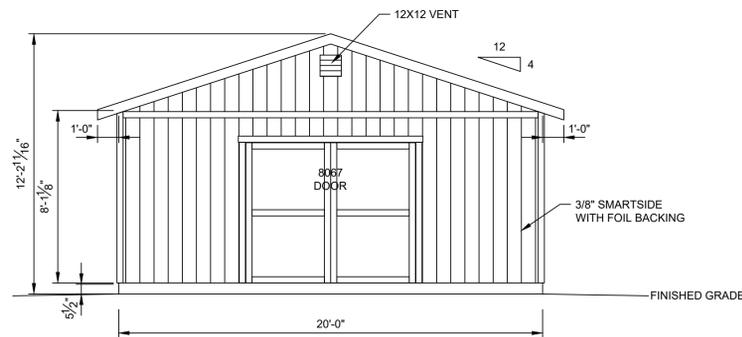


**ACCESSORY BUILDING**  
20' X 24' = 480 SQ FT

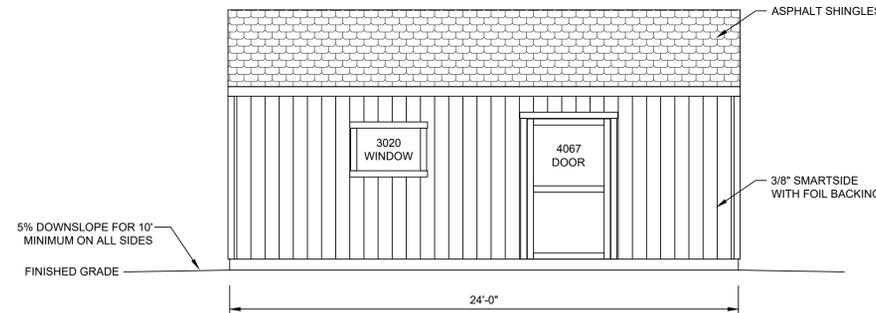
**DRAWING INDEX**  
S1 - PROJECT NOTES, ELEVATIONS  
S2 - PLANS, SHEAR WALL SCHEDULE  
S3 - SECTIONS, DETAILS

