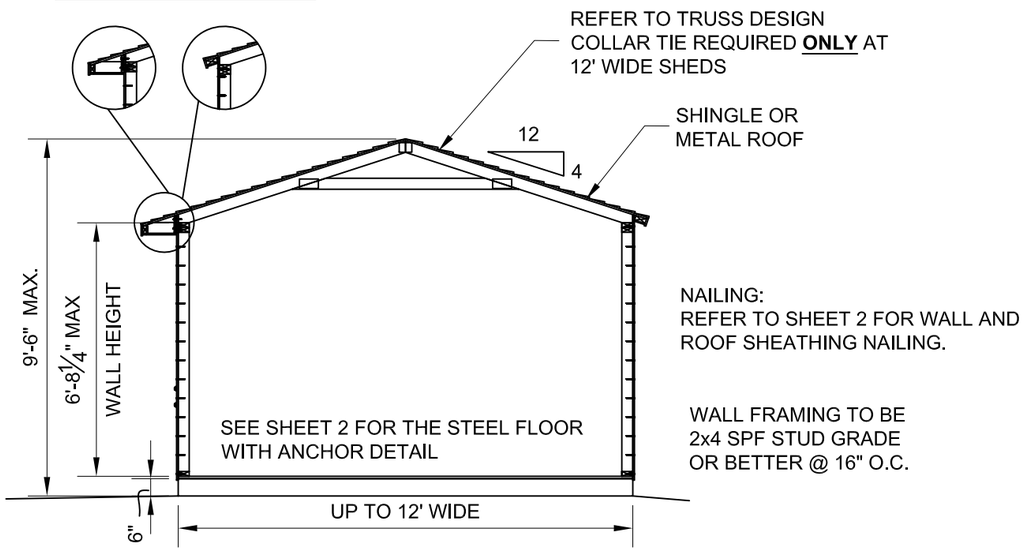
UNINHABITED UTILITY SHED UP TO 12' WIDE x UP TO 24' LONG
PR, TR/TRD700, SR600

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

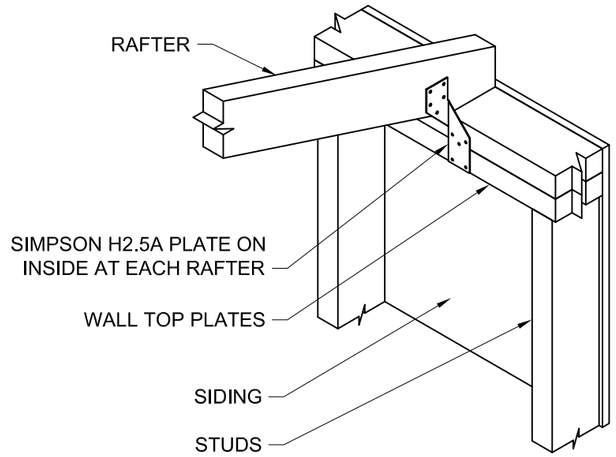
   C. SEISMIC DESIGN
      1. IMPORTANCE FACTOR: 1.0
      2. SPECTRAL RESPONSE ACCELERATIONS: S_s = 0.42, S_1 = 0.14
      3. SITE CLASS: A
      4. SITE COEFFICIENTS: S_{DS} = 0.44, S_{D1} = 0.23
      5. SEISMIC DESIGN CATEGORY: C

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

OVERHANG OPTIONS



1 BUILDING SECTION
SCALE: N.T.S.



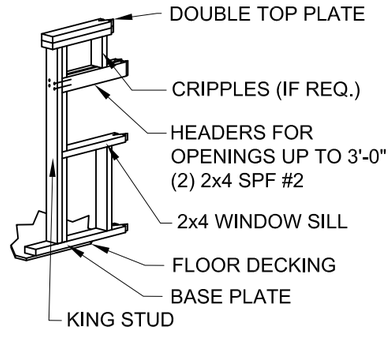
2 TRUSS ATTACHMENT DETAIL
SCALE: N.T.S.

NOTE:
SIDEWALL DOORS ARE NOT AVAILABLE ON THE SR-600 SHEDS.

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

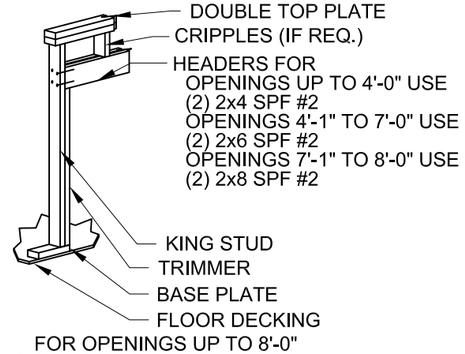
MAX WALL HEIGHT FOR EACH SHED:
PR, TR/TRD700 - 6'-8 1/4" (80 1/4")
SR600 - 5'-8 1/4" (68 1/4")

