UNINHABITED UTILITY SHED UP TO 12' WIDE x UP TO 24' LONG
PPTR, PPR, PTR, TR800

STRUCTURAL NOTES:
1. BUILDING CODE: 2015 IBC & IRC, 2018 IBC & IRC
2. DESIGN LOADING:
   A. ROOF LOADS
      1. UNIFORM ROOF (SNOW): 20 PSF
         A. SNOW EXPOSURE FACTOR, C_e: 1.0
         B. SNOW IMPORTANCE FACTOR, I_s: 1.0
         C. THERMAL FACTOR C_t: 1.2
      2. DEAD LOAD: 10 PSF
   B. WIND LOADS
      1. BASIC WIND SPEED, v_{ult}: 115 MPH
      2. EXPOSURE: C
      3. INTERNAL PRESSURE COEFFICIENT GCpi: ±0.18

   C. SEISMIC DESIGN
      1. IMPORTANCE FACTOR: 1.0
      2. SPECTRAL RESPONSE ACCELERATIONS: S_s = 0.42, S_1 = 0.14
      3. SITE CLASS: A
      4. SITE COEFFICIENTS: S_{DS} = 0.44, S_{D1} = 0.23
      5. SEISMIC DESIGN CATEGORY: C

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
APPROVED
Limited building only review. Permit holder responsible for full compliance with the code
06/21/2021
Harnett COUNTY NORTH CAROLINA

LUMBER:
1. ALL LUMBER SHALL BE SPRUCE PINE-FIR STUD GRADE (U.O.N.).
2. REFER TO THE TRUSS DESIGN FOR DESIGN INFORMATION.

HEADER NAILING:
HEADER TO STUD - 4-16d END NAIL DOUBLED HEADER
- 16d @ 16" STAGGERED FACE NAIL

NAILING:
REFER TO SHEET 2 FOR WALL AND ROOF SHEATHING NAILING.

MAX WALL HEIGHT FOR EACH SHED:
PPTR, PTR, TR/TRD800 - 7'-8 1/4" (92 1/4")
PPR - 6'-8 1/4" (80 1/4")

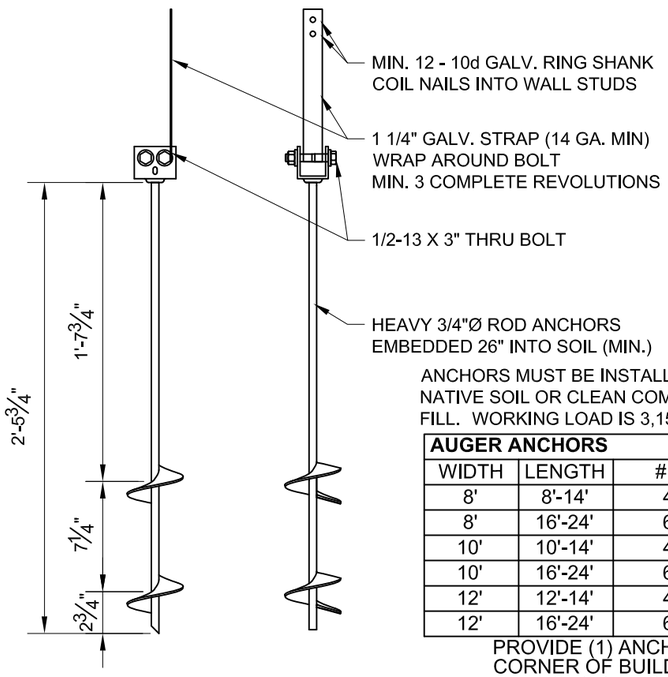
MAX ROOF SLOPE FOR EACH SHED:
PPTR, PPR - 5:12
PTR, TR800 - 4:12

