

## GENERAL NOTES

1. THE PURPOSE OF THIS PLAN IS TO PROVIDE DETAILS FOR THE CONSTRUCTION OF A NEW SINGLE-LEVEL SALT STORAGE STRUCTURE LOCATED AT 144 HUTCHINS DRIVE PORTLAND, ME.

2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:

2009 INTERNATIONAL BUILDING CODE (IBC)  
ANSI / ASCE 7-05  
ACI 318-05 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"  
ACI 301-05 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"  
AISC STEEL CONSTRUCTION MANUAL  
ANSI / AF&PA NDS-97  
TMS 402-08 / ACI 530-08 / ASCE 5-08 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"  
TMS 602-08 / ACI 530.1-08 / ASCE 6-08 "SPECIFICATION FOR MASONRY STRUCTURES"  
ANSI/TPI 1-2007 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"

ANY DISCREPANCIES BETWEEN THE ABOVE LISTED CODES AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.

3. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN THE STATE IN WHICH THE PROJECT IS LOCATED.

4. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.

5. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK.

6. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.

7. THESE DRAWINGS DO NOT SHOW SIZE, LOCATION, OR TYPE OF OPENINGS IN THE FOUNDATION SYSTEM FOR ELECTRICAL PLUMBING, OR MECHANICAL EQUIPMENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING OF THESE ITEMS.

8. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. QUANTITY AND DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.

9. ANY AND ALL TEMPORARY BRACING OR SHORING WHICH IS NEEDED TO HOLD THE STRUCTURE IN A SAFE AND STABLE POSITION UNTIL THE BUILDING IS COMPLETE, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONSULT INDEPENDENT ENGINEER IF DESIGN ASSISTANCE OR REVIEW IS NEEDED.

## FOUNDATION NOTES

1. A MAXIMUM ALLOWABLE SOIL PRESSURE OF 1,500 PSF WAS USED FOR THE DESIGN OF ALL FOOTINGS.

2. BACKFILL FOR FOOTINGS AND WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL.

3. FOOTINGS SHALL BE PLACED ON NATURAL UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. LEDGE, LARGE ROCKS AND SOFT AREAS OR UNDESIRABLE MATERIAL BELOW FOOTINGS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. FOOTINGS IN EXCAVATIONS OF LEDGE SHALL BE PLACED ON A MINIMUM OF 2' OF STRUCTURAL FILL.

4. STRUCTURAL FILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO A MINIMUM 95% MODIFIED PROCTOR PER ASTM D1557. STRUCTURAL FILL SHALL BE A CLEAN, WELL GRADED SAND AND GRAVEL MIXTURE MEETING THE FOLLOWING GRADATION:

SCREEN OR SIEVE SIZE	PERCENT PASSING
6 INCHES	100
3 INCHES	70 - 100
NO. 4	35 - 70
NO. 40	5 - 35
NO. 200	0 - 5

5. FOOTINGS SHALL NOT BE PLACED ON FROZEN GROUND AND AND EXCAVATIONS SHALL BE FREE OF WATER.

6. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 24" BELOW FINISH EXTERIOR GRADE.

