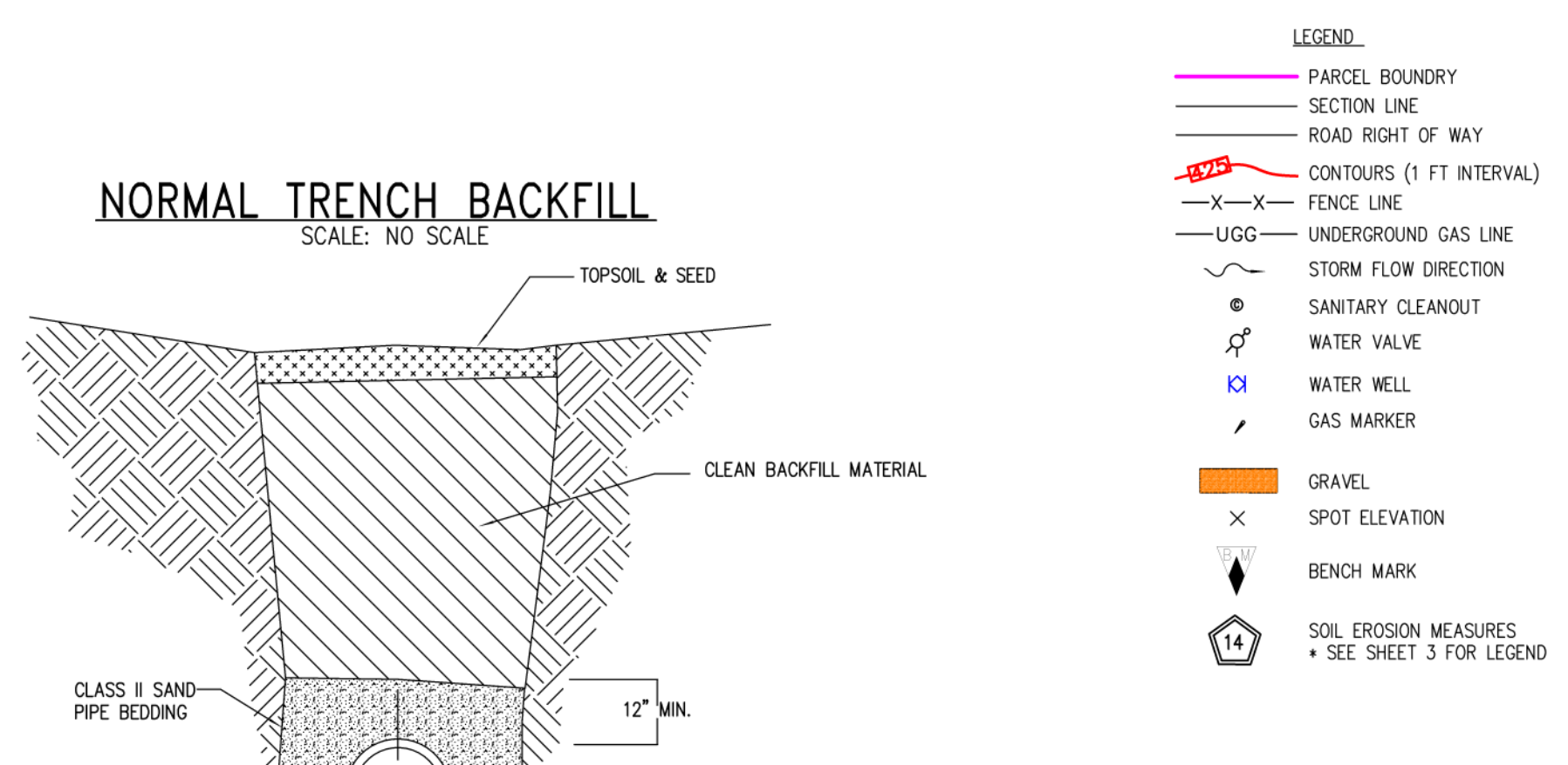