SIDE WALL EDGE NAILING REQUIREMENTS

MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	EDGE NAILING	MAX. COMB. OPENING (NOTE 2)	MIN TOTAL COMBINED SHEAR WALL
NO OPENINGS ALONG THE WALL					
	8'	8'-24'	8d NAILS @ 6" O.C.	0'	8'-24'
	10'	10'-24'	8d NAILS @ 6" O.C.	0'	10'-24'
	12'	12'-24'	8d NAILS @ 6" O.C.	0'	12'-24'
▪ MIN 2'-3" RTN WALLS ON EACH END OF WALL-				**▪ MIN 2'-3" WALL SEGMENT**	
	8'	8'-24'	8d NAILS @ 6" O.C.	UP TO 12'	6'
	10'	10'-24'	8d NAILS @ 6" O.C.	UP TO 12'	7'
	10'	10'-24'	8d NAILS @ 4" O.C.	UP TO 12'	5'
	12'	12'-24'	8d NAILS @ 6" O.C.	UP TO 12'	8'
	12'	12'-24'	8d NAILS @ 4" O.C.	UP TO 12'	6'

END WALL EDGE NAILING REQUIREMENTS

MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	EDGE NAILING	MAX. COMB. OPENING	MIN TOTAL COMBINED SHEAR WALL
NO OPENINGS ALONG THE WALL					
	8'	8'-24'	8d NAILS @ 3" O.C.	0'	8'
	10'	10'-24'	8d NAILS @ 4" O.C.	0'	10'
	12'	12'-24'	8d NAILS @ 4" O.C.	0'	12'
▪ MIN 2'-3" RTN WALLS ON EACH END OF WALL-				**▪ MIN 2'-3" WALL SEGMENT**	
	8'	8'-18'	8d NAILS @ 3" O.C.	2'	6'
	8'	8'-16'	8d NAILS @ 3" O.C.	3'	5'
	10'	10'-18'	8d NAILS @ 3" O.C.	4'	6'
	10'	10'-16'	8d NAILS @ 3" O.C.	5'	5'
	12'	12'-24'	8d NAILS @ 3" O.C.	4'	8'
	12'	12'-18'	8d NAILS @ 3" O.C.	6'	6'
	12'	12'-14'	8d NAILS @ 3" O.C.	7'	5'



1 AUGER ANCHOR DETAIL
SCALE: N.T.S.

ANCHORS MUST BE INSTALLED IN NATIVE SOIL OR CLEAN COMPACTED FILL. WORKING LOAD IS 3,150 LBS.

AUGER ANCHORS

WIDTH	LENGTH	# OF ANCHORS
8'	8'-14'	4 ANCHORS
8'	16'-24'	6 ANCHORS
10'	10'-14'	4 ANCHORS
10'	16'-24'	6 ANCHORS
12'	12'-14'	4 ANCHORS
12'	16'-24'	6 ANCHORS

PROVIDE (1) ANCHOR AT EACH CORNER OF BUILDING. PROVIDE (1) ANCHOR AT CENTER OF EACH SIDEWALL FOR 16'-24' LONG BUILDINGS.

ROOF SHEATHING (7/16" OSB)

WIDTH	LENGTH	FIELD NAILING	EDGE NAILING
8'	8'-24'	8d NAILS @ 12" O.C	8d NAILS @ 6" O.C.
10'	10'-24'	8d NAILS @ 12" O.C	8d NAILS @ 6" O.C.
12'	12'-24'	8d NAILS @ 12" O.C	8d NAILS @ 6" O.C.

NOTES:
1. USE 8d COMMON NAILS W/ A MIN SHANK DIAMETER OF **0.131"** AND A LENGTH OF **2 1/2"**.

TABLE NOTES:

1. NAILING IS FOR 3/8" SMARTSIDE PANEL OR 3/8" SILVERSIDE PANEL.
2. NO SINGLE OPENING GREATER THAN 8'-0"
3. USE COMMON NAILS WITH A MINIMUM SHANK DIAMETER OF 0.113" AND A MINIMUM LENGTH OF 2 1/2".
4. FIELD NAILING FOR 3/8" SMARTSIDE: 8d @ 12" O.C.

