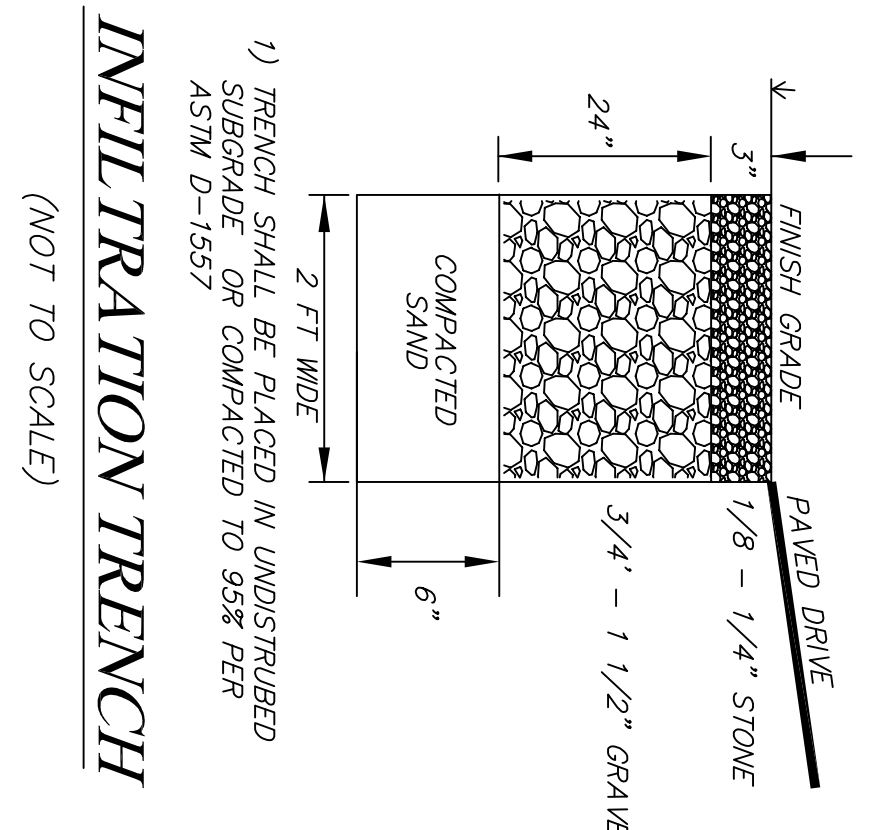
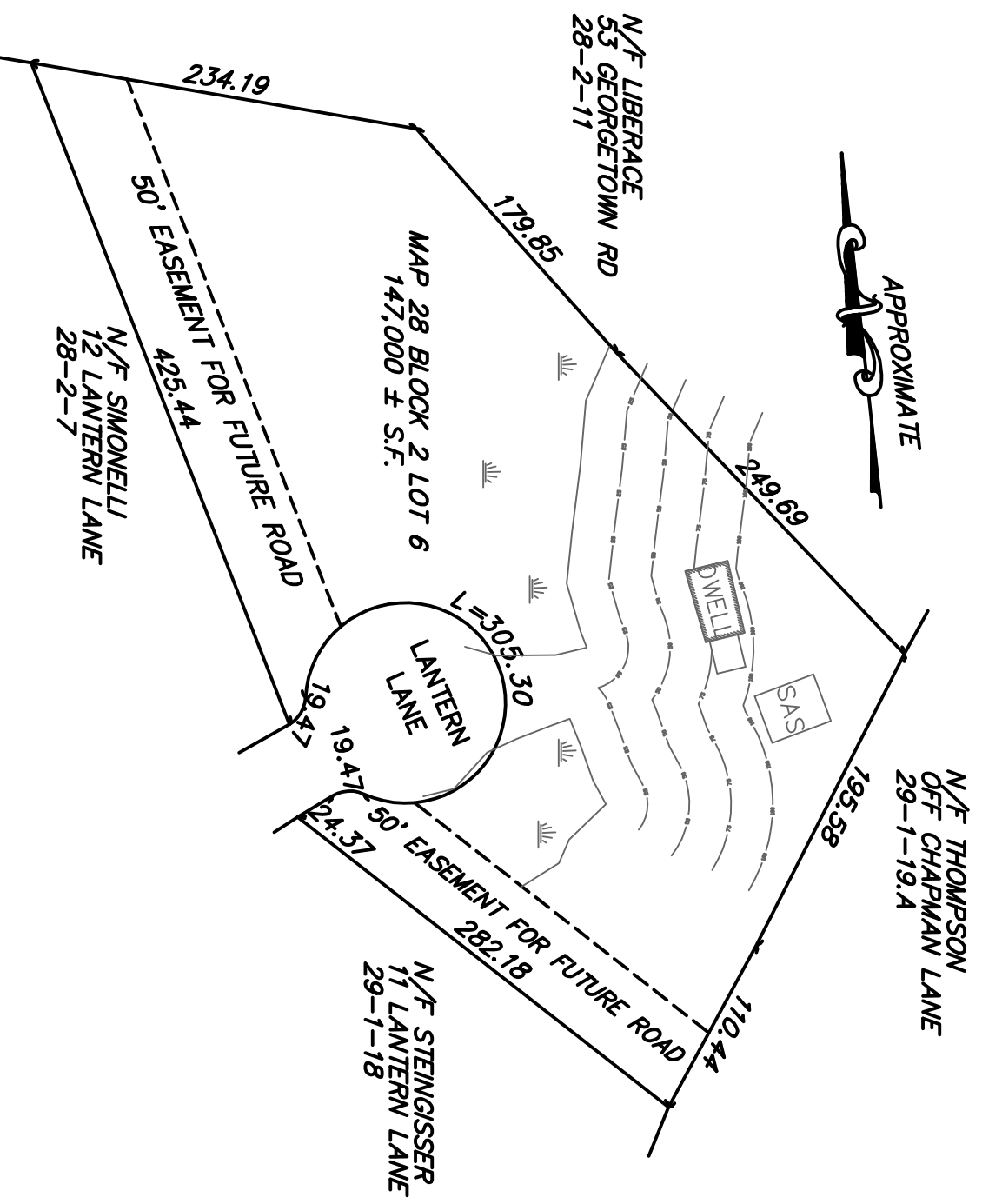


