

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:

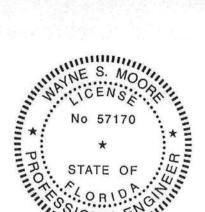
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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

Digitally signed by Wayne S Moore Date: 2021.04.21 12:30:20 -04'00'





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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

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 VULT (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).
- 8. WIND EXPOSURE CATEGORY B/C.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR LOW WIND. 2 1/4" × 2 1/4" 12 GAUGE TS MAY BE USED AS AN OPTION FOR LOW WIND. USE 2 1/4" × 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° D.C. (MAX.) FOR LOW WIND AND 6° D.C. (MAX.) FOR HIGH WIND.
- 11. FASTENERS CONSIST OF #12-14×3/4" 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 USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS FOR WIND SPEEDS > 145 MPH AS NOTED. DPTIONAL ANCHORAGE MAY BE
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE SDIL SITE CLASS = D RISK CATEGORY I

R= 3.25

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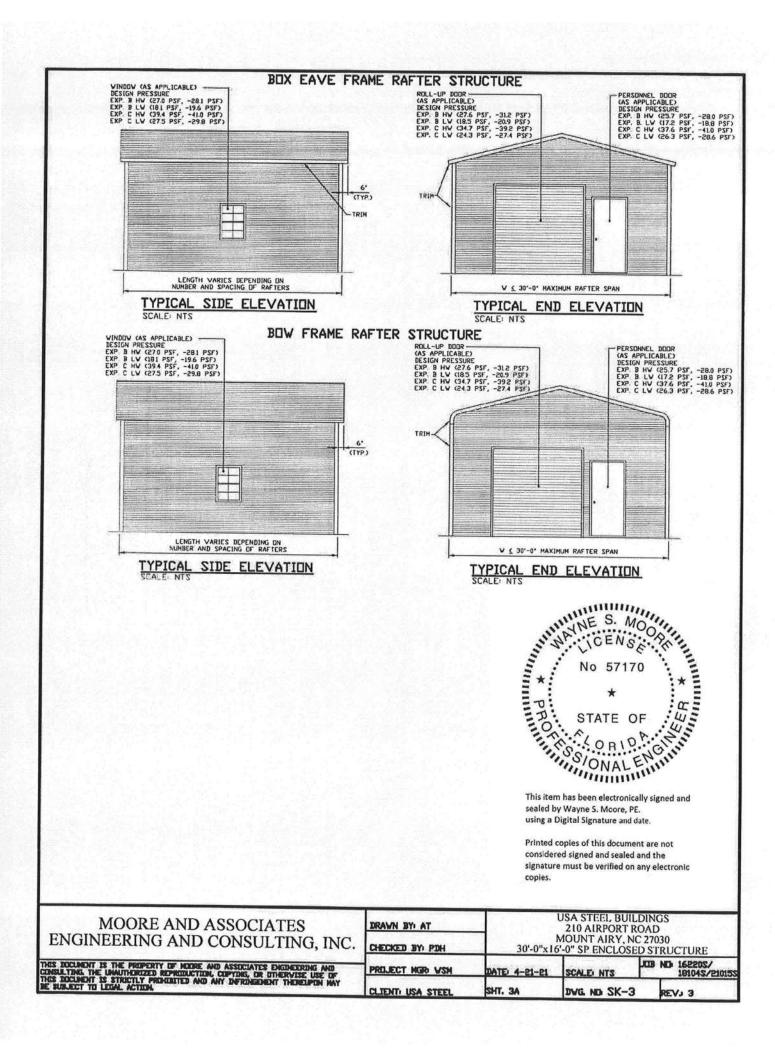
V= CsW

Spr= 1.258



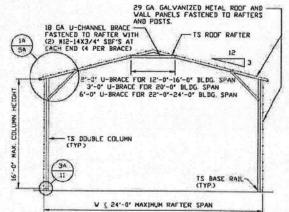
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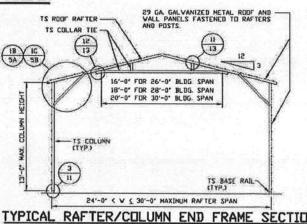


EXPOSURE B 29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS. 18 GA U-CHANNEL BRACE FASTENED TO RAFTER WITH (2) 012-14X3/4' SDF'S AT EACH END (4 PER BRACE) TS ROOF RAFTER 1B 5A 2'-0' U-BRACE FOR 12'-0'-16'-0' BLDG SPAN 6'-0' U-BRACE FOR 20'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN COLUMN TS COLUMN TS BASE RAIL-V (24'-0' MAXIMUM RAFTER SPAN

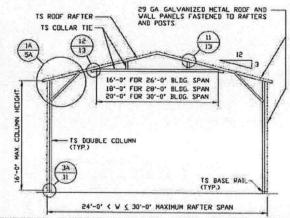
RAFTER/COLUMN END FRAME SECTION TYPICAL SCALE: NTS