TUFF SHED
Storage Buildings & Garages
TUFF SHED, MFG. FACILITIES

Order #.
Customer:
Site Address:
Building Size: WIDTH - LENGTH - HEIGHT - SQ. FT. AREA

P.O. #
Drawn By: SJ
Date: 1/21/19
Checked By:
Date:
Scale: N.T.S.

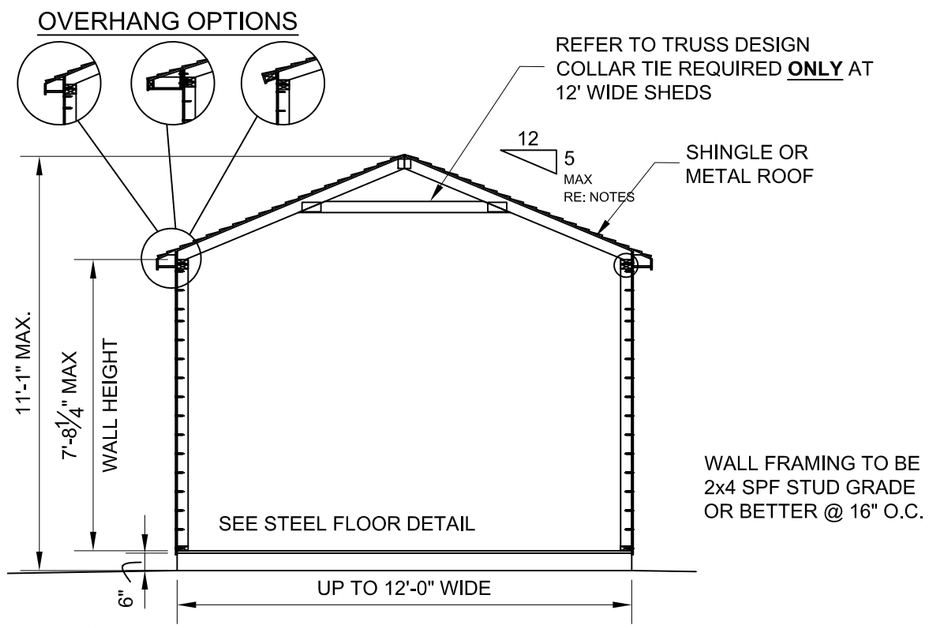
TUFF SHED, INC.
ENGINEERING DEPARTMENT
RICHARD J. WILLS, P.E.
RWILLS@TUFFSHED.COM
1777 S. HARRISON STREET
DENVER, COLORADO 80210
(303) 753-8833 EXT. 96315

NORTH CAROLINA PROFESSIONAL SEAL 044353 ENGINEER RICHARD J WILLS

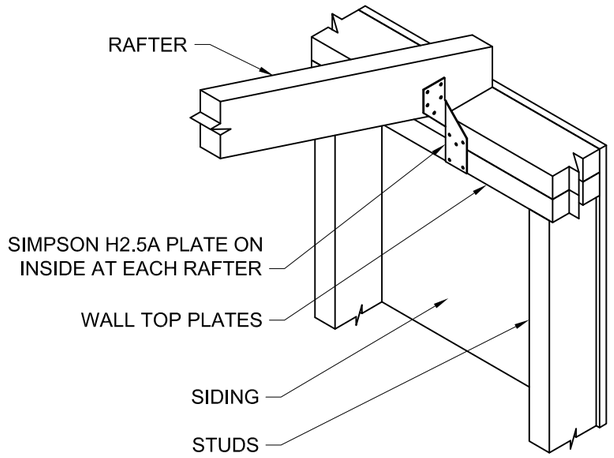
TITLE
GENERAL NOTES
AND DETAILS
115 MPH, EXP. C

