

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

21 March 2022 Revision 1 M&A Project No. 19164S/22020S

Prepared for:

TOL Buildings, Inc. P.O. Box 542 Toast, NC 27049

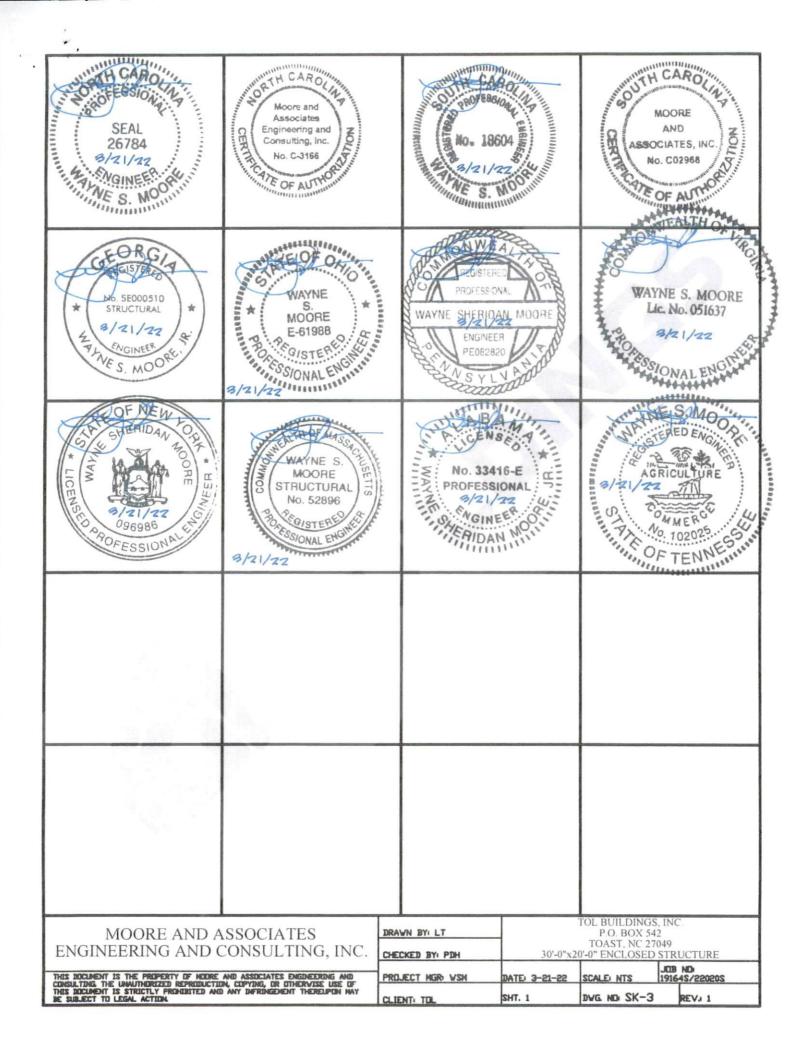
Prepared by:

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DRAWING INDEX TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION SHEET 7C (BOW EAVE RAFTER) 60 PSF < SL < 70 PSF EXPOSURE C SHEET 7D TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOW EAVE RAFTER) SL (60 PSF EXPOSURE B/C TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION SHEET 7E (BOW EAVE RAFTER) SL (60 PSF EXPOSURE B/C SHEET 7F TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOW EAVE RAFTER) SL (30 PSF EXPOSURE B/C RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8 (60 PSF < SL < 70 PSF EXPOSURE B) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8A (60 PSF < SL < 70 PSF EXPOSURE B) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8B (60 PSF < SL < 70 PSF EXPOSURE B) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8C (60 PSF < SL < 70 PSF EXPOSURE C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8D (60 PSF < SL ≤ 70 PSF EXPOSURE C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8E (60 PSF < SL < 70 PSF EXPOSURE C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8F (SL ≤ 60 PSF EXPOSURE B/C) SHEET 8G RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) (SL < 60 PSF EXPOSURE B/C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8H (SL < 60 PSF EXPOSURE B/C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET BJ (SL < 60 PSF EXPOSURE B/C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8K (SL < 60 PSF EXPOSURE B/C) RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 8L (SL ≤ 30 PSF EXPOSURE B/C) SHEET 8M RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) (SL ≤ 30 PSF EXPOSURE B/C) BASE RAIL ANCHORAGE OPTIONS WITH ATTACHED LEAN-TO SHEET 9 BASE RAIL ANCHORAGE OPTIONS WITHOUT ATTACHED LEAN-TO SHEET 9A BASE RAIL ANCHORAGE OPTIONS SHEET 9B SHEET 10 TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER) TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW RAFTER) SHEET 11 CONNECTION DETAILS SHEET 12 CONNECTION DETAILS SHEET 13 SHEET 14 LEAN-TO OPTIONS (BOX EAVE RAFTER) LEAN-TO OPTIONS (BOX EAVE RAFTER) SHEET 14A SHEET 15 LEAN-TO OPTIONS (BOW EAVE RAFTER) LEAN-TO OPTIONS (BOW EAVE RAFTER) SHEET 15A BOX EAVE RAFTER VERTICAL ROOF OPTION END AND SHEET 16

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SIDE ELEVATION AND SECTION SIDE WALL HEADER OPTIONS

END WALL HEADER OPTIONS

SHEET 17 SHEET 18

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLUSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) ROOF DEAD LOADS

SELF-WEIGHT = 1.5 PSF

MEP = 0 PSF FOR RISK CAT. I (10 PSF FOR RISK CAT. II)

COLLATERAL = 0 PSF

= 12 PSF FOR RISK CAT. I (20 PSF FOR RISK CAT. II) B) ROOF LIVE LOAD = 100 PSF (4' CONCRETE SLAB-UN-GRADE) C) FLOOR LIVE LOAD

= 30 PSF (< 24'-0') FDR U-CHANNEL PEAK BRACE D) GROUND SNOW LOAD

= 60 PSF (≤ 30'-0'), WITH WELDED RAFTER TIE TO SINGLE 12 GA. TS. @ 3'-0" D.C. = 70 PSF (24'-0' < W ≤ 30'-0") NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.

- 4. ULTIMATE WIND SPEED (LW) 105 (RC I) (115 MPH (RC II) TO 145 (RC I) (155 MPH (RC II)) (NOMINAL WIND SPEED B1 (89) TO 112 (120) MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET (5.0 FEET FOR WIND SPEED 105 MPH < TO ≤ 145 MPH RC I ONLY).
- 5. END WALL COLUMN/POSTS ARE EQUIVALENT TO SIDE WALL COLUMN/POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE.
- 6. RISK CATEGORY I AND II (RISK CATEGORY I NOT FOR HUMAN HABITATION).
- 7. WIND EXPOSURE CATEGORY B OR C.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE (FOR SL & 60 PSF) AND 26 GAUGE (FOR SL > 60 PSF) METAL PANELS FASTENED DIRECTLY TO 2 1/2'x2 1/2'-14 GAUGE TUBE STEEL (TS) FOR (RC I) AND 2 1/4'x2 1/4'-12 GAUGE (TS) FOR (RC II). FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 9. CONNECTOR SLEEVES ARE MINIMUM 6' LONG, TS 2 1/4'x2 1/4'-14 GAUGE FOR 2 1/2'x2 1/2'-14 GAUGE AND TS 2'x2'-12 GAUGE FOR 2 1/4'x2 1/4'-12 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10. STRUCTURAL ANALYSIS/DESIGN IS BASED ON IS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH MINIMUM YIELD STRENGTH (Fy) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
- 11. AVERAGE PANEL FASTENER SPACING ON-CENTERS = 8' D.C. (MAX.).
- 12. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS. ROOF SLOPES VARY FROM 4/12, 3/12, 2/12 TO 1/12.
- 13. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT DR WITHIN 6' OF EVERY COLUMN.
- 14. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY DNLY BE USED FOR RC I STRUCTURES IN SUITABLE SOILS FOR WIND SPEEDS < 145 MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED TO UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/DRDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 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.
- 16. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I/II

R = 3.25

 $I_E = 1.0$ g = 253.5 = 202

 $2^{51} = 5.13 8$

- 17. FOR RISK CATEGORY II, MAXIMUM THRESHOLD HEIGHT FOR PERSONNEL DOOR(S) USED FOR DEFINED MEANS OF EGRESS IS 1/2'.
- 18. APPLY LAP SEALANT TO METAL ROOF PANELS FOR ROOF SLOPES LESS THAN 3:12.
- 19. IF MORE THAN 50% OF COLUMN (LEG) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
- 80. THIS MASTER DESIGN IS A GENERIC MASTER DESIGN PROMABILY DITENDED FOR PLANT FABRICATION AND ERECTION AKIN TO SHOP DRAWINGS. THE MASTER DESIGN IS NOT PROMABILY INTENDED FOR CONSTRUCTION PERMIT, WHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING DEFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR BUILDING PERMIT. ANY VARIATION FROM THE AMALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.

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LIST OF APPLICABLE BUILDING CODES

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

BUILDING CODE 2015 OF ALABAMA
(ADDPTS THE IBC 2015 WITHOUT AMENDMENTS)
(IBC 2015, IBC 2018 (DEPENDENT UPON LOCAL JURISDICTION)

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

MA STATE BUILDING CODE, 9TH ED, BASE VOLUME (ADDPTS THE IBC 2015 WITH AMENDMENTS)

2020 BUILDING CODE OF NEW YORK STATE (ADOPTS THE IBC 2010 WITH AMENDMENTS) NYC BUILDING CODE 2014 (ADOPTS THE IBC 2009 WITH AMENDMENTS)

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

OHIO BUILDING CODE 2017
(ADOPTS THE 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF PENNSYLVANIA (ADOPTS THE IBC 2018 WITH AMENDMENTS) PHILADELPHIA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

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

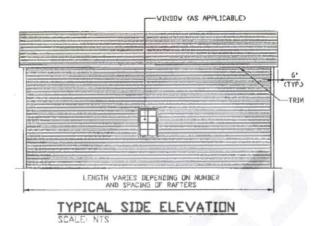
BUILDING CODE 2012 OF TENNESSEE (ADDPTS THE IBC 2012 WITH AMENDMENTS) BUILDING CODE 2018 OF NASHVILLE AND DAVIDSON COUNTY (ADDPTS THE IBC 2018 WITH AMENDMENTS)

2018 VIRGINIA CONSTRUCTION CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

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BOX EAVE FRAME RAFTER STRUCTURE





TYPICAL END ELEVATION

BOW EAVE FRAME RAFTER STRUCTURE



CTYP -TRIM LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

WINDOW (AS APPLICABLE)

TYPICAL END ELEVATION SCALE: NTS

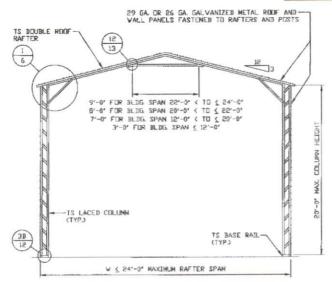
TYPICAL SIDE ELEVATION SCALE: NTS

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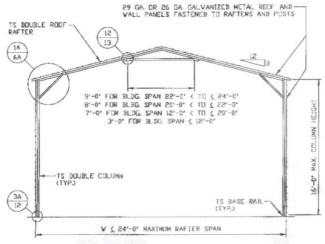
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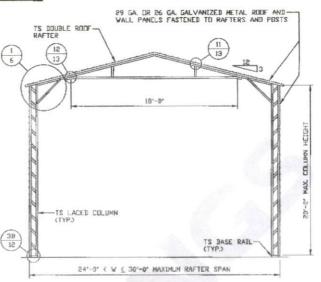
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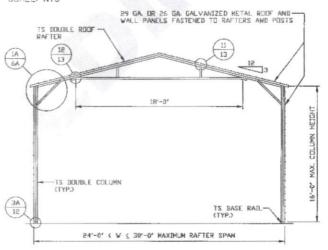
TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