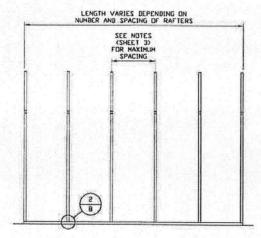
TYPICAL SCALE: NTS RAFTER/COLUMN END FRAME SECTION



RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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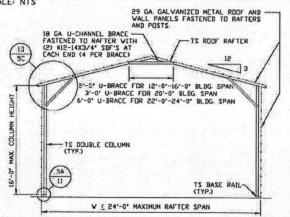
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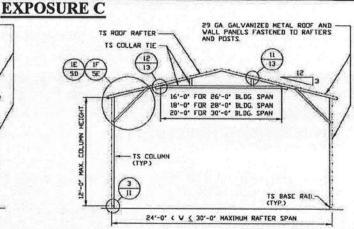
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j	CLIENT: USA STEEL	SHT. 4	DVG. NO SK-	3	REV. 3

29 GA GALVANIZED METAL ROUF AND VALL PANELS FASTENED TO RAFTERS AND POSTS. 18 GA U-CHANNEL BRACE FASTENED TO RAFTER VITH (2) 412-1432/4' SDE'S AT EACH END (4 PER BRACE) 21-0' U-BRACE FOR 12'-0'-16'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN TS COLLINN (TYP) TS BASE RAIL (TYP) V & 24'-0' HAXIMUM RAFTER SPAN

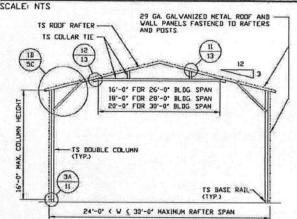
TYPICAL RAFTER/COLUMN END FRAME SECTION



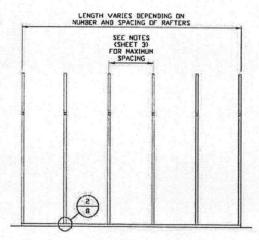
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



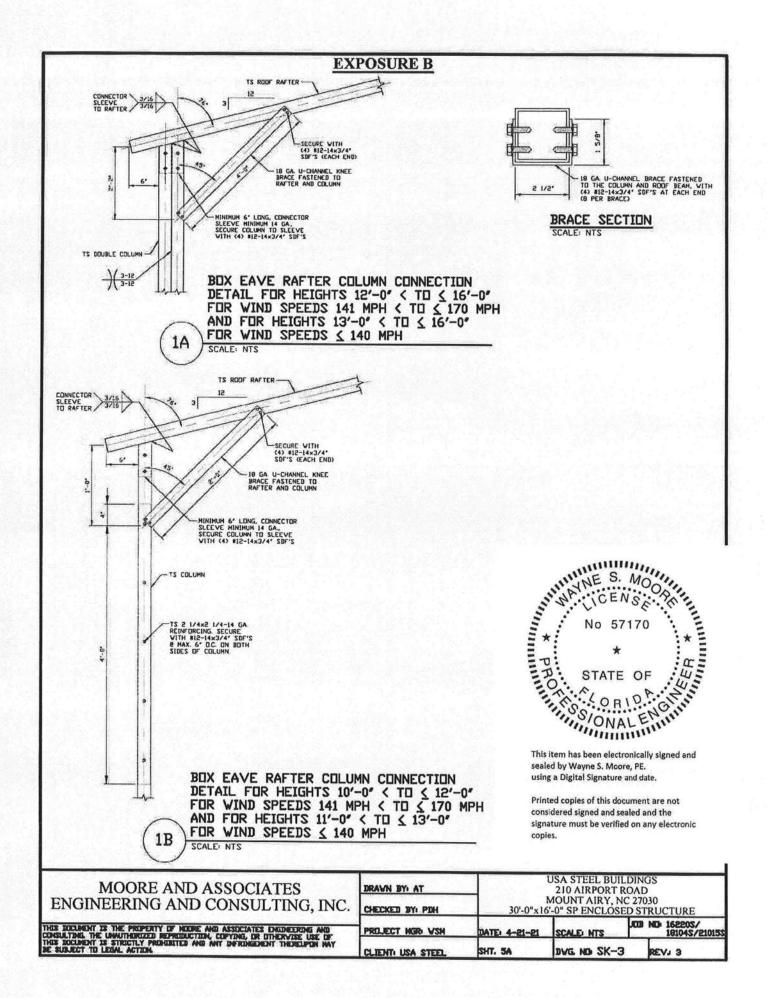
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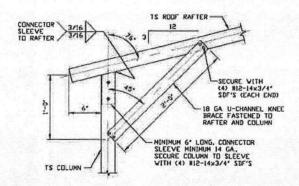
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	CLIENTI USA STEEL	SHT. 4A	DWG ND SK-3		REV ₂ 3			

