

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 32'-0" WIDE X 16'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

1 October 2021 Revision 0 M&A Project No. 21048S

Prepared for:

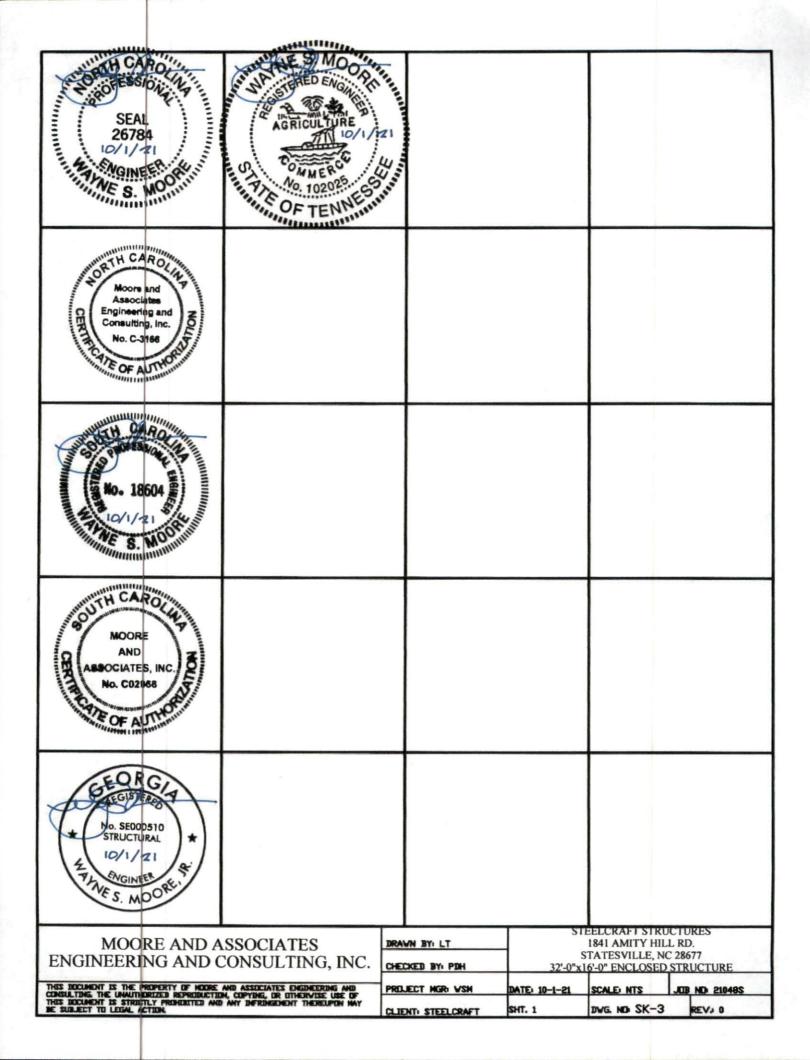
SteelCraft Structures 1841 Amity Hill Rd. Statesville, NC 28677

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





DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 3A	LIST OF APPLICABLE BUILDING CODES
SHEET 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 6	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 7	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
SHEET 8	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 9	BASE RAIL ANCHORAGE OPTIONS
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 11	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW EAVE RAFTER)
SHEET 12	CONNECTION DETAILS
SHEET 13	CONNECTION DETAILS
SHEET 14	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 15	LEAN-TO OPTIONS (BOW EAVE RAFTER)
SHEET 16	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION (BOX EAVE RAFTER)
SHEET 17	SIDE WALL AND END WALL HEADER OPTIONS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT CHECKED BY: PDH	s	EELCRAFT STR 1841 AMITY HI STATESVILLE, N 16'-0" ENCLOSE!	LL RD. NC 28677
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHOBITED AND ANY DEPRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROLIECT NGR: VSM CLIENT: STEELCRAFT		SCALE NTS	JEE NO 210485

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 32'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

= 12 PSF

C) GROUND SNOW LOAD

LOAD = 20 PSF

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (VULT) = < 140 MPH (NOMINAL WIND SPEED = < 108 MPH)
- 5. MAXIMUM RAFTER COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6. ENDWALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2' × 2 1/2' 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4' × 2 1/4' 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS.
- 10. AVERAGE PANEL SPACING DN-CENTERS = 10 INCHES.
- 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 16 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 JOINT SEALANT.
- 12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6' OF EVERY COLUMN.
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT × 30° LONG AND MAY DNLY BE USED IN SUITABLE SOILS.

 DPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED, COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY

R= 3.25

I_ε= 1.0

 $S_{DS} = 2.039 g$ $S_{DI} = 1.258 g$

9 V= C2W

15 CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.

THIS DOCUMENT IS STRUCTLY PROHUNTED AND ANY DIFRONGENENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENTI STEELCRAFT	SHT. 3	DVG. NO SK-	3 REV. 0
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR: VSM	DATE: 10-1-21	SCALE NTS	JUB ND 21048S
ENGINEERING AND CONSULTING, INC.	, INC. CHECKED BY PDH STATESVILLE, NO 32'-0"x16'-0" ENCLOSED			
MOORE AND ASSOCIATES	BRAWN BY: LT		1841 AMITY H	

LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

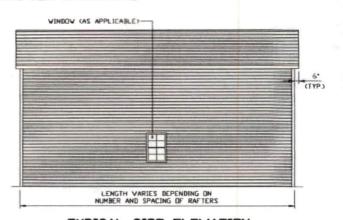
2018 NORTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2018 SOUTH CAROLINA BUILDING CODE (ADDPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2012 OF TENNESSEE (ADOPTS THE IBC 2012 WITH AMENDMENTS)

HIS DOCUMENT IS STRICT	LY PROMUNITED AND ANY INFRINGEMENT THEREUPON MAY	CLIENT: STEELCRAFT	SHT. 3A	DVG. ND SK-	3 REV. 0
OS DOCUMENT IS THE PERSONNELLED	OPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND RIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR: VSM	DATE: 10-1-21	SCALE NTS	JUB ND 21048S
ENGINEEDING AND CONCULTING INC		CHECKED BY: PDH		STATESVILLE, 1 16'-0" ENCLOSE	
MOO	RE AND ASSOCIATES	BRAWN BY: LT	SI	1841 AMITY H	

ROLL-UP DOOR (AS APPLICABLE) PERSONNEL DOOR (AS APPLICABLE) 12 32'-0' MAXIMUM RAFTER SPAN (V) PERSONNEL DOOR (AS APPLICABLE) LENGTH VA NUMBER AND