DRAWING NO. 610-PPTR-TR800-01
REV. LEVEL 01
SHEET 1

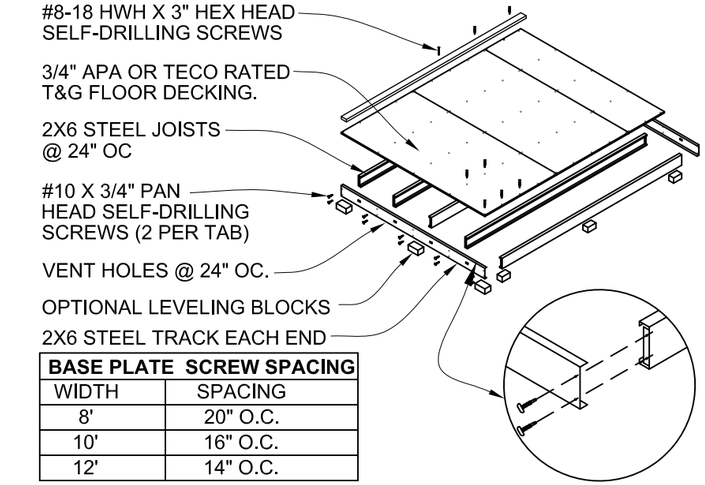
18 FEB 2019



1 BUILDING SECTION
SCALE: N.T.S.



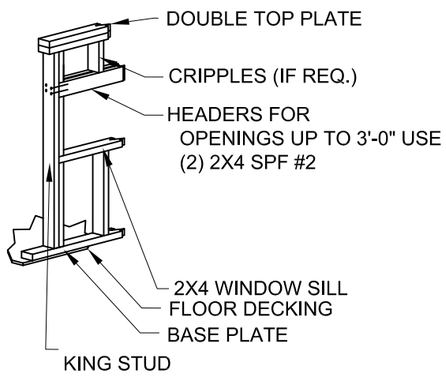
2 TRUSS ATTACHMENT DETAIL
SCALE: N.T.S.



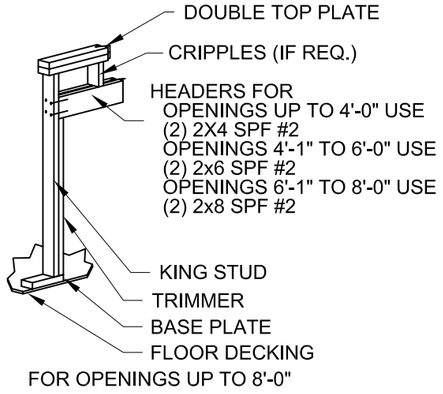
BASE PLATE WIDTH	SCREW SPACING SPACING
8'	20" O.C.
10'	16" O.C.
12'	14" O.C.

1. STEEL SHED FOUNDATION:
   600T125-054 - 16 GAUGE STEEL TRACKS G140 ZINC COATED
   600S150-054 - 16 GAUGE STEEL JOISTS G140 ZINC COATED
   @ 24" O.C.
   (SUPPLIER: QUAIL RUN (JOIST: 600S137-054 / TRACK:
   600T150-054) ICC ER-4943P.
2. 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN.
3. FASTEN FLOOR DECKING TO JOIST & TRACKS USING #8 x 1-5/8" ZINC PLATED SCREWS @ 12" O.C.
   NO BLOCKING REQUIRED. ALL EDGES SHALL LIE ON FLOOR JOISTS. STAGGER PANEL LAYOUT PER APA CONDITION 1.
4. FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR TRACKS WITH #8-18 HWH X 3" GALVANIZED SELF-DRILLING SCREWS. REFERENCE SPACING CHART.
5. ALLOWABLE FLOOR LIVE LOAD: 75 PSF FOR STEEL JOISTS CONTINUOUSLY SUPPORTED. 50 PSF FOR JOISTS ON BLOCKS AS SHOWN.
6. USE OPTIONAL CONCRETE BLOCKS AS REQUIRED TO LEVEL BUILDING:
   SUGGESTED SIZES: 2" x 8" x 16", 4" x 8" x 16", OR 8" x 8" x 16".
   BLOCKS UNDER JOISTS SPACED @ 8'-0" O.C. MAXIMUM.
   BLOCKS UNDER TRACK SPACED @ 4'-0" O.C. MAXIMUM.

