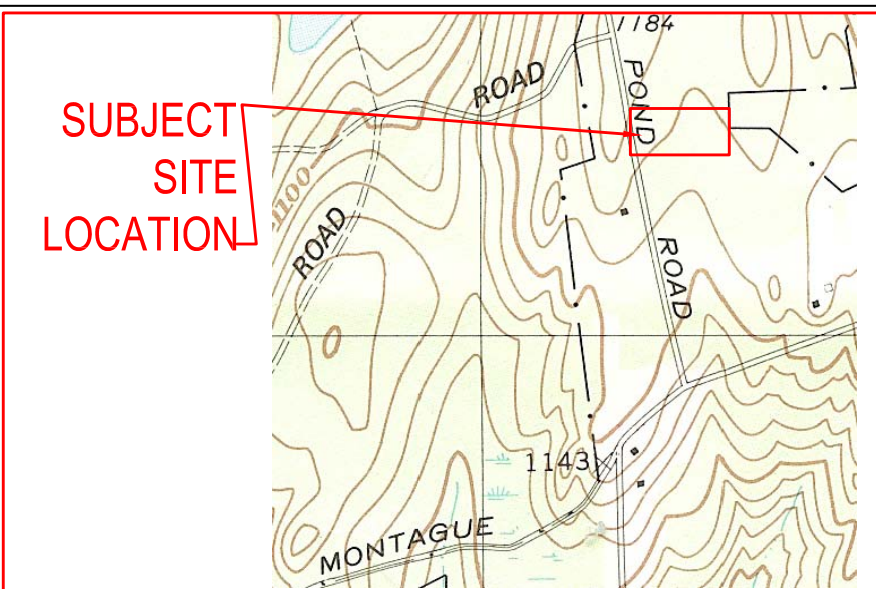
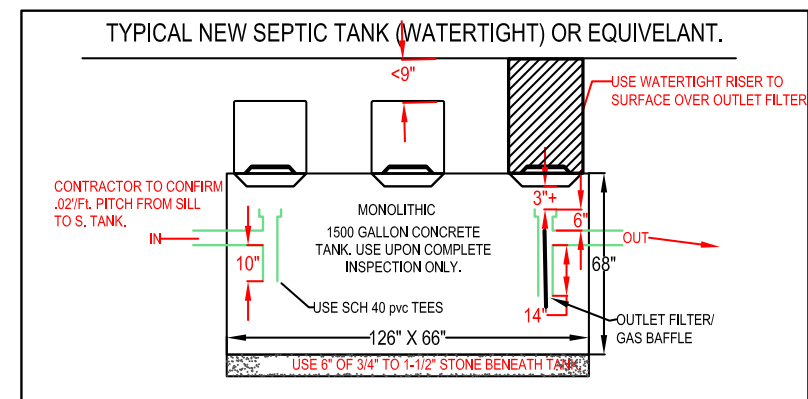
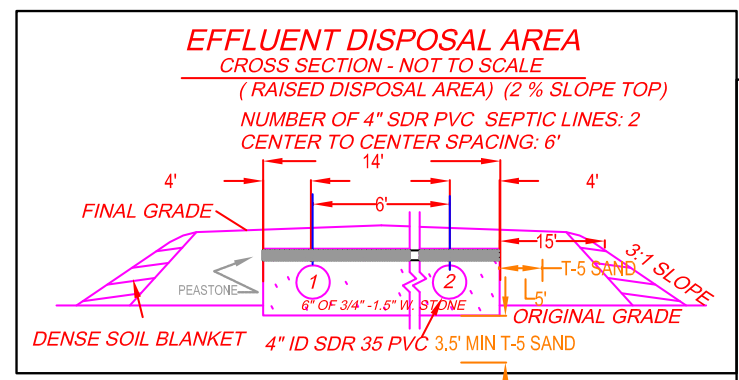
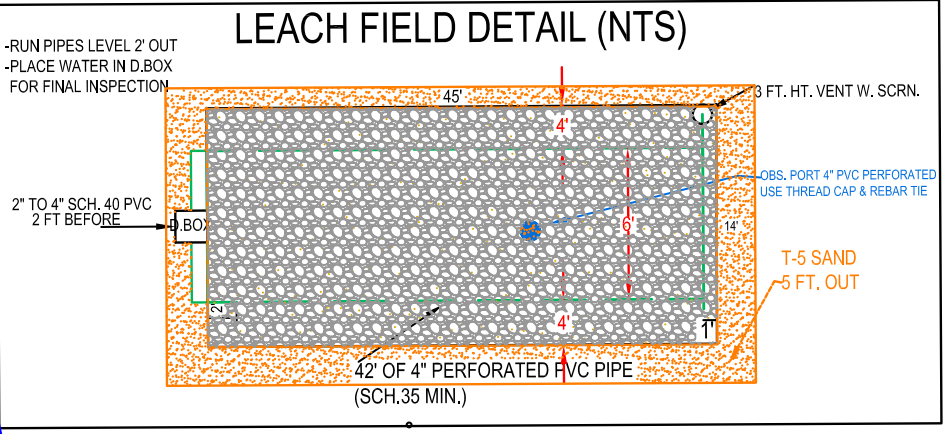


