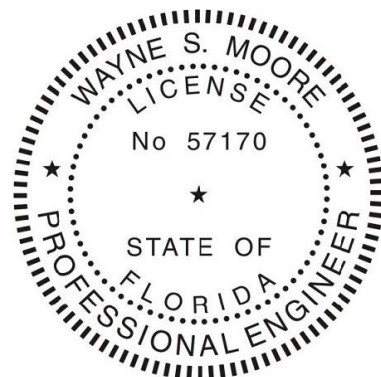
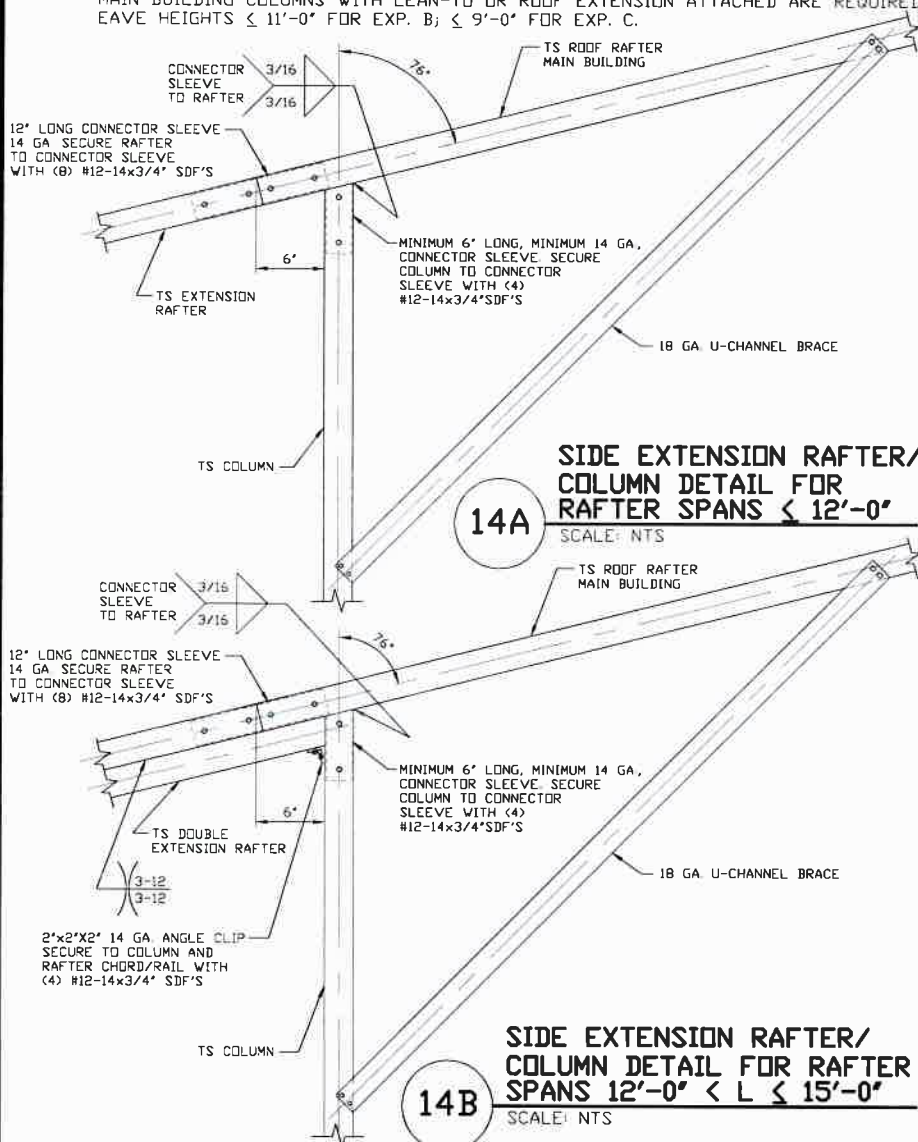
MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0".

MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0" < TO ≤ 16'-0" FOR EXP. B; 12'-0" < TO ≤ 16'-0" FOR EXP. C.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSIONS ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 11'-0" TO ≤ 13'-0" FOR EXP. B; 9'-0" < TO ≤ 12'-0" FOR EXP. C.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 11'-0" FOR EXP. B; ≤ 9'-0" FOR EXP. C.



