

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



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Moore and Associates Engineering and Consulting, Inc. No. C-3168				
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MOORE AND ASSOCIATES, INC. No. C62968				
No. SEDOUSTO STRUCTURAL 10/1/21 PANGINEE S. MOOR				
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ENGINEERING AND C		CHECKED BY PSH	32'-0"x1	6'-0" ENCLOSED STRUCTURE
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PBH		32'-0"x16'-0" ENCLOSED STRUCTURE			
MOORE AND ASSOCIATES	BRANN BY: LT		1841 AMITY HILL RD. STATESVILLE. NC 28677			

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 32'-0" VIDE 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

B) LIVE LOAD

- = 12 PSF
- C) GROUND SNOW 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 (V_{ULT}) = ≤ 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 VALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING CUNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS CUNLESS NOTED DTHERWISE). 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 #12-14x3/4" 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 VITHIN 6" OF EVERY COLUMN.
- 13. STANDARD GROUND ANCHORS (SUIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30° LONG AND MAY DNLY BE USED IN SUITABLE SUILS.

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

SDIL SITE CLASS = D RISK CATEGORY I

R= 3.25

I_E= 1.0 V= C_SW

Sps= 2.039 g Sm= 1.258 g

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

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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PBH	PERSON CONTROL	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE				
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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 STATE AUGUSTATE AUGUSTATE CETTAMBULAMA HTM 8105 DBI STATE CETTAMBULAMA HTM 8105 DBI STATE CETTAMBULAMA STATE AUGUSTA A

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

2018 SOUTH CAROLINA BUILDING CODE CADOPTS THE IBC 2018 VITH AMENDMENTS)

BUILDING CODE 2012 OF TENNESSEE (ADDPTS THE 18C 2012 WITH AMENDMENTS)

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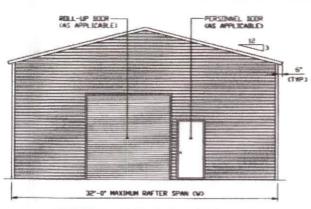
S2'-0"x16'-0" ENCLOSED STRUCTURE

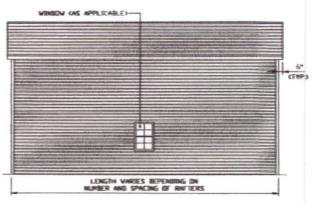
STEELCKAFT STRUCTURES

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PROJECT MGB VSM DATE 10-1-21 SCALE NTS JOB NO 218
CLIENTI STEELCRAFT SHT. 3A DVG. ND SK-3 REV. 0

BOX EAVE FRAME RAFTER STRUCTURE





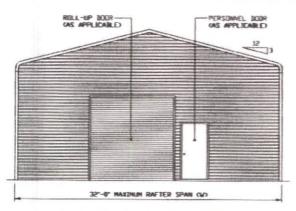
TYPICAL END ELEVATION

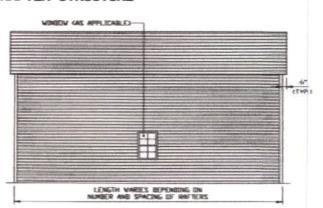
SCALE: NTS

TYPICAL SIDE ELEVATION

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE





TYPICAL END ELEVATION

SCALE: NTS

TYPICAL SIDE ELEVATION

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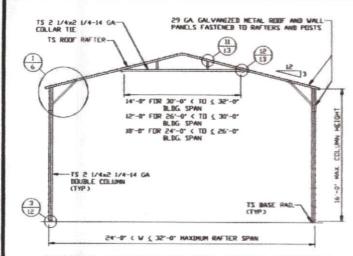
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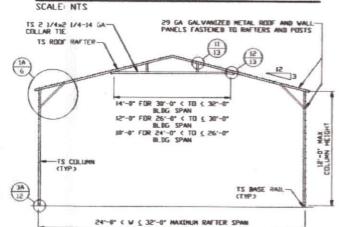
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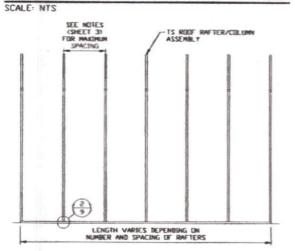
CLIENT: STEELCRAFT



TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

STEELCKAFT STRUCTURES MOORE AND ASSOCIATES BRAWN BY: LT 1841 AMITY HILL RD. STATESVILLE, NC 28677 ENGINEERING AND CONSULTING, INC. CHECKED BY PEN 32'-0"x16'-0" ENCLOSED STRUCTURE THIS EXCLUDENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE LIMITHORIZED REPRODUCTION, COPYENG, OR OTHERWISE USE OF THIS EXCLUDENT IS STRUCTLY PREMINETED AND ANY INFRINGEMENT THERELIPIN MAY BE SUBJECT TO LEGAL ACTION. PROLECT MGR VSM ATE: 10-1-21 SCALE: NTS CIB NO 21046S DWG. ND SK-3 REV. 0 SHT. 5 CLIENT: STEELCRAFT

-TS 2 1/4×2 L/4-14 GA DOUBLE COLUMN (TYP) 16.=0. (3) TS BASE RAIL W C 24"-0" MAXINUM RAFTER SPAN TYPICAL RAFTER/COLUMN FRAME SECTION

IB GA. U-CHANNEL BRACE FASTENES: TB RAFTER WITH (4) BIZ-14x3/4" SUF'S AT EACH END OB PER BRACE)

TS ROOF RAFTER-

29 GA. GALVANEZEB METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS

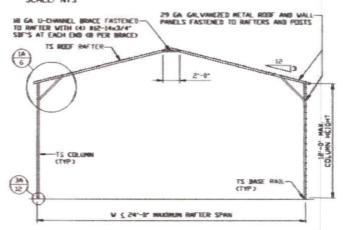
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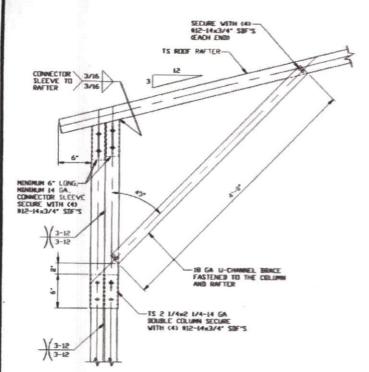
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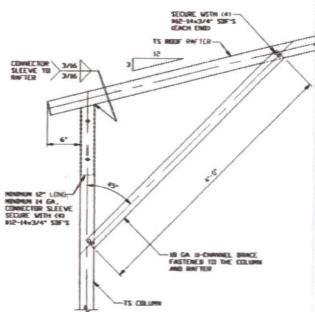
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MAX



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS





BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL

FOR HEIGHTS ≤ 12'-0"

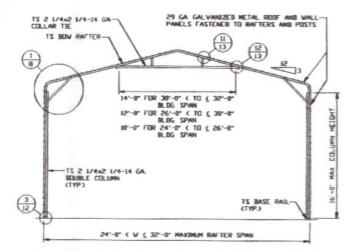
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BOX EAVE RAFTER/CURNER
COLUMN CONNECTION DETAIL
FOR HEIGHTS 12'-0' < TO \(\) 16'-0"

IB GA U-CHANNEL BRACE FASTENED
TID THE COLUMN AND REEF RAFTER,
VITH (4) BIZ-14-X2/4" SEP'S AT EACH
END OF PER BRACE)

BRACE SECTION
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	BRAWN BY: LT CHECKED BY: PBH	1841 AMITY HILL RD. STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCT). 577	
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TYPICAL RAFTER/COLUMN FRAME SECTION

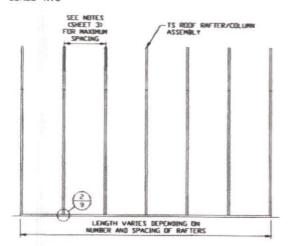
TS 2 I/Az I/A-14 GA

PANELS FASTENED TO RAFTERS AND POSTS

TS BOW RAFTER

TS BASE RAIL

TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



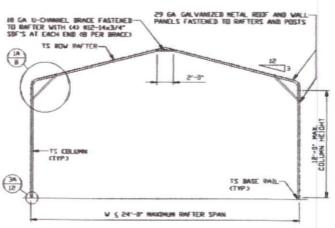
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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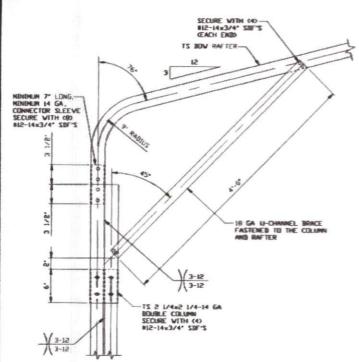
B GA U-CHANNEL BRACE FASTENED TILL RAFTER VITH (4) 412-14-24-7 IS BOW RAFTER TS BOW RAFTER 15 BOW RAFTER 27-0" 15 BASE BASE OCTOPS V C 24'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION

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RE2-14x3/4" SIF'S

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RE2-14x3/4" SIF'S

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TS CORLUMN

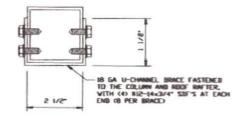
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TO CORLUMN

BOV EAVE RAFTER/CORNER
COLUMN CONNECTION DETAIL
FOR HEIGHTS 12'-0' < TO \(\) 16'-0"

BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL

1A SCALE NIS

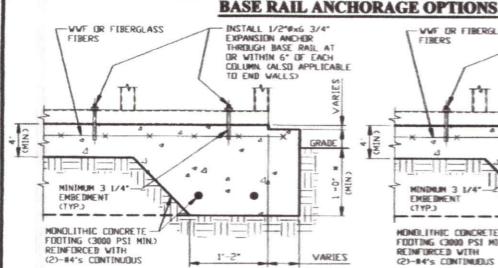


BRACE SECTION

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CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

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

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB BESIGN BASED ON MINIMUM SDIL BEARING CAPACITY DF 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 ACT-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 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

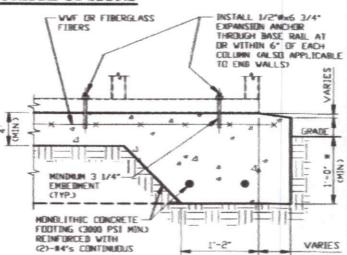
REINFORCEMENT IS BENT COLD.

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

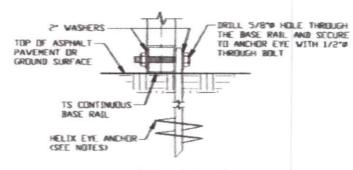
- I FOR VERY DENSE AND/OR CEMENTED SANDS, CDARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT DR SINGLE 6' HELIX WITH MINIMUM SO' FHRETHENT
- 2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MENDMUM 50° EMBEDMENT.
- 3 FOR MEDIUM DENSE CHARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH 30 INCH EMBERMENT 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



2A

CONCRETE SLAB BASE RAIL ANCHORAGE

MEMINUM ANCHOR EDGE DISTANCE IS 4" *- CEURDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST BEPTH RED



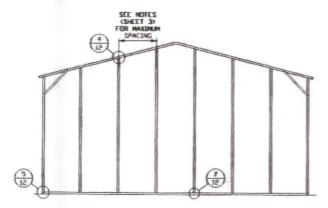
GROUND BASE HELIX ANCHURAGE

(CAN BE USED FOR ASPHALT) * COORDINATE WITH LOCAL CODES/ORD REGARDING MENIMUM FROST DEPTH REQ

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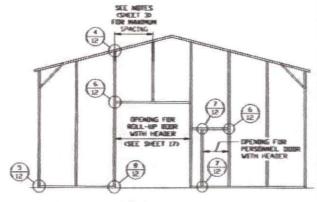
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



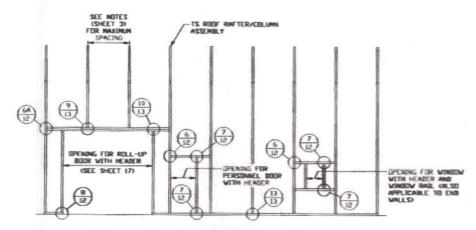
TYPICAL BOX EAVE RAFTER END VALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

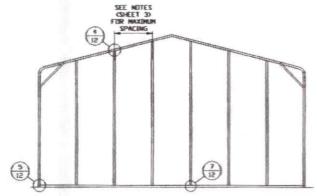
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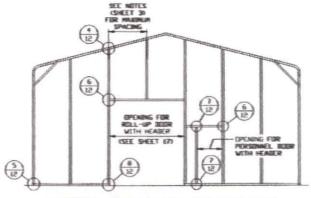
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BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



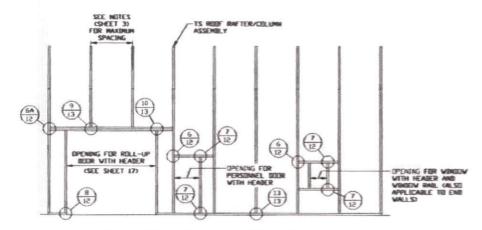
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BUV EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