**NOTE TO HOMEOWNER:** MOUNDS, WHERE USED, ARE REQUIRED BY STATE CODE TO MAXIMIZE THE DISTANCE FROM THE BOTTOM OF THE LEACHING FIELD TO THE TOP OF THE ESTIMATED HIGH GROUNDWATER. THIS "SEPARATION" FROM HIGH GROUNDWATER (3, 4, OR 5 FEET), IS NOT THE SAME AS THE HEIGHT OF THE FINISHED MOUND SURFACE. THE ACTUAL FINISHED MOUND IS TYPICALLY HIGHER THAN THE "SEPARATION". BY SIGNING PERMIT YOU ACKNOWLEDGE THAT COLD SPRING ENVIRONMENTAL CONSULTANTS INC. IS NOT RESPONSIBLE FOR THE AESTHETICS OF FILLED OR MOUNDED SYSTEMS.

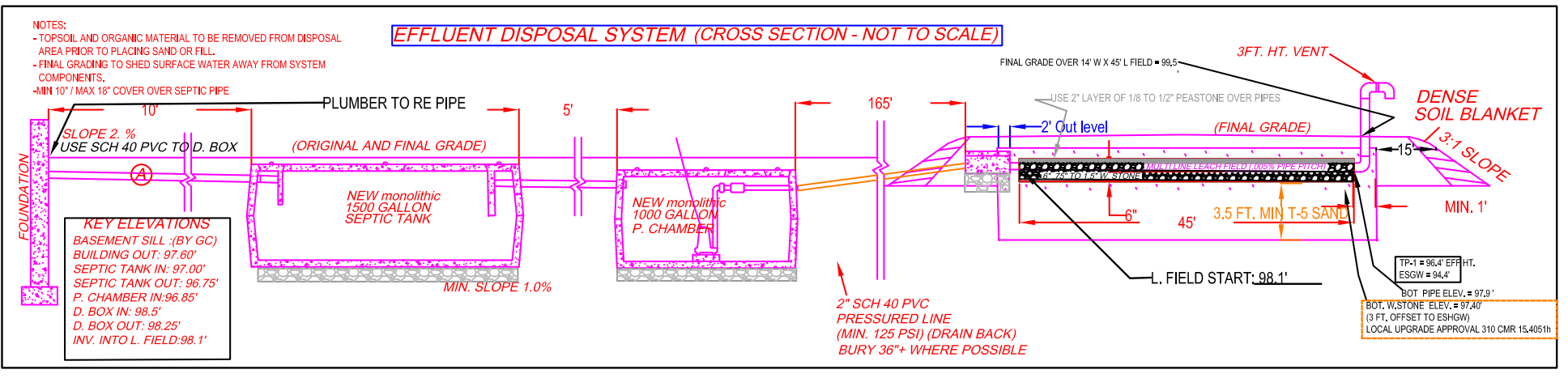
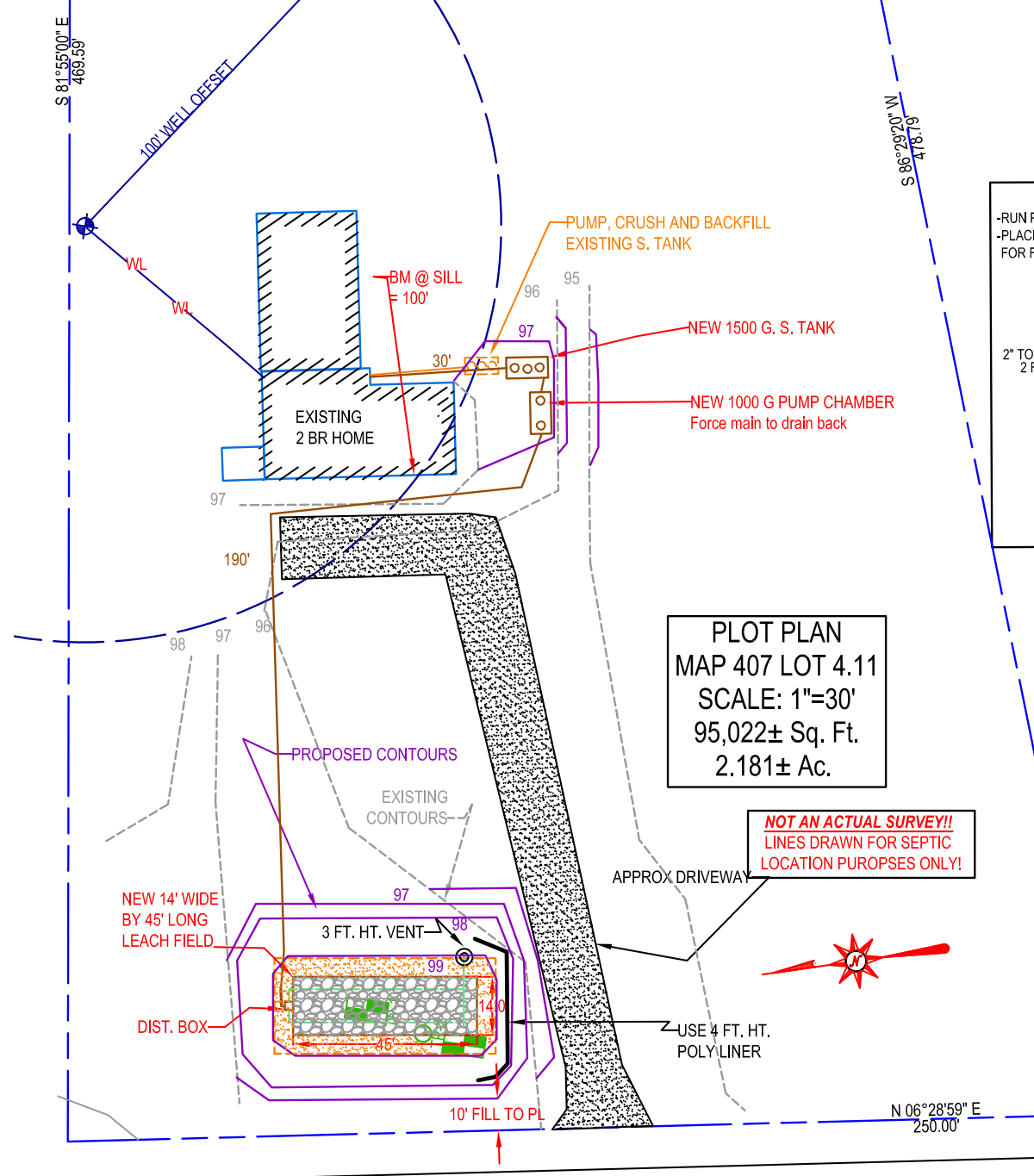
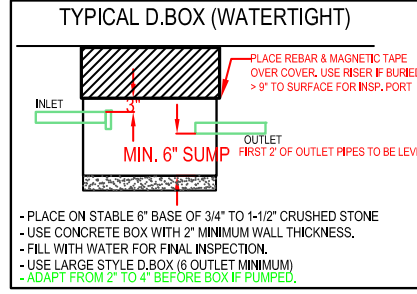
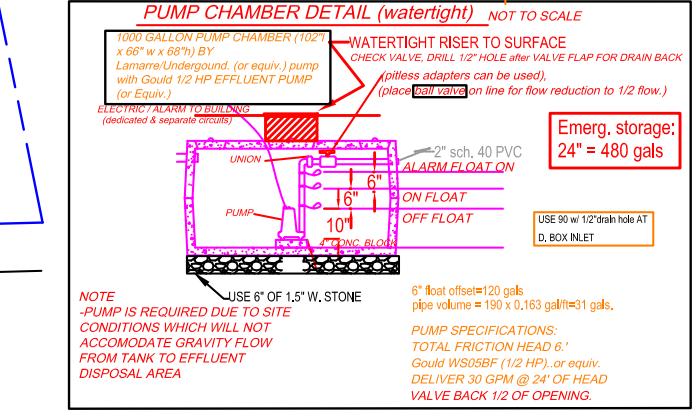


