#539 MONTAGUE ROAD

Smith, Edmund

From: Alan Weiss [aeweiss@charter.net]
Sent: Friday, September 23, 2011 4:50 PM
To: Smith, Edmund
Cc: 'Paul Smith'
Subject: New revsion at Montague Road
Attachments: LATEST SEPTIC REVISION HOUSE MIRROR.09.23.2011.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Ed and Paul,

Here is the latest revision by GC and excavator:

The house was mirrored with drive and the leach bed shifted 8-10 ft. south and lowered 1 ft. proportional to the elevation change.

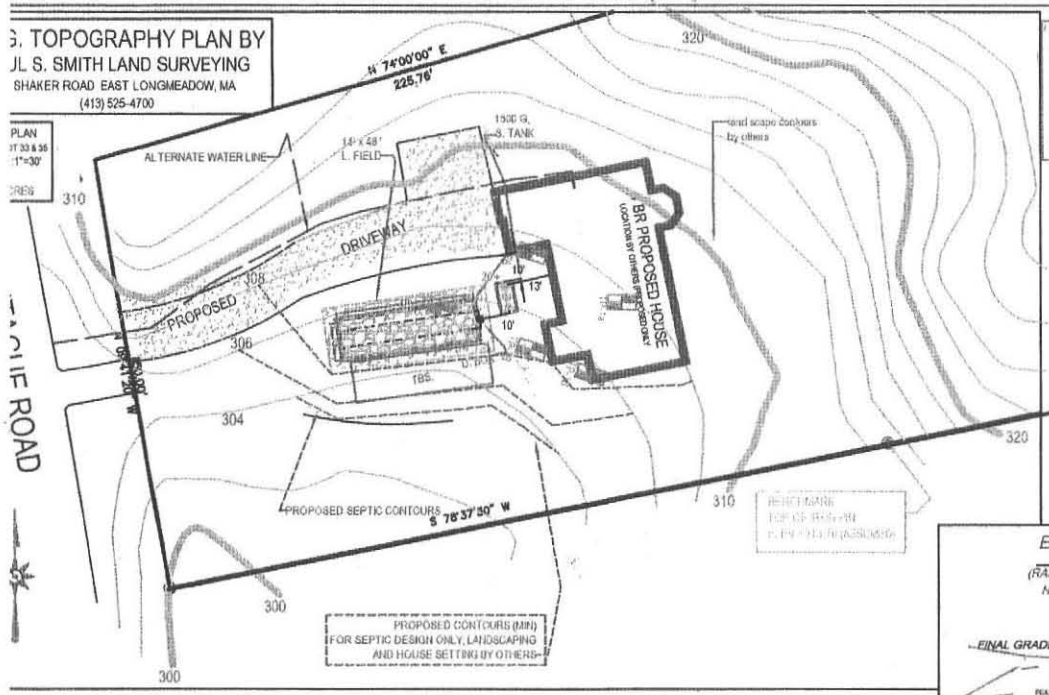
Feel free to call with any questions.

Alan
Cold Spring Environmental Consultants Inc.

www.coldspringenvironmental.com

TOPOGRAPHY PLAN BY JL S. SMITH LAND SURVEYING

SHAKER ROAD EAST LONGMEADOW, MA
(413) 525-4700

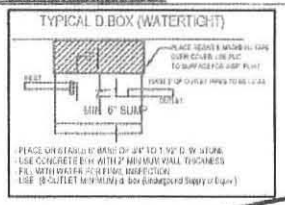


GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER

1.) HAVE TANK PUMPED EVERY 2 YEARS
2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM
4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC

All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system in ONE DAY.

TYPICAL D.BOX (WATERTIGHT)



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 (2.4. OR 3 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.

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS — DATE OF EVALUATION: 03.25.2010

TP-1B & TP-5

DEPTH	HORZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3 3	FRIABLE
12-26"	Bw	LS	10YR 4 6	FRIABLE
26-120"	C1	S	2.5Y 8/2	C. SAND WELL SORTED LAYERED BEDDED
OXIDES:			48"	7.5YR 5.8/2.5Y 4/1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

TP-2B

DEPTH	HORZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3 3	FRIABLE
12-26"	Bw	SL	10 YR 4 6	HARD MASSIVE
26-120"	C1	S	10 YR 5 3	C. SAND WELL SORTED
OXIDES:			48"	7.5YR 5.8/2.5Y 4/1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120"+	

DESIGN NOTES AND CALCULATIONS:

1.) 4 (BEDROOM HOME)+ X 110 GPD /BR = 440 GPD. REQUIRED,

-Use ONE FIELD: 14' WIDE X 48' LONG WITH 6" OF ¾ TO 1½ DBL WASHED STONE BELOW INVERT

- BOTTOM AREA: 14' W X 48' L =672 SF.
- SIDE AREA: 0 SF.
- TOTAL AREA: 672 SF X .74 GAL/SF = 497 GPD

3. GARBAGE DISPOSAL NOT ALLOWED, *** NO FURNACE/AC CONNECTIONS ALLOWED.
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS (TOWN WATER)
5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS
6. USE NEW 1,500 GAL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

   NOTE:
   - ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.

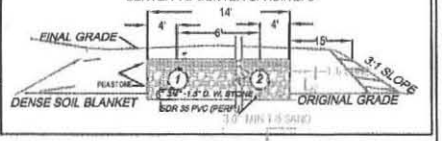
7A. ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS

NOTE:
- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RIBERS TO 6" OF SURFACE.

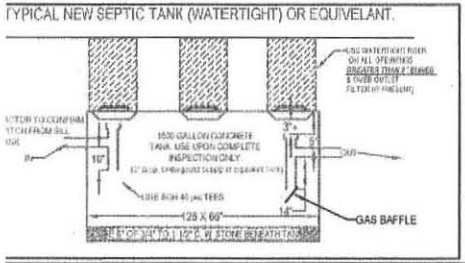
8. USE APPROVED (.75"-1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
   -CONFIRM STONE PROPERLY DOUBLE WASHED PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
13. USE 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 TOP AND SUB TO 28" MIN. AS NEEDED (INSPECTION REQUIRED)
    - CLEAR PAST BASE OF B (MIN. 28") & SCARIFY UNDER BED PRIOR TO TITLE 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. (G. COURTEMANCHE, BOH AGENT).
    - DEPTH OF PERC. 40 & 44"
    - PERC RATE = <2 & <2 MIN / IN,
    - CLASS 1 SOIL RATING, SAND.
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
17. ENGINEER & TOWN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM= @ (as noted ON PLAN), CONFIRM PROPER PIPE SLOPES
    - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR.