**PROJECT NOTES**

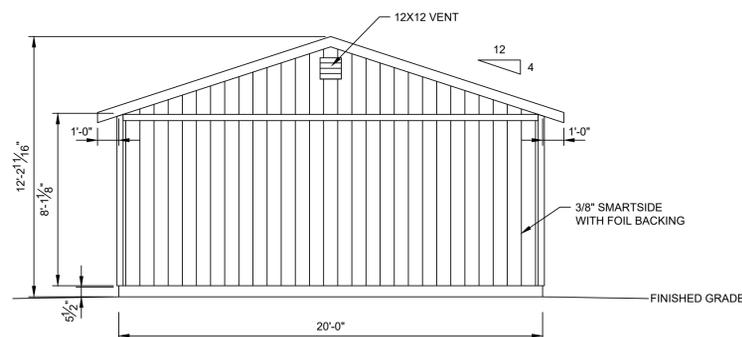
- DESIGN REQUIREMENTS**
- GOVERNING CODES: FLORIDA BUILDING CODE, 7TH EDITION (2020)  
OCCUPANCY REQUIREMENTS: GROUP U  
CONSTRUCTION TYPE: V-B
  - DESIGN SCHEDULE
    - BUILDING SIZE  
WIDTH: 20'-0"  
LENGTH: 24'-0"  
SIDE WALL HEIGHT: 8'-1 1/8"  
TOTAL HEIGHT: 12'-2 5/8"
    - BUILDING LOADS  
ROOF LIVE LOAD: 20 PSF  
ROOF DEAD LOAD: 10 PSF
    - DESIGN WIND LOAD  
ULTIMATE DESIGN WIND SPEED: 160 MPH  
NOMINAL DESIGN WIND SPEED: 124 MPH  
BUILDING RISK CATEGORY: I  
WIND EXPOSURE: CATEGORY C  
ENCLOSURE CLASSIFICATION: ENCLOSED  
INTERNAL PRESSURE COEFFICIENTS: -0.18/+0.18  
EDGE STRIP DISTANCE: a = 3'-0"
    - NOMINAL COMPONENTS & CLADDING WIND PRESSURES:  
ZONE 1: -31 PSF/+19 PSF  
ZONE 2: -53 PSF/+19 PSF  
ZONE 3: -79 PSF/+19 PSF  
ZONE 4: -36 PSF/+34 PSF  
ZONE 5: -45 PSF/+34 PSF
    - ROOF PITCH: 4/12
  - ROOFING SCHEDULE
    - ROOF SHEATHING SHALL BE APA RATED 7/16" THICK OSB WITH FOIL BACKING. STAGGER LAYOUT PER APA CONDITION 1.
    - ROOF DIAPHRAGM SHALL BE UNBLOCKED.
    - SHEATHING NAILING SHALL BE PER NAILING SCHEDULE.
    - LIFETIME DIMENSIONAL ASPHALT SHINGLES (U.N.O.).
    - FELTBUSTER BY GAF.
    - TYPE 'D' METAL DRIP EDGE FLASHING REQUIRED ALL SIDES.
    - TRUSSES SHALL BE SPACED @ 24" OC.
    - SEE SEPARATE TRUSS SHEETS FOR TRUSS FRAMING AND MATERIALS.
    - TRUSSES MUST BE BRACED ACCORDING TO THE LATEST EDITION OF THE BUILDING COMPONENT SAFETY INFORMATION "GUIDE TO GOOD PRACTICE OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI)
    - TRUSS CONNECTION PLATES: EAGLE METAL PLATES.
    - THE TRUSS PLATE INSTITUTE (TPI) (NER QA 430) IS THE INSPECTION AGENCY RESPONSIBLE FOR IN-PLANT INSPECTIONS.
    - TRUSS MANUFACTURER: TUFF SHED, INC.
  - WOOD FRAMING
    - ALL FRAMING MEMBERS SHALL BE **SPF #2 OR BETTER**.
    - STUDS SHALL BE **SPF #2 GRADE OR BETTER** AND SPACED @ 16" OC.
    - FASTEN EXTERIOR WALL SHEATHING TO FRAMING PER NAILING SCHEDULE.
    - PROVIDE SOLID BLOCKING AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALL PANELS.
    - SHEAR WALL MATERIAL SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
    - SHEAR WALL NAILING SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
- SOIL**
- MIN. REQUIRED SOIL TYPE SHALL BE CLAY, SANDY CLAY, SILTY CLAY, OR CLAYEY SILT (CL, ML, MH & CH). ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN IS 1500 PSF AT 12" DEEP. VALUES ARE PER TABLE 1806.2.
  - IN THE EVENT OF THE DISCOVERY OF EXPANSIVE SOILS, THE SERVICES OF A SOILS ENGINEER MAY BE REQUIRED.
  - ALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SOIL.
  - IN THE EVENT EXCAVATIONS REVEAL UNFAVORABLE CONDITIONS, THE SERVICES OF A SOILS ENGINEER MAY BE REQUIRED.
- 6. PERMIT**
- PERMIT APPLICATIONS, WHERE NO PERMIT IS ISSUED, SHALL EXPIRE PER LIMITATIONS SET BY LOCAL CODES. SECTION 105.5.
  - JOB CARD REQUIRED TO BE AVAILABLE FOR SIGNATURE AT JOB SITE
- GENERAL NOTES**
- GENERAL:
    - ERECTION PROCEDURES SHALL CONFORM TO OSHA STANDARDS. BUILDER SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES, TREES, UTILITIES, ETC.
    - BUILDER IS RESPONSIBLE FOR SAFETY OF BUILDING DURING CONSTRUCTION. PROVIDE ALL SHORING OR BRACING AS REQUIRED AND PER GOVERNING REGULATIONS.
    - ALL WOOD CONSTRUCTION CONNECTORS REFERENCED IN THIS DRAWING SHALL BE SIMPSON 'STRONG-TIE' OR EQUIVALENT.
    - GREEN VINYL SINKER NAILS DO NOT MEET THE NAILING REQUIREMENTS OF COMMON NAILS.
  - MATERIAL EVALUATION REPORT IDENTIFICATION
    - TRUSS CONNECTION PLATES BY EAGLE METAL PER ICC-ES REPORT #ESR-1082 FBC SUPPLEMENT.
  - FLORIDA BUILDING APPROVAL NUMBERS-
    - GARAGE DOOR BY OVERHEAD DOOR CORPORATION PER FLORIDA BUILDING APPROVAL #FL14170.
    - SERVICE DOOR BY JELD-WEN, INC PER FLORIDA BUILDING APPROVAL #FL11136.
    - SHED DOORS BY TUFF SHED, INC. PER FLORIDA BUILDING APPROVAL #FL22202.
    - WINDOWS BY TAFCO CORP - FLORIDA BUILDING APPROVAL #FL20743.
    - ECO-GUARD WINDOWS BY ECO WINDOW SYSTEMS PER FLORIDA BUILDING APPROVAL #FL25670.
    - IMPACT WINDOWS BY SILVER LINE BUILDING PRODUCTS CORP. PER FLORIDA BUILDING APPROVAL #FL14911.5.
    - HDU PRE-DEFLECTED HOLLOWDOVS BY SIMPSON STRONG-TIE PER FLORIDA BUILDING APPROVAL #FL10441.4.
    - STB ANCHORS BY SIMPSON STRONG-TIE PER FLORIDA BUILDING APPROVAL #FL13628.2.
    - H2.5A HURRICANE TIES BY SIMPSON STRONG-TIE PER FLORIDA BUILDING APPROVAL #FL10456.2.
    - SMARTSIDE SIDING BY LP BUILDING PRODUCTS PER FLORIDA BUILDING APPROVAL #FL9190.
    - HARDIE PANEL SIDING BY JAMES HARDIE BUILDING PRODUCTS PER FLORIDA BUILDING APPROVAL #FL13223.2.
    - HARDIE PLANK LAP SIDING BY JAMES HARDIE BUILDING PRODUCTS PER FLORIDA BUILDING APPROVAL #FL13192.2.
    - ASPHALT SHINGLES BY GAF PER FLORIDA BUILDING APPROVAL #FL10124.1.
    - STARTER STRIP SHINGLE BY GAF PER FLORIDA BUILDING APPROVAL #FL10124.1.
    - ROOF UNDERLAYMENT BY GAF PER FLORIDA BUILDING APPROVAL #FL18686.1.
    - TRANSOM WINDOWS BY INNOVATIONS MANUFACTURING, INC. FLORIDA BUILDING APPROVAL #FL17667.1.
    - LAMINATED VENEER LUMBER (LVL) BY WEYERHAEUSER PER FLORIDA BUILDING APPROVAL #FL6527.
    - FLOOD VENTS BY FLOOD SOLUTIONS, LLC (IF REQ'D)- FLORIDA BUILDING APPROVAL #FL17588.