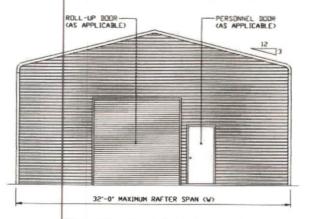


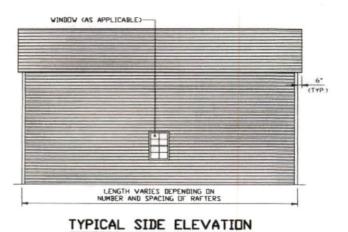
TYPICAL END ELEVATION

TYPICAL SIDE ELEVATION
SCALE: NTS

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE

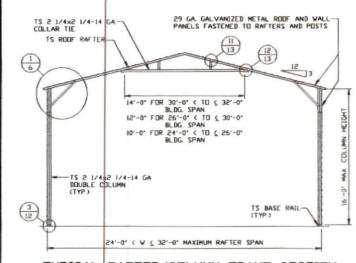




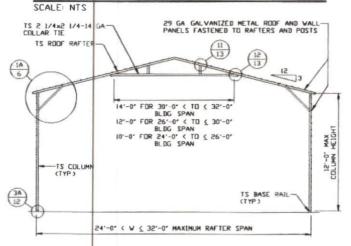
TYPICAL END ELEVATION

SCALE: NTS

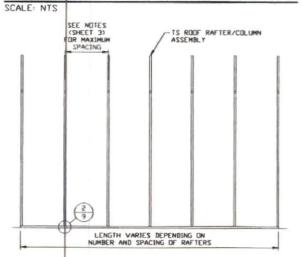
ES DOCUMENT IS STRICT	LY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY	CLIENT: STEELCRAFT	SHT. 4	DVG. NO SK-	3 REV. 0	
ES DOCUMENT IS THE P	EUPERTY OF MOURE AND ASSOCIATES ENGINEERING AND RIZED REPRIDUCTION, COPYING, OR OTHERWISE USE OF	PROJECT HGR: VSH	DATE: 10-1-21	SCALE: NTS	JUB ND 21048S	
ENGINEER	NG AND CONSULTING, INC.	CHECKED BY: PDH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE			
MOC	RE AND ASSOCIATES	DRAWN BY: LT	1841 AMITY HILL RD.			



TYPICAL RAFTER/COLUMN FRAME SECTION

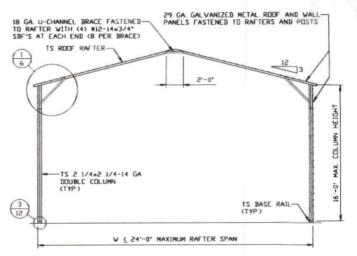


TYPICAL RAFTER/COLUMN FRAME SECTION



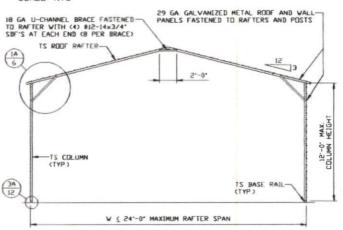
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
THES DOCUMENT IS THE PROPERTY OF HEIGHE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THES DOCUMENT IS STRUCTLY PROMOBITED AND ANY DIFFERENCEMENT THERELIPON HAY BE SUBJECT TO LEGAL ACTION.



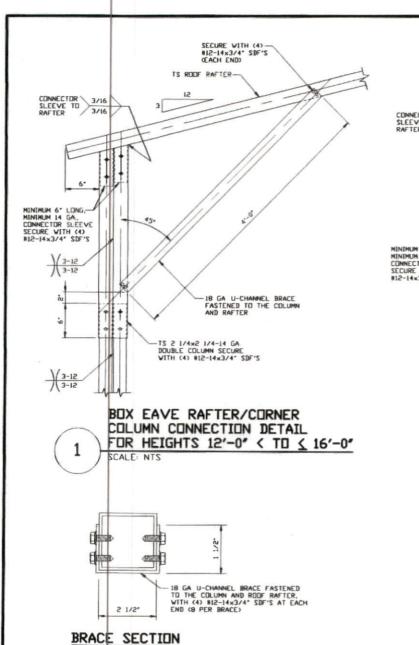
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



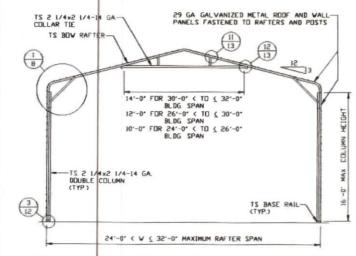
TYPICAL RAFTER/COLUMN FRAME SECTION

	SHT. 5	DVG. ND SK-3	REV. 0
PROJECT HGR: VSH	DATE: 18-1-21	SCALE: NTS	JEB ND 21048S
CHECKED BY: PDH		STATESVILLE, N (16'-0" ENCLOSEI	
DRAWN BY: LT	_	1841 AMITY HI	LL RD.