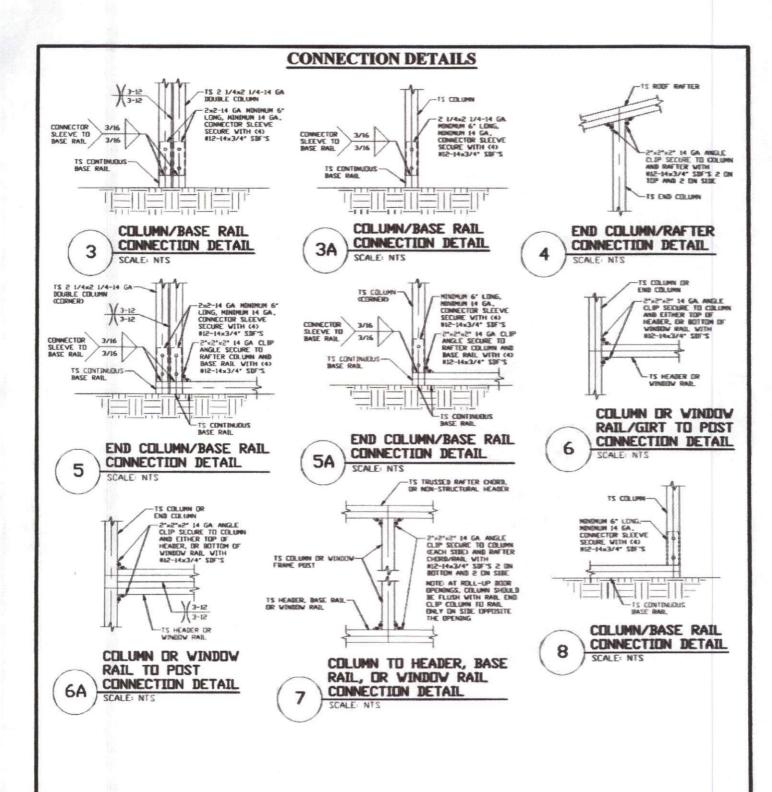
TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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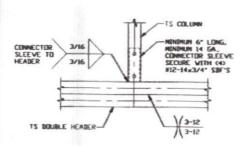
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_	PRELIECT MGR VSM	BATE: 18-1-21	SCALE: NTS	JO	281485 CM 6DL		
	CI HOUR STEEL COAST	SMT. 11	BVG. ND SK-	3	REVA 8		

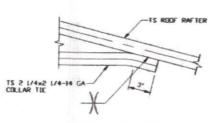


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ENCRIPEDING AND CONCULTIVING INC	CHECKED BY: PDH		STATESVILLE, N 16'-0" ENCLOSE			
MOORE AND ASSOCIATES	BRAWN BY LT		1841 AMITY HILL RD.			

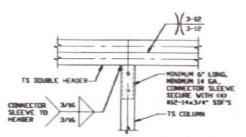
CONNECTION DETAILS



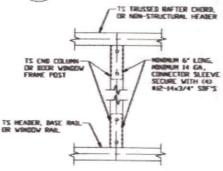
9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL



10 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE NTS



13 CONNECTION DETAIL
SCALE NTS

*	TS ROUF RAFTER
3/16	-12 5 TAPS TA-H 8V
3/16	CHERE

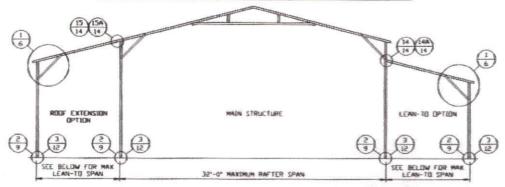
11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS

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	BRAWN BY: LT	STEELCKAFT STRUCTURES 1841 AMITY HILL RD. STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTU			
_	PROJECT NGB VSN	DATE: 10-1-21	SCALD NTS		B ND 21048S
	CI STATE COLUMN	SHT. 13	THUS ME SK-	3	erv. a

BOX EAVE RAFTER LEAN-TO OPTIONS

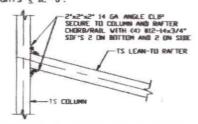


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS MAXIMUM VIDTH OF SINGLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 12"-0".

MAXIMUM VIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16"-0".

MAIN BUILDING COLUMNS VITH 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".