MAX ROOF SLOPE FOR EACH SHED:
ALL - 4:12



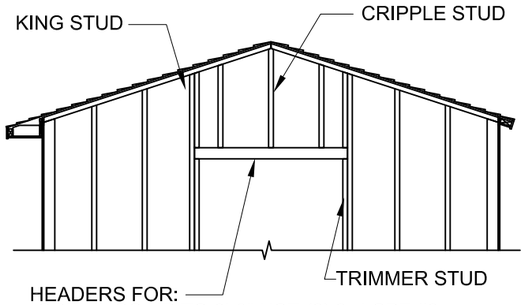
FOR WINDOW OPENINGS UP TO 3'-0"

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



FOR OPENINGS UP TO 8'-0"

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



REFER TO THE DOOR DETAIL (SHEET 2) FOR THE DOOR DESIGN

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

TUFF SHED
Storage Buildings & Garages
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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.
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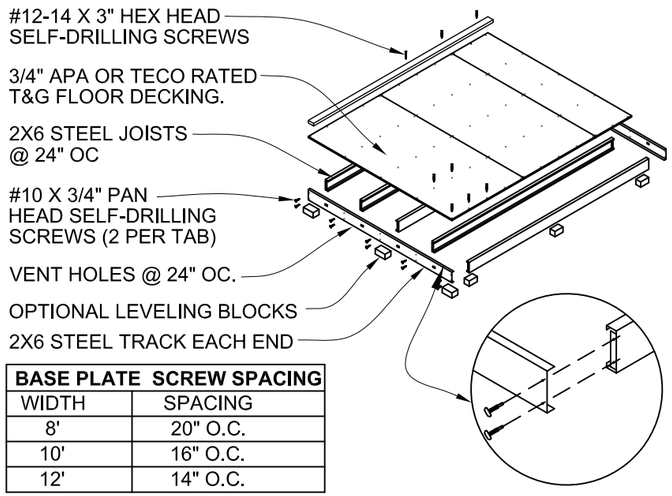
(303) 753-8833 EXT. 96315

NORTH CAROLINA PROFESSIONAL SEAL 044353 ENGINEER RICHARD J WILLS

13 FEB 2019

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

DRAWING NO. 610-PR-TR-SR-01
REV. LEVEL 01
SHEET 1
PAGE 1 **OF** 3



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

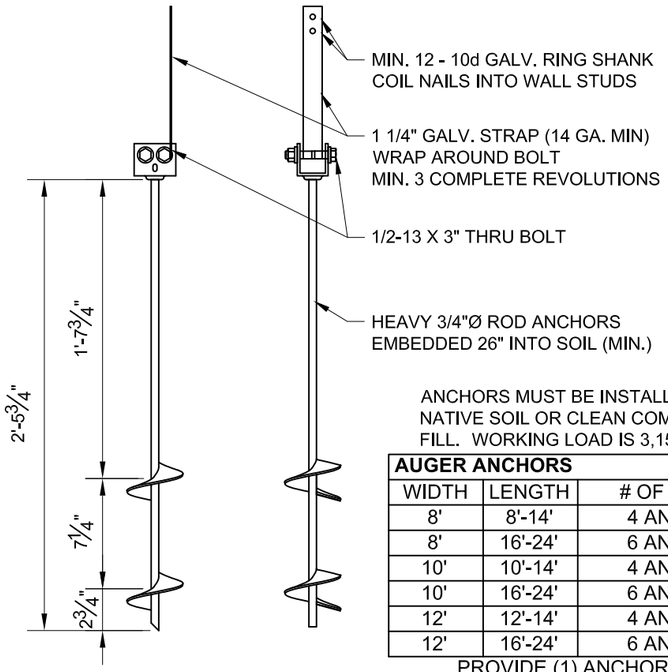
1. STEEL SHED FOUNDATION:
   600T125-054 - 16 GAUGE STEEL TRACKS G140 ZINC COATED
   600S137-054 - 16 GAUGE STEEL JOISTS G140 ZINC COATED @ 24" O.C.
   (SUPPLIER: ALLIED STUDCO (JOIST: 600S137-054 / TRACK: 600T125-054) ICC ER-4943P.
2. 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN. STAGGER PANEL LAYOUT.
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 #12-14 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.

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

3/8 SMARTSIDE NAILING REQUIREMENTS

ROOF SHEATHING (7/16" OSB)			
WIDTH	LENGTH	FIELD NAILING	EDGE NAILING
8'	8'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 4" O.C.
10'	10'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 4" O.C.
12'	12'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 4" O.C.

NOTES:
1. USE 8d COMMON OR GALVANIZED BOX NAILS.



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.

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

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 8d COMMON NAILS OR GALVANIZED BOX NAILS.
4. FIELD NAILING FOR 3/8" SMARTSIDE: 8d @ 12" O.C.