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USA STEEL BUILDINGS

210 AIRPORT ROAD

MOUNT AIRY, NC 27030

30'-0"x16'-0" SP ENCLOSED STRUCTURE

DATE: 4-21-21

SHT. 14

SCALE: NTS

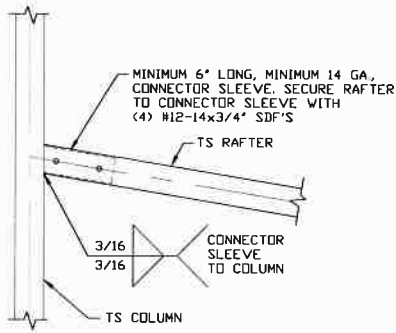
DWG. NO: SK-3

**JOB NO: 16220S/
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REV. 3

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BOX EAVE RAFTER LEAN-TO OPTIONS

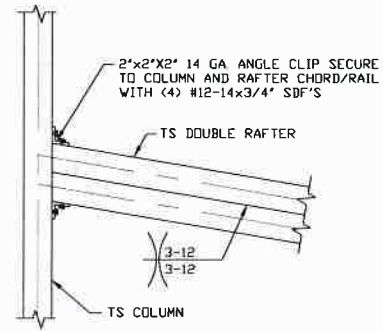


15A

**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS $\leq 12'-0''$**

SCALE: NTS

NOTE: ROOF PITCH OF 2:12 TO 1:12 ARE
ADEQUATE FOR LEAN-TO RAFTER

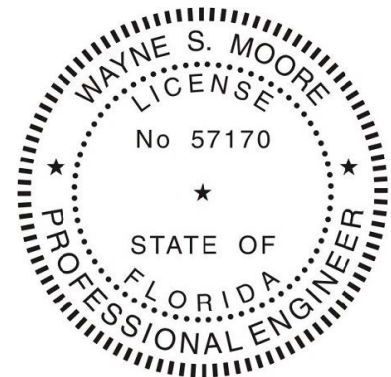


15B

**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS $12'-0'' < L \leq 15'-0''$**

SCALE: NTS

NOTE: ROOF PITCH OF 2:12 TO 1:12 ARE
ADEQUATE FOR LEAN-TO RAFTER



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CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 14A

SCALE: NTS

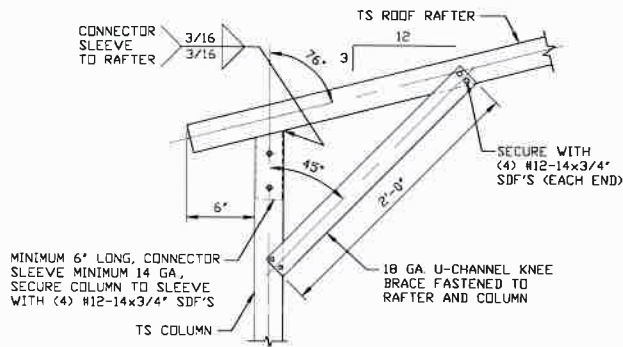
DWG. NO: SK-3

**JOB NO: 16220S/
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BOX EAVE RAFTER LEAN-TO OPTIONS

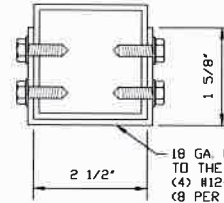


16

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $\leq 14'-0"$

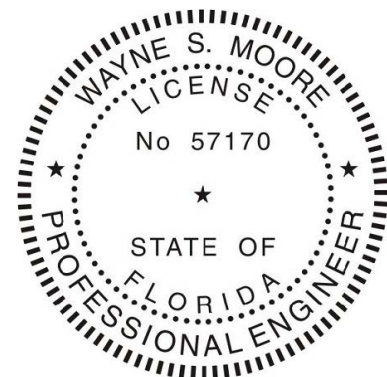
SCALE: NTS

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH
SIDES OF THE MAIN BUILDING.)