**SITE PLAN:**  
SCALE 1"=20'



**INFILTRATION TRENCH**  
(NOT TO SCALE)



**LOCUS PLAN:**  
SCALE 1"=100'

| BENCHMARKS: ASSUMED DATUM | ELEV.  |
|---------------------------|--------|
| #1 FRONT DOOR THRESHOLD   | 115.13 |
| #2                        |        |
| #3                        |        |

**SOILS INFORMATION:**

SOIL EVALUATOR: JAMES SCANLAN, P.E.  
(SE#2159 - APRIL 1995)  
TOWN WITNESS: KENDALL LONGO  
DATE: OCTOBER 20, 2014

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MASSACHUSETTS. ABOVE ANALYSIS HAS BEEN PERFORMED BY ME OR UNDER MY SUPERVISION. THE REQUIRED TRAINING EXPERIENCE AND EXPERIENCE DESCRIBED IN 310CMR 017.1 FURTHER CERTIFY THAT THE ANALYSIS IS ACCURATE AND IN ACCORDANCE WITH 310CMR 15.00 THROUGH 15.10.

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**LEGEND:**

- EXISTING**
- 100 CONTOURS
  - 100X10 SPOT SHOTS
  - APPROX. PROPERTY LINES
  - WATER SERVICE LINE
  - APPROX. GAS LINE
  - STONE WALL
  - LIMIT BORDERING VEGETATED WETLAND
  - LIMIT OF 100-FOOT BUFFER ZONE
  - LIMIT OF 75-FOOT NO-BUILD ZONE
  - LIMIT OF 25-FOOT NO-DISTURB ZONE
  - SILTATION BARRIER
  - TEST PIT & NO. PERC TEST
  - PERC TEST
  - BUILDING
  - EDGE OF GRAVEL
  - EDGE OF PAVEMENT
  - FORCE MAIN
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - DIRECTION OF SURFACE FLOW TO BE ABANDONED TO BE REMOVED
- PROPOSED**
- 100 CONTOURS
  - 100 SPOT SHOTS
  - APPROX. PROPERTY LINES
  - WATER SERVICE LINE
  - APPROX. GAS LINE
  - STONE WALL
  - LIMIT BORDERING VEGETATED WETLAND
  - LIMIT OF 100-FOOT BUFFER ZONE
  - LIMIT OF 75-FOOT NO-BUILD ZONE
  - LIMIT OF 25-FOOT NO-DISTURB ZONE
  - SILTATION BARRIER
  - TEST PIT & NO. PERC TEST
  - BUILDING
  - EDGE OF GRAVEL
  - EDGE OF PAVEMENT
  - FORCE MAIN
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - DIRECTION OF SURFACE FLOW TO BE ABANDONED TO BE REMOVED

