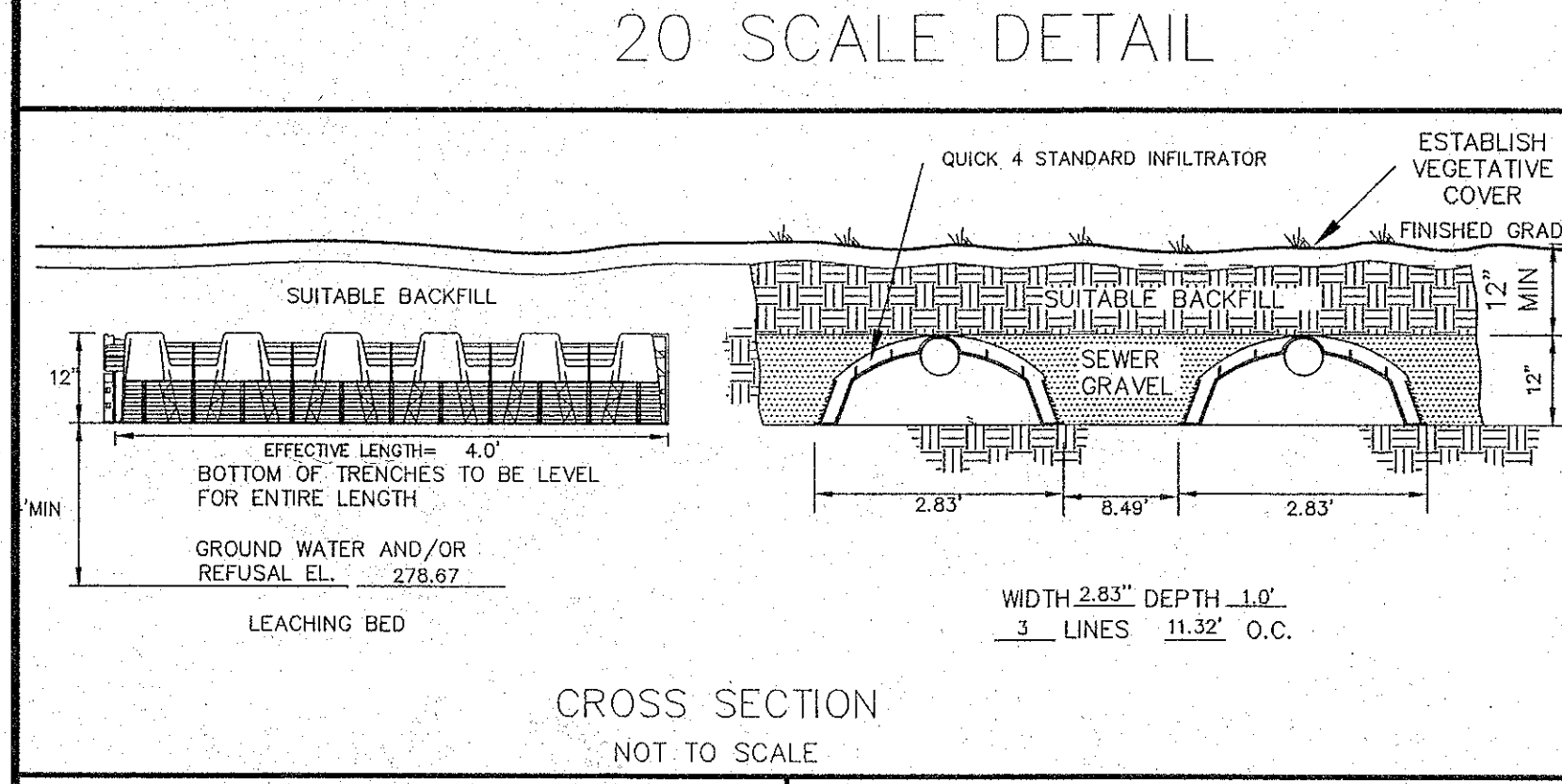