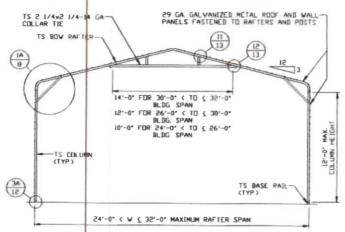


BRACE SECTION
SCALE: NTS

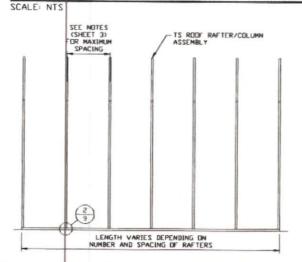
THIS DECIMENT IS STRICTLY PROHUBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: STEELCRAFT	SHT. 6	DVG. NO SK-	3	REV. 0			
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPREDUCTION, COPYING, OR OTHERVISE USE OF	PROJECT HOR: VSH	DATE: 10-1-21	SCALE) NTS	JUB	ND 21048S			
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	2013/00/00/00	STATESVILLE, 16'-0" ENCLOSE					
MOORE AND ASSOCIATES	OCIATES BRAWN BY: LT		1841 AMITY HILL RD.					



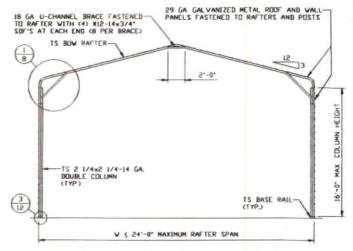
TYPICAL RAFTER/COLUMN FRAME SECTION



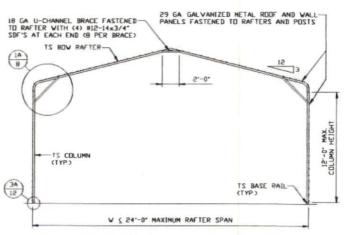
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

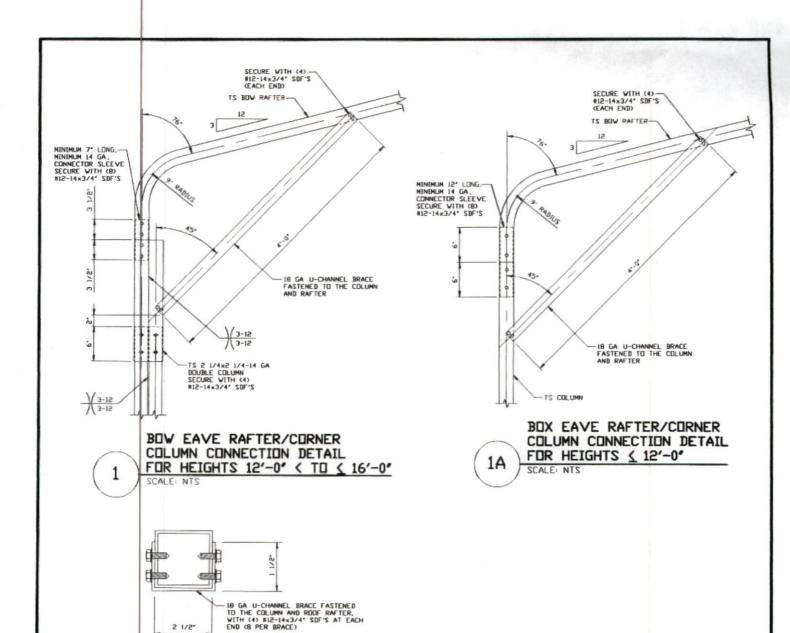


TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION

HIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: STEELCRAFT	SHT. 7	DVG. NO SK-3	REVA	0
THIS DUCUMENT IS THE PHOPERTY OF NOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYDIG, OR OTHERWISE USE OF	PROJECT HGR: VSH	DATE: 10-1-21	SCALE NTS	JOB ND 2	10485
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	5,000,000,000	STATESVILLE, N 16'-0" ENCLOSEI		RE
MOORE AND ASSOCIATES	DRAWN BY: LT	Si	1841 AMITY HI		



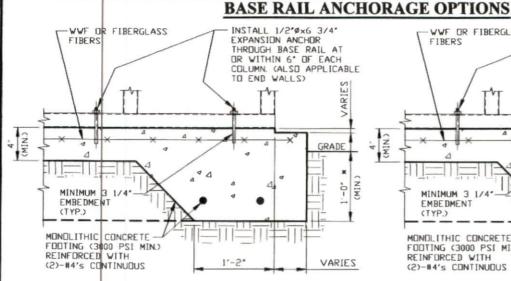
BRACE SECTION

2 1/2"

MOO	RE AND ASSOCIATES
ENGINEERI	NG AND CONSULTING, INC.