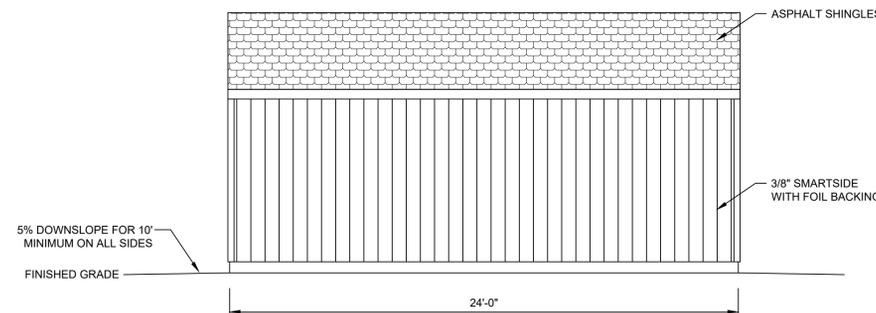
**WALL A ELEVATION**



**WALL B ELEVATION**



**WALL C ELEVATION**



**WALL D ELEVATION**

7/21/2021

TUFF SHED, INC.  
ENGINEERING DEPARTMENT  
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1777 S. HARRISON STREET  
DENVER, COLORADO 80210  
(303) 753-8833 EXT. 96319

PO No. EP-7028 Inv No. 1685667  
Customer: JMG REALTY  
Description:  
ACCESSORY BUILDING  
20' X 24' = 480 SQ FT  
Site Address:  
1900 SOUTHEAST HILLMOOR DR.  
PORT ST. LUCI, FL 32966

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**TUFF SHED**  
Storage Buildings & Garages  
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781.407.2823-2844