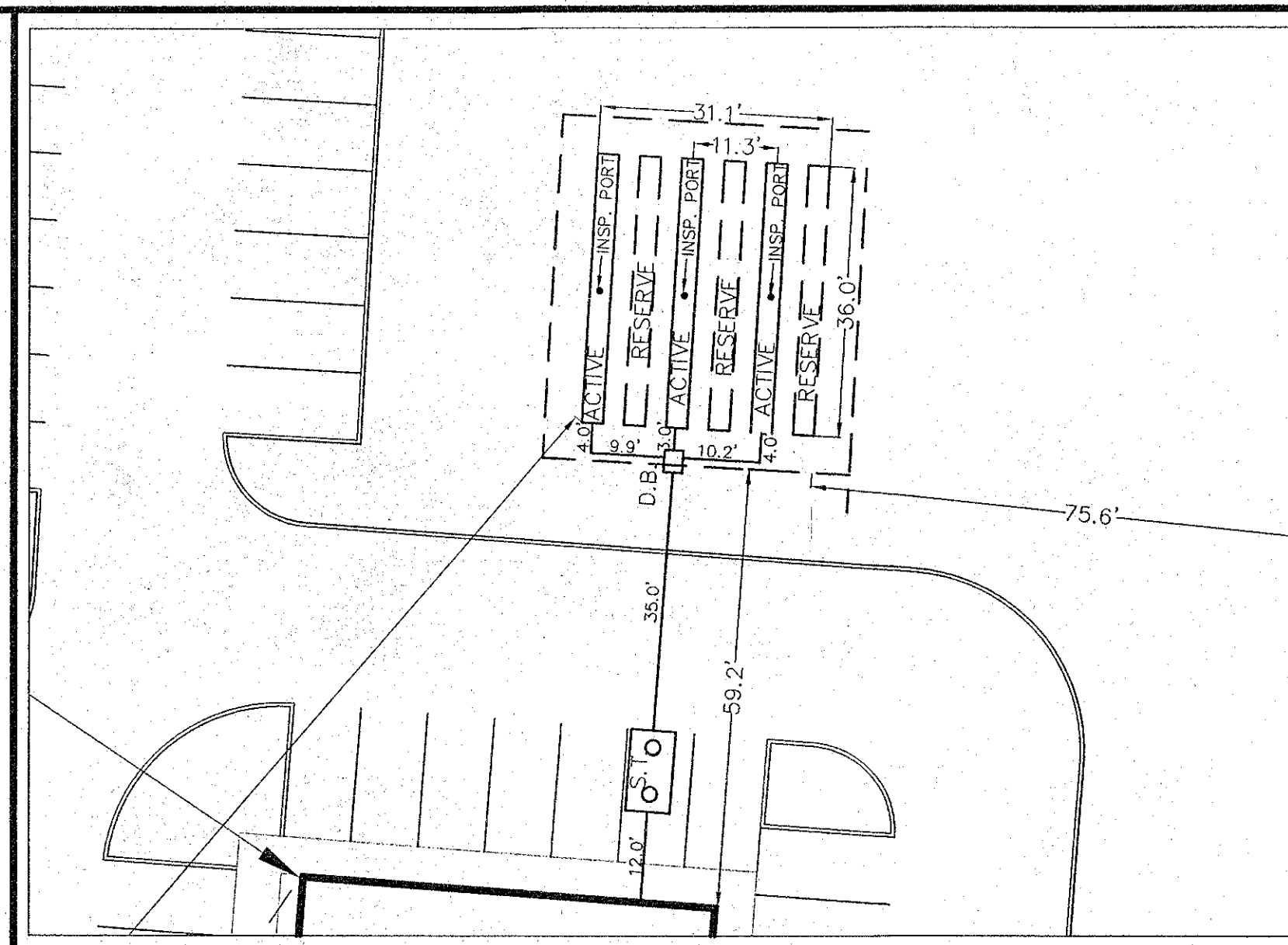