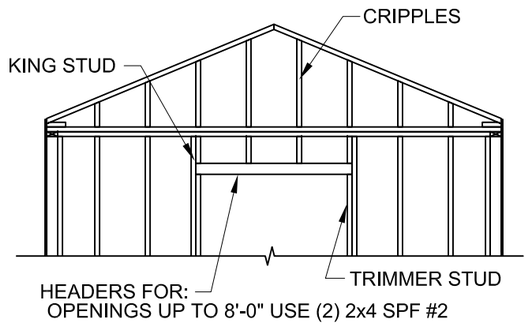
5 STEEL SHED BASE DETAIL
SCALE: N.T.S.



3A DOOR HEADER DETAIL FOR SIDE WALLS
SCALE: N.T.S.



3B DOOR HEADER DETAIL FOR SIDE WALLS
SCALE: N.T.S.



4 HEADER DETAIL FOR END WALLS
SCALE: N.T.S.

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TUFF SHED, MFG. FACILITIES

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18 FEB 2019

TITLE
BUILDING SECTIONS
HEADER FRAMING DETAILS
115 MPH, EXP. C

DRAWING NO. 610-PPTR-TR800-01
REV. LEVEL 01
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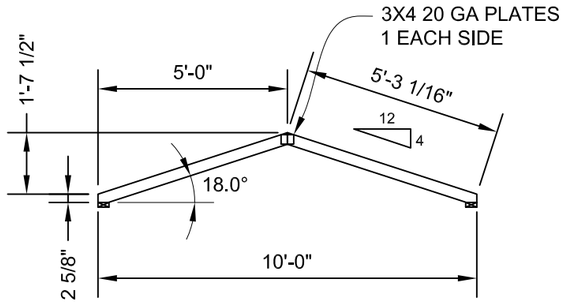