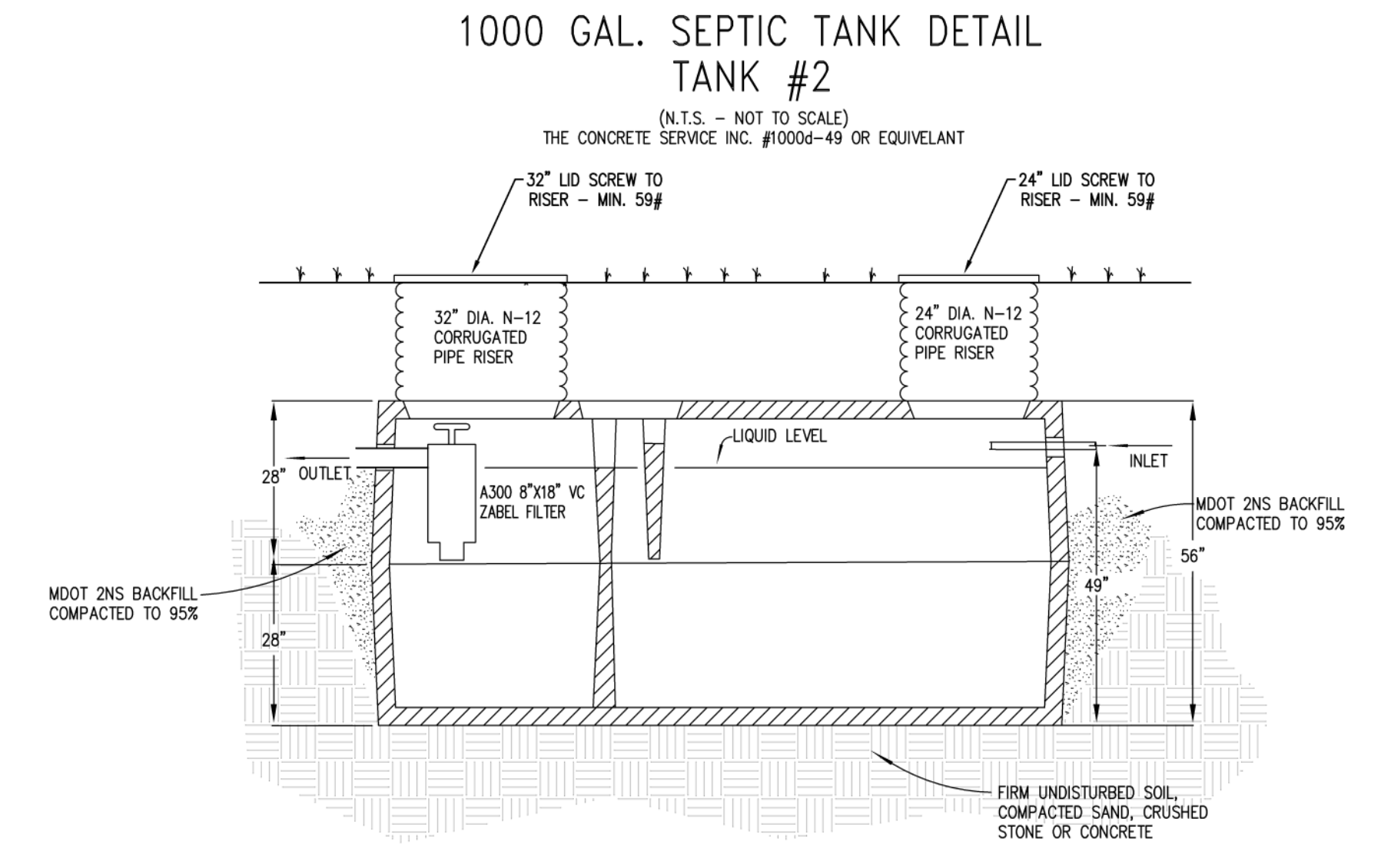