EFFLUENT DISPOSAL AREA

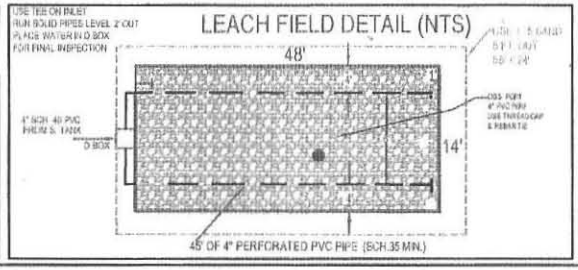
CROSS SECTION - NOT TO SCALE
(RAISED DISPOSAL AREA) (2 % SLOPE TOP)
NUMBER OF 4" SDR PVC SEPTIC LINES:2
CENTER TO CENTER SPACING: 6'



TYPICAL NEW SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.

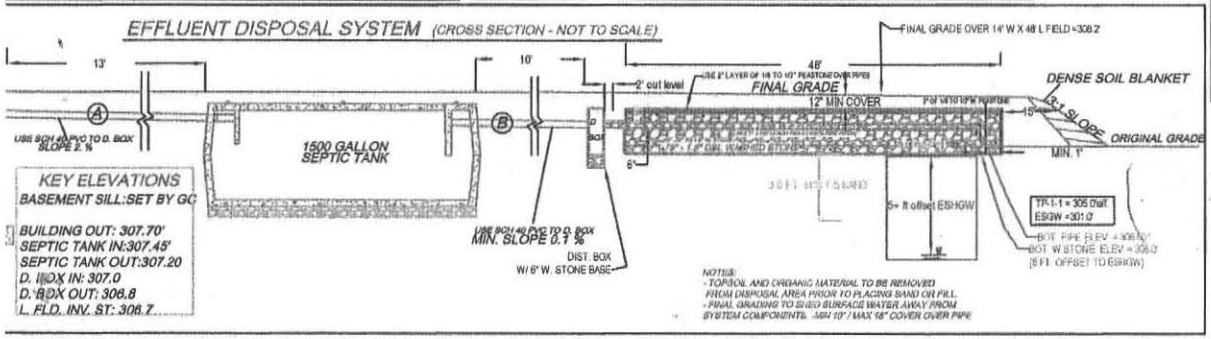


LEACH FIELD DETAIL (NTS)



SUBJECT SITE LOCATION

EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS

BASEMENT SILL:SET BY GC

BUILDING OUT: 307.70'
SEPTIC TANK IN:307.45'
SEPTIC TANK OUT:307.20
D. BOX IN: 307.0
D. BOX OUT: 306.8
L. FLD. INV. ST: 306.7

NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. MIN 10" / MAX 18" COVER OVER PIPE

REVISED 9-13-2011 #2

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS — DATE OF EVALUATION: 03.25.2010

TP-6A EFF. ELEV: 305.0'

DEPTH	HORZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3 3	FRIABLE
12-24'	Bw	LS	10YR 4 6	FRIABLE
24-120"	C1	S	2.5Y 8/2	C. SAND WELL SORTED LAYERED, BEDDED
OXIDES:			48"	7.5YR 5.8/2.5Y 4/1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

TP-2A EFF. ELEV:

DEPTH	HORZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3 3	FRIABLE
12-28"	Bw	SL	10 YR 4 6	HARD MASSIVE
28-120"	C1	S	10 YR 5 3	C. SAND WELL SORTED
OXIDES:			50"	7.5YR 5.8/2.5Y 4/1
EHWT:			50"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120"+	

SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-9916
e-Mail: ACWEISS@charter.net

DATE:	DRAWN BY:	REVISED:
07.08.2011	ALAN WEISS	09.16.2011 09.23.2011
SCALE: 1"=30'		DRAWING NUMBER: 110-3526-0325

TION INSTALLER!!

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

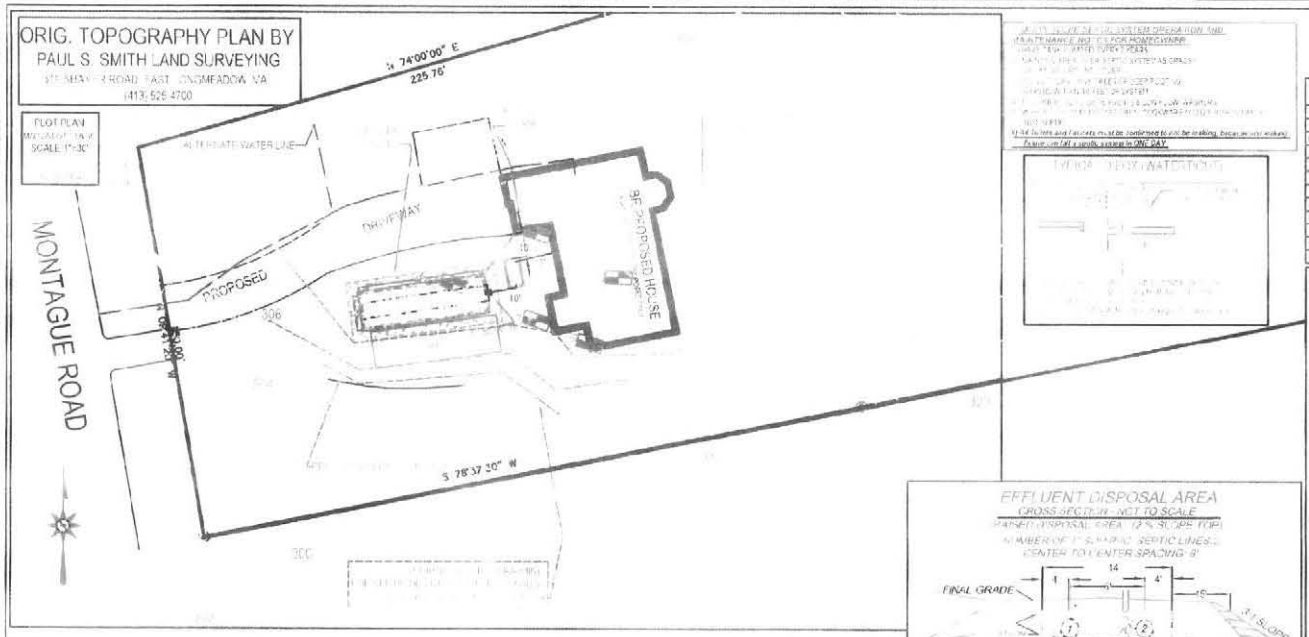
NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.