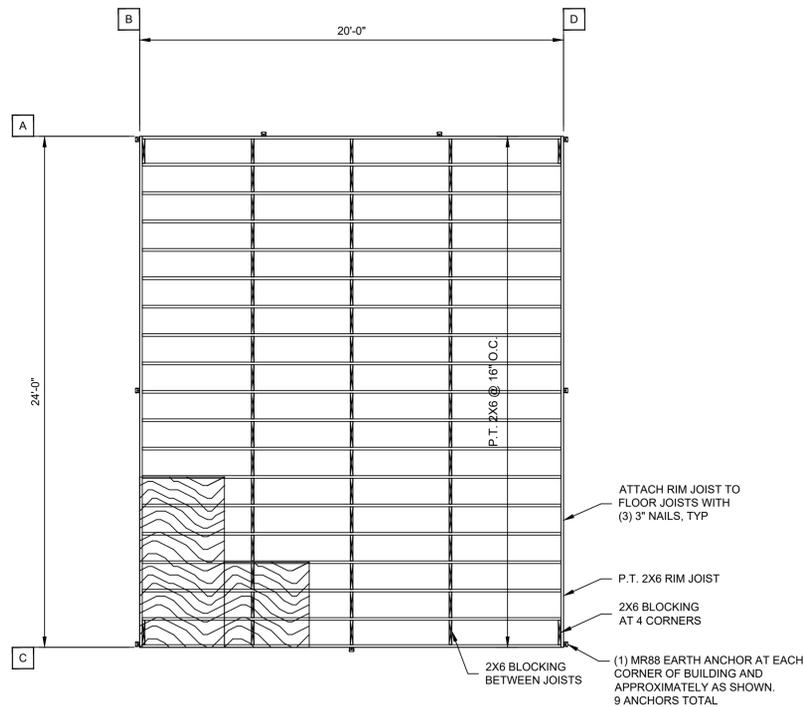
Drawn By: TB  
Date: 8/8/21  
Checked By:  
Date:  
Revised:  
Revised:  
Title:  
PROJECT NOTES  
ELEVATIONS  
Scale: 1/4" = 1'-0"  
Sheet:

**S1**

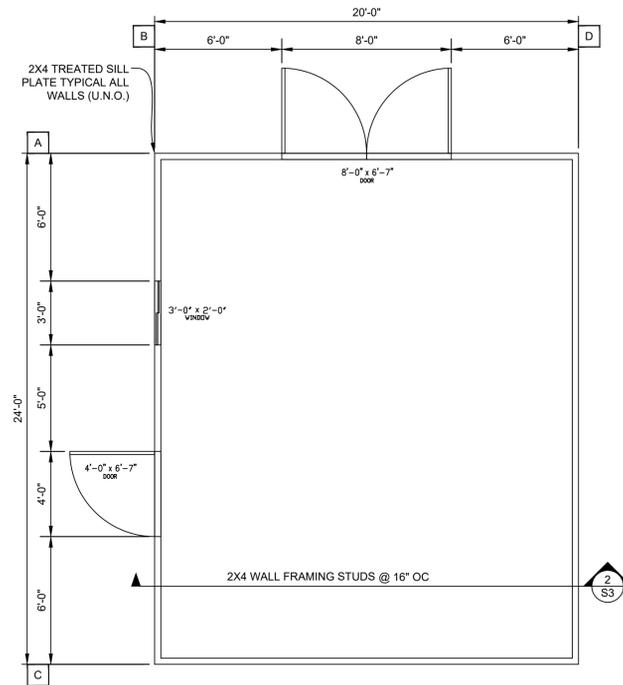
NAILING SCHEDULE		SHEAR WALL SCHEDULE		SHEAR WALL SCHEDULE	
		CALC. SHEAR LOAD (lb/ft)	ALLOW SHEAR LOAD (lb/ft)	CALC. SHEAR LOAD (lb/ft)	ALLOW SHEAR LOAD (lb/ft)
CHORD SPLICE NAILING: 8 - 16d NAILS EACH SIDE OF SPLICE. TRUSS BLOCKING: (4) - 16d (TOENAILED)					
FRAMING NAILING: STUD TO TOP PLATE, 2-16d END NAIL STUD TO SILL PLATE, 2-16d END NAIL OR 4-8d TOENAIL DBL. HEADER 16d @ 16" OC ALONG EACH EDGE HEADER TO KING STUD 4-8d TOENAIL OR 4-16d END NAIL DOUBLE TOP PLATES, 16d @ 16" FACENAIL					
<b>UNLESS SPECIFIED HEREIN, ALL NAILING SHALL BE PER FBC, 7th EDITION (2020) TABLE 2304.9.1.</b>					
UPLIFT TRANSFER: PROVIDE SIMPSON H2.5A AT EACH END OF TRUSSES. 4 PLATES TOTAL FOR EACH TRUSS.					
PROVIDE 2X4 SOLID BLOCKING ON ALL UNSUPPORTED EDGES OF PLYWOOD ON SHEAR WALLS.					
UNBLOCKED ROOF DIAPHRAGM ROOF SHEATHING NAILING: BORDER: 8d COMMON @ 6" OC EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC		107	166		
END WALL SHEAR TRANSFER: SHEATHING AT END WALL LAPS TOP PLATE OF WALL BELOW. PROVIDE EDGE NAILING. REFERENCE <b>END WALL ASSEMBLY/S3</b> . OR BALLOON FRAME END WALLS.					
SIDING TESTED TO MEET THE REQUIREMENTS OF SECTION R703.1.1, EXCEPTION 2 OF THE 2018 IRC. REFER TO INTERTEK LETTER REPORT NO. 104417961 MID-001R1.					
2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 20'-0" LONG TOTAL. (6'+6") = 12' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 3" OC FIELD: 8d COMMON @ 12" OC		312	320		
PROVIDE 2 MR-88 ANCHORS LOCATED APPROXIMATELY AS SHOWN.					
2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 24'-0" LONG TOTAL. (6'+5'+6") = 17' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC				151	164
PROVIDE 3 MR-88 ANCHORS LOCATED APPROXIMATELY AS SHOWN. <b>TOENAIL BLOCKING TO TOP PLATE: 3-8d/ BLOCK</b>					150
2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 20'-0" LONG TOTAL. 20' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 4" OC FIELD: 8d COMMON @ 12" OC		187	246		
PROVIDE 1 MR-88 ANCHORS LOCATED APPROXIMATELY AS SHOWN.					
2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 24'-0" LONG TOTAL. 24' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC				107	164
PROVIDE 3 MR-88 ANCHORS LOCATED APPROXIMATELY AS SHOWN. <b>TOENAIL BLOCKING TO TOP PLATE: 3-8d/ BLOCK</b>					150