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'-20'	8d NAILS @ 6" O.C.	0'	8'
	8'	22'-24'	8d NAILS @ 4" O.C.	0'	8'
	10'	10'-24'	8d NAILS @ 6" O.C.	0'	10'
	12'	12'-24'	8d NAILS @ 6" O.C.	0'	12'
▪ MIN 2'-0" RTN WALLS ON EACH END OF WALL- ▪ MIN 2'-0" WALL SEGMENT					
	8'	8'-10'	8d NAILS @ 6" O.C.	4'	4'
	8'	12'-14'	8d NAILS @ 4" O.C.	4'	4'
	8'	16'-18'	8d NAILS @ 3" O.C.	4'	4'
	8'	8'-10'	8d NAILS @ 4" O.C.	5'	3'
	8'	12'-14'	8d NAILS @ 3" O.C.	5'	3'
	10'	10'-14'	8d NAILS @ 6" O.C.	4'	6'
	10'	16'-22'	8d NAILS @ 4" O.C.	4'	6'
	10'	24'	8d NAILS @ 3" O.C.	4'	6'
	10'	10'-14'	8d NAILS @ 4" O.C.	6'	4'
	10'	16'-18'	8d NAILS @ 3" O.C.	6'	4'
	10'	10'	8d NAILS @ 4" O.C.	7'	3'
	10'	12'-14'	8d NAILS @ 3" O.C.	7'	3'
	12'	12'-18'	8d NAILS @ 6" O.C.	4'	8'
	12'	20'-24'	8d NAILS @ 4" O.C.	4'	8'
	12'	12'-14'	8d NAILS @ 6" O.C.	6'	6'
	12'	16'-20'	8d NAILS @ 4" O.C.	6'	6'
	12'	22'-24'	8d NAILS @ 3" O.C.	6'	6'
	12'	12'-14'	8d NAILS @ 4" O.C.	8'	4'
	12'	16'-18'	8d NAILS @ 3" O.C.	8'	4'
	12'	12'	8d NAILS @ 3" O.C.	9'	3'

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'-0" RTN WALLS ON EACH END OF WALL- ▪ MIN 2'-0" WALL SEGMENT					
	8'	8'-24'	8d NAILS @ 6" O.C.	UP TO 12'	4'
	8'	8'-24'	8d NAILS @ 4" O.C.	UP TO 12'	3'
	10'	10'-24'	8d NAILS @ 6" O.C.	UP TO 12'	5'
	10'	10'-24'	8d NAILS @ 4" O.C.	UP TO 12'	3'
	12'	12'-24'	8d NAILS @ 6" O.C.	UP TO 12'	6'
	12'	12'-24'	8d NAILS @ 4" O.C.	UP TO 12'	4'

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.

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TITLE
GENERAL NOTES
& TABLES
115 MPH, EXP. C

DRAWING NO. 610-PR-TR-SR-01
REV. LEVEL 01
SHEET 2
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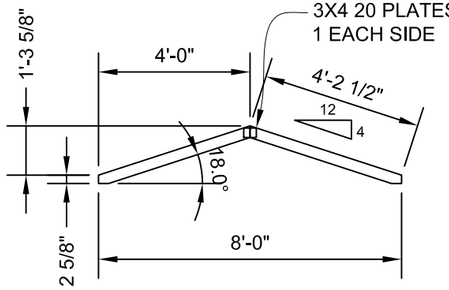

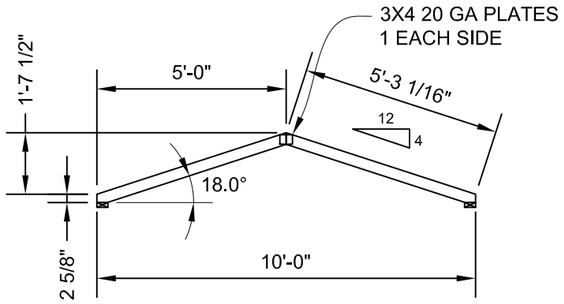

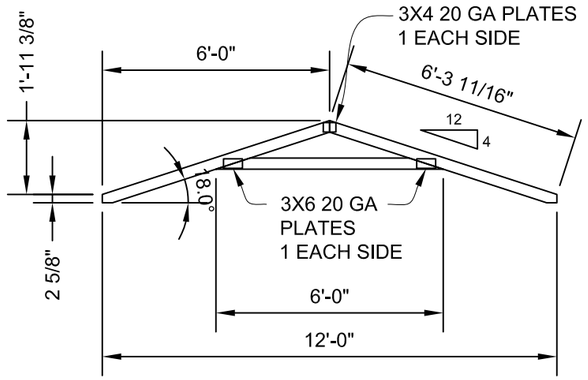

8' SPAN
REACTIONS:
MAX. VERTICAL: 240 LBS.
MAX. UPLIFT: -195 LBS.

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: -250 LBS.

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

12' SPAN
REACTIONS:
MAX. VERTICAL: 390 LBS.
MAX. UPLIFT: -285 LBS.

NOTE:
TRUSS MAY BE USED ON BUILDING LENGTHS UP TO 24FT UNLESS CEILING JOIST OR OTHER TENSION TIE IS PROVIDED.

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

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.

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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TUFF SHED, MFG. FACILITIES

Order #.
Customer:
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P.O. #
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TITLE
TRUSS DETAILS

115 MPH, EXP. C

DRAWING NO. 610-PR-TR-SR-01
REV. LEVEL 01
SHEET 3
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13 FEB 2019