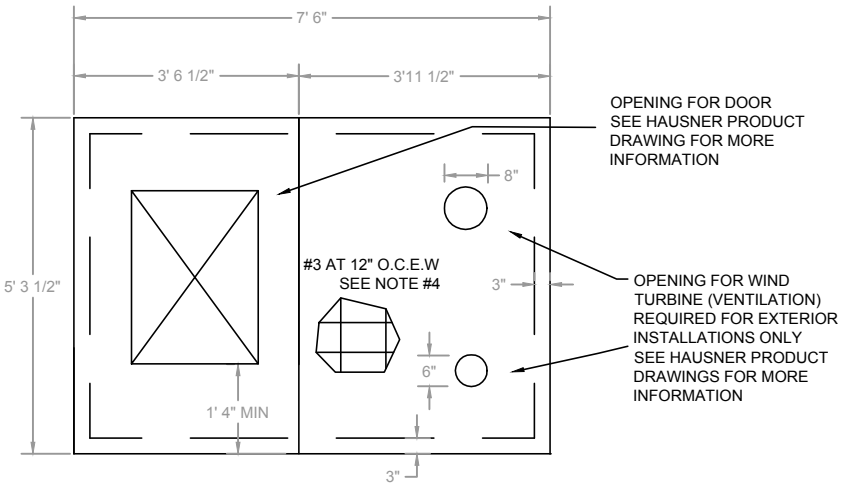
GENERAL NOTES

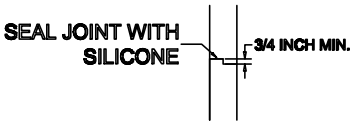
1. STORM SHELTER MEETS OR EXCEEDS FEMA 320 AND ICC-500 STANDARDS, LATEST EDITION.
2. CONCRETE STRENGTH = 6000 PSI. THE WATER CEMENT RATION SHALL NOT EXCEED 0.45
3. REINFORCING BAR SHALL BE #3 OR #4 AS SHOPWN (40 KSI), PLUS NOVEMESH SECONDARY REINFORCEMENT.
4. CEILING WALLS AND FLOOR REINFORCEMENT SHALL BE PLACED AT CENTER OF SLABS
5. PROVIDE 1 - #4 OR #3 BAR 2 INCHES FROM FACE OF ALL OPENINGS. EXTEND 12 INCHES PAST OPENING
6. EXTEND 90 DEGREE BARS (DOWELS) FROM BOTTOM SLAB INTO WALLS. MATCH DOWEL BARS WITH SPACING OF BOTTOM SLAB BARS AND LAP 16 INCHES
7. THE SHELTER IS DESIGNED TO SUPPORT A UNIFORM LOAD OF 275 PSF
8. NATIVE SOIL MAY BE USED FOR BACKFILL IF SETTLEMENT IS NOT AN ISSUE. IT SHALL BE PROPERLY COMPACTED IN 12 INCH LIFTS. CLEAN GRANULAR BACKILL SHOULD BE USED IF SHELTER IS ADJACENT TO STRUCTURES
9. DOOR MEETS REQUIREMENTS OF NOTE 1. PROPRIETARY DESIGN MANUFACTURED BY HAUSNERS, INC
10. IT IS ADVISED NOT TO USE SHELTER IN A FEMA FLOOD ZONE. CONTRACTOR SHOULD DETERMINE MAXIMUM WATER TABLE IS TWO FEET BELOW EXISTING GROUND OR MORE. IF WATER TABLE IS HIGHER SHELTER WILL NEED ADDITIONAL WEIGHT TO KEEP FROM FLOATING



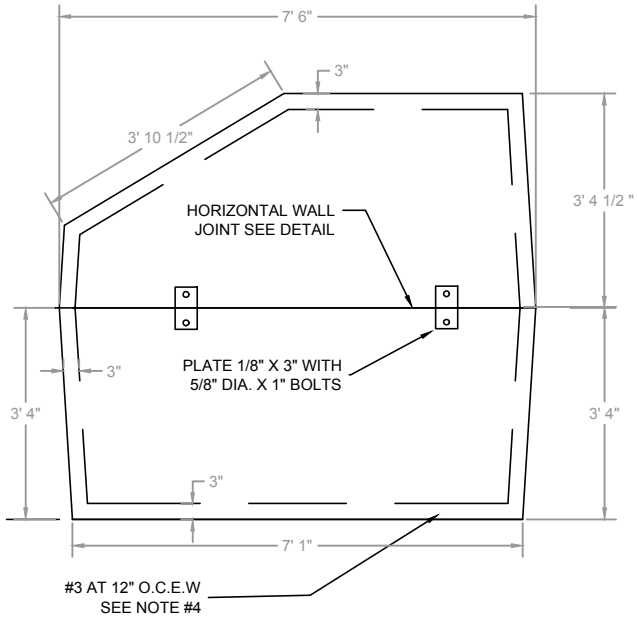

PLAN VIEW
N.T.S.

STATE OF MISSOURI
JOHN
H.
BOLTE
NUMBER
E-22511
REGISTERED PROFESSIONAL ENGINEER

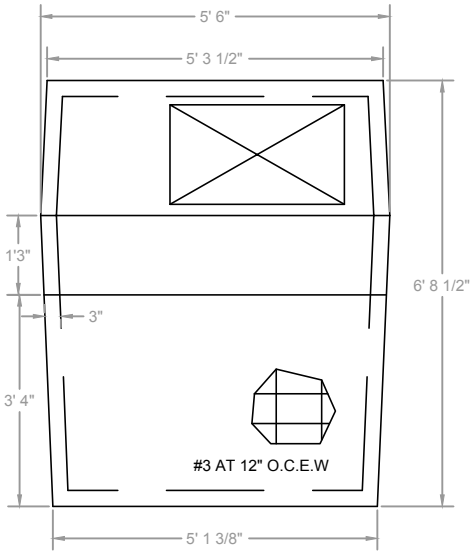
4/25/2013




HORIZONTAL WALL JOINT
N.T.S.




SIDE VIEW
N.T.S.




END VIEW
N.T.S.

SMALL ARROW ENGINEERING, LLC.
216 S. MAIN STREET
PO BOX 1538
JOPLIN, MISSOURI 64802
TEL: 417.624.2333
FAX: 417.624.2441
EMAIL: jbolte@small-arrow.com
CERTIFICATES OF AUTHORIZATION:
MISSOURI: E-2010013647

SMALL ARROW ENGINEERING, LLC

# 5' X 7' SLOPE TOP STORM SHELTER

HAUSNERS, INC
PO BOX 32
DRUMRIGHT, OK 74030

SURVEY BY: N/A
DRAWN BY: RAS
CHECKED BY: JHB
PROJECT #: 11141
DATE: 4/25/2013
SCALE: N/A

PROJECT: HAUSENER STORM SHELTER
SHEET DESC: DETAIL DRAWING
SHEET: 1 OF: 1