

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:

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







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MOORE AND ASSOCIATES	DRAWN BY: LT		EELCRAFT STRU 1841 AMITY HIL	L RD.
	CHECKED BY: PDH	32'-0"x1	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE	
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	CLIENT: STEELCRAFT	SHT. 2	DWG. NO: SK-3	REV. 0

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:

= 1.5 PSF

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 WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 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 DR WITHIN 6" DF EVERY COLUMN.
- STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT × 30' LONG AND MAY ONLY BE USED IN SUITABLE SOILS.

 OPTIONAL 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 I

R = 3.25

I_E= 1.0 V= CsW

 $S_{0} = 2.039$ g $S_{D1} = 1.258 \ q$

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

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CHECKED BY: PDH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT	STEELCRAFT STRUCTURES 1841 AMITY HILL RD.				

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 (ADDRTS THE IBC 2018 WITH AMENDMENTS)

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

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

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

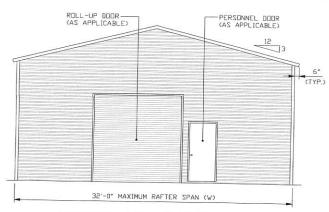


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PROJECT MGR: WSM	DATE: 10-1-21	SCALE, NTS	IDD NO. 210406	
	DATE: 10-1-21 SCALE: NTS USE NTS COLORED STRUCTURE			
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BOX EAVE FRAME RAFTER STRUCTURE



LENGTH VARIES DEPENDING DN
NUMBER AND SPACING OF RAFTERS

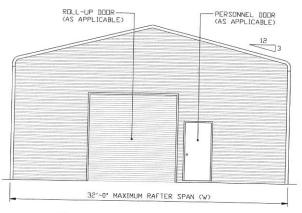
TYPICAL END ELEVATION

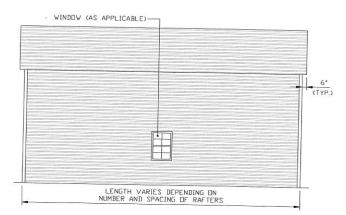
SCALE: NTS

TYPICAL SIDE ELEVATION

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE





TYPICAL END ELEVATION

SCALE: NTS

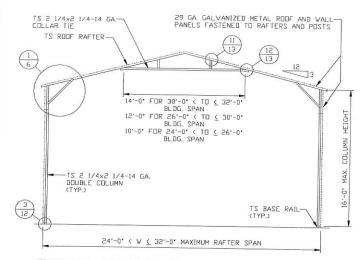
TYPICAL SIDE ELEVATION SCALE: NTS



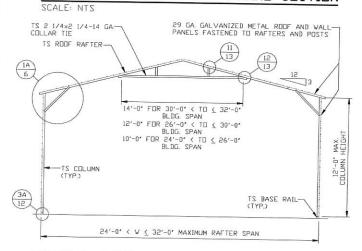
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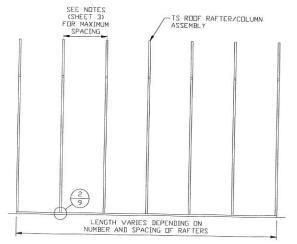


TYPICAL RAFTER/COLUMN FRAME SECTION



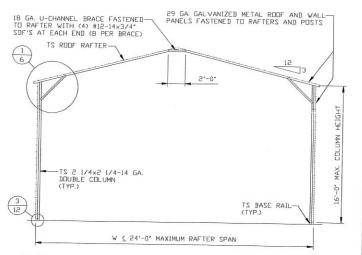
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



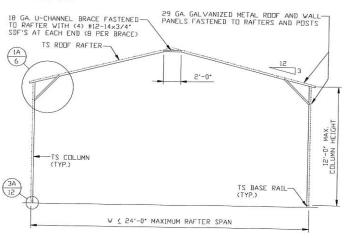
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

CALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

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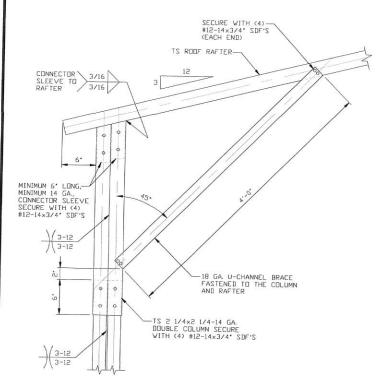
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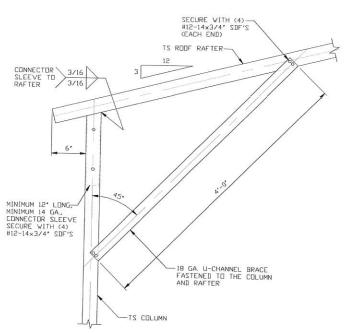
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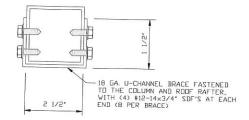


BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FDR HEIGHTS 12'-0" < TD ≤ 16'-0" 1



BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0" 1A

SCALE: NTS

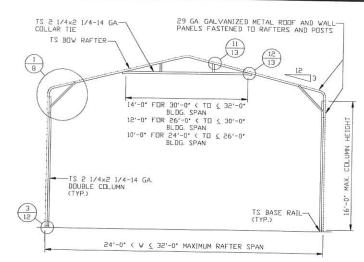


BRACE SECTION

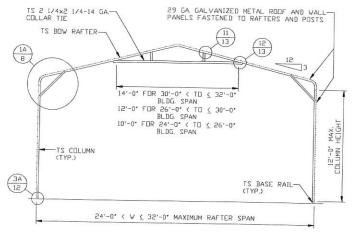
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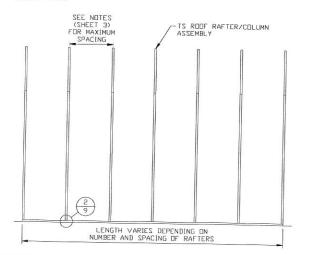
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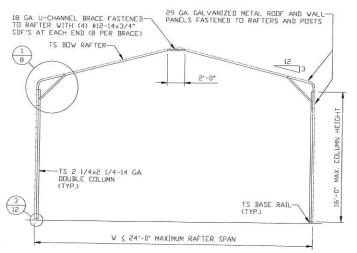
TYPICAL RAFTER/COLUMN FRAME SECTION



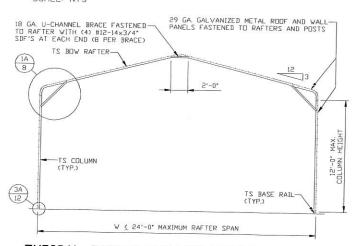
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

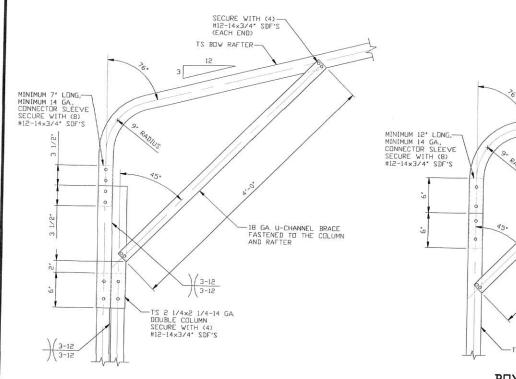


TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



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BOW EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 16'-0"

18 GA. U-CHANNEL BRACE FASTENED
TO THE COLUMN AND ROOF RAFTER,
WITH (4) HIZ-14-3/4' SDF'S AT EACH
END (9 PER BRACE)

BRACE SECTION

BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0"

-18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND RAFTER

SECURE WITH (4) — #12-14×3/4" SDF'S (EACH END)