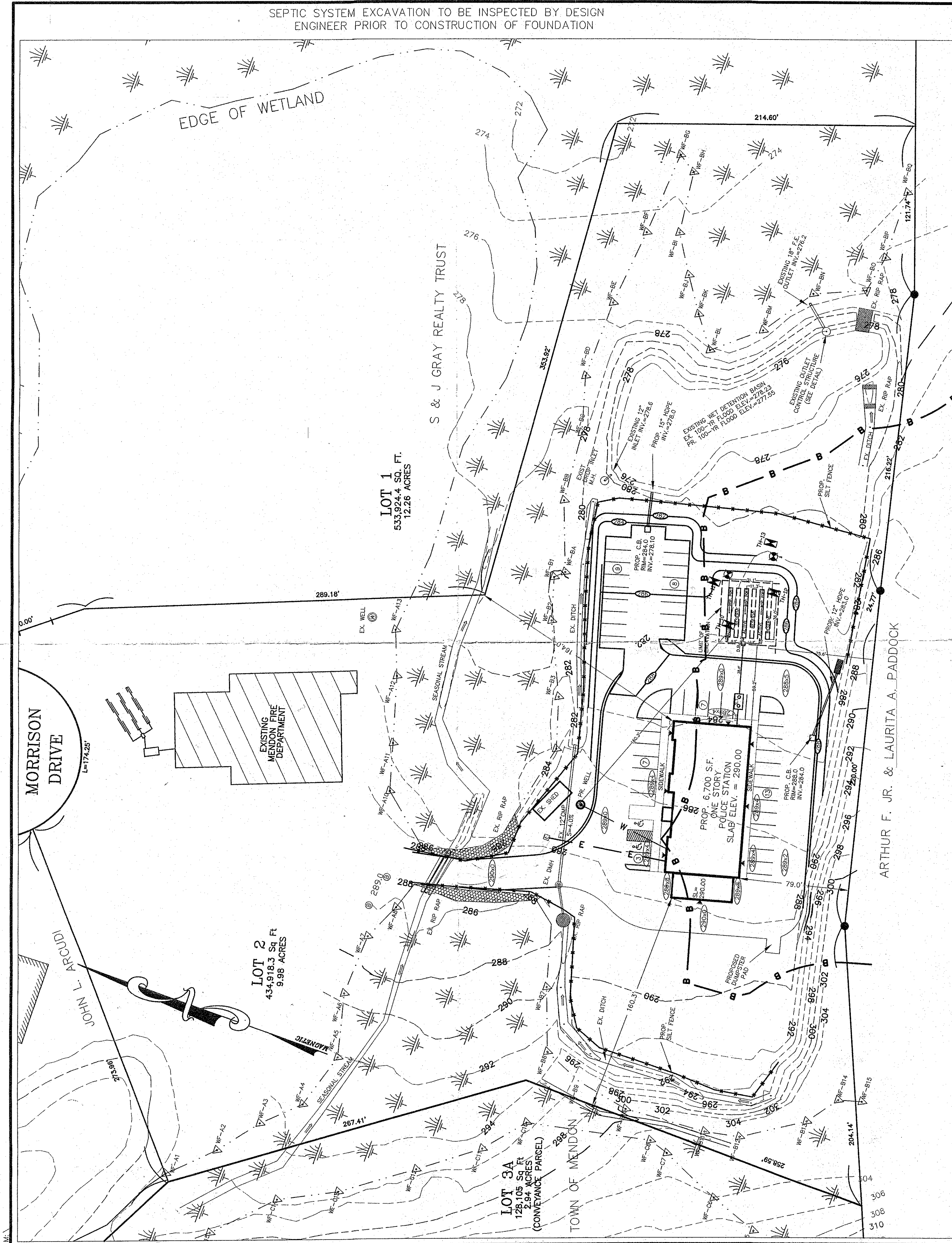