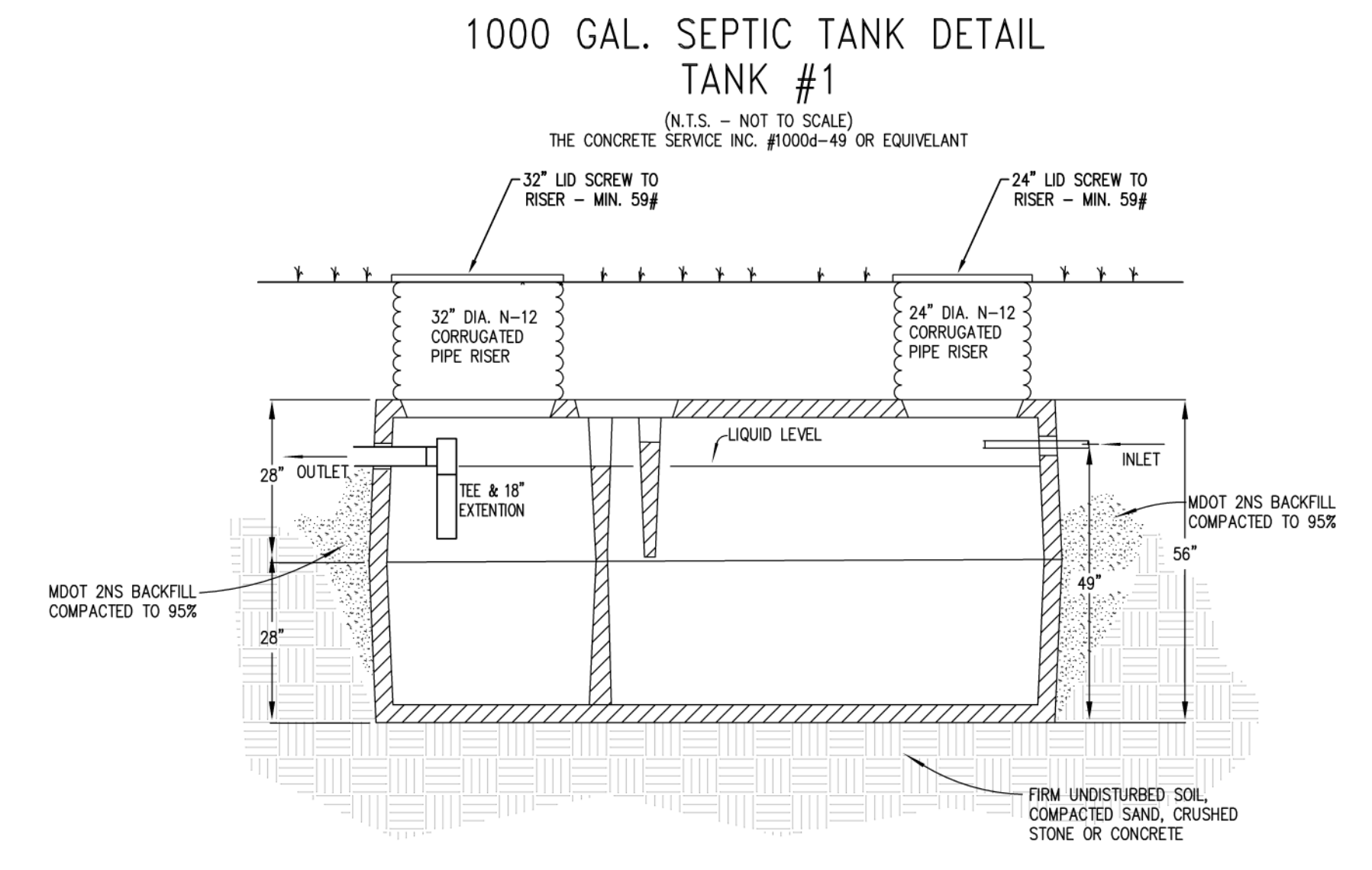