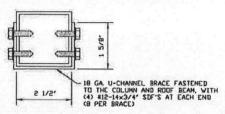


EXPOSURE B



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

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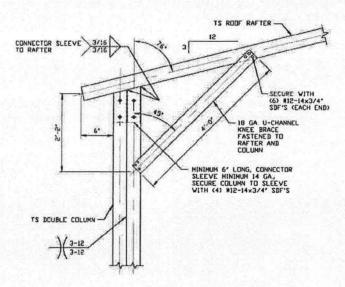


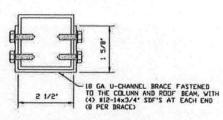
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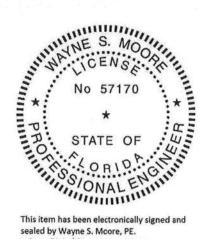




BRACE SECTION

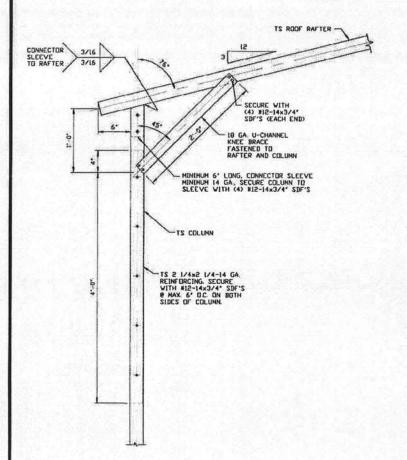
BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 11'-0" < TO < 16'-0"
FOR WIND SPEEDS 141 MPH < TO < 170 MPH
AND FOR HEIGHTS 12'-0" < TO < 16'-0"
FOR WIND SPEEDS < 140 MPH

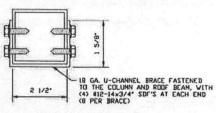
1D SCALE: NTS



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BRACE SECTION
SCALE: NTS

BOX 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

AND FOR HEIGHTS 10'-0' < TO < 12'-0'

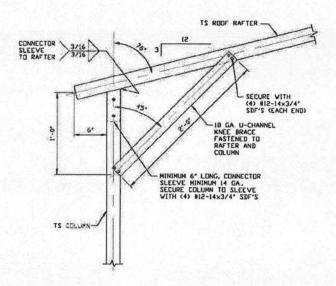
FOR WIND SPEEDS < 140 MPH

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18 GA. U-CHANNEL BRACE FASTENED
TO THE COLUMN AND RODE BEAM, WITH
(4) 912-143/4* SDF'S AT EACH END
(8) PER BRACE)

BRACE SECTION
SCALE: NTS

BOX 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 \leq 140 MPH

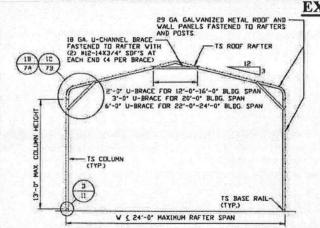
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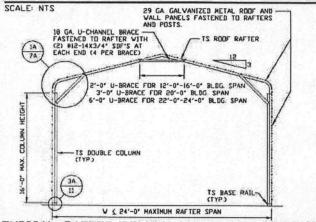


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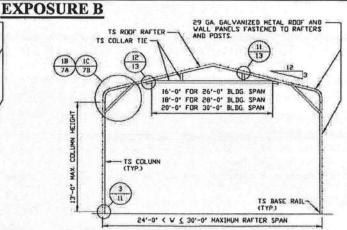
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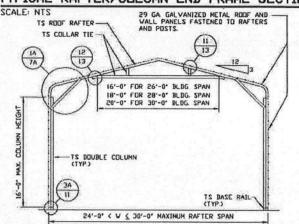
TYPICAL RAFTER/COLUMN END FRAME SECTION



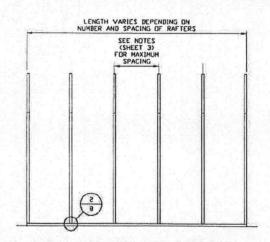
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TYPICAL RAFTER/COLUMN END FRAME SECTION



YPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS



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DVG. NO SK-3

REV. 3

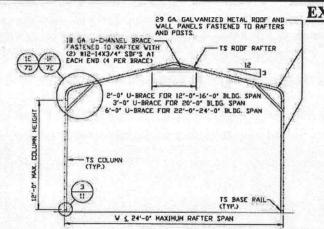
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ENGINEERING AND CONSULTING, INC.