DESIGN ELEVATIONS	
TOP OF FOUNDATION	290.0
SLAB-ELEVATION	290.0
INV. AT FOUNDATION	286.00
INV. AT SEPTIC TANK INLET	285.75
INV. AT SEPTIC TANK OUTLET	285.50
INV. AT DIST. BOX INLET	284.70
INV. AT DIST. BOX OUTLET	284.53
TOP OF INFILTRATOR	284.67
INVERT @ BEGINNING	284.34
BOTTOM OF INFILTRATOR	283.67
ELEV. OF GROUND WATER	278.67
ELEV. OF REFUSAL	N/A
AVERAGE ELEV. OVER SYSTEM	286.00

* SEE STEPPED TRENCH INFO.

KEY	
SEPTIC TANK	ST
DISTRIBUTION BOX	DB
PUMP CHAMBER	PC
ABSORPTION TRENCH	T#
EXISTING CONTOURS	100.0
PROPOSED CONTOURS	(100x0)
EXISTING ELEVATIONS	
PROPOSED ELEVATIONS	
EDGE OF WETLANDS	
BENCHMARK	B.M.
PUBLIC WATER	W
GAS SERVICE	G
PERC TEST HOLE	+
DEEP SOIL OBSERVATION HOLE	+
PRIVATE WATER SUPPLY	(W)
TOP OF CONCRETE	TC

- CONSTRUCTION NOTES:**

 - SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE INSTALLED LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ON TO WHICH 6" OF CRUSHED STONE HAS BEEN PLACED. IN FILL PROPER COMPACTION IS REQUIRED TO ENSURE STABILITY AND TO PREVENT SETTLING.
 - FILL SHALL BE PLACED IN NOT GREATER THAN 12" INCREMENTS AND COMPACTED BY DOZER TO THE SATISFACTION OF THE ENGINEER.
 - LIMIT OF EXCAVATION TO BE EXTENDED 5 FEET IN ALL DIRECTIONS LATERALLY TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL.
 - THE ENTIRE EXCAVATION SHALL BE FILLED WITH MATERIAL TO 1" ABOVE THE INVERTS OF THE RESPECTIVE TRENCHES.
 - ALL EXTRA KNOCKOUTS IN SEPTIC TANK AND DISTRIBUTION BOX ARE TO BE SEALED WITH HYDRAULIC CEMENT.
 - MAXIMUM COVER OVER ANY COMPONENT OF THE SEPTIC SYSTEM SHALL NOT EXCEED 36".
 - MINIMUM COVER OVER ANY COMPONENT OF THE SEPTIC SYSTEM TO BE 9" PRIOR TO PLACEMENT OF 3" MIN. TOPSOIL.
 - BENCHMARK TO BE SET WITHIN 75' OF PROPOSED SYSTEM PRIOR TO CONSTRUCTION.
- DESIGN NOTES:**

 - ALL TOPSOIL, SUBSOIL AND OTHER IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO PERVIOUS MATERIALS.
 - THE INSTALLATION OF PROPOSED SYSTEM SHALL BE DONE IN CONFORMANCE WITH LOCAL AND STATE BOARD OF HEALTH REGULATIONS.
 - NO PORTION OF THIS SYSTEM SHALL BE ALTERED WITHOUT APPROVAL FROM THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
 - FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL, CONSISTING OF CLEAN GRANULAR SAND FREE FROM ORGANIC MATTER AND DELETERIOUS SOIL SUBSTANCES, MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. A SIEVE ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH 310 CMR 15.255(3).
 - IT IS RECOMMENDED THAT SEPTIC TANKS BE INSPECTED FOR CLEANING ONCE A YEAR.
 - THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL.
 - THIS PLAN REFERS TO ASSESSORS ATLAS SHEET 17 BLOCK N/A.
 - ELEVATIONS REFERS TO 1929 NGVD DATUM.
 - OFFSETS NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
 - ALL INSPECTIONS NECESSARY FOR THE CERTIFICATION OF THE SEPTIC SYSTEM TO BE 9" PRIOR TO PLACEMENT OF AN AS-BUILT PLAN ARE TO BE PERFORMED BY THE DESIGN ENGINEER.