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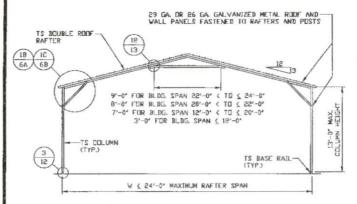
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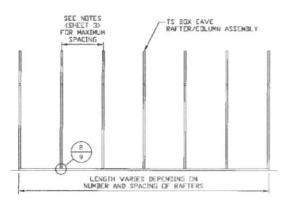
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TS DOUBLE ROOF
RAFTER

13
16'-0'
18'-0'
18'-0'
18 BASE RAIL
19
24'-0' < V & 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION



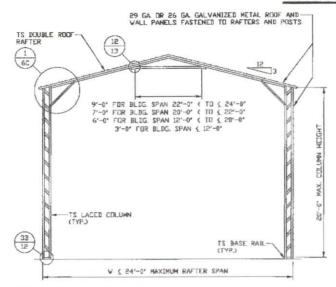
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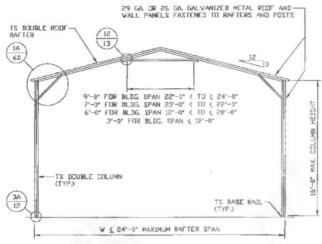
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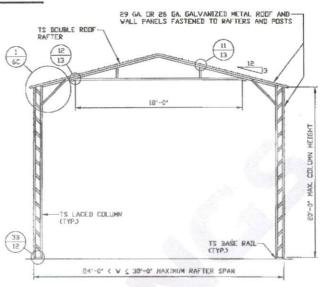
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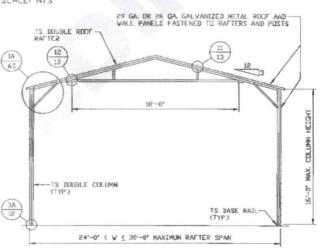
TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS

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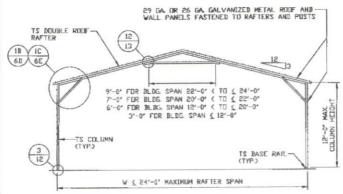
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(3)

TS DOLUBLE ROOF RAFTER

> TS COLUMN (TYP.)

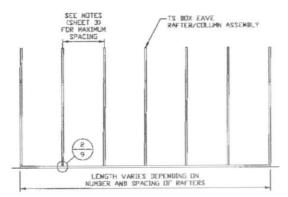
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TYPICAL RAFTER/COLUMN END FRAME SECTION

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SCALE, NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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BE SUBJECT TO I	FEM ACTION			

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PROJECT NGR: VSN	DATE: 3-21-22	SCALE NTS	JUB 1916	ND: 45/22020S		
CHECKED BY: PDH	30'-0"x2	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT		TOL BUILDINGS, INC. P.O. BOX 542				

29 GA UR 26 GA, GALVANIZED METAL RUOF AND-VALL PANELS FASTENED TO RAFTERS AND POSTS

11 13

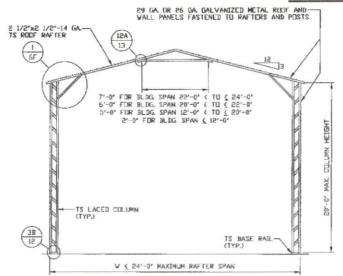
18

TS BASE RAIL

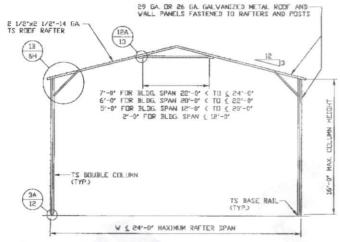
MAX.

COLUMN)

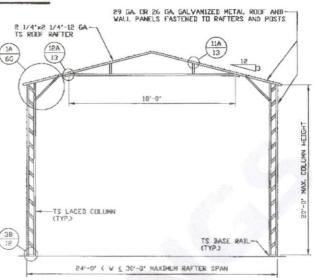
$\frac{SL \le 60 \text{ PSF}}{EXPOSURE B/C}$



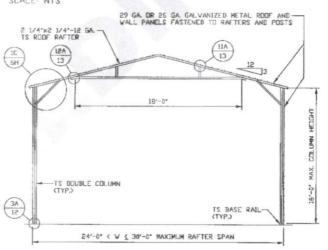
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



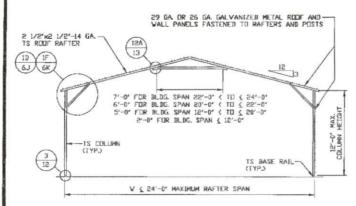
TYPICAL RAFTER/COLUMN END FRAME SECTION

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	ζ,

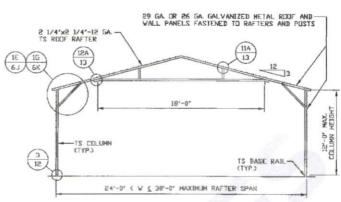
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CLIENT) TOL	SHT. 5D	BVG. ND SK-	3	REV, 1
PROJECT HGR WSN	DATE 3-21-22 SCALE NTS 19164S/28020S			
CHECKED BY: PDH	30'-0"x2	TOAST, NC 20'-0" ENCLOSE		UCTURE
DRAWN BY: LT		P.O. BOX	542	

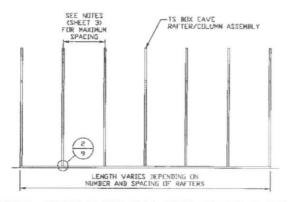
$\frac{SL \le 60 \text{ PSF}}{EXPOSURE B/C}$



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



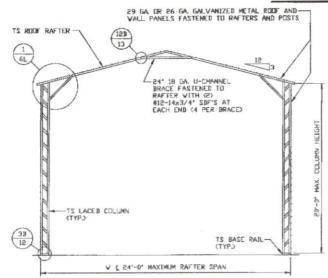
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

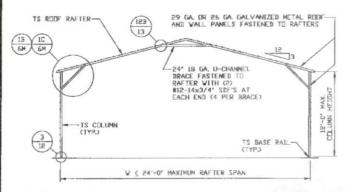
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	CLIENT: TOL	SHT. SE	DVG. ND SK-	3	REVJ 1		
_	PROJECT HGR WSM	DATE: 3-21-22	SCALE NTS		ND: 45/22028S		
	CHECKED BY: PDH	30'-0"x2	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT		TOL BUILDINGS, INC. P.O. BOX 542				

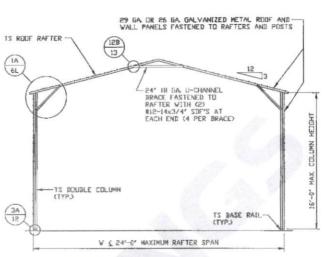
$\frac{\text{SL} \leq 30 \text{ PSF}}{\text{EXPOSURE B/C}}$



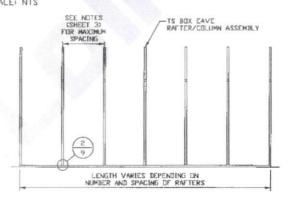
TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



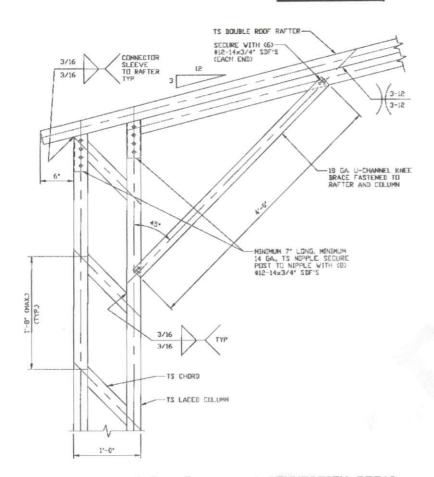
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

TOORE IND ACCOUNTED	
MOORE AND ASSOCIATES	
MOOIE IN 18 118 SOUTHES	
ENGINEERING AND CONSULTING.	INIC
ENGINEERING AND CONSULTING	INC.

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CLIENT: TOL	SHT. SF	DVG. ND SK-	.3	REV. 1	
PROJECT MGR: VSM	BATE: 3-21-22	SCALE: NTS	JOB 1916	ND 4S/22020S	
CHECKED BY: PBH	30'-0"x2	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE			
DRAWN BY: LT		P.O. BOX	542	3.	

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE B}}$



18 GA. U-CHANNEL BRACE FASTENED
TO THE CULUMN AND RODE BEAM,
VITH (6) 912-142/34* SDF'S AT
EACH END (12 PER BRACE)

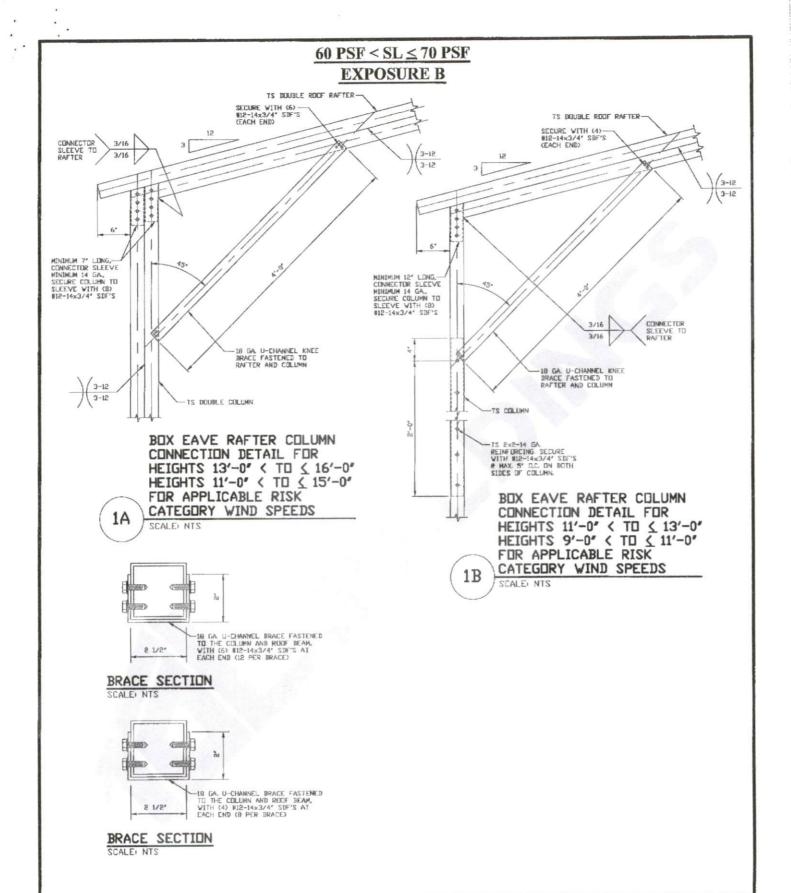
BRACE SECTION

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO \(20'-0" \)
HEIGHTS 15'-0" < TO \(20'-0" \)
FOR APPLICABLE RISK CATEGORY WIND SPEEDS

SCALE: NTS

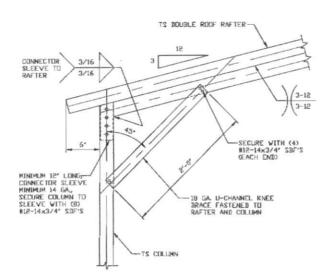
1

MOORE AND ASSOCIATES	. NOT BEEN TO THE TO THE TO THE TENT OF THE PROPERTY OF THE THE TENT OF THE TE		TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049			
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	0'-0" ENCLOSED			
ECONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR VSM		SCALE NTS	JUB NO 19164\$/22020\$		
THIS DISCURENT IS STRICTLY PROHEBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TIL	SHT, 6	DMG ND SK-3	REVJ 1		