SIMPSON	USP EQUIVALENT
H2.5A	RT7A
SSTB16-SSTB36	STB16-STB36
HDU2-HDU5	PHD2A-PHD5A
HDU8	PHD8
LUS24-LUS210	JUS24-JUS210
LS30/LS50	MP3/MP5
LSTA9-LSTA24	LSTA9-LSTA24
A24	TDL5
H1	RT15
H3	RT3A
H6	LFTA6
H8	LTW12
H10	RT16A
PA51/PA68	TA51/TA71
ABA44/ABA66	PA44E/PA66E
BC4/BC6	C44/C66
A311	TDL10
HST2	KHST2
SDS1/4X3 SCREW	WS3
A34	MP34
A35	MPA1
CS18/CS22	RS200/RS300
HTT4/HTT5	HTT16/HTT22
CMSTC16	CMSTC16

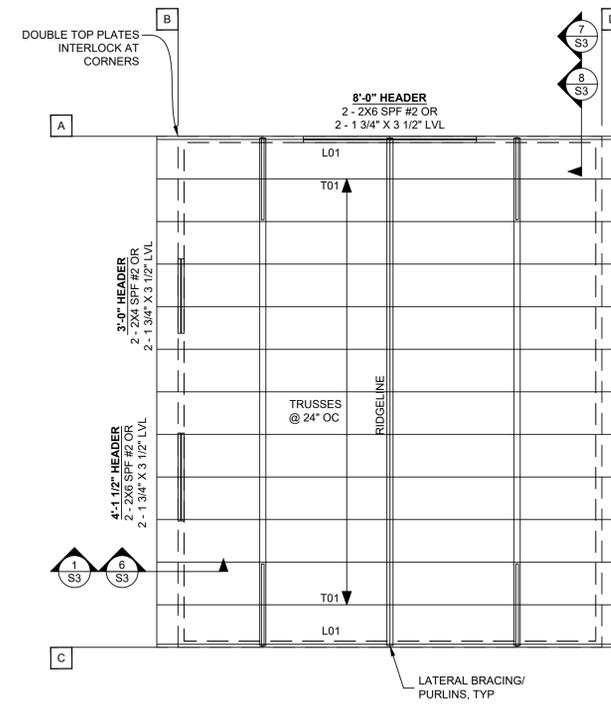
WHEN PERFORATED SHEAR WALL DESIGN IS DESIGNATED, AREAS ABOVE AND BELOW OPENINGS ARE USED IN SHEAR CALCULATIONS. REFER TO THE ANSII/AWC SDPWS.