NOT AN ACTUAL SURVEY!! LINES DRAWN FOR SEPTIC LOCATION PURPOSES ONLY!

COMMONWEALTH OF MASSACHUSETTS ALAN E. WEISS 9592 REGISTERED

ORIG. TOPOGRAPHY PLAN BY
PAUL S. SMITH LAND SURVEYING
[illegible] BEAVER ROAD EAST, ONOMEADOW, VA
(413) 525 4700

PLOT PLAN
SCALE 1"=30'



TEST PIT LOG:

0-12"	Ap	FSL	10 YR 3 3	FRIABLE				10 YR 3 3	FRIABLE	
12-24	Bw	LS	10YR 4 6	FRIABLE	12-26	Bw	LS	10 YR 4 6	FRIABLE	
24-120	C1	S	2.5Y 6 2	C SAND WELL SORTED CAPPED STONES	26-120	C1	S	2.5Y 6 2	C SAND WELL SORTED CAPPED STONES	
			48"					50"		
			48"					50"		
			100"					100"		
			92"					12"		
			120"+					120"+		

TEST PIT LOG:

0-12"	Ap	FSL	10 YR 3 3	FRIABLE				10 YR 3 3	FRIABLE	
12-24	Bw	LS	10YR 4 6	FRIABLE	12-26	Bw	LS	10 YR 4 6	FRIABLE	
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			48"					50"		
			48"					50"		
			100"					100"		
			92"					12"		
			120"+					120"+		

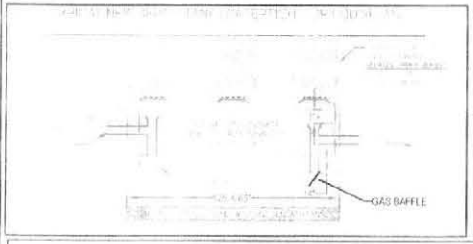
DESIGN NOTES AND CALCULATIONS:

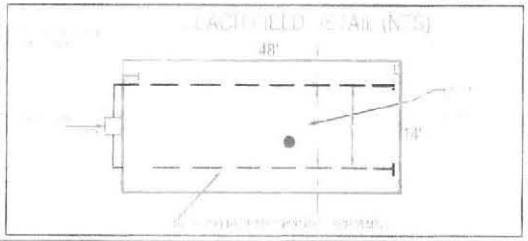
1.) 4 (BEDROOM HOME)= X 110 GPD PER = 440 GPD REQUIRED

-Use ONE FIELD: 14' WIDE X 48' LONG WITH 6" OF ¾ TO 1½ DBL WASHED STONE BELOW INVERT

BOTTOM AREA: 14 W X 48 L =672 SF
SIDE AREA: 0 SF
TOTAL AREA: 672 SF X .74 GAL/SF = 497 GPD

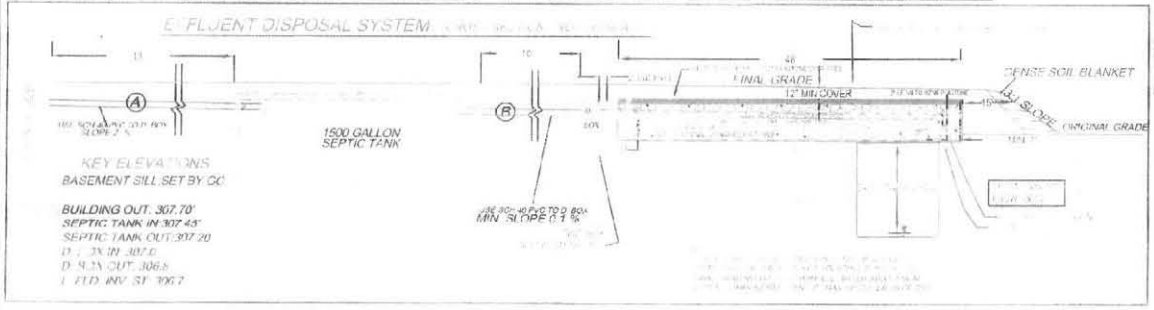
3. GARBAGE DISPOSAL NOT ALLOWED
4. NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER)
5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS
6. USE (1) 1,500 GAL S. TANK AS NOTED & MAINTAIN @ 2 PVC FROM INLET TO S. TANK
INSTALL & INSPECT SCH. 40 TEES (3 TEES (90° INLET, 14" OUTLET))
NOTE:
ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE BE-
SURE TO MAIN. AN 8" CLEARANCE FROM PIPES TO EDGE OF MID TANK ACCESS BOXES
7. USE LARGE STYLE (6 OUTLET) D BOX ONLY
7A. ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2' (8 FT) MUST HAVE 0° SLOPE WALLS
NOTE:
D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE INSULATION AT SURFACE
8. USE APPROVED 1.75"-1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 8"
CONFIRM STONE PROPERLY DOUBLE WASHED PRIOR TO PLACEMENT
9. USE PROPER SCH. 40 PVC TEES AS SHOWN
10. PRE & POST CONTOURS NOTED AS NECESSARY (IF SURVEY NOTED)
11. SLOPE CALCS (SEE CONTOURS) SUBGRADE INSP. REQ'D
12. USE FIELD DUE TO TOPOGRAPHY AND [illegible]
ELEVATION OF RESIDENCE 376 (WELL 340)
[illegible] SLOPE EXCEPTION
CLEAR TOP AND SIDES TO 28' MIN AS NEEDED (INSPECTION REQUIRED)
CLEAR EAST SIDE OF 3 (MIN. 28') & SCARIFY UNDER DEPOSITION OF SAND PLACEMENT
EXCAVATE TO 6" NO LOAM, SUB AND ANY FINES NOTED (DUE TO FILL OF TOPSOIL STEEP SLOPE)
13. USE EVALUATION BY A. WEISS RS (2) (2013) Witness Test Pit(s)
DEPTH OF PERC 40 X 44"
PERC RATE = <2 & <2 MIN/IN.
CLASS SOIL RATING, SAND
14. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD
15. ENGINEER & TOWN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT END
16. SM= @ (as noted ON PLAN), CONFIRM PROPER PIPE SLOPES
USE INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW CREEK, NO TANK
17. GRADE MULCH AND SEED OVER SAS AS NOTED
18. INSTALLATION IN LOW GROUNDWATER SEASON, PROMINENCE
19. (2) OBSERVATION PORT NEAR CENTER OF STONE BED (HALF 4" PERF. WATER PVC) INSPECTION PORTALS
(1) BOTTOM OF STONE BED WITH RISER TO TOP OF [illegible] & THE OTHER (1) IN A MARK WITH 45 BAR