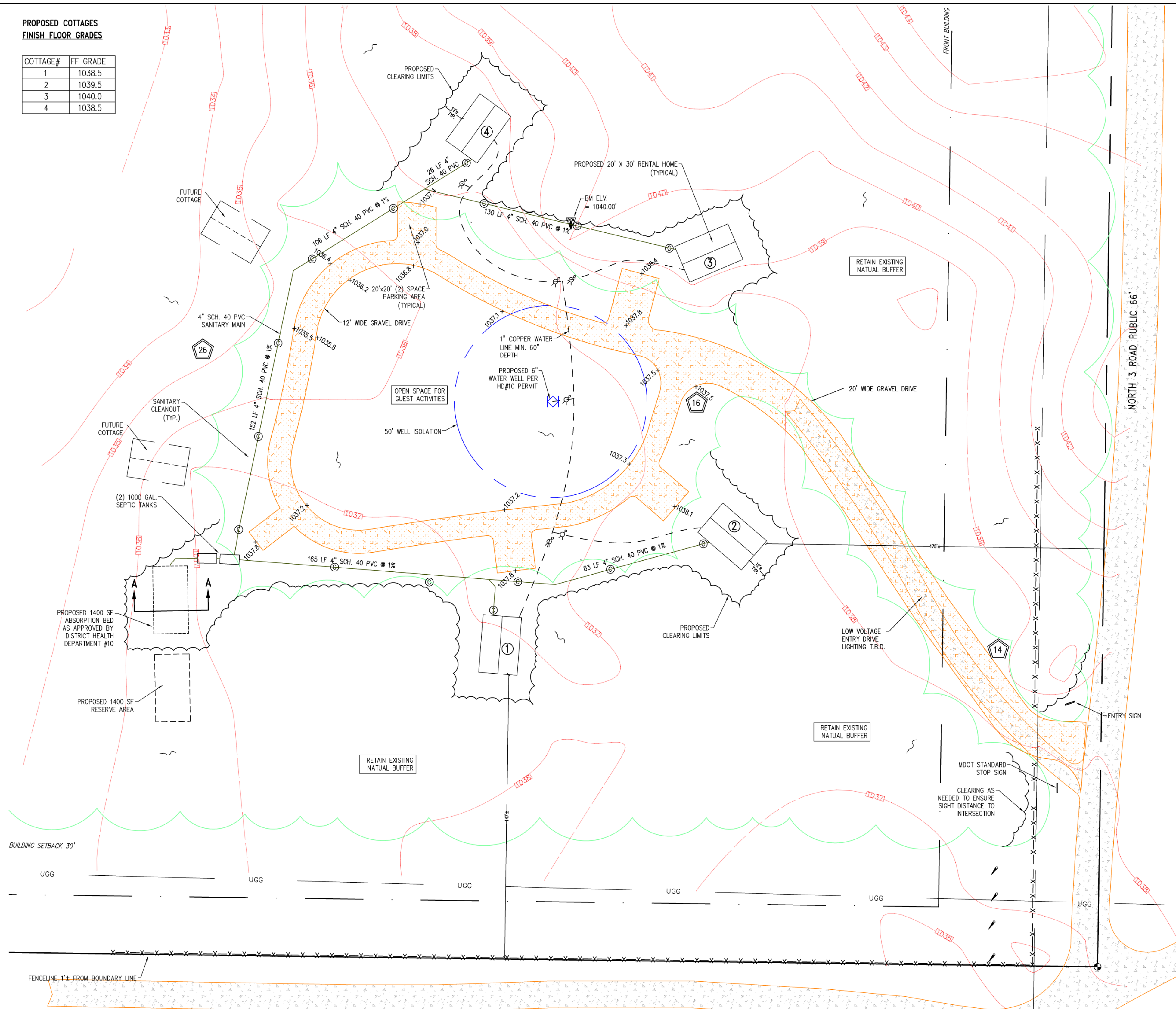