NOTE: CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

MINIMUM ZONING REQUIREMENTS

ZONING DISTRICT	BUSINESS
AREA	60,000 S.F.
FRONT YARD SETBACK	85 FROM CL
SIDE YARD SETBACK	20 FT
REAR YARD SETBACK	30 FT

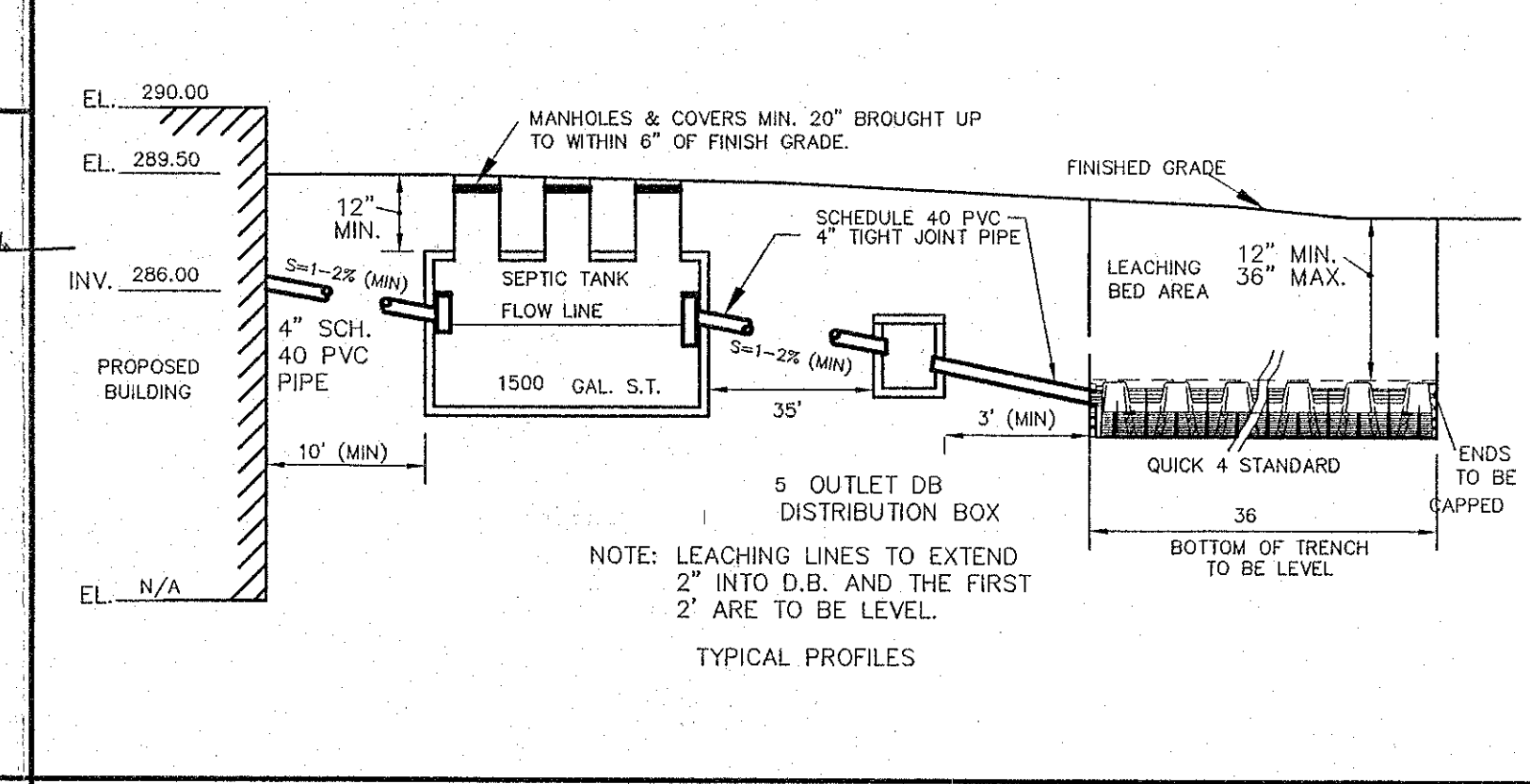
1500 GALLON PRE-CAST CONCRETE SEPTIC TANK WITH H-20 LOADING