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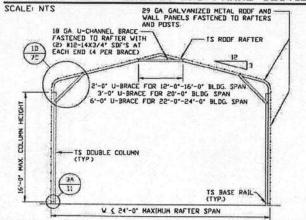
DRAWN BY: AT		USA STEEL BU 210 AIRPORT MOUNT AIRY,	ROAD
PROJECT NGR VSN	DATE: 4-21-21	SCALE NTS	JOB ND 16220S/ 18104S/21015S

SHT. 6

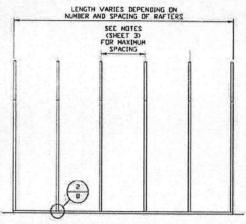
CLIENTI USA STEEL



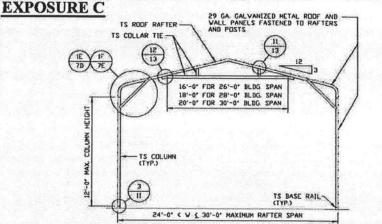
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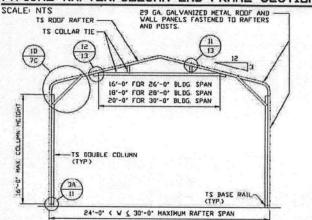
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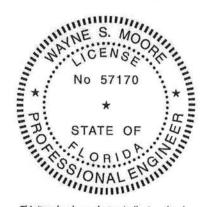
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



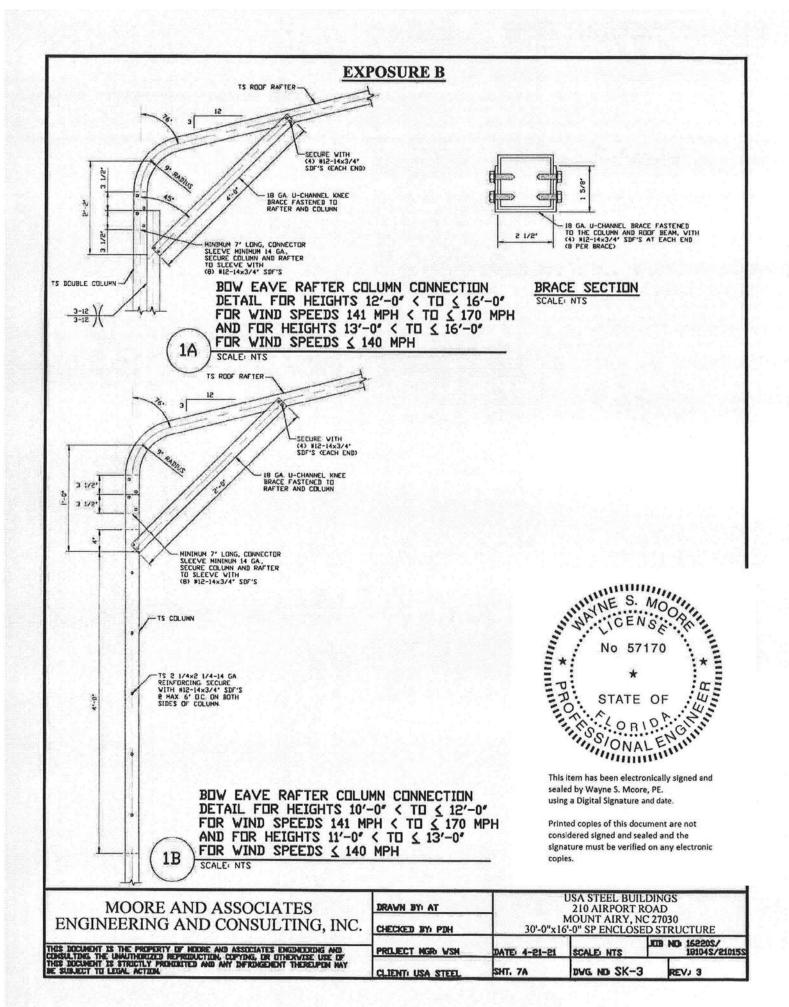
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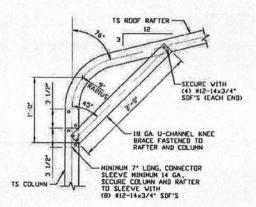
USA STEEL BUILDINGS

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ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH	
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	DRAWN BIT AT		210 AIRPORT	KUAL)
	CHECKED BY: PDH		MOUNT AIRY, 1 6'-0" SP ENCLOS		
1	PROJECT MGP6 VSM	DATE: 4-21-21	SCALE: NTS	has	ND 16220S/ 18104S/21015S
	CLIENTI USA STEEL	SHT. 6A	DVG ND SK-	3	REV. 3