**PROPOSED COTTAGES  
FINISH FLOOR GRADES**

COTTAGE #	FF GRADE
1	1038.5
2	1039.5
3	1040.0
4	1038.5



- LEGEND**
- PARCEL BOUNDARY
  - SECTION LINE
  - ROAD RIGHT OF WAY
  - CONTOURS (1 FT INTERVAL)
  - FENCE LINE
  - UNDERGROUND GAS LINE
  - STORM FLOW DIRECTION
  - SANITARY CLEANOUT
  - WATER VALVE
  - WATER WELL
  - GAS MARKER
  - GRAVEL
  - SPOT ELEVATION
  - BENCH MARK
  - SOIL EROSION MEASURES
  - SEE SHEET 3 FOR LEGEND

**DENSITY SCHEDULE**

PROJECT STATUS	DWELLINGS	LAND AREA	DENSITY
PRE-DEVELOPMENT	1	120 ACRES	.008/ACRE
POST-DEVELOPMENT	7	120 ACRES	.058/ACRE

**DWELLING SCHEDULE**

OWNER RESIDENCE	1 UNIT - EXISTING
RENTAL CABIN	6 UNITS - PROPOSED

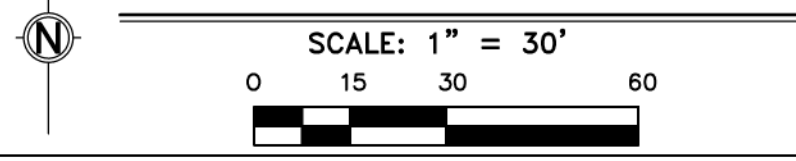
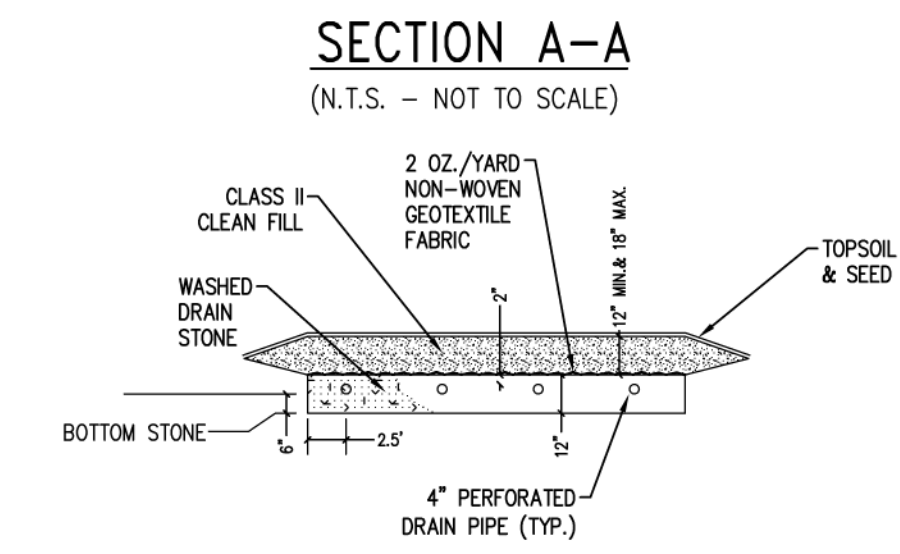
**PROJECT NARRATIVE**  
PROPOSED DEVELOPMENT OF SHORT TERM YEAR-ROUND RENTAL COTTAGES ON OWNER'S PROPERTY AS A SPECIAL USE ACCORDING TO ARTICLE 37, SECTION 03.C.  
PROPOSED COTTAGES SHALL BE 20'x30' SINGLE STORY 1-BEDROOM UNITS.  
ON-SITE WATER SUPPLY AND SANITARY SYSTEM TO BE CONSTRUCTED ACCORDING TO PERMIT ISSUED BY HEALTH DEPARTMENT #10.

**GENERAL NOTES:**  
SITE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR JOB SITE SAFETY. EACH CONTRACTOR SHALL INDEPENDENTLY ENSURE THE SAFETY OF THEIR WORKERS, UTILIZING APPROPRIATE SAFETY EQUIPMENT AND PERFORMING TIMELY TOOL-BOX TALKS AS REQUIRED TO MAINTAIN JOB SITE SAFETY.  
AS NO SOIL BORINGS WERE PERFORMED IN THE CONCEPTION OF THIS SITE PLAN, CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH LOCAL CONDITIONS PRIOR TO BID SUBMISSION.  
THE DRAWINGS, PLANS, MODELS, DESIGNS, SPECIFICATIONS, REPORTS, SURVEY DATA, CALCULATIONS AND OTHER DATA CONTAINED AND PART OF THE SITE/CIVIL PLAN SET ARE THE PROPERTY OF THE ENGINEER. THIS SITE CIVIL PLAN SET IS MADE AVAILABLE FOR YOUR REVIEW FOR INFORMATIONAL PURPOSES ONLY IN RELATION TO THE MEEKS-STEWART SITE DEVELOPMENT. THE SITE/CIVIL PLAN SET MAY NOT BE COPIED, REPRODUCED, OR DISTRIBUTED IN ANY WAY OR FOR ANY PURPOSE WHATSOEVER WITHOUT THE CONSENT OF THE ENGINEER.