THIS DOCUMENT IS THE PE	OPERTY OF HOORE AND ASSOCIATES ENGINEERING AND
CORNER TRACT THE LALLES	TEXT OF PRINCE NEW PRINCES ENGINEERING AND
COMPOSITION THE CHANGING	RIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF
THIS DOCUMENT IS STRICT	Y PRIMITED AND ANY INFRINCEMENT THEREUPON MAY
BE SUBJECT TO LEGAL AC	TITEL

CLIENT: STEELCRAFT	SHT. 8	DING NO SK-3		REV. 0	
PROJECT HGR: WSH	DATE: 10-1-21	SCALE NTS JOB NO		ND 210485	
CHECKED BY: PDH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT	1841 AMITY HILL RD.				



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4'.
COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

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.

REINFURCING STEEL

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

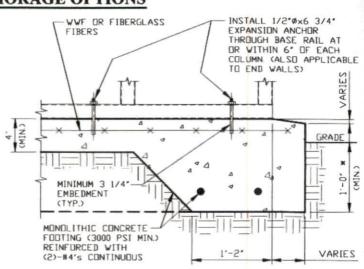
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

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

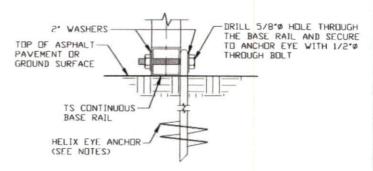
HELIX ANCHOR NOTES:

- I. 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.
- 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
- FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



CONCRETE SLAB BASE RAIL ANCHORAGE SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 4" COURDINATE WITH LOCAL CODES/ORD. REGARDING MINIMUM FROST DEPTH REQ.



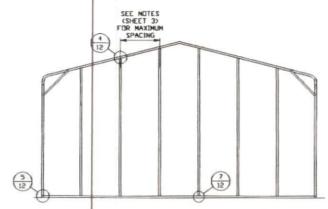
GROUND BASE HELIX ANCHORAGE

(CAN BE USED FOR ASPHALT) * COURDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

	RE AND ASSOCIATES NG AND CONSULTING, INC.
CONSIDERATIONS. THE UNALITHE	DPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND RIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF LY PROHEBITED AND ANY INFRINGENENT THEREUPON MAY TION.

PRELIECT HGR: VSM	SCALE NTS					
DRAWN BY: LT	1841 AMITY HILL RD. STATESVILLE, NC 28677					

BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

DPENING FOR
ROLL-UP DOOR
WITH HEADER

(SEE SHEET 17)

DPENING FOR
PERSONNEL DOOR
WITH HEADER

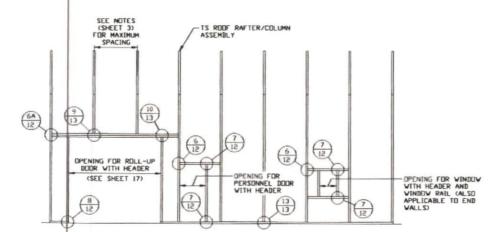
(3)

12

DPENING FOR
PERSONNEL DOOR
WITH HEADER

TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

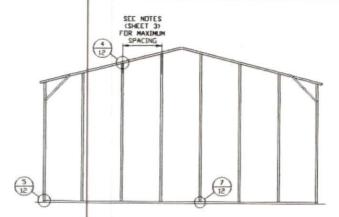
SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

THIS DOCUMENT IS STRUCTLY PROHUBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: STEELCRAFT	SHT. 11	DVG. NO SK-	3 REVIO
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNMUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGR: VSM	DATE: 10-1-21	SCALE: NTS	JOB ND 21048S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	12727471414	STATESVILLE, 16'-0" ENCLOSE	
MOORE AND ASSOCIATES	BRAWN BY: LT		1841 AMITY H	ILL RD.

BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

OPENING FOR
ROLL-UP DOOR
VITH HEADER
(SEE SHEET 17)

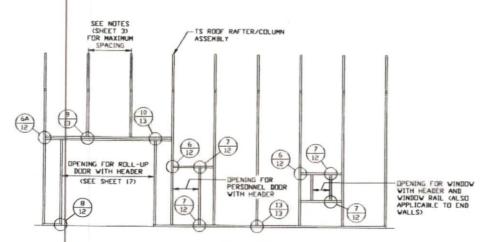
PRISONEL DOOR
VITH HEADER
VITH HEADER

12

OPENING FOR
PERSONNEL DOOR
VITH HEADER

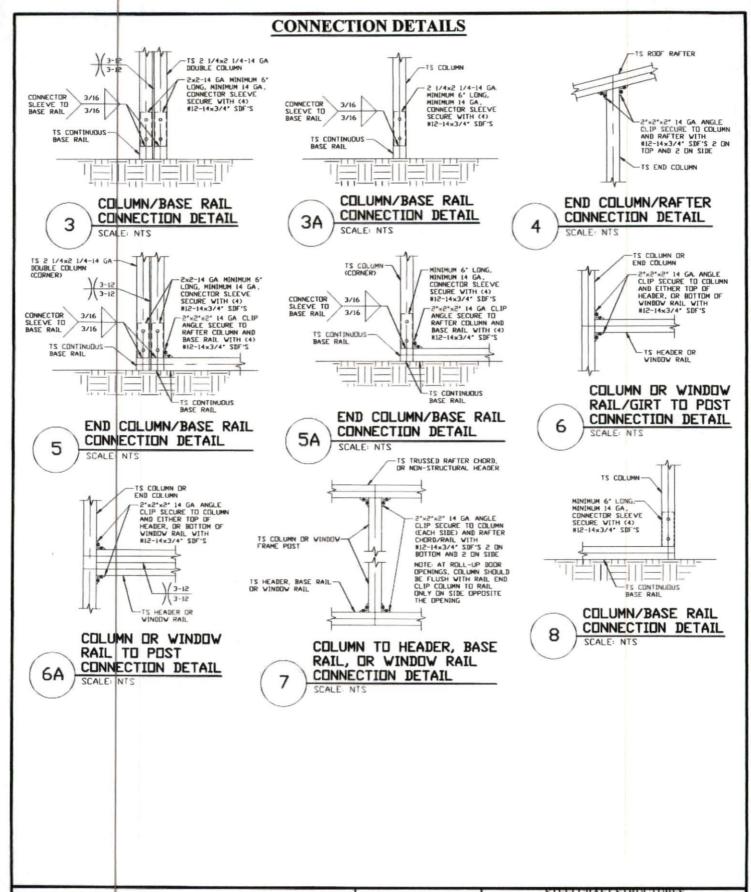
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



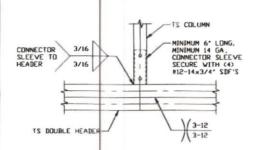
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	-	STEELCRAFT STRUCTURES 1841 AMITY HILL RD. STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE	
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL, ACTURN	PROJECT MGR: VSM	DATE: 10-1-21	SCALE NTS	JUB NO 21048S

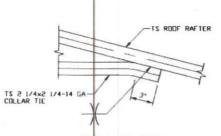


THIS DOCUMENT IS STRICTLY PROHUBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: STEELCRAFT	SHT. 12	DVG. ND SK-	3 R	EV. 0
HIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYDIG, OR OTHERWISE USE OF	PROJECT HGR: VSH	DATE: 10-1-21	SCALE: NTS	JUB	ND 21048S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		STATESVILLE, 1 (16'-0" ENCLOSE		
MOORE AND ASSOCIATES	DRAWN BY: LT		1841 AMITY H	ILL RD.	