7. FOOTING AND WALL ELEVATIONS ARE BASED ON A FIRST FLOOR ELEVATION OF 0'-0".

## STRUCTURAL DESIGN CRITERIA

1. BUILDING CODE USED FOR DESIGN IS THE 2009 INTERNATIONAL BUILDING CODE (IBC).

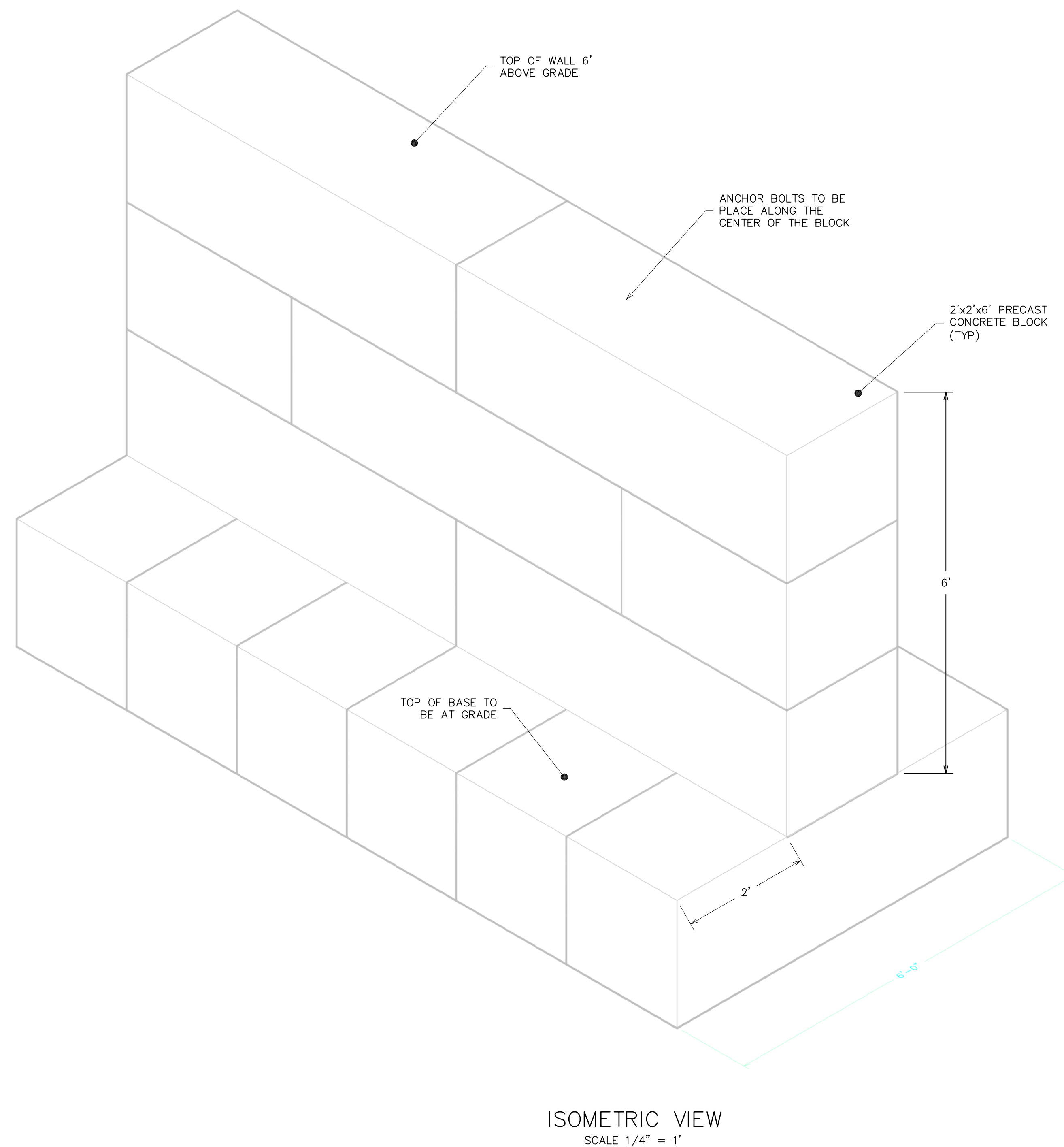
2. SNOW LOAD:  
GROUND SNOW LOAD,  $P_g = 50$  PSF  
IMPORTANCE FACTOR,  $I = 0.8$   
EXPOSURE FACTOR,  $C_e = 0.9$   
THERMAL FACTOR,  $C_t = 1.2$

3. WIND LOAD:  
BASIC WIND SPEED,  $V = 100$  MPH  
IMPORTANCE FACTOR,  $I = 0.87$   
EXPOSURE CATEGORY (MAIN WIND FORCE RESISTING SYSTEM) = C  
EXPOSURE CATEGORY (COMPONENTS AND CLADDING) = C

4. SEISMIC LOAD:  
SEISMIC IMPORTANCE FACTOR = 1.0  
SITE CLASS = E  
SPECTRAL RESPONSE COEFFICIENTS,  $S_s = 0.35$ ,  $S_1 = 0.077$   
SEISMIC DESIGN CATEGORY = D

## INDEX OF SHEETS

S-1 COVER SHEET AND STRUCTURAL NOTES  
S-2 BUILDING SECTIONS



## COVER SHEET AND STRUCTURAL NOTES

PRELIMINARY BID SET - NOT FOR CONSTRUCTION		S-1	SALT SHED FOUNDATION 144 HUTCHINS DRIVE PORTLAND, MAINE
FOR: PHOENIX PROPERTY SERVICES PO BOX 759 SACO, ME 04072-5118		ATTAR ENGINEERING, INC. CIVIL • STRUCTURAL • MARINE 1284 STATE ROAD - ELIOT, MAINE 03903 PHONE: (207)439-6023 FAX: (207)439-2128	
SCALE: AS NOTED		APPROVED BY:	DRAWN BY: CLS
DATE: 12/15/11		REVISION : DATE	- : -
JOB NO: C010-11		CAD FILE: HUTCHINS BASE	SHEET 1 OF 2