CONTRACTOR SHALL NOTIFY MISSDG '811 A MINIMUM OF 3 WORKING DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY AND SHALL FAMILIARIZE THEMSELVES WITH ANY UTILITIES THAT MAY EXIST BUT MAY NOT BE AFFILIATED WITH THE MISSDG SYSTEM. DISRUPTION AND REPAIR COSTS ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO DO SO SHALL BE BORNE SOLELY BY THE CONTRACTOR.  
ALL APPROPRIATE PERMITS AND APPROVALS SHALL BE OBTAINED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.  
UTILITY WORK SHALL BE CONDUCTED AS PERSCRIBED IN THE MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION OR SUBSEQUENT EDITIONS UNLESS OTHERWISE NOTED.  
ALL CONSTRUCTION ACTIVITY WITHIN THE COUNTY ROW SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION MANUAL.

ALL DRIVE ENTRANCE SUBGRADE, PARKING LOT SUBGRADE, BUILDING PADS (IF APPLICABLE), CONCRETE WALKS, UTILITY PIPE BEDDING AND CULVERT BEDDING SHALL MEET MDOT CLASS II OR BETTER AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM UNIT WEIGHT. CLAY OR ORGANIC MATERIAL (AS DETERMINED BY THE ENGINEER) SHALL NOT BE UTILIZED AS SUBGRADE MATERIAL.  
TOPSOIL MAY BE STOCKPILED ON SITE AND UTILIZED FOR SITE AS RESTORATION. EXCESS TOPSOIL SHALL BE BERMED ON SITE AND SEEDED.  
AGGREGATE BASE ON ENTRANCE DRIVES AND PARKING PADS SHALL CONSIST OF AN AVG. 8"-22A AGGREGATE BASE.  
ALL AREAS DISTURBED BY EARTHWORK OR UTILITY CONSTRUCTION (EXCEPTING RETENTION BASINS) SHALL RECEIVE A MINIMUM OF 4" TOPSOIL, SEEDED WITH MDOT ROADSIDE MIXTURE AT A RATE OF 100#/AC, FERTILIZED AT A RATE OF 500#/AC WITH EQUAL PROPORTIONS OF NITROGEN, PHOSPHORUS AND POTASH, AND MULCHED AS SOON AS PRACTICAL FOLLOWING CONSTRUCTION PHASE. IN ALL INSTANCES RESTORATION SHALL OCCUR WITHIN 14 DAYS OF THE CONSTRUCTION SEQUENCE.

ALL AREAS DISTURBED BY EARTHWORK OR UTILITY CONSTRUCTION (EXCEPTING RETENTION BASINS) SHALL RECEIVE A MINIMUM OF 4" TOPSOIL, SEEDED WITH MDOT ROADSIDE MIXTURE AT A RATE OF 100#/AC, FERTILIZED AT A RATE OF 500#/AC WITH EQUAL PROPORTIONS OF NITROGEN, PHOSPHORUS AND POTASH, AND MULCHED AS SOON AS PRACTICAL FOLLOWING CONSTRUCTION PHASE. IN ALL INSTANCES RESTORATION SHALL OCCUR WITHIN 14 DAYS OF THE CONSTRUCTION SEQUENCE.  
**SANITARY SYSTEM - BASIS OF DESIGN**  
PRELIMINARY SOIL INVESTIGATION BY: NME  
SOIL STRUCTURE: MEDIUM SAND, NO GROUND WATER ENCOUNTERED TO 84" DEPTH.  
PROPOSED USE: (6) 1-BEDROOM COTTAGE RENTALS  
PER MICHIGAN CRITERIA FOR SUBSURFACE DISPOSAL:  
(6) BEDROOMS x 150 GPD = 900 GPD  
PER DISTRICT HEALTH DEPARTMENT #10 SANITARY CODE:  
ASSUME FINE SAND, REQUIRES 225 SF PER BEDROOM  
(6) x 225 = 1350 SF ABSORPTION BED  
PROPOSED:  
(2) 1000 GAL DUAL CHAMBER SEPTIC TANKS  
1400 SF ABSORPTION BED  
\* SUBJECT TO HEALTH DEPARTMENT REVIEW AND MODIFICATION. CONTRACTOR SHALL OBTAIN A COPY OF THE SEPTIC PERMIT PRIOR TO CONSTRUCTION.