FOUNDATION PLAN



FLOOR PLAN



ROOF FRAMING PLAN

7/21/2021

TUFF SHED, INC.  
ENGINEERING DEPARTMENT  
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1777 S. HARRISON STREET  
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(303) 753-8833 EXT. 96319

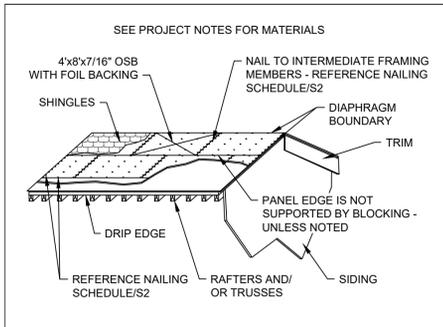
PO No. EP-7025 Inv No. 1665567  
Customer: JMG REALTY  
Description:  
ACCESSORY BUILDING  
20' X 24' = 480 SQ FT  
Site Address:  
1900 SOUTHEAST HILLMOOR DR.  
PORT ST. LUCIE, FL 32986

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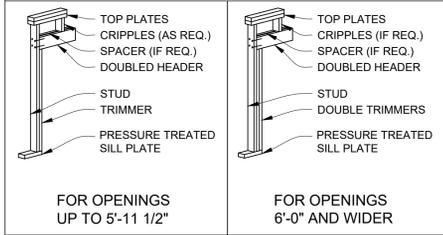
**TUFF SHED**  
Storage Buildings & Garages  
TUFF SHED, INC.  
8524 EAST COLONIAL DRIVE  
ORLANDO, FL 32817  
407.282.3444  
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PROPRIETARY. ALL RIGHTS RESERVED. STORE 520

Drawn By: TB  
Date: 6/8/21  
Checked By:  
Date:  
Revised:  
Revised:  
Title:  
PLANS  
SHEAR WALL SCHED  
NAILING SCHEDULE  
Scale: 1/4" = 1'-0"  
Sheet:

**S2**  
Sheet 2 of 3

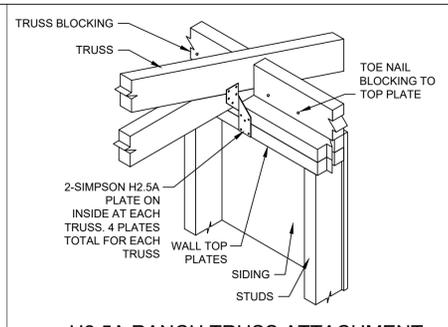


5 ROOFING SHEATHING NAILING DTL

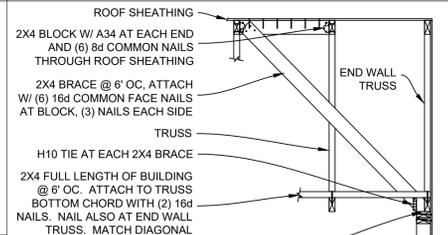


4 HEADER DETAIL NOT TO SCALE

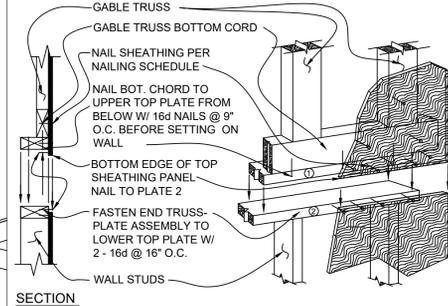
NAILING:  
 HEADER TO STUD - 4-8d TOENAIL OR 4-16d END NAIL  
 DOUBLED HEADER - 16d @ 16" STAGGERED FACE NAIL  
 REFERENCE TABLE 2304.9.1



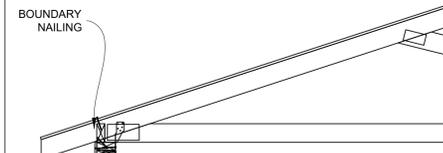
6 H2.5A RANCH TRUSS ATTACHMENT DETAIL WITH BOTTOM CHORD