BRACE SECTION

SCALE: NTS



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 14B

SCALE: NTS

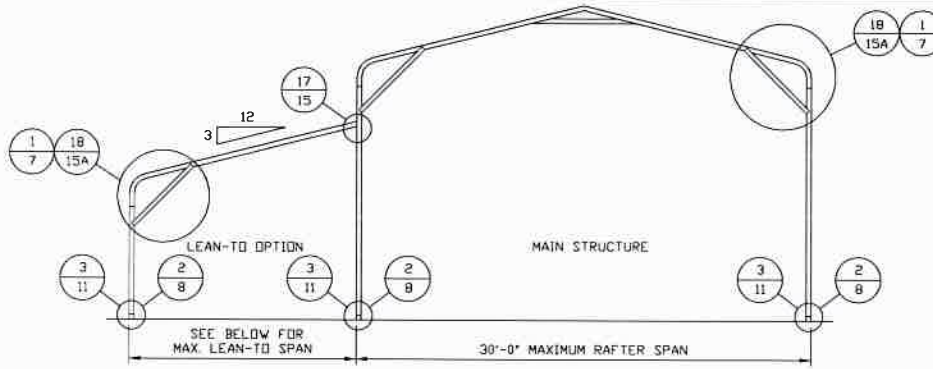
DWG. NO: SK-3

**JOB NO: 16220S/
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BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0".

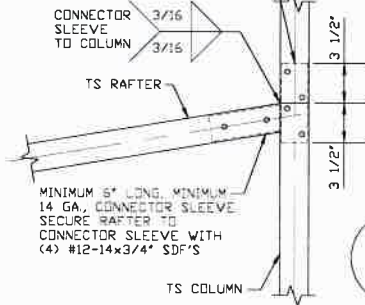
MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0" < TO ≤ 16'-0" FOR EXP. B; 12'-0" < TO ≤ 16'-0" FOR EXP. C.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSIONS ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 11'-0" TO ≤ 13'-0" FOR EXP. B; 9'-0" < TO ≤ 12'-0" FOR EXP. C.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 11'-0" FOR EXP. B; ≤ 9'-0" FOR EXP. C.

MINIMUM 7" LONG, MINIMUM 14 GA., CONNECTOR SLEEVE SECURE ROOF RAFTER AND COLUMN TO CONNECTOR WITH (8) #12-14x3/4" SDF'S



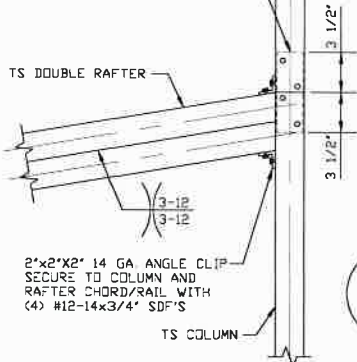
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0"

17A

SCALE: NTS

NOTE: ROOF PITCH OF 2:12 TO 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER

MINIMUM 7" LONG, MINIMUM 14 GA., CONNECTOR SLEEVE SECURE ROOF RAFTER AND COLUMN TO CONNECTOR WITH (8) #12-14x3/4" SDF'S

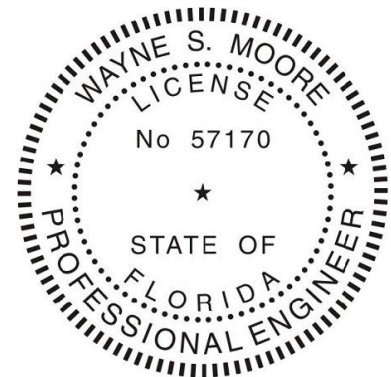


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < L ≤ 15'-0"

17B

SCALE: NTS

NOTE: ROOF PITCH OF 2:12 TO 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER



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PROJECT MGR: WSM

CLIENT: USA STEEL

USA STEEL BUILDINGS

210 AIRPORT ROAD

MOUNT AIRY, NC 27030

30'-0"x16'-0" SP ENCLOSED STRUCTURE

DATE: 4-21-21

SHT. 15

SCALE: NTS

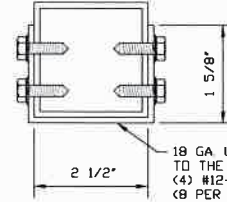
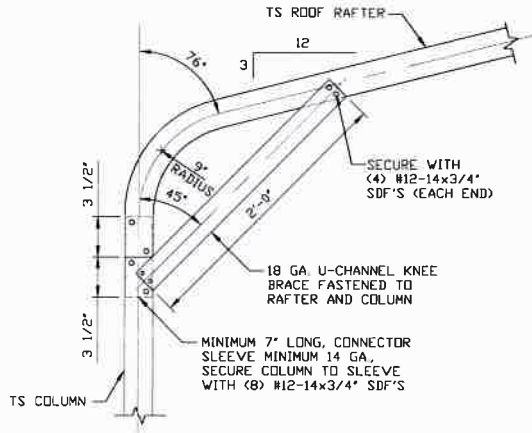
DWG. NO: SK-3