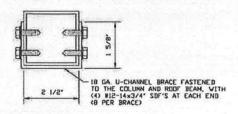


EXPOSURE B



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

SCALE: NTS

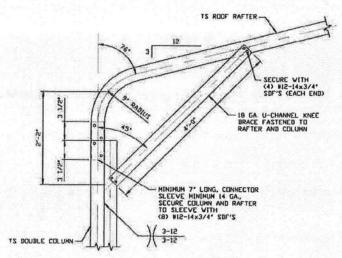


BRACE SECTION
SCALE: NTS



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1D

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
SCALE NTS

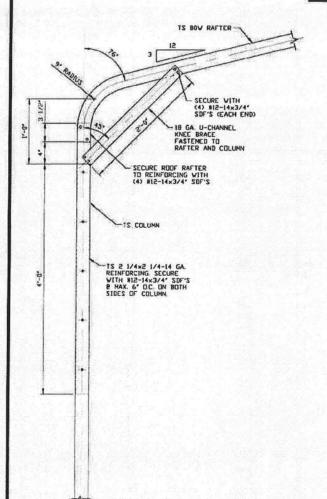
18 GA U-CHANNEL BRACE FASTENED
TO THE COLUMN AND RODE BEAM, VITI
(4) NI2-14x3/4* SDF'S AT EACH END
(8) PER BRACE)

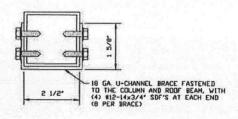
BRACE SECTION
SCALE: NTS



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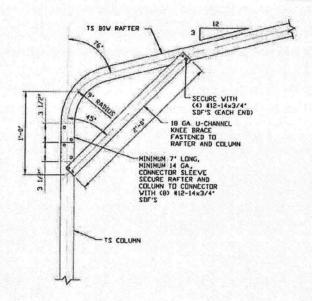
BRACE SECTION
SCALE: NTS

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

SCALE NTS

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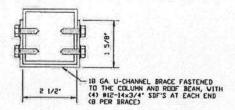
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ENGINEEDING AND CONGULTING INC	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x16'-0" SP ENCLOSED STRUCTURE				
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BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \(\frac{9'-0'}{0'} \) FOR WIND SPEEDS 141 MPH \(\tau \) TO \(\frac{170}{0'} \) MPH AND HEIGHTS \(\frac{10'-0'}{0'} \) FOR WIND SPEEDS \(\frac{1}{40} \) MPH

1F

SCALE: NTS



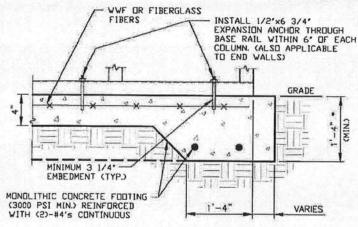
BRACE SECTION
SCALE: NTS



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



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4".

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

GENERAL NOTES

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

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 AGIS GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

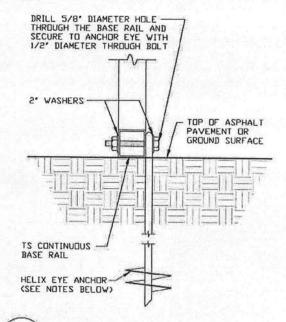
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED.

REINFORCEMENT IS BENT COLD.
 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT.

BE FIELD BENT

HELIX ANCHOR NOTES:

- 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 VITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50° EMBEDMENT.
- 4. FOR LODSE 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

(CAN BE USED FOR ASPHALT) * COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING REQUIRED ANCHOR LENGTH.



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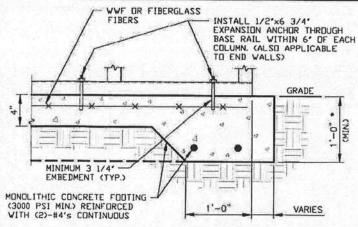
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	PROJECT MGR VSM	DATE: 4-21-21	SCALE NTS	JUB	ND 16220S/ 18104S/21015S			
1	CLIENTI USA STEEL	SHT. 8	DVG ND SK-3		REVJ 3			

BASE RAIL ANCHORAGE OPTIONS FOR WIND SPEEDS ≤ 140 MPH



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE MINIMUM ANCHOR EDGE DISTANCE IS 4".

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

GENERAL NOTES

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

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 PARS 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.

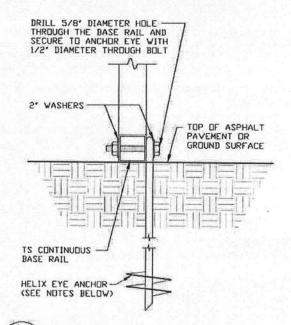
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

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 VITH 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 CDARSE 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
- FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM
- 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.



GROUND BASE HELIX ANCHORAGE (CAN BE USED FOR ASPHALT)

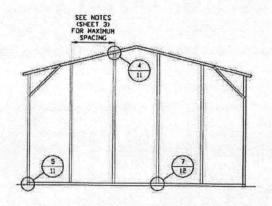
> COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING REQUIRED ANCHOR LENGTH.