BY: \_\_\_\_\_ DATE: \_\_\_\_\_

REVISIONS:

NO.	DESCRIPTION	DATE

DRAWN BY: \_\_\_\_\_ CHECKED: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: 8/9/21 PRINT DATE: 8/10/21

SCOTT DANIEL McLANE, P.E.  
M.I. LICENSE #00007817

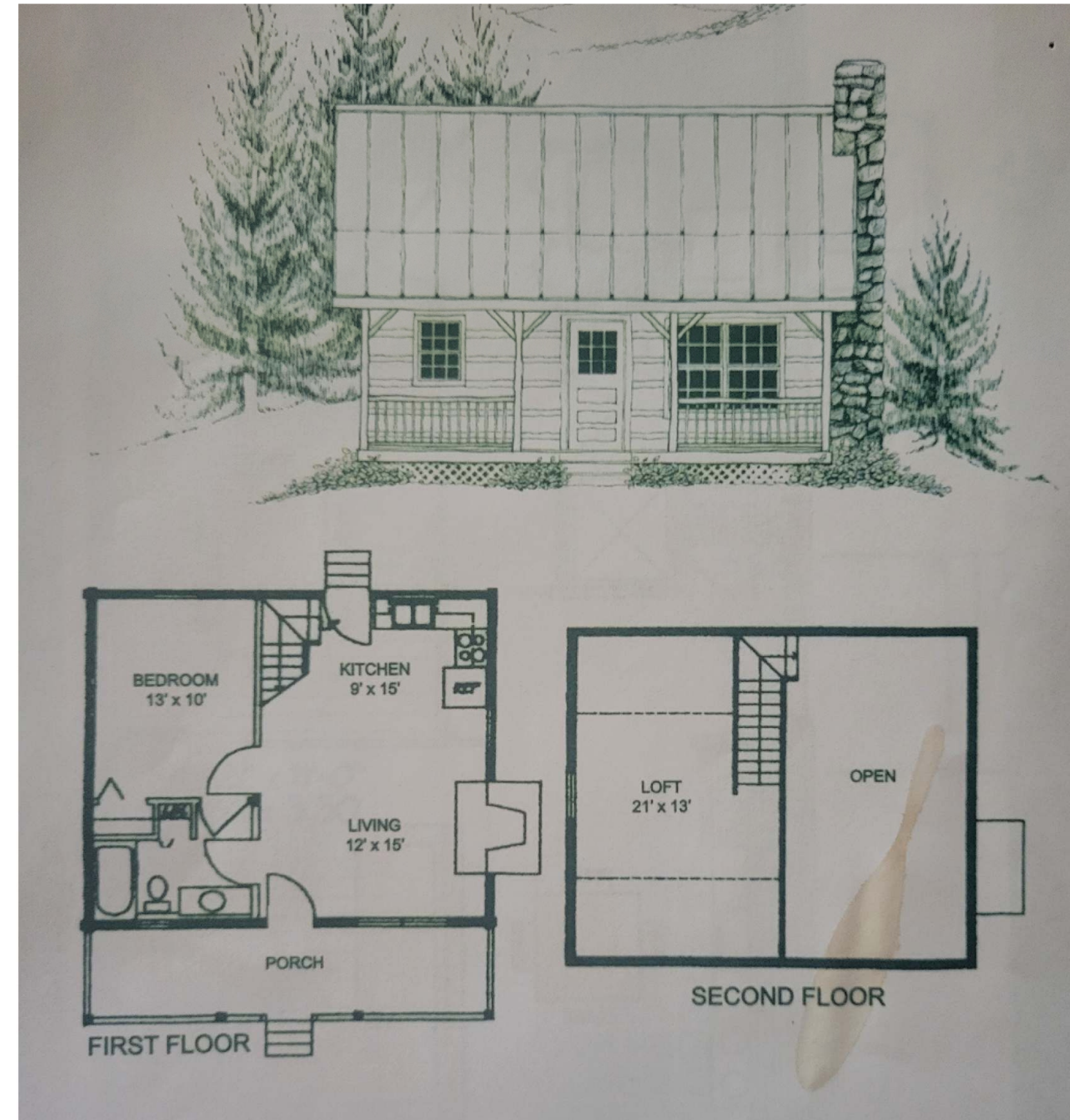
NORTHERN MICHIGAN ENGINEERING INC.  
114 N. COURT AVE.  
SUITE 203  
GAYLORD, MI 49735  
(889) 317-3177