**JOB NO: 16220S/
18104S/21015S**

REV: 3

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BOW EAVE RAFTER LEAN-TO OPTIONS



BRACE SECTION

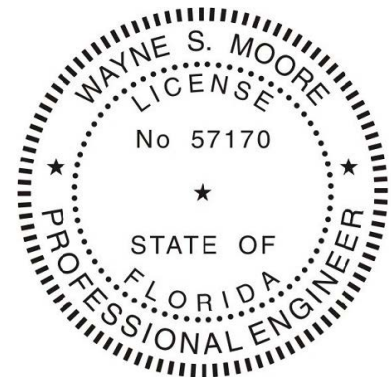
SCALE: NTS

18

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 14'-0"

SCALE: NTS

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH
SIDES OF THE MAIN BUILDING.)



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DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0" x 16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 15A

SCALE: NTS

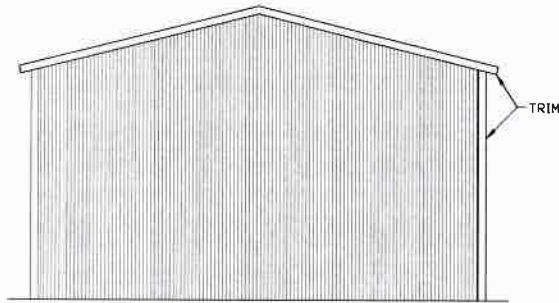
DWG. NO: SK-3

**JOB NO: 16220S/
18104S/21015S**

REV: 3

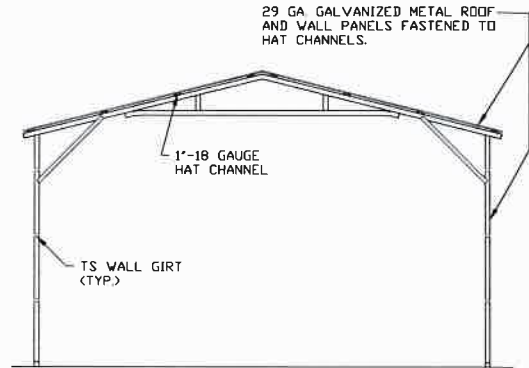
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



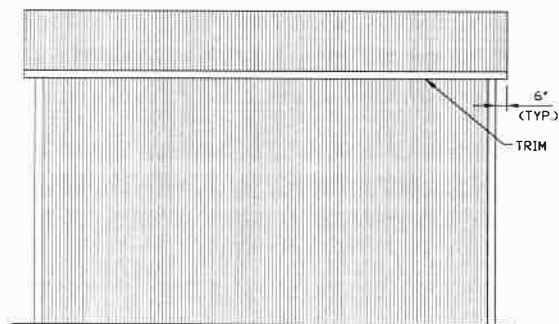
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



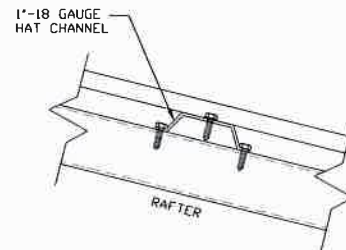
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**

SCALE: NTS



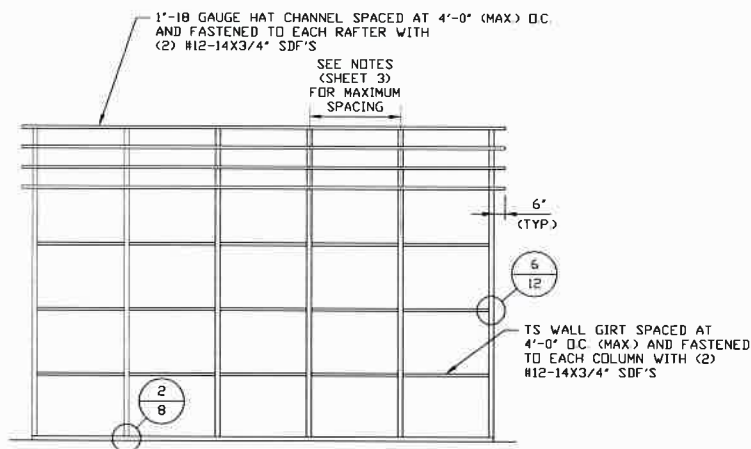
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS

NOTE: 1'-18 GAUGE HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TS GIRTS. HAT CHANNELS MUST BE SPACED AT 4'-0" (MAX.) O.C.