TS BOW RAFTER



STEELCRAFT STRUCTURES 1841 AMITY HILL RD. STATESVILLE, NC 28677 "x16'-0" ENCLOSED STRUCTURE

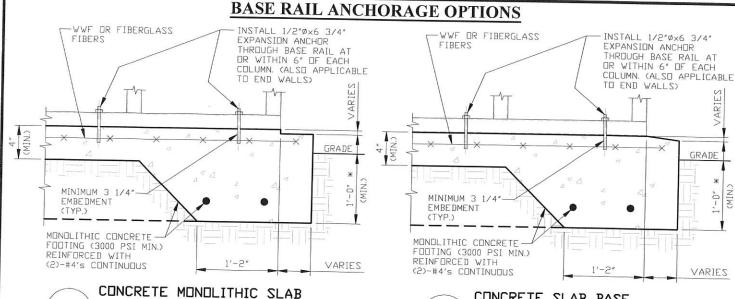
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SCALE: NTS

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GENERAL NOTES

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

BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4'.

* COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL:

SCALE: NTS

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:

- 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
- 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 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.

CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4'.

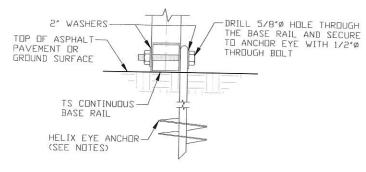
* COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ. VARI

CMIM.)

1,-0"

VARIES

GRADE



GROUND BASE HELIX ANCHORAGE

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

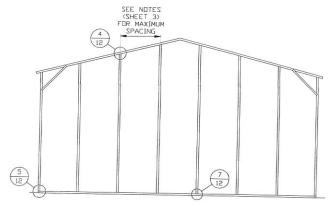
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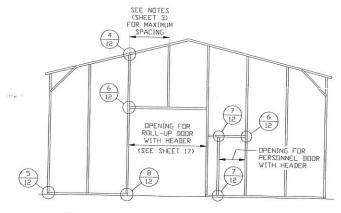
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



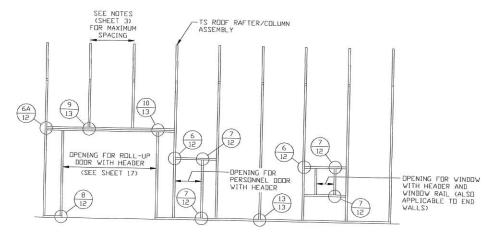
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

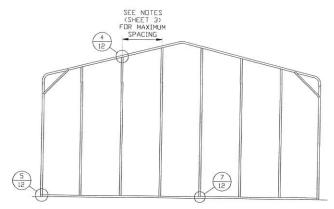
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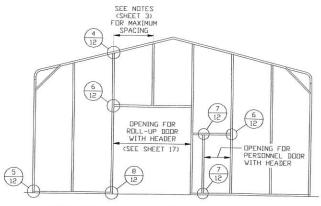
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BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



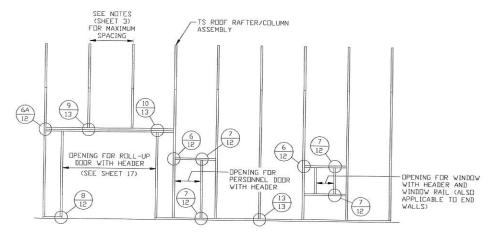
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