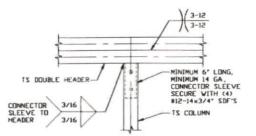
CONNECTION DETAILS



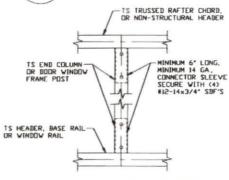
9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL



12 CUNNECTION DETAIL



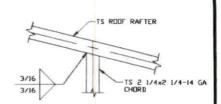
10 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS



COLUMN TO HEADER OR BASE RAIL

CONNECTION DETAIL

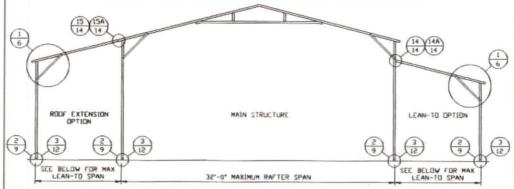
SCALE: NTS



RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS

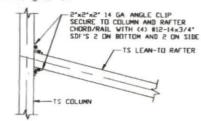
THIS DOCUMENT IS STRICTLY PROMOBITED AND ANY DIFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: STEELCRAFT	SHT. 13	DVG. ND SK-	3	REVA 0
THIS IDCLIMENT IS THE PROPERTY OF MIDDRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT HGR: VSH	DATE: 10-1-21	SCALE NTS	JO	2040S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	1	STATESVILLE, 16'-0" ENCLOSE		
MOORE AND ASSOCIATES	DRAWN BY: LT		1841 AMITY H	ILL RI	D.

BOX EAVE RAFTER LEAN-TO OPTIONS



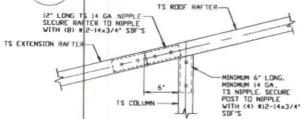
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM WIITH OF SINGLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 12'-0' MAXIMUM WIITH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16'-0'. MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 12'-0' < TO < 16'-0' MAIN BUILDING COLUMNS WITH LEAN-TO DR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMN FOR EAVE HEIGHTS < 12'-0'.



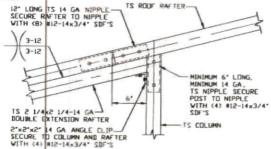
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

FOR RAFTER SPANS & 12'-0" 14 TS ROOF RAFTER-



\$IDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS & 12'-0" 15

15A



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

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

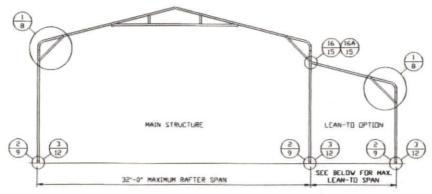
THES DOCUMENT IS THE PR	OPERTY OF HOORE AND ASSOCIATES ENGINEERS UZED REPRODUCTION, COPYING, OR OTHERVISE	G AND
BE SUBJECT TO LEGAL AC	LY PROHUBITED AND ANY INFRINGEMENT THEREU	YON HAY

STEELCRAFT STRUCTURES DRAWN BY: LT 1841 AMITY HILL RD. STATESVILLE, NC 28677 CHECKED BY: PDH 32'-0"x16'-0" ENCLOSED STRUCTURE PROJECT HOR VSM DATE: 10-1-21 SCALE: NTS JUB ND 21048S SHT. 14 DWG. NO SK-3 REV. 0 CLIENTI STEELCRAFT

-2'x2'x2' 14 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER CHORD/RAIL WITH (4) #12-14x3/4' SDF'S 2 ON BOTTOM AND 2 ON SIDE TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < T□ < 16'-0" 14A

BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

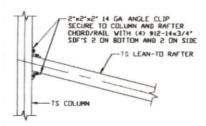
SCALE: NTS

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

MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16'-0'.

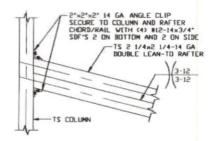
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 12'-0' < TO < 16'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMN FOR EAVE HEIGHTS (12'-0', 12'-0').