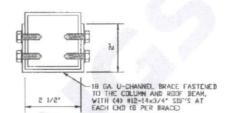
CIRCULTING THE UNAUTHORIZED REPRESSUCTION, COPYING, OR STHERVISE USE OF THIS DOCUMENT IS STRICTLY PROMINITED AND ANY INFRINGEMENT THERELIPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TOL	SHT. 6A	DVG. ND SK-3	REVA 1
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: WSM	DATE: 3-21-22	SCALE) NTS	JOB NO: 19164S/22020S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	TOAST, NC 27 0'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX 54	2

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE B}}$



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 11'-0' HEIGHTS & 9'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

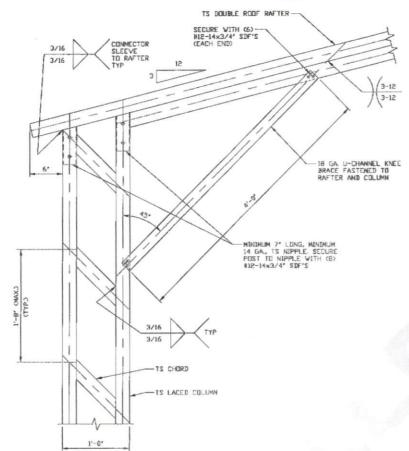
1C

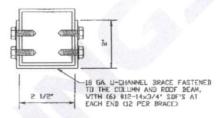


BRACE SECTION

THES DICTIONAL THE CONDITIONAL REPRODUCTION, CLAPTON, OR DITEMPORAL TO STRUCTLY PROHEBITED AND ANY ENTROPHEMENT THERELPON MAY IN SUBJECT TO LEGAL ACTION. CLIENT:	YOL	SHT. 6B	DWG. NO SK-3	REV. 1	
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND PROJECT SHOULD THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	MGR VSM	DATE: 3-21-22		JUB NO 19164\$/22020	S
ENGINEERING AND CONSULTING, INC. CHECKED	BY: PDH	30'-0"x20	0'-0" ENCLOSED		
MOORE AND ASSOCIATES DRAWN 3	Ye LT		P.O. BOX 542 TOAST, NC 270	2	

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE C}}$





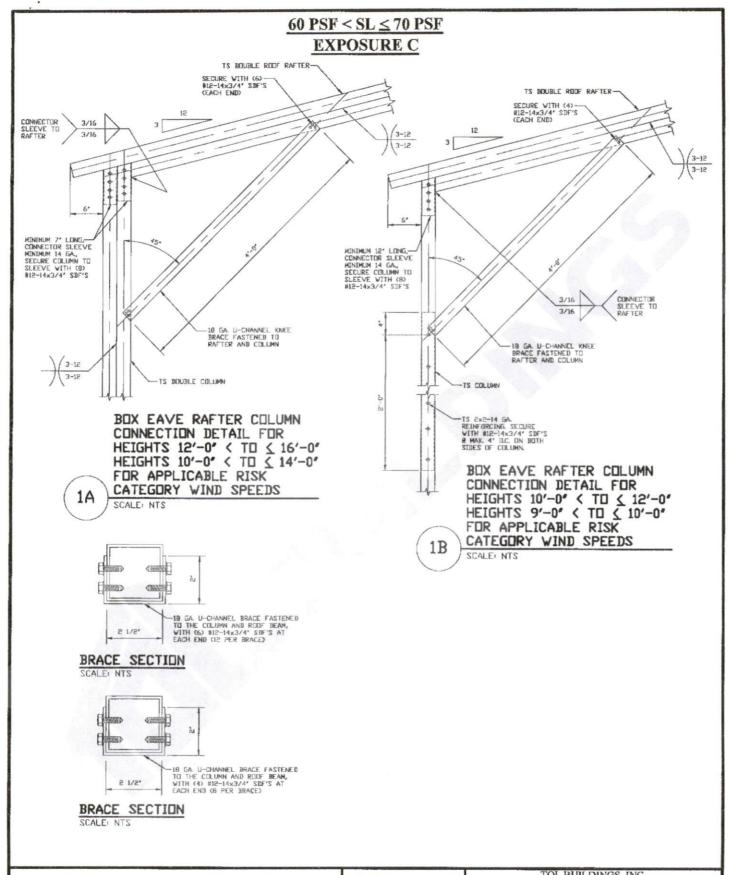
BRACE SECTION

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO \(\) 20'-0' HEIGHTS 14'-0' < TO \(\) 20'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

SCALE: NTS

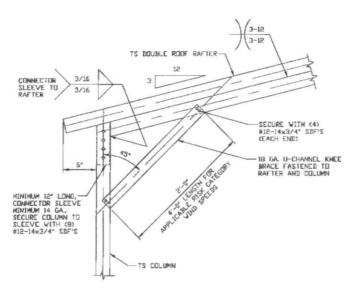
1

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THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR DITHERVISE USE OF	PROJECT HGR: VSH	DATE 3-21-22	SCALE: NTS	JUB ND 19164S/22020S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	TOAST, NC 270 0'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BY LT		P.O. BOX 542	2



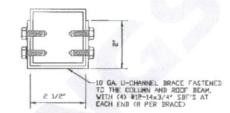
CONSULTING THE UNCOTHERACED REPREDUCTION, CUPYING, OR THERASISE USE OF THES DOCUMENT IS STRICTLY PROHESTED AND ANY INFRINCEMENT THEREUPIN MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TOL	SHT. 6D	DVG. ND SK-3	REVJ 1
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR ITHERWISE USE OF	PROJECT MGR VSM	DATE 3-21-22		JCB ND 19164S/22020S
ENGINEEDING AND CONGULTING INC	CHECKED BY: PDH	30'-0"x2	TOAST, NC 270 0'-0" ENCLOSED S	
MOORE AND ASSOCIATES	BRAWN BY LT		P.O. BOX 542	

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE C}}$



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0' HEIGHTS & 9'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

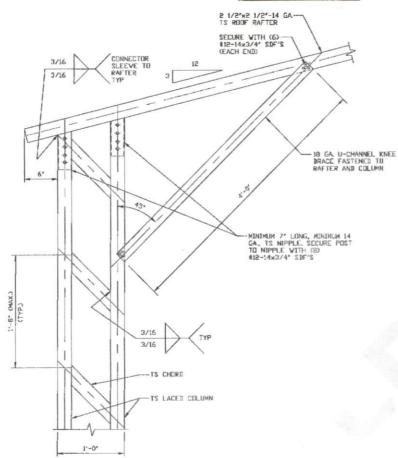
1C



BRACE SECTION

THIS EDCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THERELPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT) TOL	SHT. 6E	DWG. ND: SK-3	REV. 1	
THIS SOCIAINT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PRELIECT HGR WSH	DATE 3-21-22	SCALE: NTS	JUB ND 19164S/22020S	
ENGINEEDING AND CONGULTING INC	CHECKED BY: PDH	30'-0"x2	TOAST, NC 27 0'-0" ENCLOSED		
MOORE AND ASSOCIATES	DRAVN BY: LT		TOL BUILDINGS P.O. BOX 54		

$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$



18 GA. U-CHANNEL BRACE FASTENED
TID THE COLLUMN AND ROUF BEAM,
WITH (GO 982-1452/47 SET'S AT
EACH END (J2 PER BRACE)

BRACE SECTION

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO \(20'-0"\) HEIGHTS 15'-0" < TO \(20'-0"\) FOR APPLICABLE RISK CATEGORY WIND SPEEDS

SCALE NTS

THIS BOCKMENT IS STRICTLY PROHORITED AND ANY DIFFROMEMENT THEREUPEN MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TOL	SHT. 6F
THIS DICLIMENT IS THE PROPERTY OF NOORE AND ASSICIATES ENGINEERING AND CONSULTING. THE UNANTHURIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR VSM	DATE: 3-21-22
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"
MOORE AND ASSOCIATES	DRAWN BY: LT	

P.O. BOX 542
TOAST, NC 27049

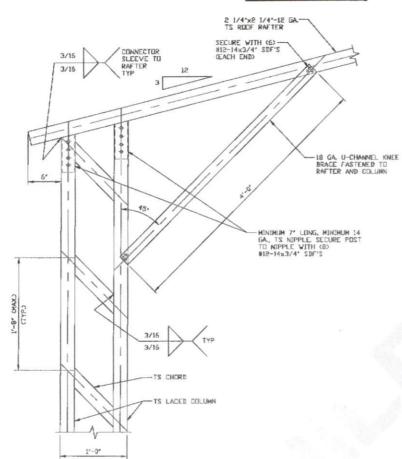
BY PDH 30'-0"x20'-0" ENCLOSED STRUCTURE

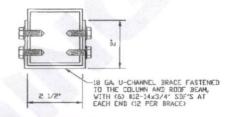
T MGR VSM DATE 3-21-22 SCALD NTS 191645/22020S

SHT. 6F DVG. NO. SK-3 REV. 1

TOL BUILDINGS, INC.

$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$





BRACE SECTION

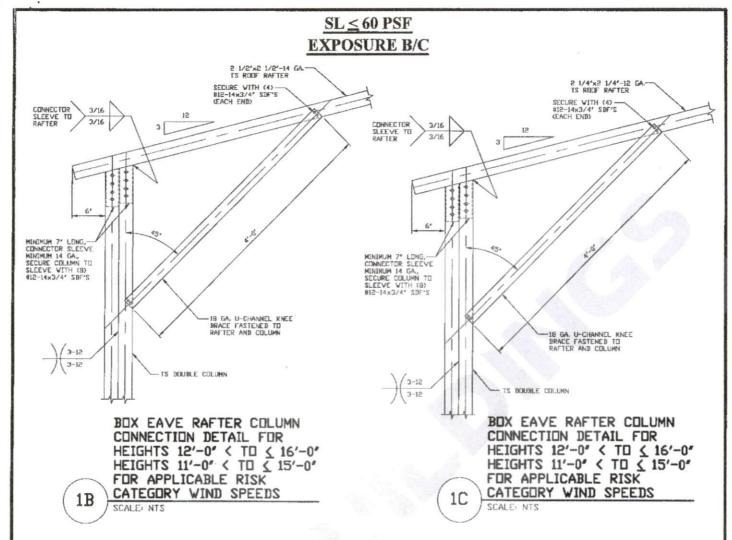
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0' HEIGHTS 15'-0' < TO < 20'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

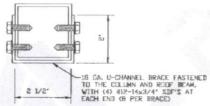
1A SCALE NTS

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

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CLIENT TOL	SHT. 6G	DWG. NO SK-	.3	REVJ 1	
PROJECT MGR VSM	DATE: 3-21-22	SCALE NTS		ND 45/22020S	
CHECKED BY: PDH	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT		TOL BUILDINGS, INC. P.O. BOX 542			





BRACE SECTION

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	BRAVN BY: LT		TOL BUILDINGS, P.O. BOX 542 TOAST, NC 270	49
ENTORVERSENT OF THE CONSCIENCE, INC.	CHECKED BY: PDH	30'-0"x2	0'-0" ENCLOSED S	JOB NO
THIS DECLIMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYDIG, OR OTHERWISE USE OF	PROJECT MGR VSM	DATE: 3-21-22		19164\$/22020\$
THUS BUCUMENT IS STRUCTLY PROFESSIVED AND ANY INFRINGEMENT THERELPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT) TOL	2HT, 6H	DVG. NO SK-3	REVJ 1

CONNECTOR SLEEVE TO 3/16 MINIMUM 12' LONG, CONNECTOR SLEEVE MINIMUM 12' LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (8) BI2-14x3/4' SDF'S HIRMAN 14 GA, SECURE COLUMN TO SLEEVE WITH (8) BI2-14x3/4' SDF'S

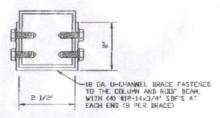
TS COLUMN

TS 2x2-14 GA.
REINFORCING. SECURE
WITH #12-14x3/4' SDF'S
@ MAX. 5' CLC. DN BOTH
SIDES OF COLUMN.