**SOIL PERCOLATION RATE:**  
P-1: DEPTH TO 12" = 48" SOIL PERC RATE = <2 MIN/IN  
P-2: DEPTH TO 12" = 38" SOIL PERC RATE = 5 MIN/IN

**SOIL ELEVATIONS:**

| TEST PIT   | T-1   | T-2   | T-3   | T-4   |
|------------|-------|-------|-------|-------|
| GRADE      | 112.2 | 111.2 | 113.0 | 112.3 |
| E.S.H.G.W. | NONE  | NONE  | NONE  | NONE  |
| OBS. G.W.  | NONE  | NONE  | NONE  | NONE  |
| BOTTOM PIT | 107.2 | 103.2 | 105.0 | 105.0 |

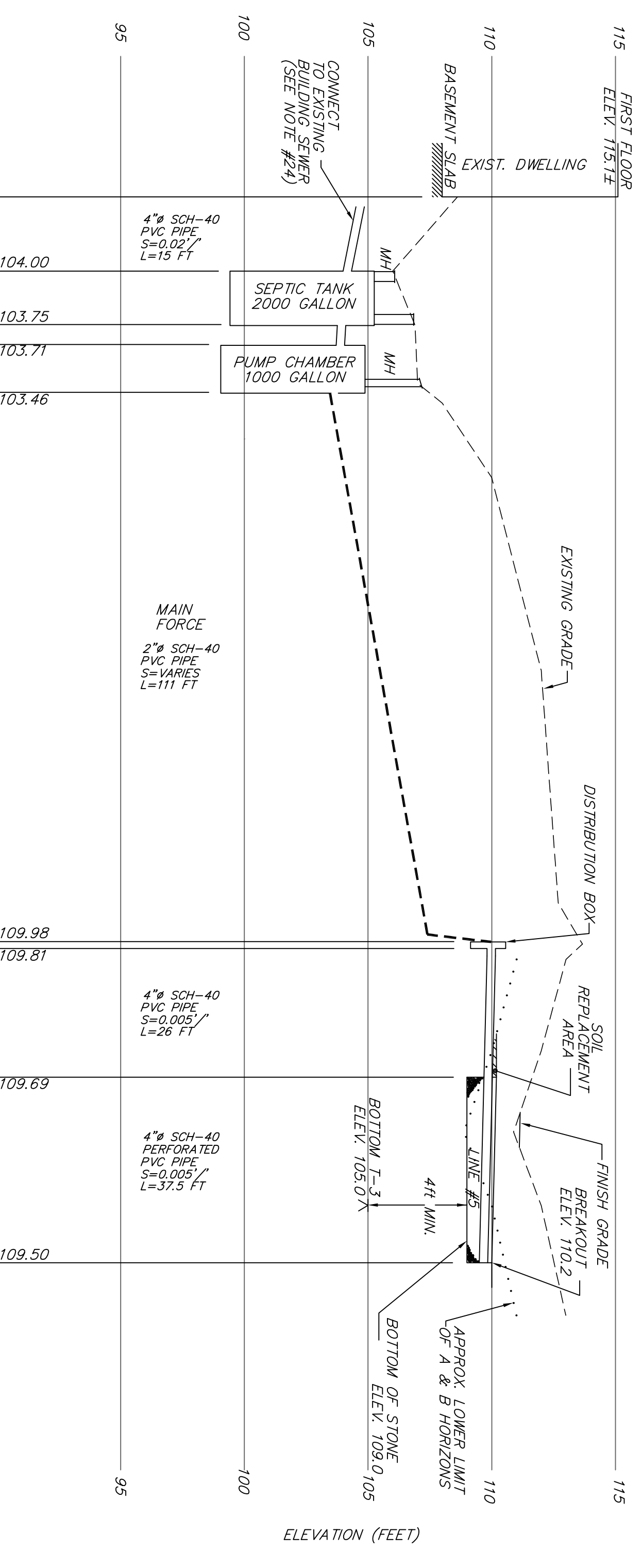
**SOIL PROFILES:**

- T-1: 0-12" A FINE SANDY LOAM 10YR3/2 MASSIVE FRIABLE  
12-24" B FINE SANDY LOAM 10YR4/6 MASSIVE FRIABLE  
24-60" C VERY GRAVELLY LOAMY SAND 2.5Y3/4 SINGLE GRAIN FRIABLE  
NO ESHGW
- T-2: 0-6" A FINE SANDY LOAM 10YR3/2 MASSIVE FRIABLE  
6-24" B FINE SANDY LOAM 10YR4/6 MASSIVE FRIABLE  
24-60" C LOAMY FINE SAND 2.5Y3/4 MASSIVE FRIABLE  
TOUGH DIGGING @ 6" (NOT REFUSAL)
- T-3: 0-9" A FINE SANDY LOAM 10YR3/2 MASSIVE FRIABLE  
9-18" B FINE SANDY LOAM 10YR4/6 MASSIVE FRIABLE  
18-48" C1 LOAMY FINE SAND 2.5Y3/4 MASSIVE FRIABLE  
48-96" C2 GRAVELLY LOAMY FINE SAND 2.5Y3/4 COBBLE AND BOULDERS REFUSAL @ 96"  
NO ESHGW
- T-4: 0-8" A FINE SANDY LOAM 10YR3/2 MASSIVE FRIABLE  
8-16" B FINE SANDY LOAM 10YR4/6 MASSIVE FRIABLE  
16-88" C1 VERY GRAVELLY LOAMY SAND 2.5Y3/4 SINGLE GRAIN FRIABLE  