PROJECT: KIANNA MEEK & KEVIN STEWART  
PRELIMINARY SITE PLAN  
JOB# 21-113 SHEET SP.2  
9651 NORTH 3 ROAD COPEMISH, MI 49625

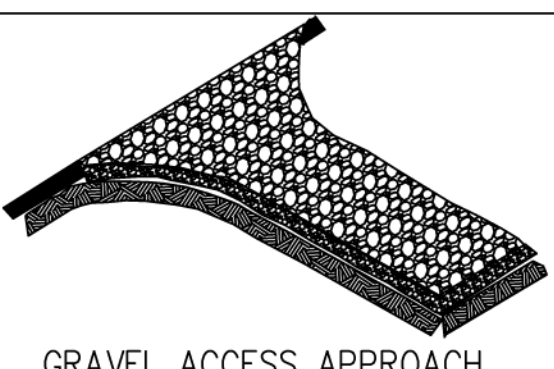

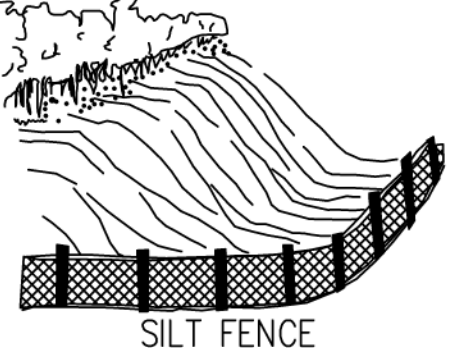
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PRELIMINARY 48" X 72" ENTRANCE SIGN DETAIL



CONCEPTUAL COTTAGE DESIGN  
20' X 30' X 22'H  
1-BEDROOM & 1-BATH

<ul style="list-style-type: none"> <li>APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES (COMPREHENSIVE DETAILS ARE LOCATED IN SECTION 6 OF THE SOIL EROSION &amp; SEDIMENTATION CONTROL MANUAL)</li> </ul>		MICHIGAN D.O.T. SOIL EROSION & SEDIMENTATION CONTROL MEASURES DOCUMENT: R-96-E EDITION 2010							
KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G
14	 GRAVEL ACCESS APPROACH	PROVIDES A STABLE ACCESS TO ROADWAYS MINIMIZING FUGITIVE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS.	•				•	•	
16	 TREES, SHRUBS AND PERENNIALS	TREES, SHRUBS AND PERENNIALS CAN PROVIDE LOW MAINTENANCE LONG TERM EROSION PROTECTION. THESE PLANTS MAY BE PARTICULARLY USEFUL WHERE SITE AESTHETICS ARE IMPORTANT ALONG THE ROADSIDE SLOPES.	•				•		
26	 SILT FENCE	A PERMEABLE BARRIER ERECTED BELOW DISTURBED AREAS TO CAPTURE SEDIMENTS FROM SHEET FLOW. CAN BE USED TO DIVERT SMALL VOLUMES OF WATER TO STABLE OUTLETS. INEFFECTIVE AS A FILTER AND SHOULD NEVER BE PLACED ACROSS STREAMS OR DITCHES WHERE FLOW IS CONCENTRATED.	•				•	•	

FOR REGULATORY REVIEW PURPOSES ONLY - NOT FOR CONSTRUCTION

PROJECT KIANNA MEEK & KEVIN STEWART SIGN & TYPICAL CABIN RENDERING 9651 NORTH 3 ROAD COPEMISH, MI 49625	DRAWN BY CHECKED APPROVED BY DATE 8/9/21 PRINT DATE 8/10/21	REVISIONS	BY DATE
	SCOTT DANIEL McLANE, P.E. MI LICENSE #001002817		
	NORTHERN MICHIGAN ENGINEERING INC. 354 E. EDWIN STREET SUITE 203 GAYLORD, MI 49735 (888) 217-5177		
			

JOB# 21-113  
SHEET  
**SP.3**