(SEE CONSTRUCTION NOTE 1)

1. INLET & OUTLET TEES SHALL EXTEND TO CLEANOUT MANHOLES & SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC OR CAST IN PLACE CONCRETE & PROPERLY SUPPORTED. BAFFLES ARE UNACCEPTABLE.

2. BOUYANCY CALCULATIONS REQUIRED FOR SEPTIC TANKS INSTALLED IN GROUNDWATER.

LIQUID DEPTH	4 FT. 1 INCH
DEPTH OF OUTLET TEE BELOW FLOW LINE	20 INCHES
5 FEET	19 INCHES
7 FEET	24 INCHES
29 INCHES	29 INCHES
34 INCHES	34 INCHES



DEEP TESTS TAKEN 10/9/09 BY SHEAPER. TESTS TAKEN 10/9/09 BY SHEA ENG.	
WITNESSEDLenny IZZO	WITNESSEDLenny IZZO
SOIL EVALUATOR STEVEN DONATELLI	SOIL EVALUATOR STEVEN DONATELLI
281.9 DH# 10	281.0 DH# 11
281.4 sandy loam 10yr 2/2	280.67 sandy loam 10yr 2/2
279.9 sandy loam 10yr 4/6	279.5 sandy loam 10yr 4/6
277.4 medium sand 10yr 7/4	278.67 medium sand 10yr 7/4
276.23 loamy sand 5y 5/2	276.17 loamy sand 5y 5/2
273.4	272.0

PERC. N/A MIN./INCH

PERC. <2 MIN./INCH

FLOW INFORMATION	
TYPE OF BUILDING	MUNICIPAL
EMPLOYEES	10
DISPOSAL	N/A
BEDROOMS	N/A
PERSONS	5
OTHER	N/A
DAILY FLOW	15 X 20 GPD=300 GPD
USE 3 ROWS @ 9 INFILTRATORS	
1500 GAL S.T.	
5 OUTLET D.B.	

LEACHING FACILITY DESIGN CRITERIA	
TITLE V	
PERC. DESIGN RATE	<2 MIN./INCH
E.L.R.=PERC. RATE FACTOR=.74	gpd/sf
QUICK 4 STANDARD TRENCH CONFIGURATION	
EFFECTIVE LEACHING AREA=	6.96 sf/ft
CHAMBER LENGTH = 4.0 ft	
REQUIRED	
FLOW = x 110 = 300 gpd	
AREA = 300 / .74 = 406 s.f.	
EQ. # = 406 / 6.96 = 59 feet	
UNITS = 59 / 4.0 = 15 chambers	
PROVIDED	
UNITS = 3 x 9 = 27 chambers	
EQ. # = 27 x 4.0 = 108 feet	
AREA = 108 x 6.96 = 750 s.f.	
FLOW = 750 x .74 = 555gpd	

SITE DEVELOPMENT & FACILITIES PLAN

IN

MENDON, MA

SCALE: 40 FEET TO AN INCH

DATE: OCTOBER 15, 2010

REV. DATE DESCRIPTION

FRIENDS OF MENDON POLICE STATION, INC.

OWNER/APPLICANT c/o JOSEPH REED

ADDRESS 25 MISCOE ROAD, MENDON, MA 01756

Guerriere & Halnon, Inc.

333 WEST STREET, MILFORD, MASS. 01757

(508) 473-6630 FAX: (508) 473-8243

Signature: P.E. DATE