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\) 12'-0'

16 SCALE: NTS



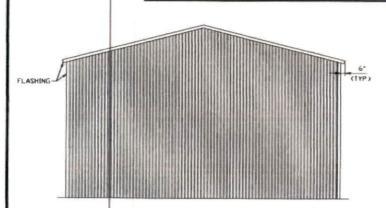
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL FOR
RAFTER SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS

16A

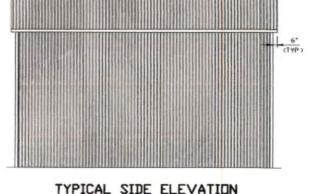
HES DOCUMENT IS STRICTE E SUBLECT TO LEGAL ACT	Y PROHOBITED AND ANY DIFROMEMENT THEREUPON MAY	CLIENT: STEELCRAFT	SHT. 15	DVG. NO SK-	3 REV. 0		
MASON INC. CLASSICIATE	PERTY OF HOUSE AND ASSOCIATES ENGINEERING AND IZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT HOR: VSH	DATE: 10-1-21	SCALE: NTS	JEB ND 21048S		
ENGINEERI	NG AND CONSULTING, INC.	CHECKED BY: PDH	(20002707031H)	STATESVILLE, 16'-0" ENCLOSE	NC 28677 ED STRUCTURE		
	RE AND ASSOCIATES	BRAWN BY: LT	1841 AMITY HILL RD.				

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



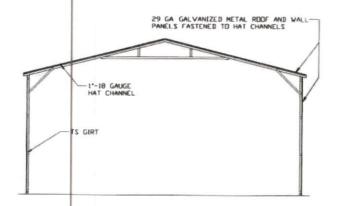
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



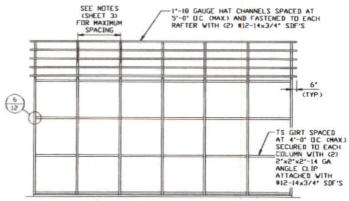
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



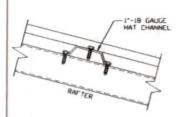
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



PANEL ATTACHMENT

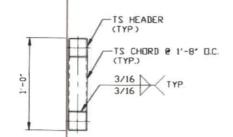
(ALTERNATE FOR VERTICAL ROOF PANELS)

MOO	RE AND ASSOCIATES
ENGINEERI	NG AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

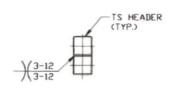
DRAWN BY: LT CHECKED BY: PDH	STATESVILLE, NC		ILL RI NC 28	D. 677
PROJECT HGR: VSH	DATE: 10-1-21	SCALE: NTS	JOE	ND 21048S
CLIENT, STEEL COAFT	SHT. 16	DVG. ND SK-	3	REV. D

SIDE WALL HEADER OPTIONS



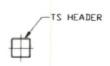
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 14'-0' < LENGTH \(\) 16'-0'

SCALE: NTS



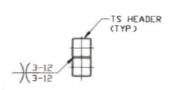
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 8'-0' < LENGTH \(\) 14'-0'

SCALE: NTS



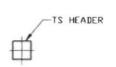
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS & 8'-0'

END WALL HEADER OPTIONS



HEADER DETAIL FOR SIDE WALL
DOOR OPENINGS
13'-0' < LENGTH \(\) 16'-0'

SCALE: NTS



HEADER DETAIL FOR END WALL DOOR OPENINGS ≤ 13'-0"

THIS DOCUMENT IS STRICT! BE SUBJECT TO LEGAL AC	Y PROHUBITED AND ANY IMPROVICEMENT THERELPON MAY	CLIENTI STEELCRAFT	SHT. 17	DVG. NO SK-	3	REV. 0
DINSULTING THE UNAUTHER	DPERTY OF MODRE AND ASSOCIATES ENGINEERING AND EZZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT HGR: VSM	DATE: 10-1-21	SCALE: NTS	JOB	ND 21048S
ENGINEERI	NG AND CONSULTING, INC.	CHECKED BY: PDH	9000000	STATESVILLE, 16'-0" ENCLOSE		
MOO	RE AND ASSOCIATES	DRAWN BY: LT		RES D.		