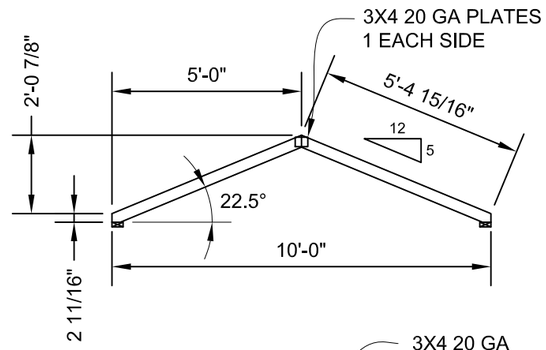

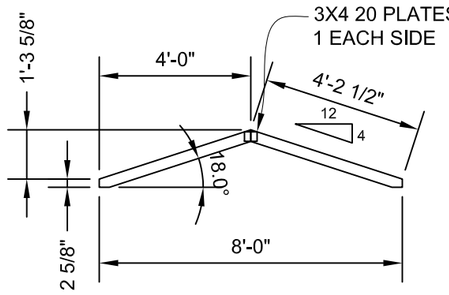

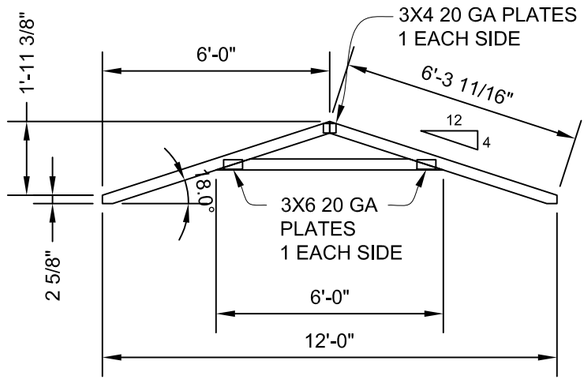

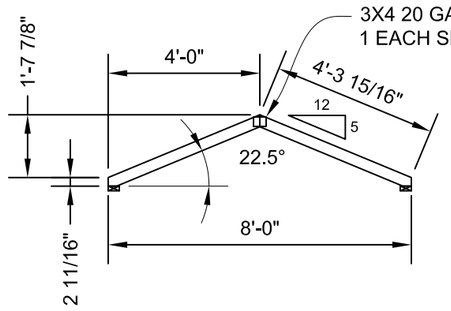

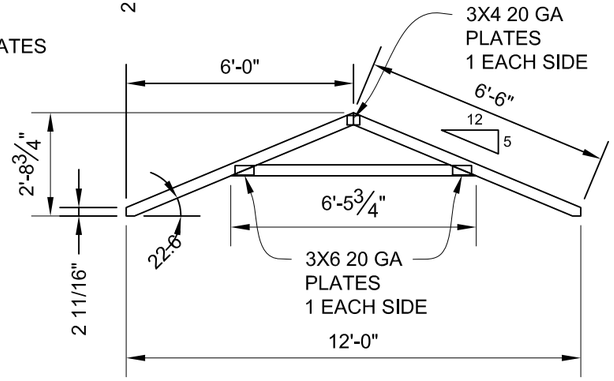

DESIGN LOADS:
TOP CHORD LIVE LOAD = 20 PSF
TOP CHORD DEAD LOAD = 10 PSF
COLLAR TIE DEAD LOAD = 5 PSF

NOTES:
2015 IBC & IRC, 2018 IBC & IRC
ANSI/TPI 1-2014
TRUSSES TO BE SPACED @ 24" OC
MATERIAL TO BE 2X4 SPRUCE PINE FIR GRADE #2 OR BETTER
PLATES ARE TO BE PRESSED IN THE WOOD PER TPI.

REP MEMBER INCREASE: YES
LUMBER D.O.L.: 1.25

WIND:
ASCE 7-10, 115 mph, Exposure C, D.O.L.=1.60

PLATES ARE MANUFACTURED BY EAGLE METAL PRODUCTS, ICC-ES #ESR-1082.

8' SPAN
REACTIONS:
MAX. VERTICAL: 240 LBS.
MAX. UPLIFT: -200 LBS.

NOTE:
TRUSS MAY BE USED ON BUILDING LENGTHS UP TO 14FT UNLESS CEILING JOIST OR OTHER TENSION TIE IS PROVIDED.

10' SPAN
REACTIONS:
MAX. VERTICAL: 300 LBS.
MAX. UPLIFT: -255 LBS.

NOTE:
TRUSS MAY BE USED ON BUILDING LENGTHS UP TO 16FT UNLESS CEILING JOIST OR OTHER TENSION TIE IS PROVIDED.

12' SPAN
REACTIONS:
MAX. VERTICAL: 420 LBS.
MAX. UPLIFT: -295 LBS.

NOTE:
TRUSS MAY BE USED ON BUILDING LENGTHS UP TO 20FT UNLESS CEILING JOIST OR OTHER TENSION TIE IS PROVIDED.

MAXIMUM DEFLECTION (12 FT. SPAN)
VERT LL: 0.06 in.
VERT TL: 0.08 in.

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING THIS TRUSS ARE TO DO SO IN ACCORDANCE TO THE RECOMMENDATIONS OF THE LATEST VERSION OF THE BCSI.

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TITLE
TRUSS DETAILS
AND CALCULATIONS
115 MPH, EXP. C

DRAWING NO. 610-PPTR-TR800-01
REV. LEVEL 01
SHEET 3
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