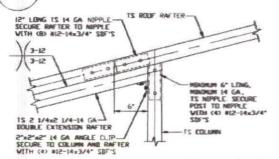


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0" SCALE: NTS

TS ROOF RAFTER 12" LONG TS 14 GA NEPPLE SECURE RAFTER TO NOPPLE VITH (8) #12-14x3/4" SDF TS EXTENSION RAFTER -MINDHUM 6" LONG. MINDHUM 14 GA. TS NIPPLE SECURE POST TO NIPPLE VITH (4) NL2-14x3/4" SDF'S TS COLUMN

14

SIDE EXTENSION RAFTER COLUMN DETAIL FUR SPANS & 12'-0' 15 STALE: NTS



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

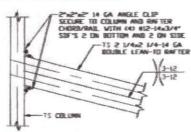
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BRAWN BY: LT	1841 AMITY HILL RD.				
CHECKED BY: PBH		STATESVILLE, 16'-0" ENCLOSE			
PROJECT HGID VSH	DATE 10-1-21	SCALE: NTS	JOH	ND 21948S	
CLIENTO STEELCRAFT	SHT. 14	DVG. ND SK-	3	REV. 0	

CLIENT STEELCRAFT

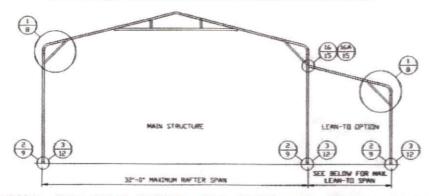
STEELCRAFT STRUCTURES



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

14A

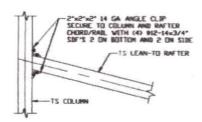
BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

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



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

16

2"x2"x2" 14 GA ANGLE CLIP SECURE TO COLUNN AND RAFTER CHORD/RAIL WITH 44) 812-14x3/4" SDF'S 2 ON BOTTOM AND 2 ON SIDE

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

16A SCALE: NTS

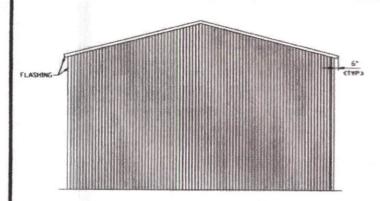
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STEELCRAFT STRUCTURES 1841 AMITY HILL RD. BRAWN BY: LT STATESVILLE, NC 28677 CHECKED BY PDH 32'-0"x16'-0" ENCLOSED STRUCTURE PROLECT HER VSH MTE: 10-1-21 SCALE: NTS 2848S GM EDL

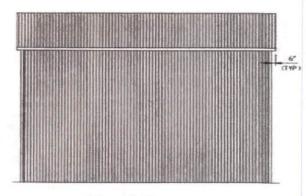
BWG. NO SK-3 SHT. 15 CLIENT: STEELCRAFT

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



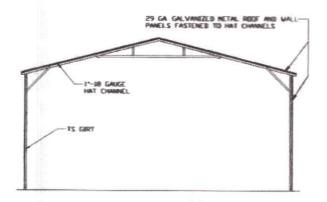
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



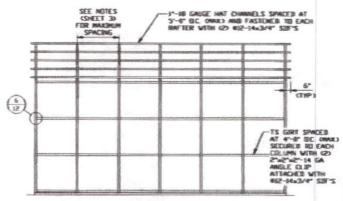
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



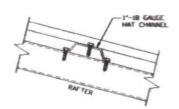
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



PANEL ATTACHMENT

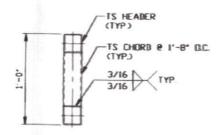
CALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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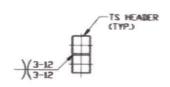
BRAWN BY: LT CHECKED BY: PBH	STEELCRAFT STRUCTURES 1841 AMITY HILL RD. STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE		
PROJECT HGR VSH	DATE: 10-1-21	SCALE: NTS	JUB ND 21048S
CLIENT STEEL CRAFT	SHT. 16	DVG. ND SK-3	REV. 0

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR SIDE VALL DOOR OPENINGS 14'-0' < LENGTH ≤ 16'-0'

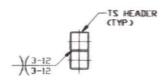
SCALE: NTS



HEADER DETAIL FOR SIDE VALL DOOR OPENINGS 8'-0' < LENGTH \(\) 14'-0" SCALE: NTS TS HEADER

HEADER DETAIL FOR SIDE VALL DOOR OPENINGS & 8'-0' SCALE: NIS

END WALL HEADER OPTIONS



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

SCALE: NTS



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CLIENTO STEELCRAFT	SHT. 17	DAR NO ZK-3		REV/ 0	
PROJECT HER VSH	DATE 10-1-21	SCALE: NTS	Jan	28481S CH	
CHECKED BY: PSH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE				
BRAWN BY: LT	1841 AMITY HILL RD.				