7 LATERAL BRACING/PURLIN DETAIL NOT TO SCALE

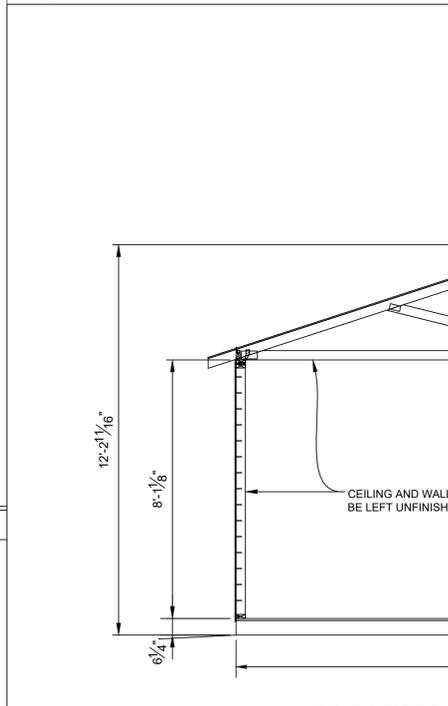


8 ENDWALL ASSEMBLY DETAIL



1 SHEAR TRANSFER DETAIL 3/4" = 1'-0"

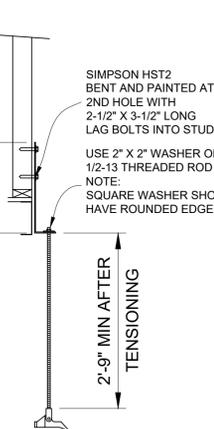
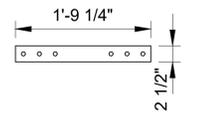
SHEAR TRANSFER NOTES:  
 1. REFERENCE SHEAR WALL SCHEDULE FOR NAILING AND HOLD-DOWN REQUIREMENTS.  
 2. REFERENCE ROOFING SCHEDULE FOR MATERIAL AND NAILING REQUIREMENTS.



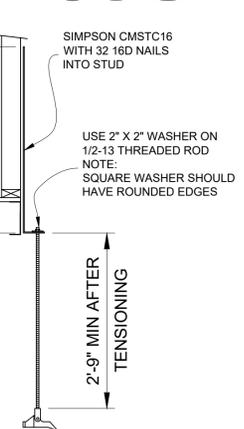
2 BUILDING SECTION 3/8" = 1'-0"

- MANTA RAY SPECIFICATIONS:  
 MR-88 HAND PAVEMENT BREAKER OR VIBRATION DRIVEN SOIL ANCHOR PART #S20355.  
 WIDTH = 1.75"  
 LENGTH = 6.25"  
 BEARING AREA = 10 SQ IN  
 WEIGHT = 2.2 LBS  
 ANCHOR RODS ARE 1/2"-13 GALVANIZED THREADED ROD. INSTALLATION DEPTH = 3.0 FT  
 YIELD STRENGTH = 7.5 KIPS  
 ULTIMATE STRENGTH = 10 KIPS, 10000 LBS  
 WORKING LOAD: UP TO 6.75 KIPS  
 NOTE: USE PDSMR88 DRIVE STEEL  
 HOLDING CAPACITY = 3.4 KIPS (3000-4000 LBS) AT 2.1M (7FT.)  
 (PULL OUT AT RECOMMENDED INSTALLED DEPTH = 1500LBS.)  
 DEPTH IN MEDIUM DENSE SANDY GRAVEL OR VERY STIFF TO HARD SILTS AND CLAYS WITH BLOW COUNT (N) = 24-40.
- MANTA RAY MR88-RA1 ASSEMBLY INCLUDES:  
 ANCHOR WITH 3 FT (MIN. 2.5 FT IN GROUND) OF STEEL THREADED ANCHOR ROD SPREADER PLATE AND NUT. ALL COMPONENT SHALL BE COATED FOR CORROSION RESISTANCE.
- SUGGESTED SUPPLIER:  
 FORESIGHT PRODUCTS, LLC  
 6430 EAST 48TH DRIVE  
 COMMERCE CITY, CO 80022 USA  
 PHONE: 303 286-8955, FAX: 303 287-3866  
 WWW.EARTHANCHOR.COM
- BASIC INSTALLATION PROCEDURE:  
 A. PILOT HOLE DIAMETER: 50-76MM (2-3 IN.). ONLY REQUIRED IN VERY HARD SOILS.  
 B. USING PDS8818 DRIVE STEEL. AT LOCATIONS INDICATED, INSTALL MR-88 ANCHOR UNTIL TOP OF ANCHOR ROD IS 1" ABOVE GRADE.  
 C. USE DRILL WITH LS16-15 LOCKING SOCKET TO TURN NUT UNTIL ANCHOR ROD HAS BEEN DRAWN BACK 3-4" OR A TORQUE OF 5 FT-LBS (60 INCH-LBS) IS ACHIEVED. THIS RESULTS IN A CLAMPING LOAD OF APPROXIMATELY 500LBS.  
 D. CUT OFF ANY EXCESS ANCHOR ROD FLUSH WITH TOP OF NUT.
- REQUIRED INSTALLATION TOOLS:  
 A. COMMONLY AVAILABLE TOOLS SUPPLIED BY CONTRACTOR:  
 50 LB ELECTRIC PAVEMENT BREAKER WITH 1-1/8" X 6" CHUCK  
 1/2" ELECTRIC DRILL  
 GENERATOR FOR BREAKER AND DRILL  
 SAWS/ALL WITH METAL CUTTING BLADE, OR 1/2" BOLT CUTTERS  
 B. SPECIFIC TOOLS AVAILABLE FROM FORESIGHT PRODUCTS:  
 PDS8818 DRIVE STEEL FOR MR88 ANCHOR (FORESIGHT #50220)  
 LS16-15 LOCKING SOCKET (FORESIGHT #50202)