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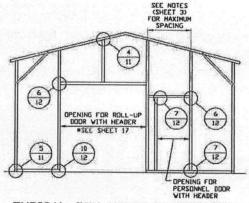
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



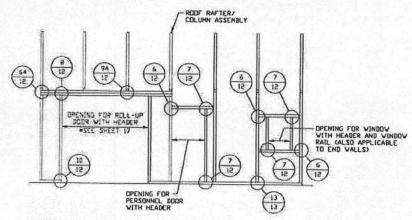
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION

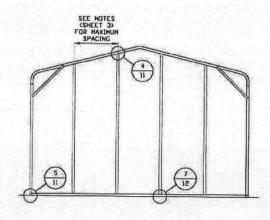
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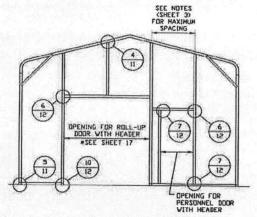
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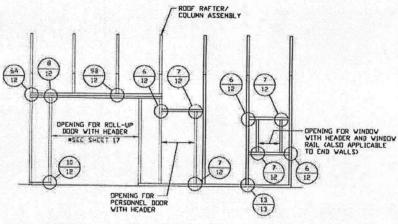
BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOW RAFTER END WALL FRAMING SECTION SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION SCALE: NTS



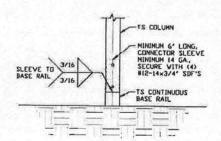
TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION SCALE: NTS



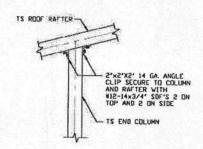
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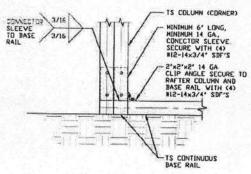
CONNECTION DETAILS

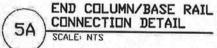


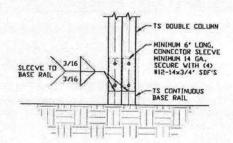
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



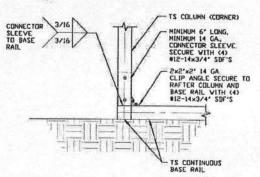
4 END COLUMN/RAFTER CONNECTION DETAIL SCALE: NTS



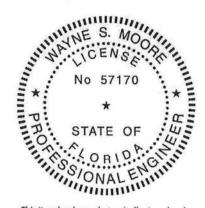




RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

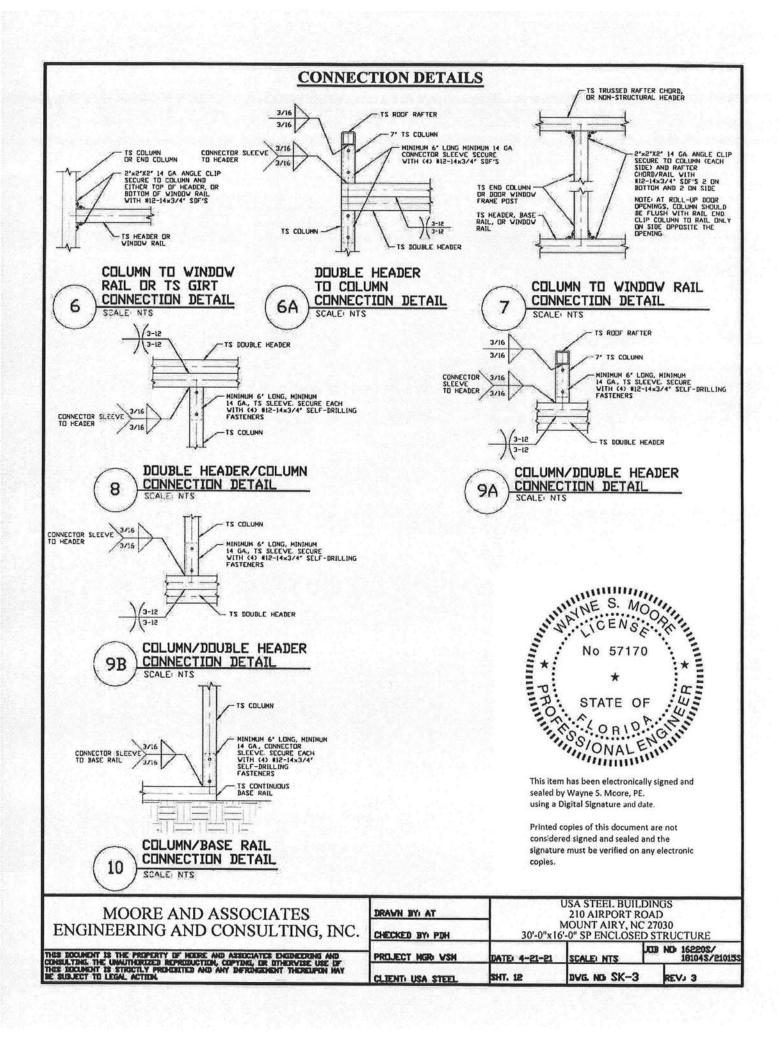


5 CONNECTION DETAIL SCALE: NTS

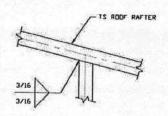


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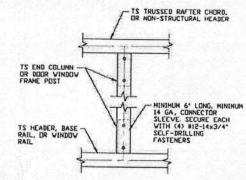