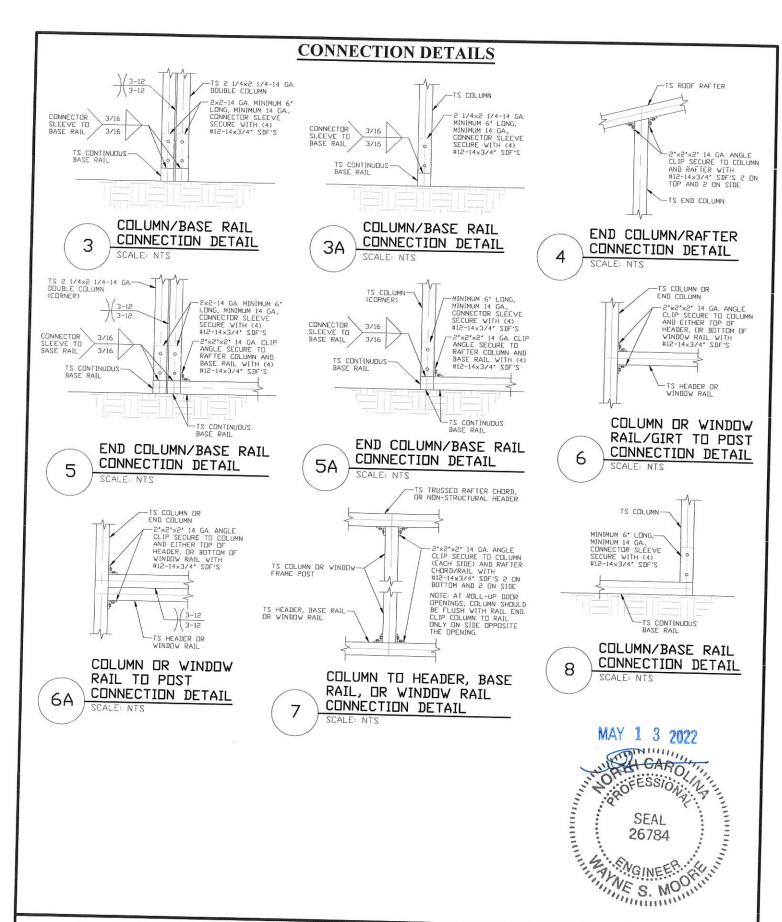
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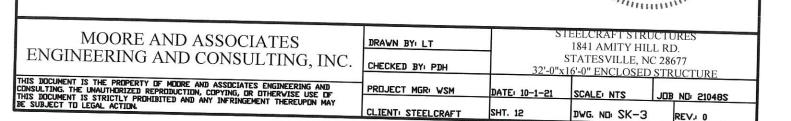
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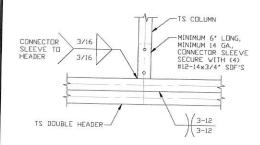
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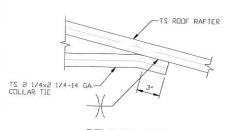




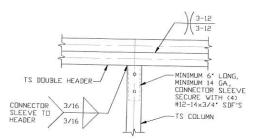
CONNECTION DETAILS



9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

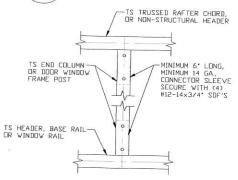


12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

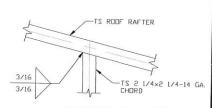


10 DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS



COLUMN TO HEADER
OR BASE RAIL
CONNECTION DETAIL
SCALE: NTS



RAFTER TO CHORD CONNECTION DETAIL SCALE: NTS

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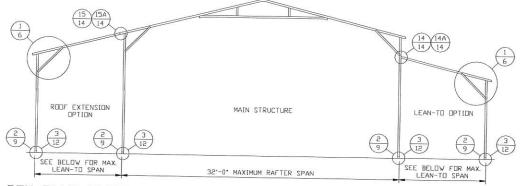
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CLIENT: STEELCRAFT	SHT. 13	DWG. NO: SK-	_	REV. 0
PROJECT MGR: WSM	DATE: 10-1-21	SCALE: NTS	JOB	ND: 21048S
CHECKED BY: PDH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE			
DRAWN BY: LT	S	TEELCRAFT STI 1841 AMITY H		

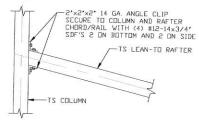
BOX EAVE RAFTER LEAN-TO OPTIONS



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

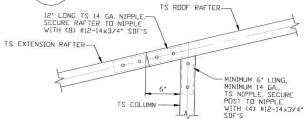
MAXIMUM WIDTH OF SINGLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 12'-0".
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16'-0'. MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 12'-0' < TO < 16'-0".