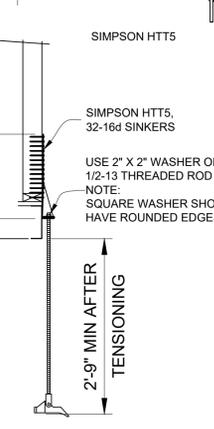
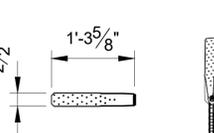
SIMPSON HST2



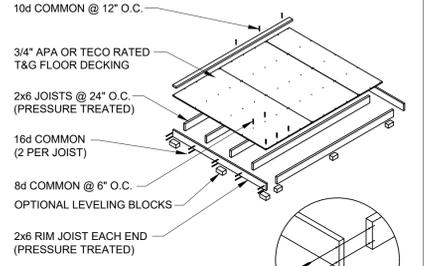
SIMPSON CMSTC16



SIMPSON HTT5



9 MR88 ANCHOR DETAILS



- WOOD SHED FOUNDATION:  
 2x6 #2 PRESSURE TREATED HEM FIR RIM JOISTS  
 2x6 #2 PRESSURE TREATED HEM FIR JOISTS @ 24" O.C.
- 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN. NO BLOCKING REQUIRED. ALL EDGES SHALL LIE ON FLOOR JOISTS. STAGGER PANEL LAYOUT PER APA CONDITION 1.
- NAIL PLYWOOD TO JOISTS AND RIM JOISTS:  
 BORDER: 8d COMMON SPACED @ 6" O.C.  
 EDGE: 8d COMMON SPACED @ 6" O.C.  
 FIELD: 8d COMMON SPACED @ 12" O.C.
- FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR RIM JOISTS WITH 10d COMMON SPACED @ 12" O.C.
- ALLOWABLE FLOOR LIVE LOAD: 40 PSF
- 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 RIM JOISTS SPACED @ 4'-0" O.C. MAXIMUM.

3 WOOD SHED BASE ASSEMBLY NOT TO SCALE

7/21/2021

TUFF SHED, INC.  
 ENGINEERING DEPARTMENT

TIMOTHY D. CAHALAN, P.E.  
 TCAHALAN@TUFFSHED.COM  
 1777 S. HARRISON STREET  
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PO No. EP-7025 Inv No. 1665667  
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 8628 EAST COLONIAL BLVD.  
 ORLANDO, FL 32817  
 407-282-2444

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STORE 520

Drawn By: TB  
 Date: 6/8/21  
 Checked By:  
 Date:  
 Revised:  
 Revised:

Title:  
 -  
 SECTIONS  
 DETAILS  
 -  
 -  
 Scale: NONE  
 Sheet:

**S3**

Sheet 3 of 3