 $SL \le 60 PSF$

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0' < TO < 12'-0' HEIGHTS 9'-0' < TO < 11'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

1D CATEGOR



BRACE SECTION

2 I TS SECURE W B12-14x3/ (EACH ENI	'4' SDF'S \
CONNECTOR 3/16 3 12 SLEEVE TD 3/16 3	
HINEIMUM 12' LONG, CONNECTOR SLEEVE HINDIMUM 14 GA.	
HIDMUM 14 GA, SECURE COLUMN TO SLEEVE VITH (8) HI2-14x3/4' SDF'S	
18 GA U-CHA BRACE FASTE RAFTER AND	NED TO
TS COLUMN	
PEINFORCING SECURE WITH #12-14x3/4' SDF'S @ MAX. 5' D.C. DN BOTH SIDES OF COLUMN.	

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0' < TO ≤ 12'-0' HEIGHTS 9'-0' < TO ≤ 11'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

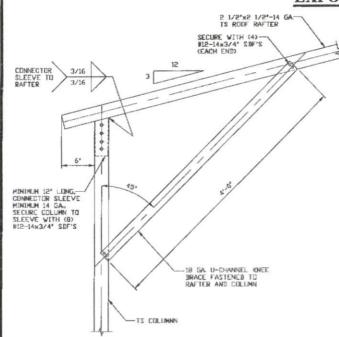
1E SCALE NTS

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MOORE AND ASSOCIATES	
ENCONFERDING AND CONGULTABLE DI	
ENGINEERING AND CONSULTING, IN	C.

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PRILIECT NGR VSM	DATE: 3-21-22	DVG ND SK-	1916	4S/22020S	_
			JUB	ND	
CHECKED BY: PDH	30'-0"x2	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE			
DRAWN BYI LT		TOL BUILDINGS, INC. P.O. BOX 542			

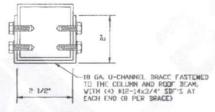
$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \(\) 11'-0' HEIGHTS \(\) 9'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

1F

SCALE: NTS



BRACE SECTION

	2 1/4'x2 1/4'-12 GA- TS ROOF RAFTER
	SECURE VITH (4) #12-14x3/4' SDF'S (EACH END)
CONNECTOR 3/16 SLEEVE TO 3/16 RAFTER 3/16	IR.
6.	
MINIMUM 12' LONG,— CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLLUMN TO SLEEVE WITH (B) H12-14x3/4' SDF'S	
	— 18 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN
TS COLUMN	

BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS \(\) 11'-0'
HEIGHTS \(\) 9'-0'
FOR APPLICABLE RISK
CATEGORY WIND SPEEDS

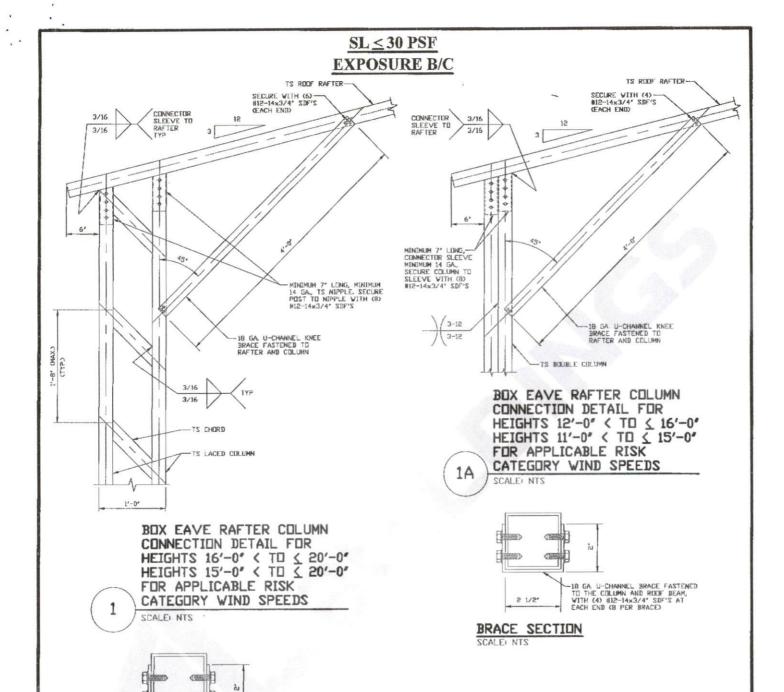
1G

SCALE: NTS

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CHECKED BY: PDH PROJECT MGR: WSM	P.O. BOX 542 TOAS'T, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE DATE 3-21-22 SCALE NTS 191645/28000S				
CLIENT) TOL	SHT. 6K	DVG. ND SK-	3	REVJ 1	



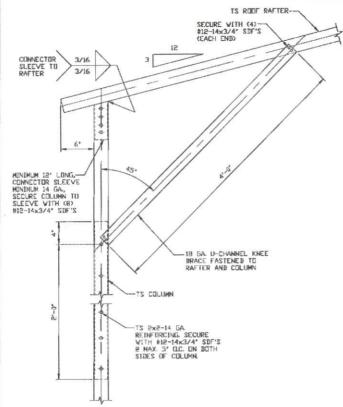


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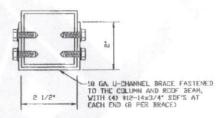
	DRAWN BY: LT CHECKED BY: PDH	-	TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE			
-	PROJECT HGR: VSM	DATE) 3-21-22	SCALE NTS	JUB 1916	ND 45/22020S	
	CLIENT) TOL	SHT. 6L	DWG. NO SK-3		REV. 1	

$\frac{\text{SL} \leq 30 \text{ PSF}}{\text{EXPOSURE B/C}}$



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0' < TO ≤ 12'-0' HEIGHTS 9'-0' < TO ≤ 11'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

1B SCALE NTS



BRACE SECTION

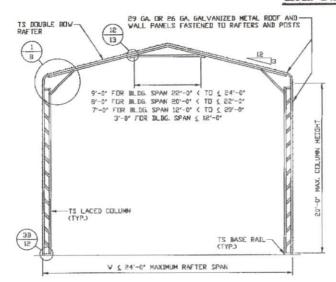
TS ROOF RAFTER-
SECURE VITH (4) HIR-14×3/4' SDF'S (EACH END)
CONNECTOR 3/16 SLEEVE TO 3/16 RAFTER 3/16
6'-1
MINIMUM 12" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLLUN TO SLEEVE VITH (B)
#12-14x3/4' SDF'S
B GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND CELUUN
KN TER AND CULUMN
TS COLUMN
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR
HEIGHTS $\leq 11'-0''$ HEIGHTS $\leq 9'-0''$
FOR APPLICABLE RISK
SCALE: NTS

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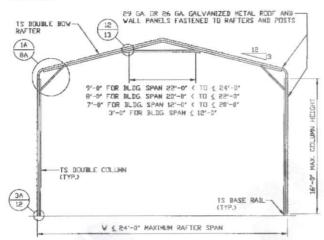
CLIENT: TOL	SHT. 6H	DVG. NO SK-	3	REVA 1
PROJECT HGR VSH	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTU DATE 3-21-22 SCALE NTS 191645/22			ND 45/22020S
CHECKED BY: PDH				UCTURE
DRAWN BY: LT	TOL BUILDINGS, INC. P.O. BOX 542			

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE B}}$



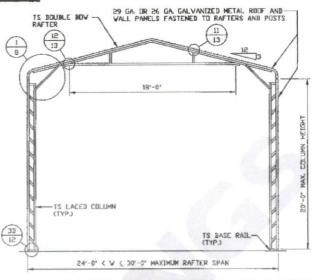
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



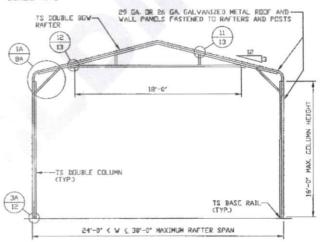
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NT



TYPICAL RAFTER/COLUMN END FRAME SECTION

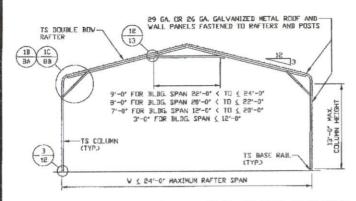
SCALE: NT

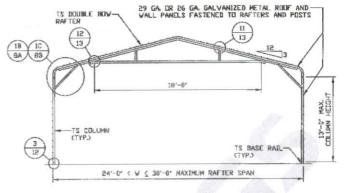
MOORE A	ND ASSOCIATES
	ND CONSULTING, INC.

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DRAWN BY: LT	TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE			
PROJECT MGR: VSM	DATE 3-21-22			ND 45/22020S
CLIENT: TOL	SHT. 7	DVG. ND SK-	3	REV. 1

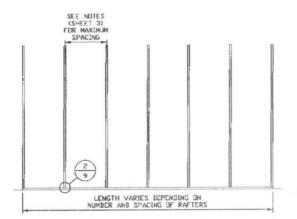
$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE B}}$





TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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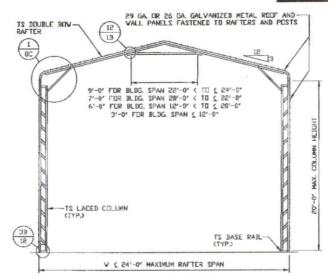
Ī	DRAWN BY: LT CHECKED BY: PDH	TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE				
-	PROJECT HGR VSH	DATE: 3-21-22	SCALE: NTS		ND 45/22020S	
1	CLIENT: TOL	SHT. 7A	DWG. NO SK-	3	REV. 1	

$60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}$

EXPOSURE C

TS DOUBLE BOW -

12



TS LACED COLLUMN TS BASE RAIL— TYPD TS BASE RAIL— TYPD 24'-0' < V ≤ 30'-0' MAXIMUM RAFTER SPAN

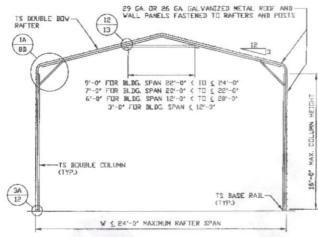
18'-0"

29 GA. OR 26 GA. GALVANIZED METAL ROOF AND-WALL PANELS FASTENED TO RAFTERS AND POSTS

11 13

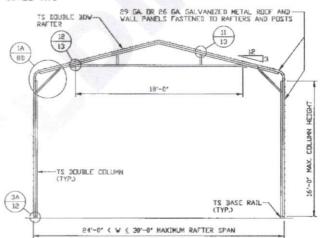
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS

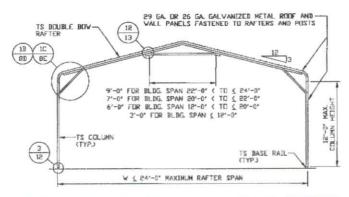
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

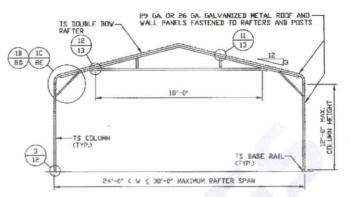
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, IN	C.