SUBJECT SITE LOCATION

EFFLUENT DISPOSAL SYSTEM



KEY ELEVATIONS
BASEMENT SILL SET BY GC

BUILDING OUT. 307.70'
SEPTIC TANK IN 307.45'
SEPTIC TANK OUT 307.20
D. 1. IN 307.0
D. 9 IN OUT. 306.8
L. FLD. INV. ST. 306.7

EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
RAISED DISPOSAL AREA (3% SLOPE TOP)
NUMBER OF 1" SCHEDULE 40 SEPTIC LINES
CENTER TO CENTER SPACING 8'

REVISED
9-13-24
#2

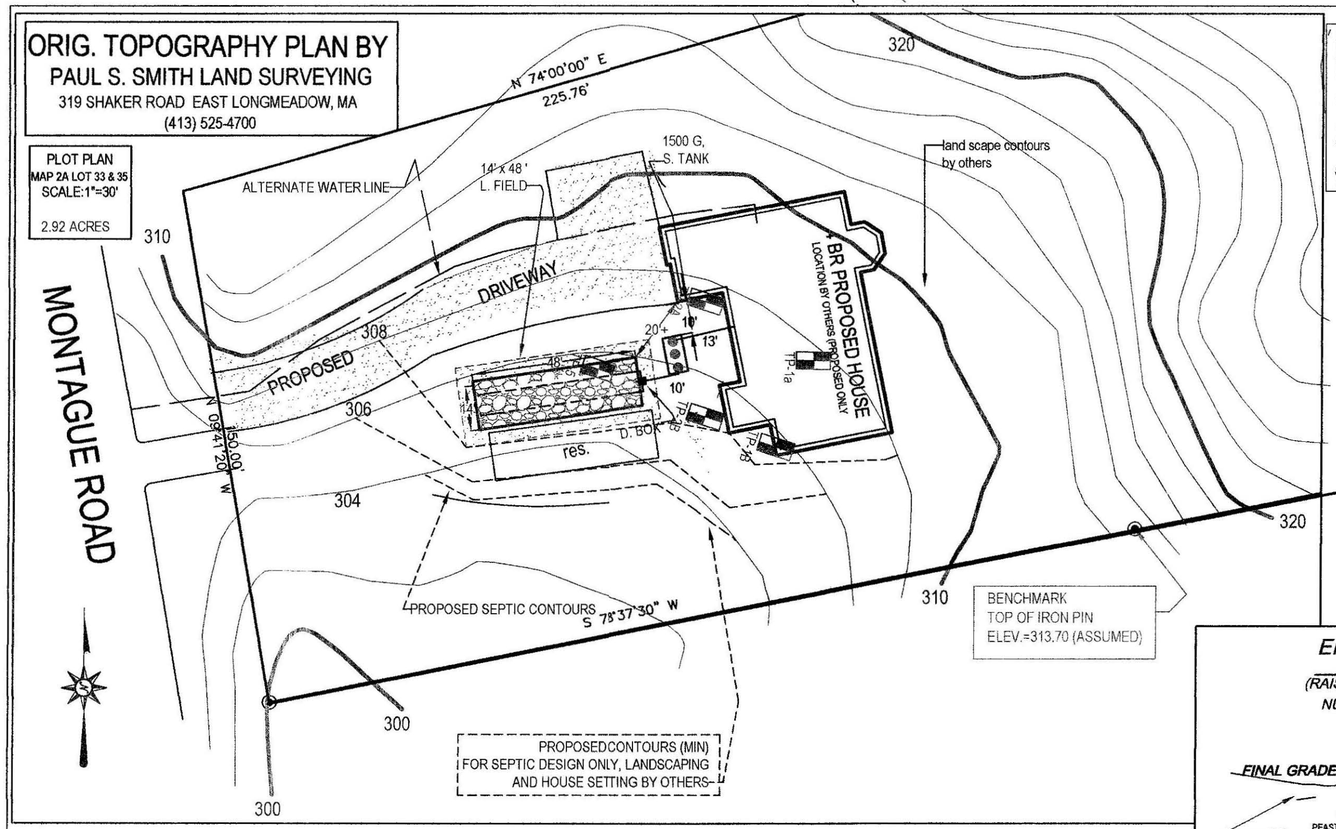
SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Zoar Road
Deerfield, MA 01342

REVISED PLAN
RECEIVED/FILED 9/30/2011

ORIG. TOPOGRAPHY PLAN BY
PAUL S. SMITH LAND SURVEYING
319 SHAKER ROAD EAST LONGMEADOW, MA
(413) 525-4700

PLOT PLAN
MAP 2A LOT 33 & 35
SCALE:1"=30'
2.92 ACRES



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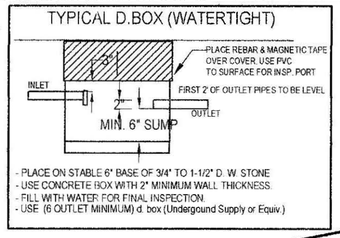

- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" D. W. STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS.
- FILL WITH WATER FOR FINAL INSPECTION.
- USE (6 OUTLET MINIMUM) d. box (Undergound Supply or Equiv.)

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TP-2B

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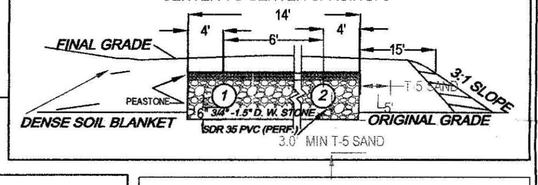
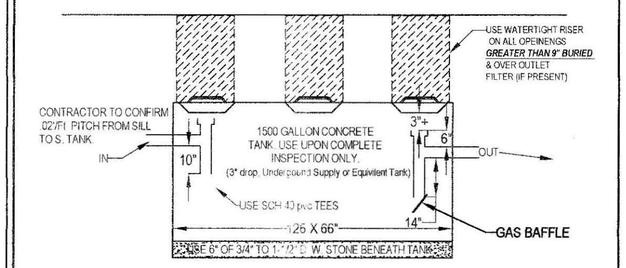
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR..

EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
(RAISED DISPOSAL AREA) (2 % SLOPE TOP)
NUMBER OF 4" SDR PVC SEPTIC LINES:2
CENTER TO CENTER SPACING: 6'

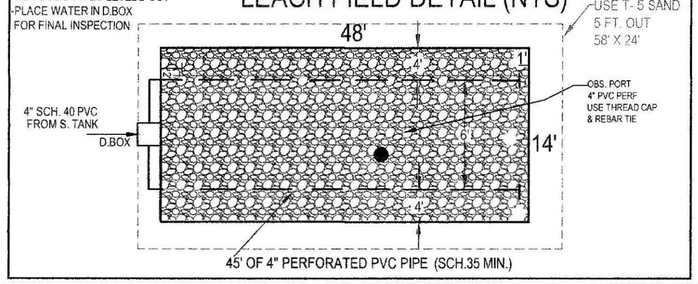


TYPICAL NEW SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.



- USE TEE ON INLET
- RUN SOLID PIPES LEVEL 2' OUT
- PLACE WATER IN D.BOX FOR FINAL INSPECTION

LEACH FIELD DETAIL (NTS)



TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-5A EFF. ELEV: 305.0'

DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:
0-12"	Ap	FSL	10 YR 3.3	FRIABLE
12-24"	Bw	LS	10YR 4.6	FRIABLE
24-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED
				LAYERED, BEDDED
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

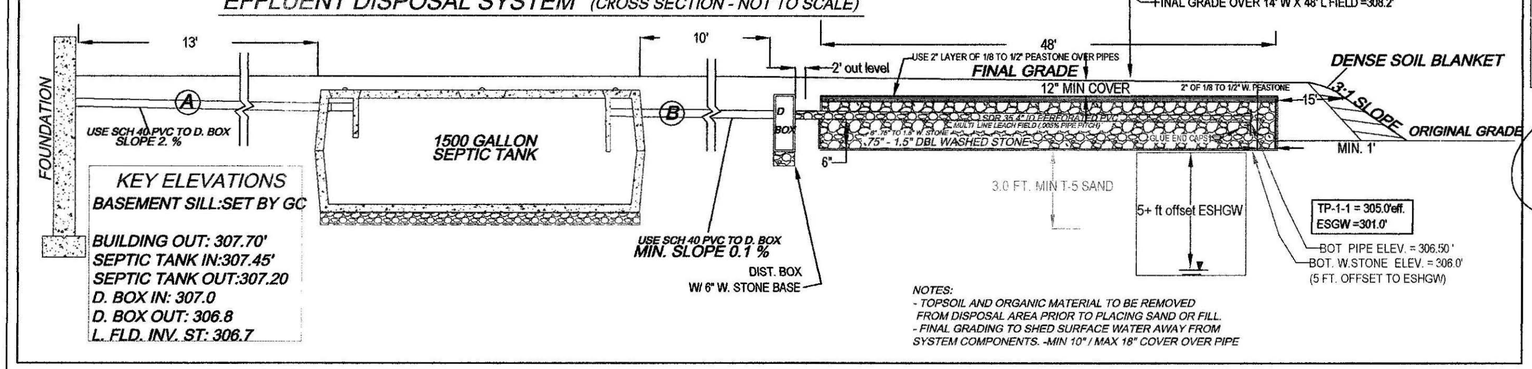
TP-2A EFF. ELEV:

DEPTH	HORIZ:	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3.3	FRIABLE
12-28"	Bw	SL	10 YR 4.6	HARD MASSIVE
28-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED
OXIDES:			50"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			50"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120" +	

NOTE: 09.16.11 REVISION DUE TO GC HOUSE RELOC. 09.23.2011 DUE TO GC MIRRORED HOUSE LOC. AND DRIVEWAY TO NORTH.

REVISED

EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS
BASEMENT SILL:SET BY GC

BUILDING OUT: 307.70'
SEPTIC TANK IN:307.45'
SEPTIC TANK OUT:307.20
D. BOX IN: 307.0
D. BOX OUT: 306.8
L. FLD. INV. ST: 306.7

NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE

COMMONWEALTH OF MASSACHUSETTS — ALAN E. WEISS #6333 — REGISTERED SANITARIAN

SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWEISS@charter.net

REVISED

DATE:	DRAWN BY:	REVISED:
07.08.2011	ALAN WEISS	09.16.2011 09.23.2011
SCALE: 1"=30'		DRAWING NUMBER: 110-3526-0325

ATTENTION INSTALLER!!
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 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/BD 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.*

NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PUROPSES ONLY!

PERMITS/INSP PAYMENT RECPT#: 12009754
TOWN OF AMHERST
TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 07/29/11 TIME: 10:45
CLERK: mirj DEPT:

PAID BY:
PAYMENT METH: CHECK 1002

REFERENCE:

AMT TENDERED: 150.00
AMT APPLIED: 150.00
CHANGE: .00

SITE ADDRESS: C & M BUILDERS LLC

FEES:
HEA017 150.00

TOTAL PAID: 150.00

9/20/2011

Plan: LOT 2A. 33 & 35 Designed by: A.E. WEISS

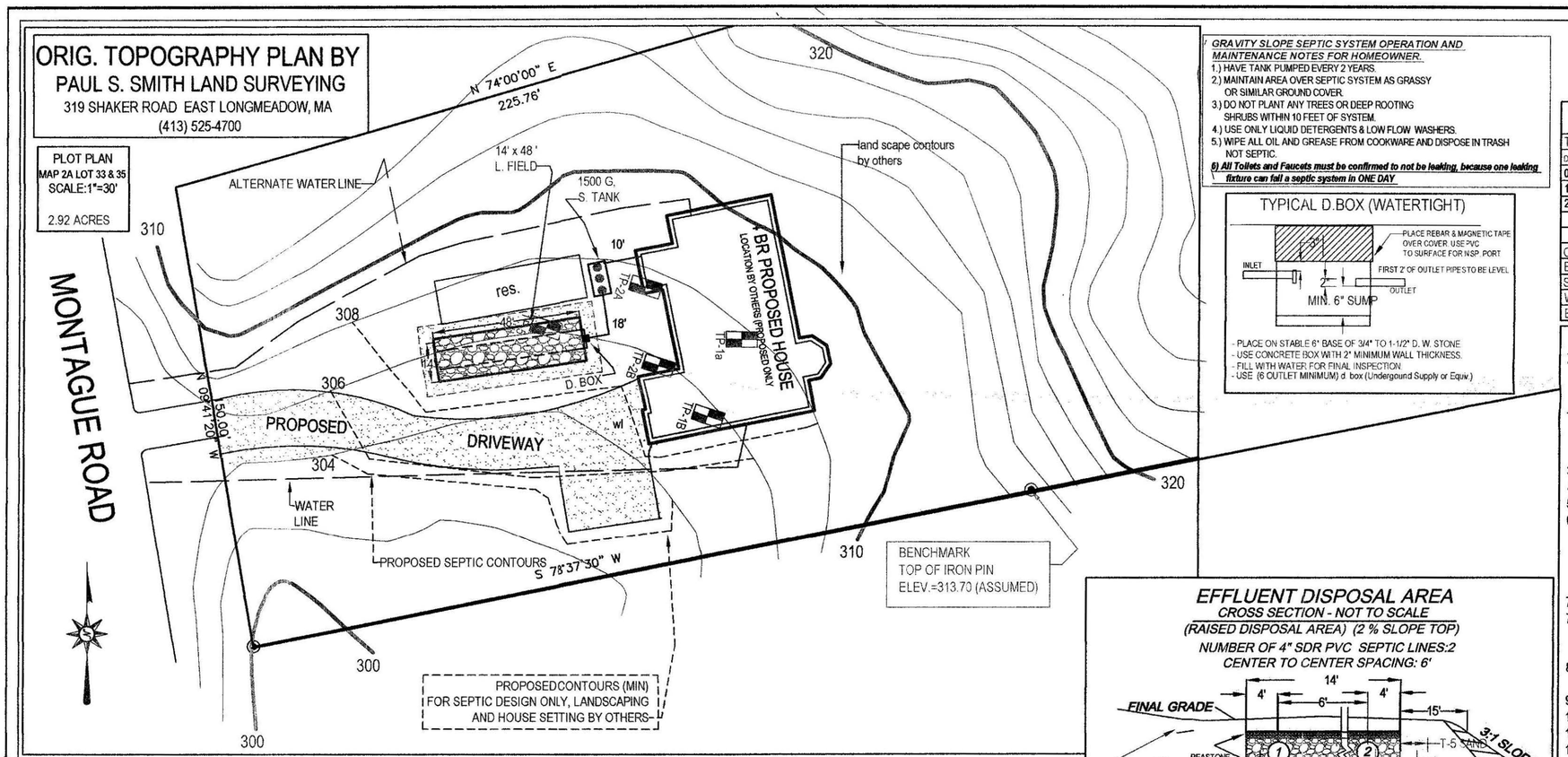
MONTAGUE RD, AMHERST, MA CHECK LIST FOR SEPTIC PLANS

- [x] Application page attached to plan
- [x] PE or RS stamp, date, signature
- [NA] Variances to property line setback distances must have Surveyor Stamp 15.020 (3)
- [x] Legal boundaries noted
- [x] Easements noted
- [x] Dwellings and buildings existing or proposed noted
- [x] Location of driveway or parking areas, other impervious areas
- [x] Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4)
- [x] System design calculations
- [x] Garbage grinder Y or N
- [ ] Benchmark not disturbed during construction, within 75 feet of facility CMR15.220 (4)(q)
- [x] North arrow CMR 15.200 (4) (g)
- [x] Contours
- [x] Deep hole location and data
- [x] Perc hole location and data
- [x] Elevations
- [x] Names of approving authority and soil evaluator CMR 15.211 p. 49
- [x] Location of every water supply, public and private CMR 15.220(k):
  - Within 400 feet of system in case of surface water and gravel packed public water supply
  - Within 250 feet of system in case of tubular public water supply
  - Within 150 feet of private supply wells 100' septic sys. ; 50' tank
- [NA] **Well statement if applicable**
- [x] Location of any surface waters, rivers, vegetated wetlands
- [x] Location of water lines and other subsurface utilities
- [x] Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
- [x] Profile of system
- [x] Locus plan to show location of facility, including nearest street
- [x] Materials of construction and specs for system
- [x] Gas Baffle 15.227.4
- [x] Pipe in center line of tank 310 CMR 15.227, 15.06(8)
- [x] Double washed stone
- [x] Schedule 40 PVC for trafficked areas, house to tank
- [x] Distances noted from house to tank, etc.
- [NA] If dosing is proposed, design and specs of dosing system
- [NA] When alternative technology is required, complete plan and specs, including hydraulic profile
- [x] Trenches preferred over beds CMR 15.240 (6)
- [NA] Buoyancy calculations for tanks or components partly below H20 table 15.221(8) p. 56
- [x] 3 to 1 slope outside of mound, toe ending 5 feet from property line
- [x] Local upgrade requests on the plan
- [x] Local upgrade forms attached to application
- [x] Note on plan listing all variances sought in conjunction with the plan

NOTES:

ORIG. TOPOGRAPHY PLAN BY
PAUL S. SMITH LAND SURVEYING
319 SHAKER ROAD EAST LONGMEADOW, MA
(413) 525-4700

PLOT PLAN
MAP 2A LOT 33 & 35
SCALE:1"=30'
2.92 ACRES



GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.
1.) HAVE TANK PUMPED EVERY 2 YEARS.
2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC.
6) All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system in ONE DAY

TYPICAL D.BOX (WATERTIGHT)

- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" D. W. STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS.
- FILL WITH WATER FOR FINAL INSPECTION
- USE (6 OUTLET MINIMUM) d. box (Undergound Supply or Equiv.)