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CLIENT: USA STEEL

**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 16

SCALE: NTS

DWG. NO: SK-3

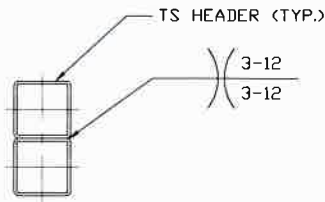
**JOB NO: 16220S/
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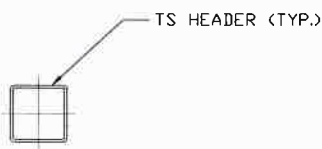
HEADER OPTIONS FOR WIND SPEEDS 141 MPH < TO ≤ 170 MPH

SIDEWALL HEADER OPTIONS



HEADER DETAIL FOR 10'-0" < LENGTHS ≤ 12'-0"

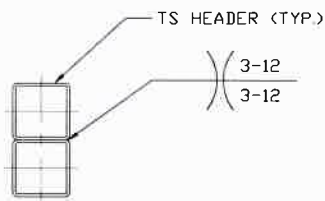
SCALE: NTS



HEADER DETAIL ≤ 10'-0"

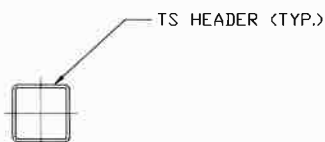
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ENDWALL HEADER OPTIONS



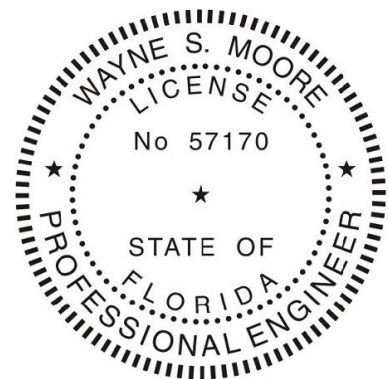
HEADER DETAIL FOR 13'-0" < LENGTHS ≤ 20'-0"

SCALE: NTS



HEADER DETAIL ≤ 13'-0"

SCALE: NTS



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x16'-0" SP ENCLOSED STRUCTURE**

DATE: 4-21-21

SHT. 17

SCALE: NTS

DWG. NO: SK-3

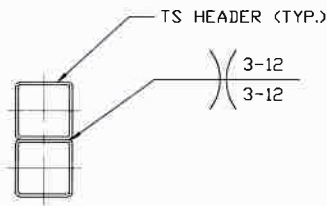
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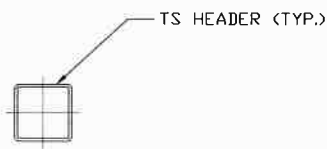
HEADER OPTIONS FOR WIND SPEEDS ≤ 140 MPH

SIDEWALL HEADER OPTIONS



HEADER DETAIL FOR 10'-0" < LENGTHS $\leq$ 16'-0"

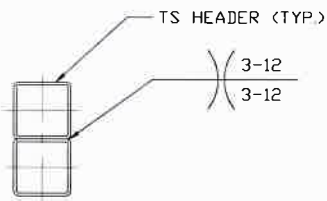
SCALE: NTS



HEADER DETAIL $\leq$ 10'-0"

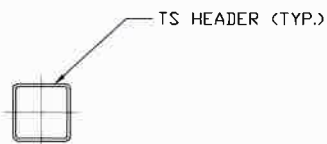
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ENDWALL HEADER OPTIONS



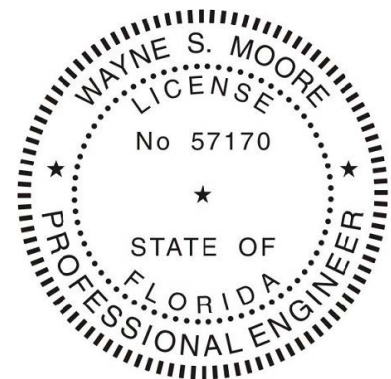
HEADER DETAIL FOR 13'-0" < LENGTHS $\leq$ 20'-0"

SCALE: NTS



HEADER DETAIL $\leq$ 13'-0"

SCALE: NTS



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**USA STEEL BUILDINGS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
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SHT. 17A

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