CONNECTION DETAILS



RAFTER TO CHORD CONNECTION DETAIL

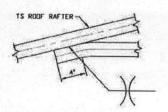
SCALE, NTS



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

13

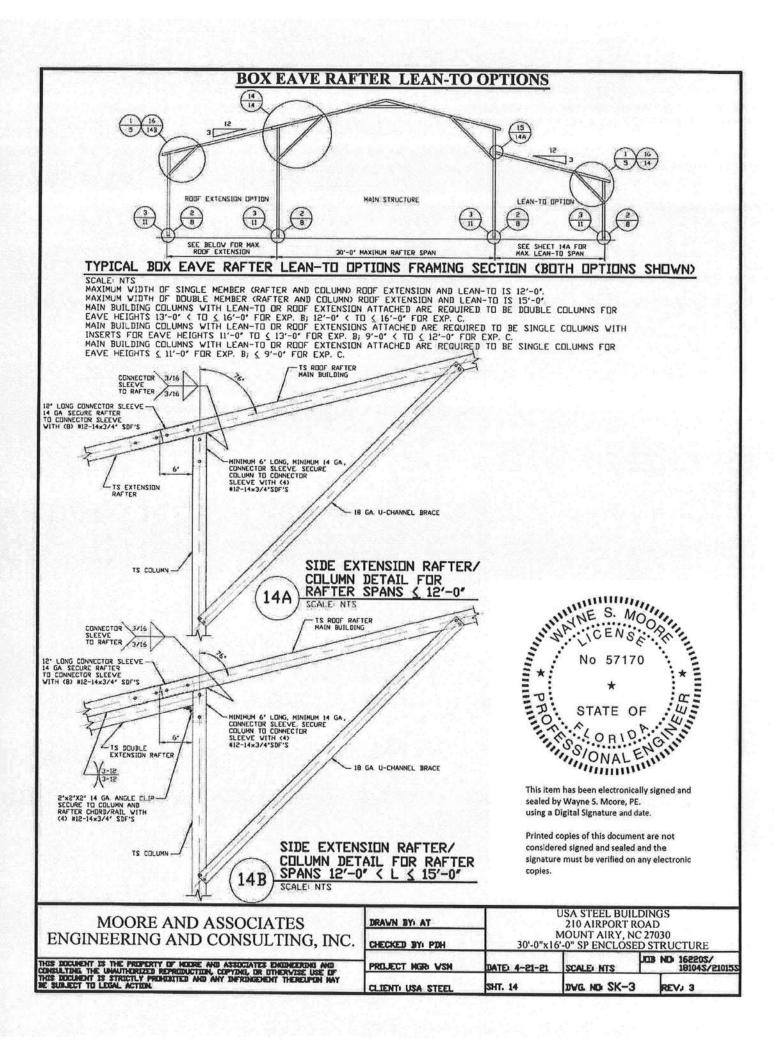


12 COLLAR TIE CONNECTION DETAIL

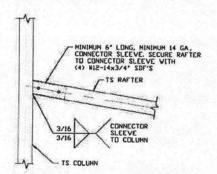


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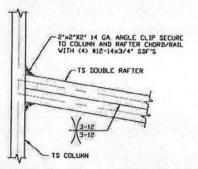


BOX EAVE RAFTER LEAN-TO OPTIONS



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

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



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

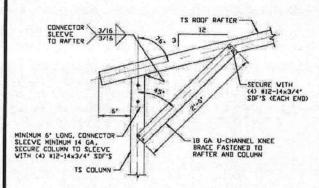
NOTE: ROOF PITCH OF 2:12 TO 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER



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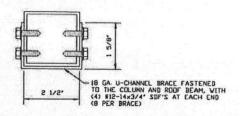
BOX EAVE RAFTER LEAN-TO OPTIONS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 14'-0" 16

SCALE: NTS

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



BRACE SECTION



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BOW EAVE RAFTER LEAN-TO OPTION TO OPTION MAIN STRUCTURE 3 2 (8) 3 11 SEC BELOW FOR 30'-0" MAXIHUM RAFTER SPAN

TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE NTS

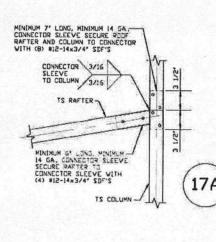
MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0'.

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.