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



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

SCALE: NTS



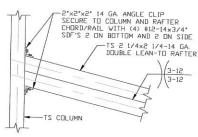
14

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

TS ROOF RAFTER-12" LONG TS 14 GA. NIPPLE.— SECURE RAFTER TO NIPPLE WITH (8) #12-14x3/4" SDF'S 3-15 3-12 -MINIMUM 6' LUNG, MINIMUM 14 GA., TS NIPPLE. SECURE POST TO NIPPLE WITH (4) #12-14×3/4' SDF'S 6 TS 2 1/4×2 1/4-14 GA.— DOUBLE EXTENSION RAFTER TS COLUMN 2'x2'x2' 14 GA. ANGLE CLIP— SECURE TO COLUMN AND RAFTER WITH (4) #12-14x3/4' SDF'S

SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS



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

SCALE: NTS

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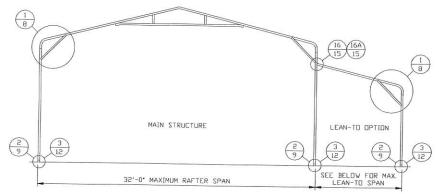


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	RAWN BY: LT		TEELCRAFT STR 1841 AMITY HI STATESVILLE, N (16'-0" ENCLOSE	ILL RI NC 286	D. 677
	ROJECT MGR: WSM	DATE: 10-1-21 SHT. 14	SCALE: NTS	JDB	8 ND: 21048S
LL	IENT: STEELCRAFT	SH1. 14	DWG. NO: SK-3	3	REV. 0

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".

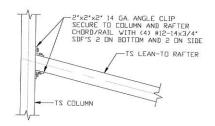
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS

FOR EAVE HEIGHTS 12'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS

FOR EAVE HEIGHTS \(\) 12'-0".



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

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 2 1/4x2 1/4-14 GA.
DOUBLE LEAN-TO RAFTER

3-12

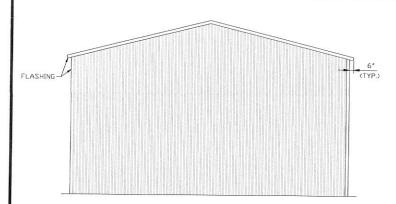
3-12

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

16A) SCALE: NTS

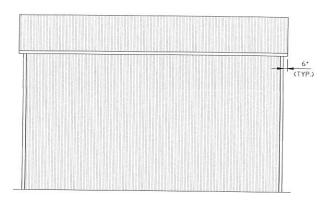
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE			
	PRDJECT MGR: WSM	DATE: 10-1-21	SCALE: NTS	JDB ND: 21048S	
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



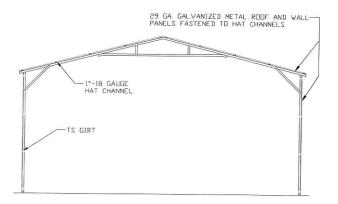
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



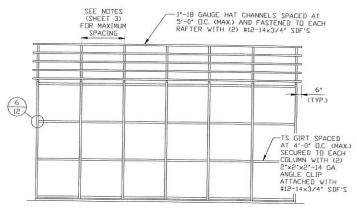
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



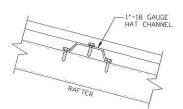
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)

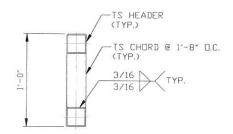


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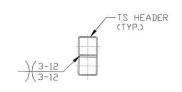
DRAWN BY: LT	STEELCRAFT STRUCTURES 1841 AMITY HILL RD.				
CHECKED BY: PDH	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE				
PRDJECT MGR: WSM	DATE: 10-1-21	SCALE: NTS	JDF	3 ND: 21048S	
CLIENT: STEELCRAFT	SHT. 16	DWG. NO SK-3	3	REV. 0	

SIDE WALL HEADER OPTIONS



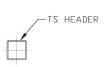
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 14'-0" < LENGTH < 16'-0"

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 8'-0" < LENGTH ≤ 14'-0"

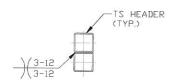
SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS < 8'-0"

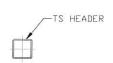
SCALE: NTS

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"

SCALE: NTS



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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	The state of the s	STATESVILLE, NC 28677 32'-0"x16'-0" ENCLOSED STRUCTURE			
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