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THIS DULLHENT	IS SINICILY PROMISTIED AND ANY INCKINEDENT THERETHIN MAY
THE SUBJECT TO	LEGAL ACTION

Г	RAVN BY: LT	30'-0"*	TOL BUILDING P.O. BOX TOAST, NC 20'-0" ENCLOSE	542 27049		
Г	ROJECT HGR: VSH	DATE 3-21-22	T	JOB	ND: 45/22020S	
c	LIENT: TOL	SHT. 78	DVG. NO SK-	3	REV. 1	

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE C}}$

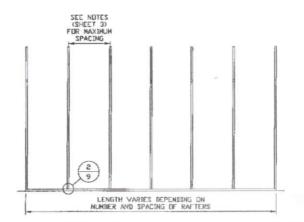




TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

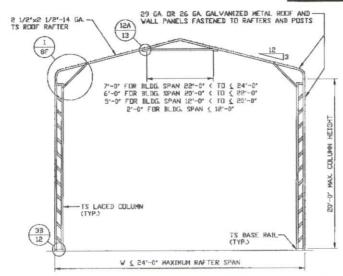


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

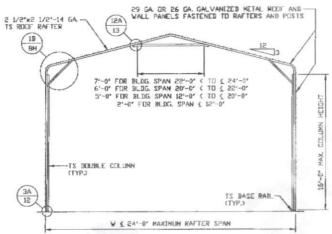
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	-	TOL BUILDINGS P.O. BOX 54 TOAST, NC 27 0'-0" ENCLOSED	2 049
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$SL \le 60 PSF$ **EXPOSURE B/C**



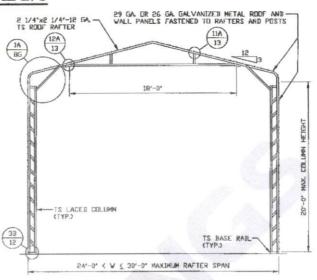
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



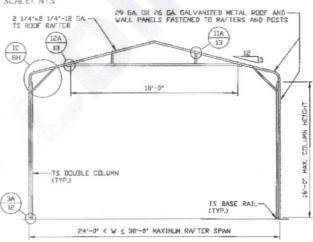
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

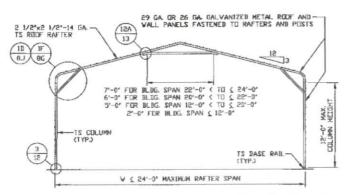
SCALE: NTS

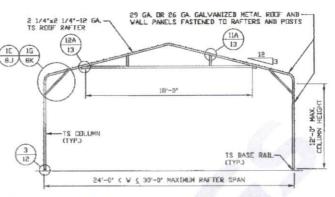
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CLIENT: TOL	SHT. 7D	DVG. ND SK-	3	REV. 1
PROJECT MGR: WSM	BATE 3-21-22	SCALE NTS	JOB 1916	ND 4S/22020S
CHECKED BY: PDH	30'-0"x2	TOAST, NC 20'-0" ENCLOSE		UCTURE
DRAWN BY: LT		TOL BUILDING P.O. BOX	542	2.

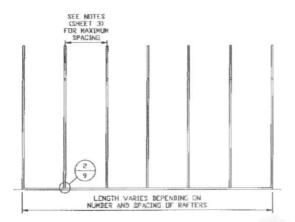
$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$





TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION

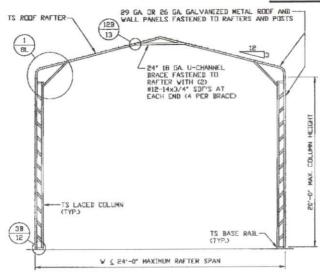


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

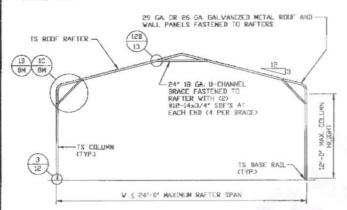
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IS DOCUMENT IS THE PROPERTY OF MODIFE AND ASSOCIATES ENGINEERING AND	PROJECT MGR VSM	DATE 3-21-22	SCALE NTS	JEB N 191648	D- \$/22020S
ENICHIERDING AND CONGULTING INC	CHECKED BY: PDH	30'-0"x2	TOAST, NC 2' 0'-0" ENCLOSED		CTURE
MOORE AND ASSOCIATES	BRAVN BY LT		TOL BUILDING P.O. BOX 5		

$\frac{\text{SL} \leq 30 \text{ PSF}}{\text{EXPOSURE B/C}}$



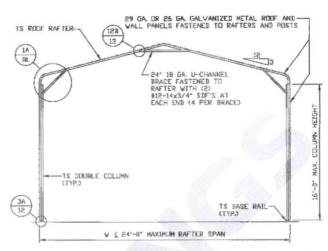
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

SEE NOTES
(SHEET 3)
(SHEET 3)
FOR MAXIMUM
SPACING

P

LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS

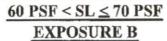
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

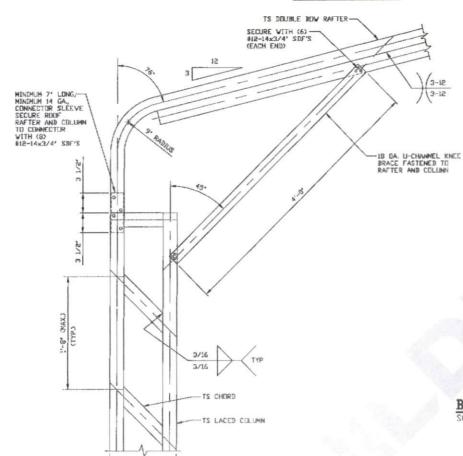
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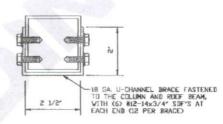
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DRAWN BY: LT CHECKED BY: PDH	30'-0"x2	TOL BUILDING P.O. BOX TOAST, NC 20'-0" ENCLOSE	542 27049	
PRILIECT MGR: WSM	DATE: 3-21-22	SCALE: NTS	JEB 1916	ND 45/22028S
CLIENT: TOL	SHT. 7F	BVE. NO. SK-	3	REVJ 1







BRACE SECTION

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0" HEIGHTS 15'-0" < TO ≤ 20'-0" FOR APPLICABLE RISK CATEGORY WIND SPEEDS

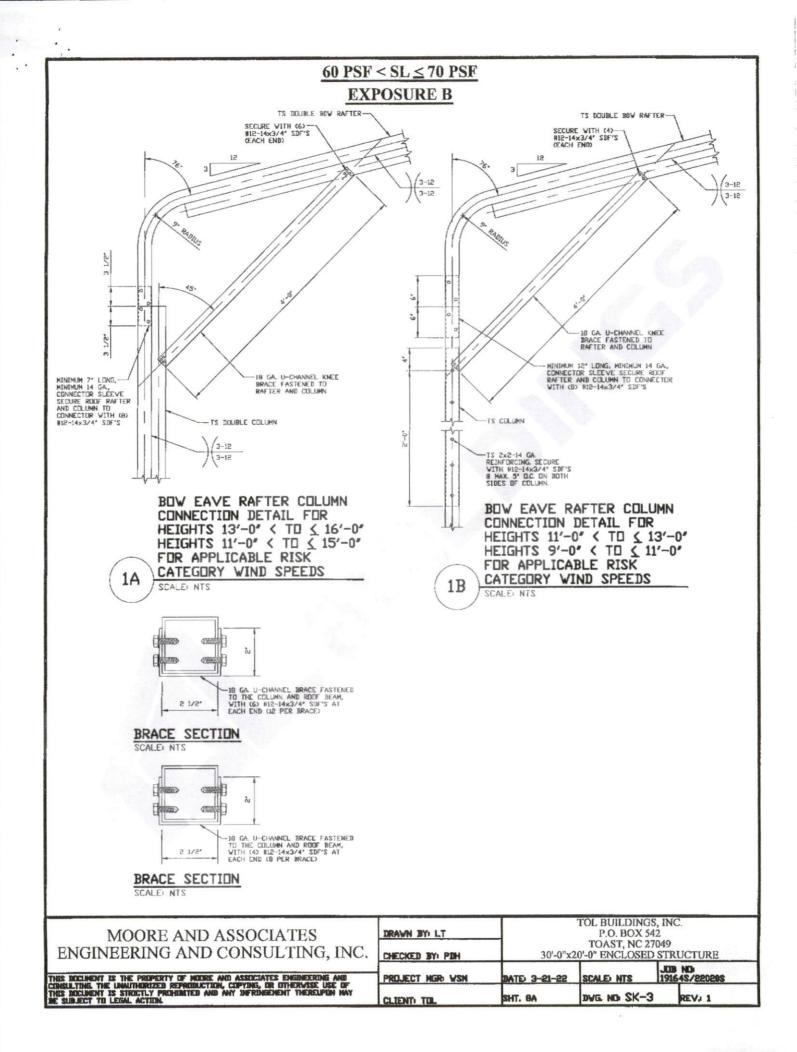
SCALE NTS

1'-0"

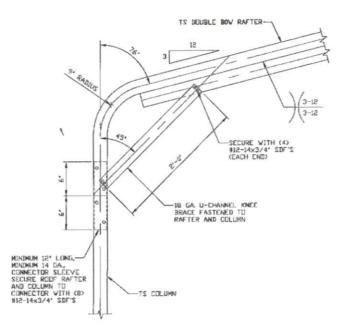
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ENGINEERING AND CONSULTING, IN	IC.

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3



$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE B}}$



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 11'-0' HEIGHTS & 9'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS 18 GA. U-CHANNEL BRACE FASTENED
TO THE COLLIMN AND ROOF BEAM,
VITH (4) \$12-14-3/4' SDF'S AT
EACH END GO PER BRACE)

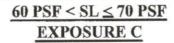
BRACE SECTION

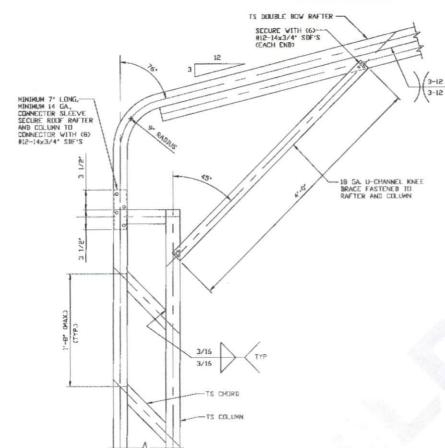
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

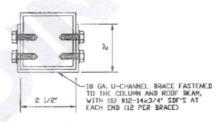
1C

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CLIENT: TOL	SHT. 88	DVG. NO SK-	3	REV. 1		
PROJECT MGR: WSM	DATE: 3-21-22	SCALE NTS		ND 45/22020S		
CHECKED BY: PDH	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE					
DRAWN BY: LT	TOL BUILDINGS, INC. P.O. BOX 542					







BRACE SECTION
SCALE: NTS

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO \(20'-0' \)
HEIGHTS 14'-0' < TO \(20'-0' \)
FOR APPLICABLE RISK CATEGORY WIND SPEEDS

SCALE: NTS

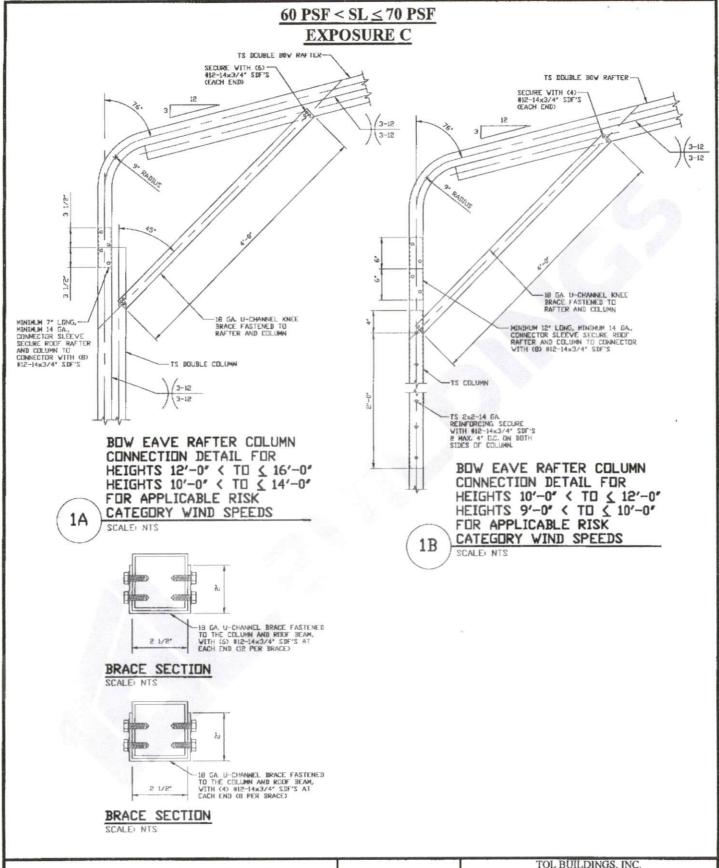
1

1'-0"