NO ESHGW  
WITH COBBLE AND BOULDERS  
TOUGH DIGGING @ 8" (NOT REFUSAL)

**DESIGN CRITERIA:**

**FACILITY TYPE:** SINGLE FAMILY DWELLING  
**SIZE:** 5 BEDROOMS  
**UNIT FLOW RATE:** 110 GAL/BED/DAY  
**DAILY FLOW:** 550 GAL/DAY  
**GARBAGE GRINDER:** YES  
**(IF YES SYSTEM DESIGN = 150% DAILY FLOW)**  
**SYSTEM DESIGN:** 825 GAL/DAY

**SOILS CLASS:** CLASS 1  
**LONG TERM ACCEPTANCE RATE:** 0.74 GAL/SF/DAY  
**REQUIRED LEACH AREA:** 1,115 SF  
**(3 TANKS)**  
**PROPOSED LEACH AREA:** 1,125 SF  
**(LEACH AREA: 30' X 37.5' = 1,125 SF)**



**FLOW PROFILE:**  
SCALE 1"=20' HORIZONTAL  
1"=4' VERTICAL



**SITE PLAN TO ACCOMPANY A NOTICE OF INTENT**

15 LANTERN LANE  
BOXFORD, MA

**REGISTRY INFORMATION:**

DEED: BOOK NO.: 38101  
PAGE NO.: 533

**ASSESSORS INFORMATION:**

MAP: 28  
BLOCK: 02  
LOT: 06

**PREPARED FOR:**

HOLLY BALDASSARE  
3 WILDWOOD ROAD  
DANVERS, MA



PHONE: (978) 372-3440  
FAX: (978) 891-3888  
EMAIL: info@scanlanengineering.com  
WEB: www.scanlanengineering.com

| # | BY  | DATE    | REVISIONS TO PLANS                          |
|---|-----|---------|---|
| 1 | JBS | 4/30/20 | SITE WALK REVISIONS                         |
| 2 | JBS | 7/20/20 | 100' DRAINWAY WALLS & INFILTRATION TRENCHES |

**PLAN & FLOW PROFILE**

SHEET 1 OF 2 SCALE: 1"=20'  
PROJECT # 1005