**DESIGN NOTES AND CALCULATIONS:**

- 1.) 2 BEDROOM HOME (3 BEDROOM DESIGN) X 110 GPD /BR = 330 GPD. MAX. FEAS. COMP. REQUIRED
  - SIDE AREA: 0 SF.
  - TOTAL AREA: 630 SF X 0.56 GAL/SF = 353 GPD
2. **USE ONE FIELD: 14' WIDE X 45' LONG WITH 6\"/>
  - BOTTOM AREA: 14' W X 45' L = 630 SF.
  - PERC RATE = 15 MIN / IN
  - CLASS 2 SOIL RATING (FINE SANDY LOAM)**
3. **GARBAGE DISPOSAL NOT ALLOWED.**
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.
5. NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
6. USE NEW 1,500 MONOLITHIC GAL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
  - INSTALL NEW 1000 MONOLITHIC GAL. PUMP CHAMBER
7. ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3\"/>
  - D. BOX WITH MORE THAN 9\"/>
8. USE APPROVED (1 1/2\"/>
  - CONFIRM STONE PROPERLY WASHED (WITH BUCKET / H2O TEST) PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY. RESERVE AREA NOTED REQUIRED.
11. SLOPE CALCCS (SEE CONTOURS), SUBGRADE INSP. REQUIRED.
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
14. USE 2% MIN. SLOPE OVER SAS
  - CLEAR PAST BASE OF B (MIN. 24\") & SCARIFY UNDER BED PRIOR TO TITL V SAND PLACEMENT.
  - EXCAVATE EXISTING LOAM. SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
  - 15. SOIL EVALUATION BY A. WEISS, RS. 5/15/08 (MR., SMITH, BOH AGENT).
  - DEPTH OF PERC. 34"
  - PERC RATE = 15 MIN / IN
  - CLASS 2 SOIL RATING (FINE SANDY LOAM)
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
17. ENGINEER TO INSPECT SUBGRADE, AND FINAL.
18. BM=100.00 @ (SILL, as noted), CONFIRM PROPER PIPE SLOPES
19. USE INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4\"/>
  - ADAPT FROM 2\"/>



- PUMP CHAMBER/MOUNDED SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER:**
1. HAVE SEPTIC TANK PUMPED EVERY SECOND (2) YEARS.
  2. HAVE PUMP AND PUMP CHAMBER & OUTLET FILTER INSPECTED (IF PRESENT) ANNUALLY.
  3. MAKE CERTAIN TO TEST H<sub>2</sub>O WATER SHUT OFF ALARM ANNUALLY.
  4. MAINTAIN AREA OVER SEPTIC AS GRASSY OR SIMILAR GROUND COVER ATTEMPTING TO MAXIMIZE SUNLIGHT TO AREA.
  5. DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF LEACHFIELD.
  6. USE ONLY LIQUID DETERGENTS IN WASHER OR DISHWASHER.
  7. CONSERVE WATER WHEREVER POSSIBLE TO LENGTHEN LIFE OF SYSTEM. USE WATER SAVING DEVICES AND FIXTURES ONLY.
  8. KEEP ALL RUNOFF DRAINS SUCH AS GUTTERS OR CURTAIN DRAINS AT LEAST 25 FEET FROM LEACHING FIELD.



**TEST PIT LOG:**

DEPTH:	HORIZ.:	TEXTURE:	MOISTURE:	MATERIAL:	DEPTH:	HORIZ.:	TEXTURE:	MOISTURE:	MATERIAL:
0-6"	A	FSL	10 YR 3.3	FRIABLE	0-4"	A	FSL	10 YR 3.3	FRIABLE
6-20"	Bw	LS	10 YR 5.6	FRIABLE	4-20"	Bw	LS	10 YR 5.6	FRIABLE
20-78"	C1	SL	2.5Y 6.1	F.M. SANDY ABL. TILL FIRM 15% BOULDERS	20-78"	C1	SL	2.5Y 6.1	F.M. SANDY ABL. TILL FIRM 15% BOULDERS

OXIDES: 24" OBSERVED  
 EHW: 96.2.0 (24")=94.2  
 STANDING H2O: NOT OBSERVED  
 WEEPING: NOT OBSERVED  
 BEDROCK: 78"+

**SEPTIC SYSTEM DESIGN PLAN FOR MY CLIENT**  
 MAIN ROAD  
 MASSACHUSETTS  
**Cold Spring Environmental Consultants Inc.**  
 350 Old Enfield Road  
 Belchertown, MA 01007

P/HD/IC: (413) 323-5957  
 FAX: (413) 323-9976  
 DATE: 2008  
 SCALE: 1"=30'

SOIL EVALUATOR: A. WEISS, RS & C. SMITH  
 DATE OF EVALUATION: 05.15.2008

DESIGNED BY: ALAN WEISS  
 DRAWING NUMBER: 2008

REGISTERED SANITARIAN

**ATTENTION INSTALLER!!** CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 4 - 40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

**NOTE:** INSTALLER MUST CONTACT ENGINEER/BOH OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.