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	

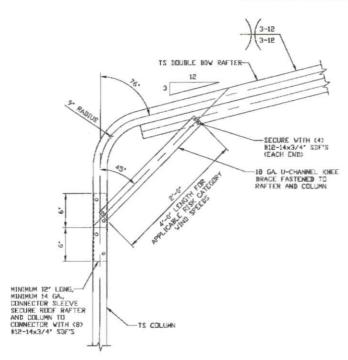
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CLIENT: TOL	SHT. BC	DVG ND SK-	3	REVA 1				
PROJECT MGR: VSM	DATE: 3-21-22	SCALE NTS	JDB 1916	ND: 4\$/22020\$				
CHECKED BY: PDH	30'-0"x2	TOAST, NC 27049 x20'-0" ENCLOSED STRUCTURE						
DRAWN BY: LT		TOL BUILDINGS, INC. P.O. BOX 542						



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THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR VSM	DATE: 3-21-22	SCALE NTS	JOB NO 19164S/22020S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	TOAST, NC 27	
MOORE AND ASSOCIATES	DRAVN BY LT	_	P.O. BOX 54	2

$\frac{60 \text{ PSF} < \text{SL} \le 70 \text{ PSF}}{\text{EXPOSURE C}}$



18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM, VITH (4) RE-14x3/4' SPE'S AT EACH END (8) PER BRACE)

BRACE SECTION

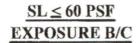
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \(\) 10'-0' HEIGHTS \(\) 9'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

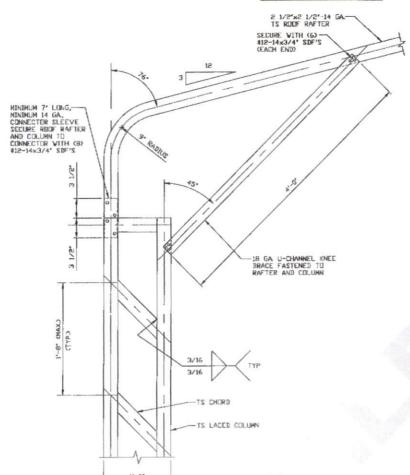
1C) SCALE: NTS

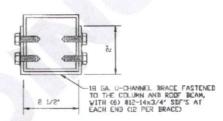
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	CLIENT) TOL	SHT. BE	DVG. ND SK-	3	REV. 1			
-	PROJECT HGR: VSN	DATE: 3-21-22	SCALE NTS		ND 45/22020S			
	CHECKED BY: PDH	30'-0"x2	TOAST, NC 2 20'-0" ENCLOSE		UCTURE			
	DRAWN BY: LT		TOL BUILDINGS, INC. P.O. BOX 542					







BRACE SECTION
SCALE: NTS

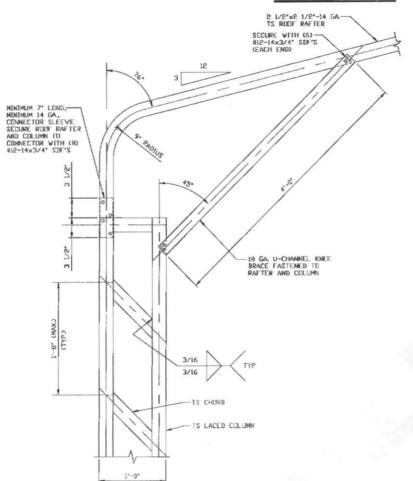
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO \(\) 20'-0' HEIGHTS 15'-0' < TO \(\) 20'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

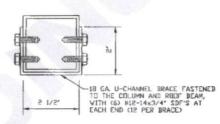
SCALE: NTS

1

MOORE AND ASSOCIATES	DRAWN BY: LT		TOL BUILDINGS P.O. BOX 54 TOAST, NC 27	12
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	0'-0" ENCLOSED	
THIS DOCUMENT IS THE PROPERTY OF NEXTRE AND ASSOCIATES ENGINEERING AND	PREJECT MGR: VSM	DATE: 3-21-22	SCALE NTS	JUB ND 19164S/22020S
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$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$





BRACE SECTION
SCALE: NTS

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO \(20'-0" \) HEIGHTS 15'-0" < TO \(20'-0" \) FOR APPLICABLE RISK CATEGORY WIND SPEEDS

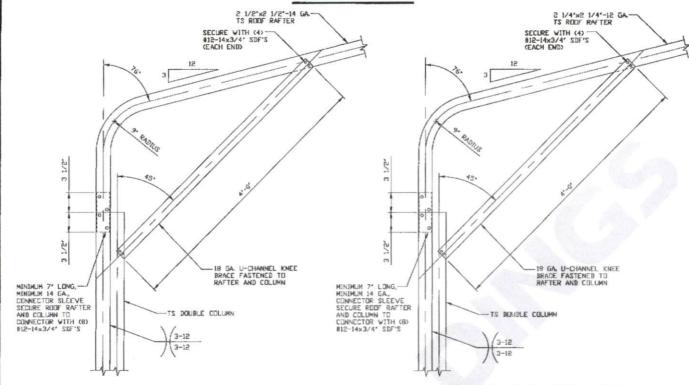
1A SCALE NT

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CLIENT: TOL	SHT. 8G	DVG. ND: SK-3		REV. 1			
PROJECT MGR: VSM	DATE 3-21-22	SCALE NTS	JOB 1916	ND 45/22020S			
CHECKED BY: PDH	30'-0"x2	TOAST, NC 27 0'-0" ENCLOSED		UCTURE			
DRAWN BY: LT	TOL BUILDINGS, INC. P.O. BOX 542						





BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 16'-0" HEIGHTS 11'-0" < TO < 15'-0" FOR APPLICABLE RISK

CATEGORY WIND SPEEDS

1B SCALE NTS

18 GA. U-CHANNEL BRACE FASTENED
TO THE COLUMN AND RODE BEAM,
VITH (4) 812-14-43/4' SDF'S AT
EACH END (8 PER BRACE)

BRACE SECTION

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0' HEIGHTS 11'-0' < TO < 15'-0' FOR APPLICABLE RISK CATEGORY WIND SPEEDS

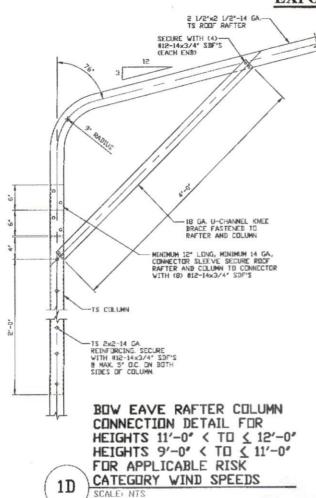
1C) SCALE NTS

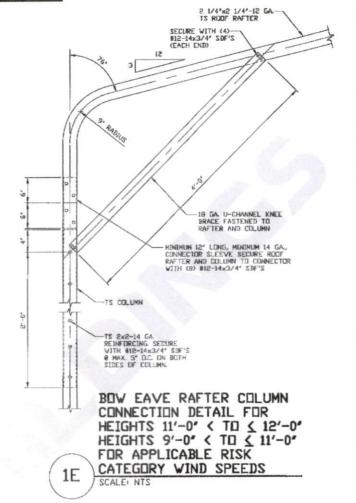
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

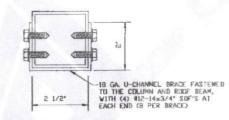
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PROJECT MGR VSM	DATE 3-21-22	SCALE: NTS	JOB	ND 45/22020S
CHECKED BY: PDH	30'-0"x2	TOAST, NC 2 20'-0" ENCLOSE		UCTURE
BRAVN BY: LT		P.O. BOX		2.

$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$







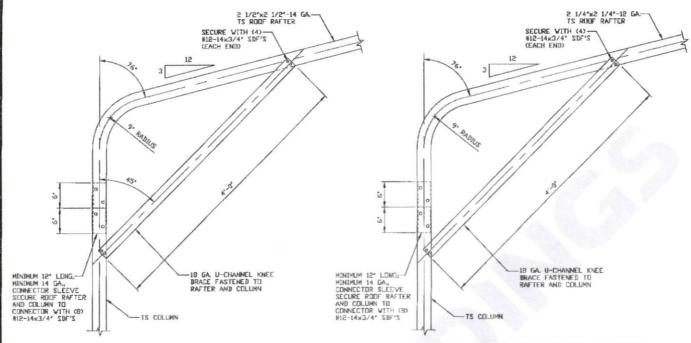
BRACE SECTION

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DRAWN BY: LT	30'-0"x2	TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE						
PROJECT HGR VSH	DATE 3-21-22	SCALE: NTS		ND: 45/22020S				
CLIENT TOL	SHT. BJ	BVG ND SK-	3	REV. 1				

$\frac{\text{SL} \leq 60 \text{ PSF}}{\text{EXPOSURE B/C}}$

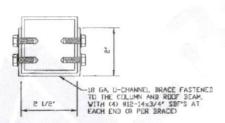


BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 11'-0" HEIGHTS & 9'-0" FOR APPLICABLE RISK CATEGORY WIND SPEEDS

1F CALEUR

BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS & 11'-0"
HEIGHTS & 9'-0"
FOR APPLICABLE RISK
CATEGORY WIND SPEEDS

1G

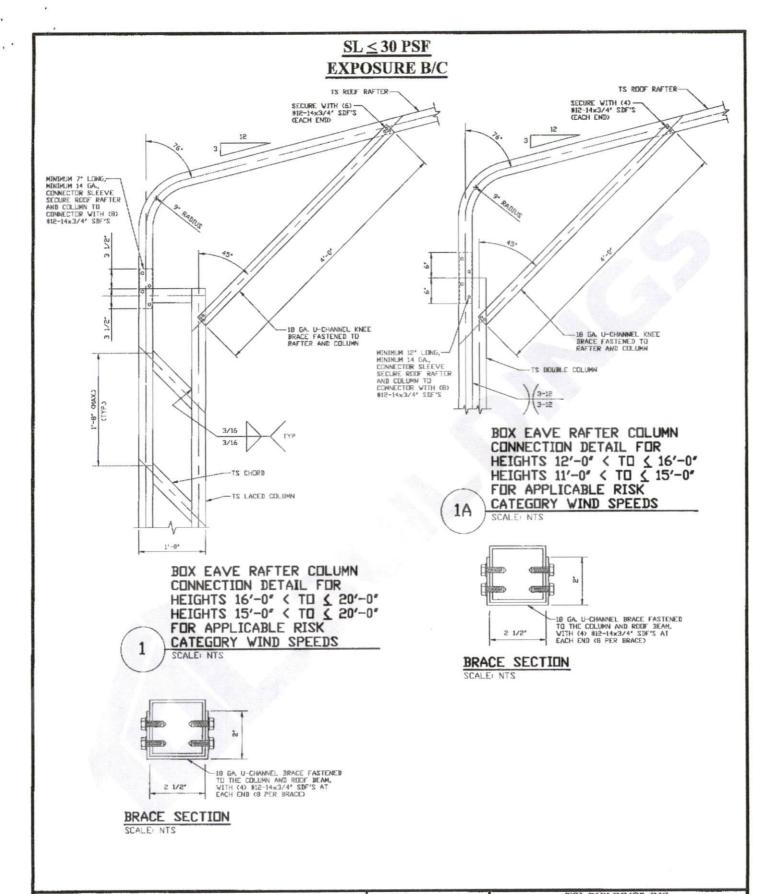


BRACE SECTION

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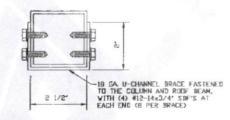
DRAWN BY: LT	TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049			
CHECKED BY: PBH	30'-0"x2	20'-0" ENCLOSE	DSTR	UCTURE
PROJECT MGR: VSM	DATE: 3-21-22	SCALE) NTS	JOB 1916	ND 45/22020S
CLIENT: TOL	SHT. BK	DVG. NO SK-	3	REVJ 1