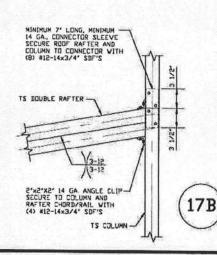
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS \(\) 11'-0' FOR EXP. B; \(\) 9'-0' FOR EXP. C.



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

SCALE: NTS

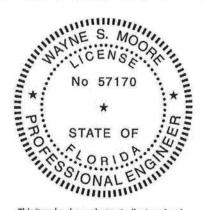
NOTE: ROOF PITCH OF 2:12 TO 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER



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

SCALE: NTS

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



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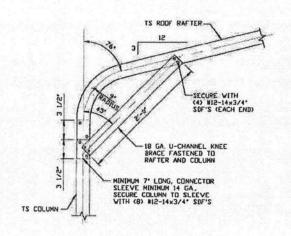
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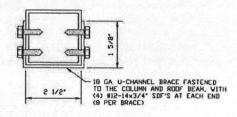
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PROJECT NGR: VSH	DATE: 4-21-21	SCALE: NTS	JUB ND 16220S/ 18104S/21015S
CHECKED BY: PDH		NC 27030 SED STRUCTURE	
DRAWN BY: AT		USA STEEL BU 210 AIRPORT	

SHT. 15 DWG. NO SK-3 REV. 3 CLIENTI USA STEEL

BOW EAVE RAFTER LEAN-TO OPTIONS





BRACE SECTION
SCALE: NTS

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

SCALE: NTS

18

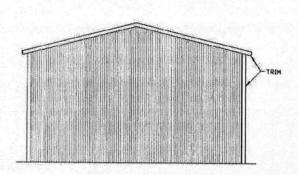
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)



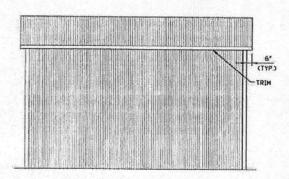
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

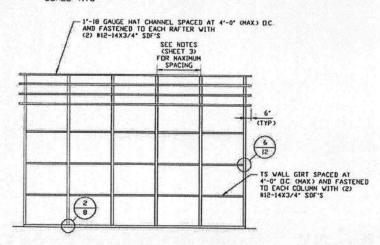


TYPICAL END ELEVATION VERTICAL ROOF/SIDING



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

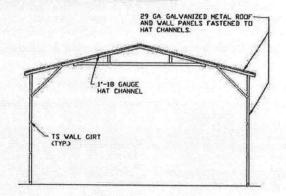
SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

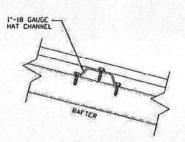
SCALE: NTS

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.) D.C.



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



PANEL ATTACHMENT

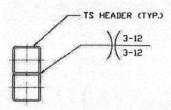
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



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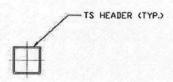
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<u>HEADER OPTIONS FOR WIND SPEEDS 141 MPH < TO \leq 170 MPH</u> SIDEWALL HEADER OPTIONS



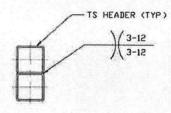
HEADER DETAIL FOR 10'-0' < LENGTHS ≤ 12'-0'

SCALE NTS

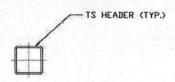


HEADER DETAIL ≤ 10'-0" SCALE: NTS

ENDWALL HEADER OPTIONS



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



HEADER DETAIL & 13'-0"

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USA STEEL BUILDINGS

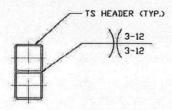
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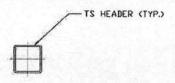
1.	DRAWN BY: AT	210 AIRPORT ROAD			
	CHECKED BY PDH		030 TRUCTURE		
	PROJECT HOR VSM	DATE: 4-21-21	SCALE) NTS JIB ND 16220S/ 10104S/2		ND 16220S/ 18104S/21015S
	CHIENT, HOA OTCH	SHT. 17 TOUG		3	BEV. 3

HEADER OPTIONS FOR WIND SPEEDS ≤ 140 MPH

SIDEWALL HEADER OPTIONS

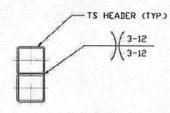


HEADER DETAIL FOR 10'-0" < LENGTHS ≤ 16'-0"



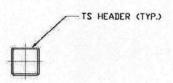
HEADER DETAIL & 10'-0"

ENDWALL HEADER OPTIONS



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

SCALE: NTS



HEADER DETAIL & 13'-0"



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CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x16'-0" SP ENCLOSED STRUCTURE			
PROJECT HGR VSH	DATE 4-21-21	SCALE: NTS	103	ND 16220\$/ 18104\$/21015\$
CLIENT USA STEEL	SHT. 17A	DVG. ND SK-3		REV. 3