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THES DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT HGR: VSM	DATE: 3-21-22	SCALE NTS	JOB 1916	ND: 4\$/22020S
ENGINEERING AND CONSULTING, INC.	CHECKEB BY: PDH	30'-0"x2	TOAST, NC 2' 20'-0" ENCLOSEE		UCTURE
MOORE AND ASSOCIATES	DRAVN BY: LT		P.O. BOX 5	42	

EXPOSURE B/C TS ROOF RAFTER-TS ROOF RAFTER-SECURE VITH (4)-#12-14x3/4" SDF'S (EACH END) SECURE WITH (4)-#12-14x3/4' SDF'S (EACH END) MINIMUM 12° LONG, MINIMUM 14 GA., CONNECTOR SLEEVE SECURE ROOF RAFTER AND COLUMN TO CONNECTOR WITH (8) #12-14x3/4° SDF'S -18 GA, U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN MINIMUM 12' LONG, — MINIMUM 14 GA., CONNECTOR SLEEVE SECURE ROOF RAFTER AND COLUMN TO CONNECTOR WITH (B) (12-14x3/4' SDF'S TS COLUMN TS COLUMN -TS 2x2-14 GA. REINFORCING SECURE VITH 812-14x3/4* SDF'S 8 MAX. 5* GC, DN 80TH SIDES OF COLUMN. BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0' HEIGHTS ≤ 9'-0' FOR APPLICABLE RISK BOX EAVE RAFTER COLUMN CATEGORY WIND SPEEDS COMNECTION DETAIL FOR 1C HEIGHTS 11'-0" < TO < 12'-0" HEIGHTS 9'-0" < TO < 11'-0" FOR APPLICABLE RISK SCALE: NTS

 $SL \le 30 PSF$



CATEGORY WIND SPEEDS

BRACE SECTION

1B

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THE SHARPS TO THE DOUBLETTY OF LEGICLE AND ASSURANCE CHARPEOING AND	DOD FOT HER. LINE	DATE 0 04 00		JOB NO
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	TOAST, NC 27 0'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BY: LT		TOL BUILDINGS P.O. BOX 54	

INSTALL 1/2" px6 3/4" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' DF EACH COLUMN, (ALSO WWE OR FIRERGLASS FIBER REINF APPLICABLE TO END WALLS) ARI T/CONC. MIN CMIN GRADE -11Δ CMIMO **MINIMUM 3 1/4** 9 9 EMBE DMENT MONDLITHIC CONCRETE FOOTING-(3000 PSI MIN.) REINFORCED VARIES 1'-4' WITH (4)-#4's CONTINUOUS



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

(MINIMUM ANCHOR EDGE DISTANCE IS 4") * COORDINATE WITH LOCAL BUILDING CODE AND/ORD. REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

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

CONCRETE

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

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-31B;
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:

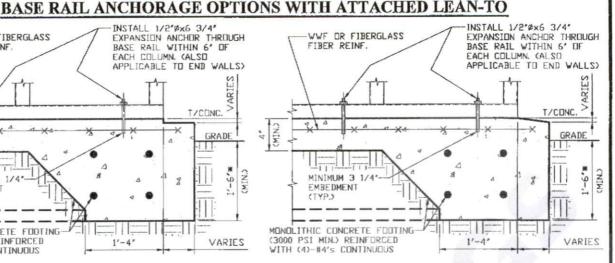
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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.

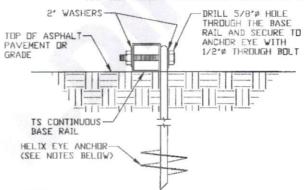
HELIX ANCHOR NOTES

- FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELIDADED 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.
- FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 4. FOR LODGE 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 MONOLITHIC SLAB BASE RAIL ANCHORAGE

(MINIMUM ANCHOR EDGE DISTANCE IS 4") * COORDINATE WITH LOCAL BUILDING CODE AND/ORD, REGARDING REQUIRED FOOTING DEPTH.



GROUND BASE HELIX ANCHORAGE

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

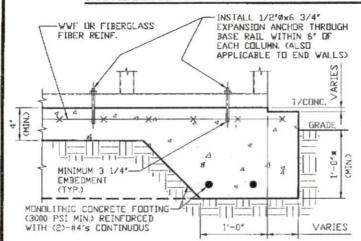
NOTE: TWO EXPANSION ANCHORS ARE REQ'D AT EVERY COLUMN WHEN LEAN-TO ARE ATTACHED TO STRUCTURE,

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	CLIENT: TOL	SHT. 9	DVG. ND SK-	3	REV.: 1	- 10			
_	PROJECT MGR: WSM	DATE 3-21-22	SCALE: NTS	JOB 1916	ND 4S/22020S				
	CHECKED BY: PDH	30'-0"x2	TOAST, NC 20'-0" ENCLOSE		UCTURE				
	DRAWN BY: LT		TOL BUILDINGS, INC. P.O. BOX 542						

BASE RAIL ANCHORAGE OPTIONS WITHOUT ATTACHED LEAN-TO





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

(MINIMUM ANCHOR EDGE DISTANCE IS 4') * COORDINATE WITH LOCAL BUILDING CODE AND/ORD, REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1.500 PSF.

CONCRETE

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

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318 3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2' ELSEWHERE.

REINFORCING STEEL:

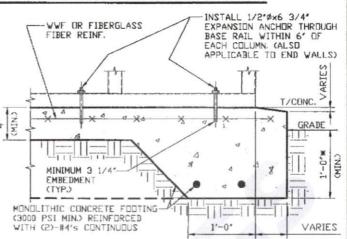
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

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

HELIX ANCHOR NOTES

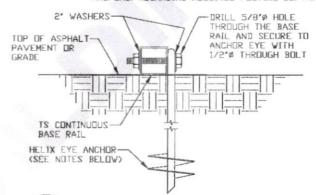
- FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 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 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. FDR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) B' HELICES WITH MINIMUM 60° EMBEDMENT.



2A

CONCRETE MUNDLITHIC SLAB BASE RAIL ANCHURAGE

(MINIMUM ANCHOR EDGE DISTANCE IS 4') COORDINATE WITH LOCAL BUILDING CODE AND/ORD, REGARDING REQUIRED FOOTING DEPTH.



2B

GROUND BASE HELIX ANCHORAGE

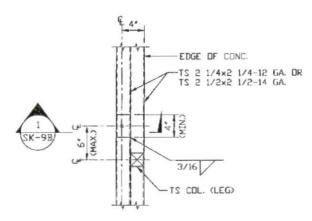
SCALE: NTS (CAN BE USED FOR ASPHALT) * COORDINATE WITH LOCAL CODES/DRD.
REGARDING MINIMUM FROST DEPTH REQ.

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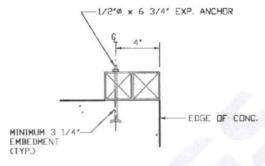
PROJECT MGR: VSM CLIENT: TDL	DATE: 3-21-22 SHT: 9A	SCALE) NTS		45/22020S REV. 1		
CHECKED BY: PDH	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRUCTURE					
DRAWN BY: LT	TOL BUILDINGS, INC. P.O. BOX 542					

BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

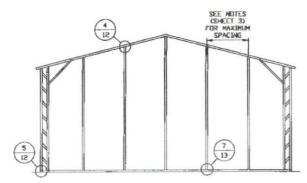


SECTION 1
SCALE: NTS SK-9B

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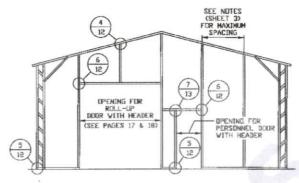
CLIENT: TDL	SHT. 9B	DWG. NO SK-	3	REV# 1	
PROJECT MGR: VSM	DATE: 3-21-22	SCALE NTS	JUB 1916	ND 45/22020S	
CHECKED BY: PDH	30'-0"x2	TOAST, NC 2 20'-0" ENCLOSE		UCTURE	
BRAWN BY: LT	P.O. BOX 542				

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



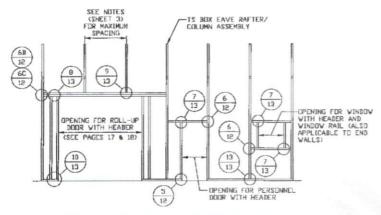
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BUX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

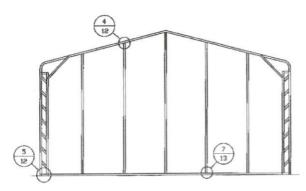
SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

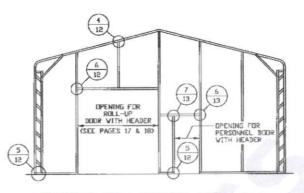
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x20	0'-0" ENCLOSED	
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



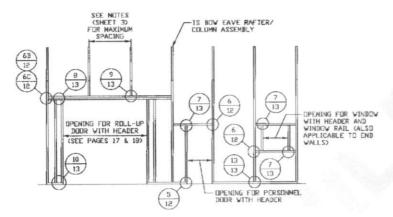
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

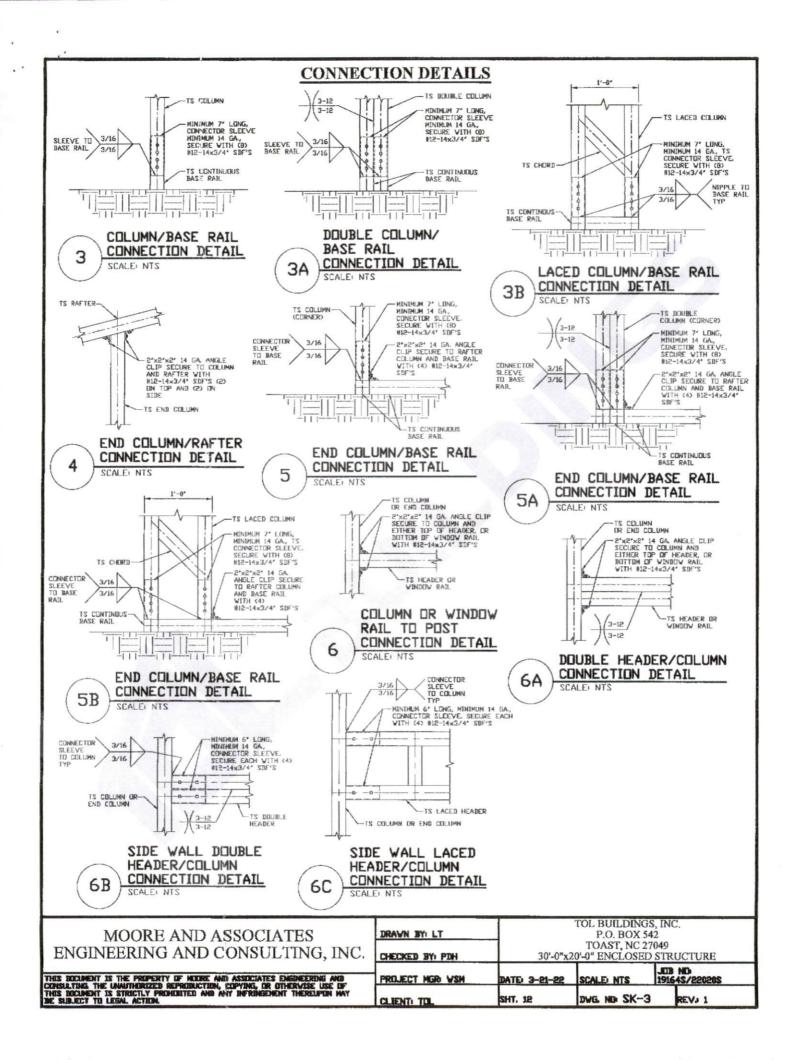
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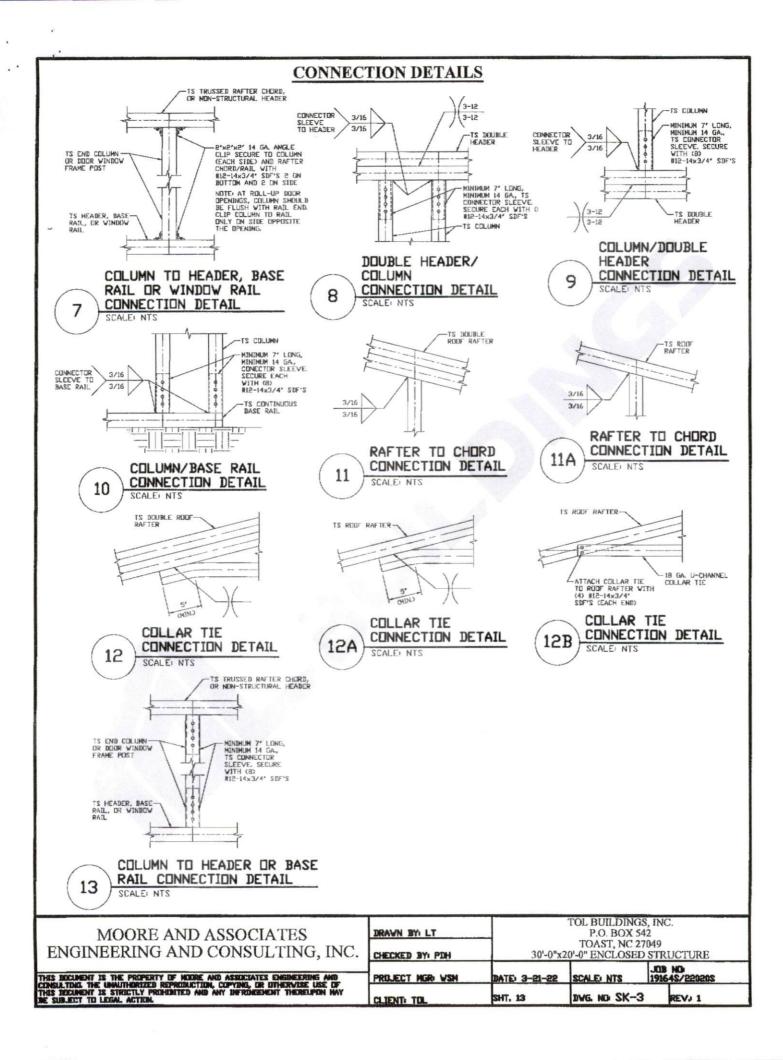


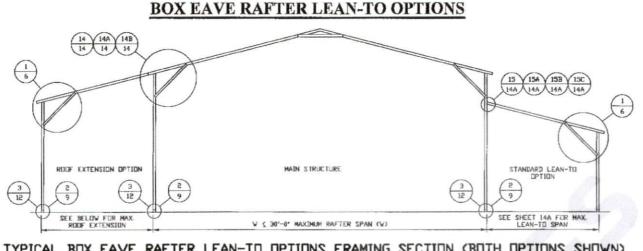
TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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

SCALE: NTS MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO IS 10'-0'.

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

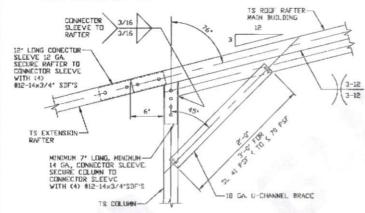
MAXIMUM WIDTH OF LACED MEMBER ROOF EXTENSION AND LEAN-TO IS 24'-0'.

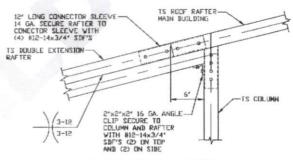
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE COLUMNS FOR EAVE HEIGHTS 14'-0' < TO < 20'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 10'-0' < TO < 16'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 9'-0' < TO < 12'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 0'-0' < TO < 12'-0'. EAVE HEIGHTS ≤ 9'-0'.





SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN ≤ 10'-0" SCALE: NTS

TS ROOF RAFTER 12' LONG CONNECTOR SLEEVE-14 GA. SECURE RAFTER TO CONECTOR SLEEVE WITH (4) #12-14x3/4' SDF'S TS LACED EXTENSION RAFTER TS COLUMN 2'x2'x2' 16 GA ANGLE-CLIP SECURE TO COLUMN AND RAFTER WITH 112-14x3/4' SDF'S (2) ON TOP AND (2) ON SIDE 3-12

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 10'-0' < L < 16'-0" 14A

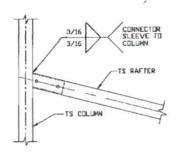
SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 16'-0' < L ≤ 24'-0' 14B SCALE! NTS

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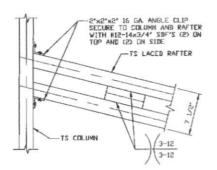
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CLIENT: TOL	SHT. 14	DVG. ND SK-	3	REV. 1
PRILJECT HGR VSM	DATE: 3-21-22	SCALE NTS	JCIB 1916	ND 45/22020S
CHECKED BY: PBH	30'-0"x2	TOAST, NC 20'-0" ENCLOSE		UCTURE
DRAWN BY LT	TOL BUILDINGS, INC. P.O. BOX 542			

BOX EAVE RAFTER LEAN-TO OPTIONS



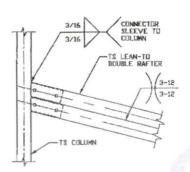
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR SPAN & 10'-0'
SCALE: NTS



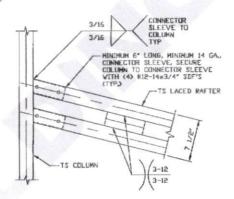
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

FOR SPAN 16'-0' < L \(\leq 24'-0' \)

SCALE NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 10'-0' < L & 16'-0'



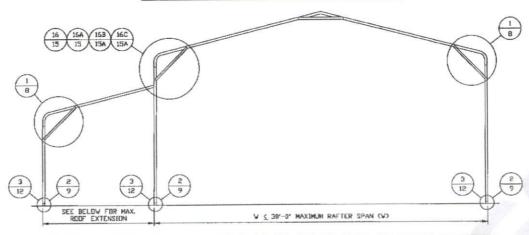
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0' < L \(\leq 24'-0' \)

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	CLIENT: TOL	SHT. 14A	DVG. ND: SK-		REV. 1	
_	PROJECT MGR VSM	DATE 3-21-22	SCALE NTS	JE18	ND 45/22020S	
	CHECKED BY: PIN	30'-0"x2	TOAST, NC 20'-0" ENCLOSE		UCTURE	
	DRAWN BY: LT		TOL BUILDING P.O. BOX		2.	

BOW RAFTER LEAN-TO OPTION



TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS SCALE NTS

MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO IS 10'-0'.

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

MAXIMUM WIDTH OF LACED MEMBER ROOF EXTENSION AND LEAN-TO IS 24'-0'.

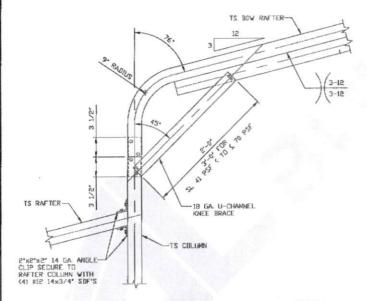
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR EAVE HEIGHTS 14'-0' < TO < 20'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 10'-0' < TO < 16'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 9'-0' < TO < 12'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 9'-0' < TO < 12'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR FAVE HEIGHTS < 9'-0'.



EAVE HEIGHTS & 9'-0'.

3/16 TS LEAN-TO DOUBLE RAFTER 3-12 3-18 TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 10'-0" < L & 16'-0" 16A SCALE: NTS

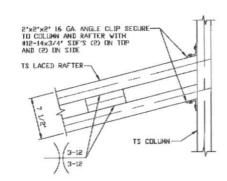
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN & 10'-0"

SCALE: NTS

16

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	TOAST, NC 270)49
ACCORD AND AGGOOD TEG	DOALGE DV. LT		TOL BUILDINGS, P.O. BOX 542	

BOW RAFTER LEAN-TO OPTION



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0' < L \(\) 24'-0'

CONNECTOR SLEEVE TO 3/16

MINIMUM 6' LONG, MINIMUM 14 GA,
CONNECTOR SLEEVE, SECURE
COLLUMN TO DONNECTOR SLEEVE
VITH (4) B12-14x3/4' SDF'S

TS LACED RAFTER

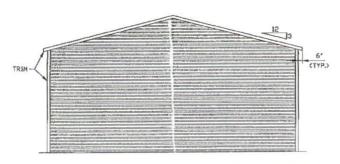
TS COLUMN

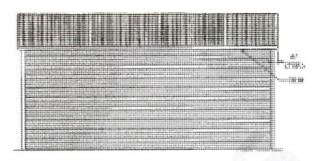
TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0' (L \(\) 24'-0'

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ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH	30'-0"x2	0'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BY: LT		TOL BUILDINGS P.O. BOX 54 TOAST, NC 27	2

BOX EAVE RAFTER VERTICAL ROOF OPTION



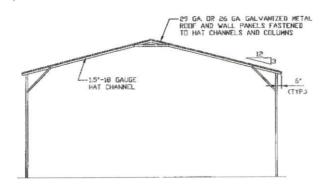


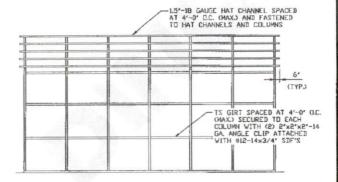
TYPICAL END ELEVATION-VERTICAL ROOF

SCALE: NTS

TYPICAL SIDE ELEVATION-VERTICAL ROOF OPTION

SCALE: NTS





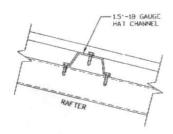
TYPICAL SECTION-VERTICAL ROOF

SCALE: NTS

TYPICAL FRAMING SECTION-VERTICAL ROOF OPTION

SCALE NTS

NOTE: HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TS GIRTS.
HAT CHANNELS MUST BE SPACED AT 4'-0' D.C. (MAX.) AND FASTENED
TO EACH COLUMN (LEG) WITH #12-14x3/4' SDF'S.



ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	

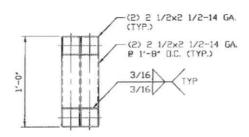
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DRAVN BY: LT CHECKED BY: PDH	TOL BUILDINGS, INC. P.O. BOX 542 TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRU				
PROJECT MGR WSM	DATE 3-21-22	SCALE NTS		ND: 545/22020S	
CLIENT: TOL	SHT. 16	DVG. NO SK-	3	REVJ 1	

SIDE WALL HEADER OPTIONS

41 PSF < TO < 70 PSF

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



2 1/2x2 1/2-14 GA. (TYP.)

2 1/2x2 1/2-14 GA. e 1'-8' G.C. (TYP.)

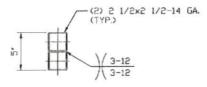
3/16

TYP

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 15'-0' < LENGTH \(20'-0' \)

SCALE: NTS

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 8'-0' < LENGTH \(\leq \) 15'-0'
SCALE: NTS

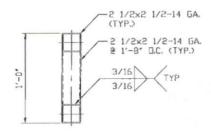


HEADER DETAIL FOR SIDE WALL DOOR OPENINGS & 8'-0'

SCALE: NTS

SIDE WALL HEADER OPTIONS

< 40 PSF



(17P.) (3-12) (3-12)

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 10'-0' < LENGTH \(\) 20'-0'

SCALE: NTS

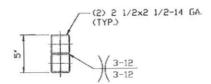
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS \(\) 10'-0"

SCALE: NTS

ENGINEERING AND CONSULTING, INC.	ECKED BY: PDH	30'-0"x20	TOAST, NC 2704 0'-0" ENCLOSED S	
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END WALL HEADER OPTIONS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 13'-0' < LENGTH \(\) 20'-0"

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS & 13'-0"

SCALE: NTS

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USE TOO WANT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE 3-21-22		JETR NO. 19164S/22020S
THE THE PARTY OF THE CONTRACT TO THE PARTY OF THE PARTY O	CHECKED BY: PDH	TOAST, NC 27049 30'-0"x20'-0" ENCLOSED STRU		
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX 542	2