Ed.
Revised plan as per discussion

TP-1					
0-12"	Ap	FSL	10YR 3.3	FRIABLE	12-26"
12-26"	Bw	LS	10YR 4.6	FRIABLE	26-120"
26-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED	
				LAYERED, BEDDED	
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1	
EHWT:			48"		
STANDING H2O:			100"		
WEEPING:			62"		
BEDROCK:			120"+		

TP-2					
0-12"	A	SL	10 YR 3.3	FRIABLE	12-28"
12-28"	Bw	SL	10 YR 4.6	HARD MASSIVE	
28-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED	
OXIDES:			50"	7.5 YR 5.8,2.5 Y 4.1	
EHWT:			50"		
STANDING H2O:			100"		
WEEPING:			72"		
BEDROCK:			120" +		

DESIGN NOTES AND CALCULATIONS:

1.) 4 (BEDROOM HIOME)+ X 110 GPD /BR = 440 GPD. REQUIRED,

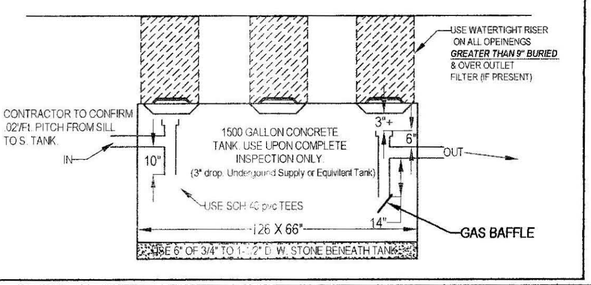
-Use ONE FIELD: 14' WIDE X 48' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT

- BOTTOM AREA: 14' W X 48' L =672 SF.
- SIDE AREA: 0 SF.
- TOTAL AREA:: 672 SF X .74 GAL/SF = 497 GPD

3. GARBAGE DISPOSAL NOT ALLOWED, ***.... NO FURNACE/AC CONNECTIONS ALLOWED.
4. NO OTHER PRIVATIE WELLS WITHIN 150 FEET OF SAS. (TOWN WATER)
5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS
6. USE NEW 1,500 GAL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),
   NOTE:
   - ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE: (6 OUTLET) D.BOX ONLY.
7A ALL D. BOX OUTLIET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
   NOTE:
   - D. BOXES WITH MIORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
8. USE APPROVED (.75"-1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
   -CONFIRM STONE PROPERLY DOUBLE WASHED PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED
11. SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.
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 TOP AND SUB TO 28" MIN. AS NEEDED (INSPECTION REQUIRED).
   - CLEAR PAST BASE OF B (MIN. 28") & SCARIFY UNDER BED PRIOR TO TITLE 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. (G. COURTEMANCHE, BOH AGENT).
   - DEPTH OF PERC.. 40 & 44"
   - PERC RATE = <2! & <2 MIN / IN,
   - CLASS 1 SOIL RATING, SAND.
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
17. ENGINEER & TOWN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM= @ (as noted OIN PLAN), CONFIRM PROPER PIPE SLOPES
   - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR..

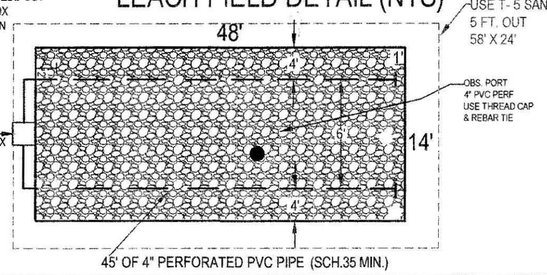
EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
(RAISED DISPOSAL AREA) (2 % SLOPE TOP)
NUMBER OF 4" SDR PVC SEPTIC LINES:2
CENTER TO CENTER SPACING: 6'

TYPICAL NEW SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.

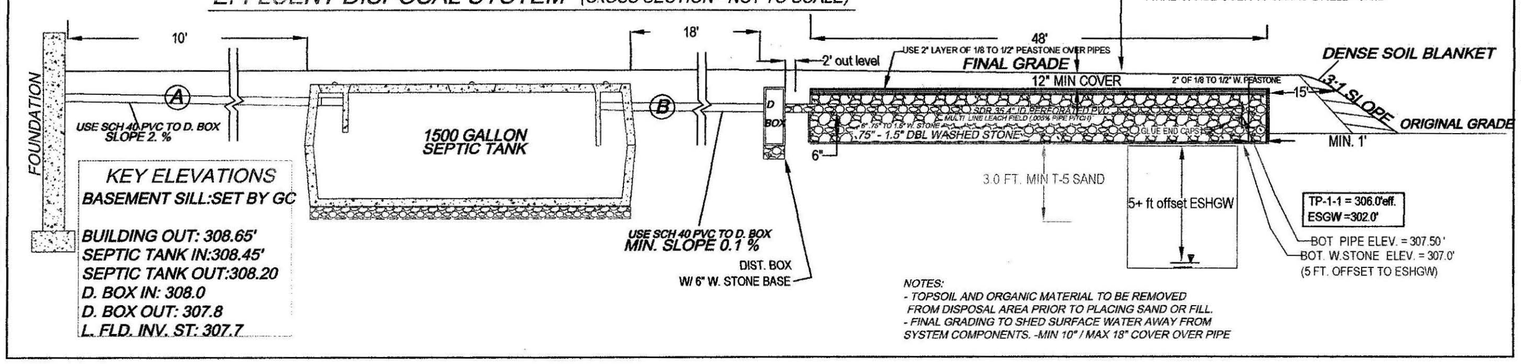


-USE TEE ON INLET
-RUN SOLID PIPES LEVEL 2' OUT
-PLACE WATER IN D.BOX FOR FINAL INSPECTION

LEACH FIELD DETAIL (NTS)



EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS
BASEMENT SILL:SET BY GC

BUILDING OUT: 308.65'
SEPTIC TANK IN:308.45'
SEPTIC TANK OUT:308.20
D. BOX IN: 308.0
D. BOX OUT: 307.8
L. FLD. INV. ST: 307.7

NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-1A EFF. ELEV: 308.0''

DEPTH	HORIZ.	TEXTURE	COLOUR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3.3	FRIABLE
12-24"	Bw	LS	10YR 4.6	FRIABLE
24-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED
				LAYERED, BEDDED
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

TP-2A EFF. ELEV:

DEPTH	HORIZ.	TEXTURE	COLOUR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3.3	FRIABLE
12-28"	Bw	SL	10 YR 4.6	HARD MASSIVE
28-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED
OXIDES:			50"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			50"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120" +	

SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWCSES@charter.net

REVISED

COMMONWEALTH OF MASSACHUSETTS — ALAN E. WEISS 9633 — REGISTERED SANITARIAN

DATE:	DRAWN BY:	REVISED:
07.08.2011	ALAN WEISS	09.16.2011
SCALE: 1"=30'		DRAWING NUMBER: 110-3526-0325

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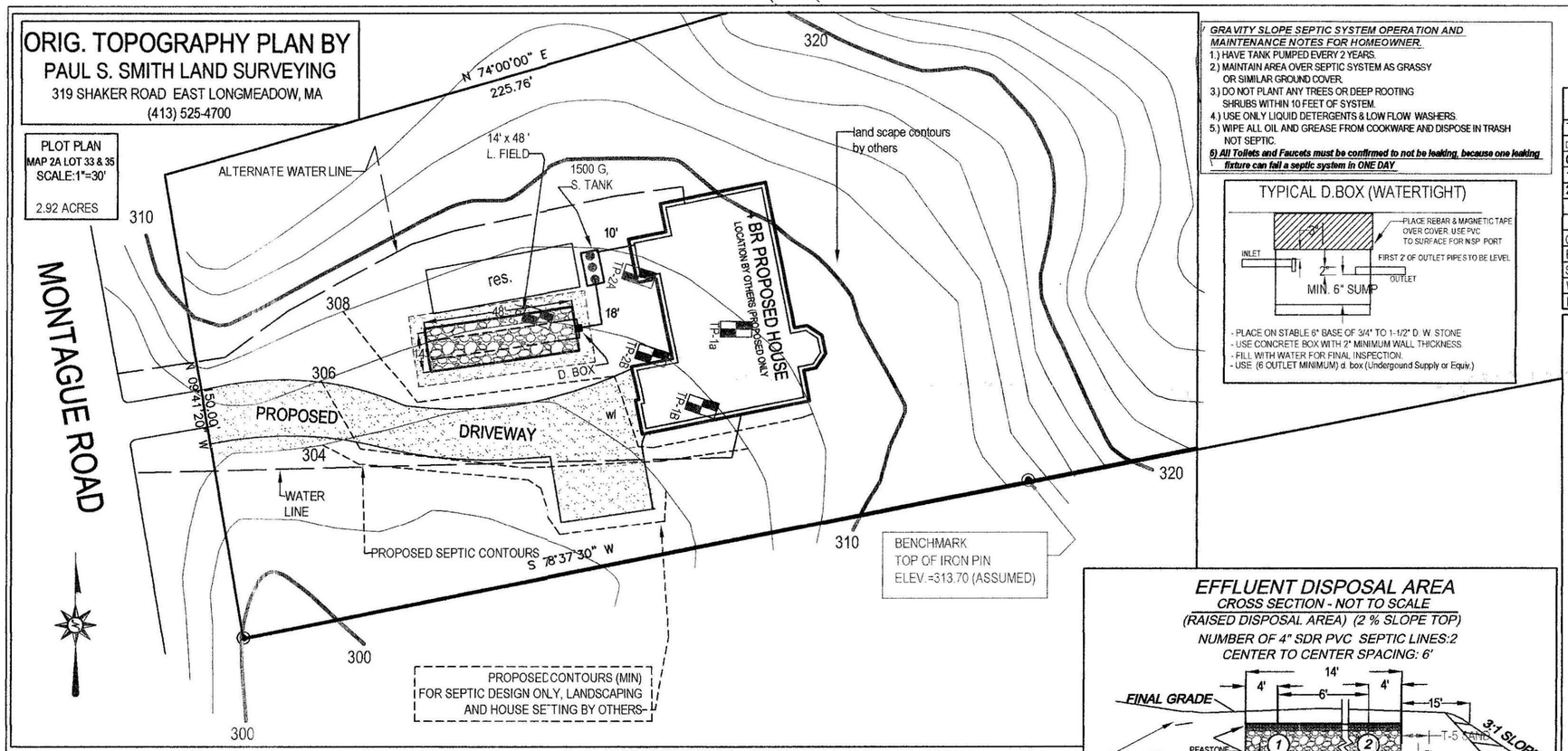
NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PUROPSES ONLY

ORIG. TOPOGRAPHY PLAN BY
PAUL S. SMITH LAND SURVEYING
319 SHAKER ROAD EAST LONGMEADOW, MA
(413) 525-4700

PLOT PLAN
MAP 2A LOT 33 & 35
SCALE:1"=30'
2.92 ACRES



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5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC.
6) All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system in ONE DAY

TYPICAL D.BOX (WATERTIGHT)

- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" D. W. STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS
- FILL WITH WATER FOR FINAL INSPECTION.
- USE (6 OUTLET MINIMUM) d. box (Undergound Supply or Equiv.)

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.*

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-1B & TP-5

DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3.3	FRIABLE
12-26"	Bw	LS	10YR 4.6	FRIABLE
26-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED
				LAYERED, BEDDED
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

TP-2B

DEPTH	HORIZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3.3	FRIABLE
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EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120" +	

DESIGN NOTES AND CALCULATIONS:
1.) 4 (BEDROOM HOME)+ X 110 GPD /BR = 440 GPD. REQUIRED,

-Use ONE FIELD: 14' WIDE X 48' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT

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- SIDE AREA: 0 SF.
- TOTAL AREA: 672 SF X .74 GAL/SF = 497 GPD

3. GARBAGE DISPOSAL NOT ALLOWED, ***.... NO FURNACE/AC CONNECTIONS ALLOWED.
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS. (TOWN WATER)
5. NO OTHER WETLAINDS WITHIN 50 FEET OF SAS
6. USE NEW 1,500 GAL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
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   NOTE:
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7. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.
7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
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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
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   - CLEAR PAST BASE OF B (MIN. 28") & SCARIFY UNDER BED PRIOR TO TITLE V SAND PLACEMENT.
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   - PERC RATE = <2 & <2 MIN / IN,
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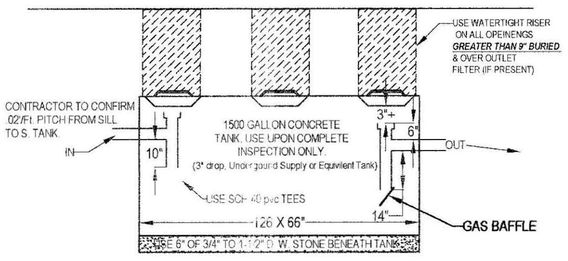
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
17. ENGINEER & TOWN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM= @ (as noted ON PLAN), CONFIRM PROPER PIPE SLOPES
   - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN ILOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR..

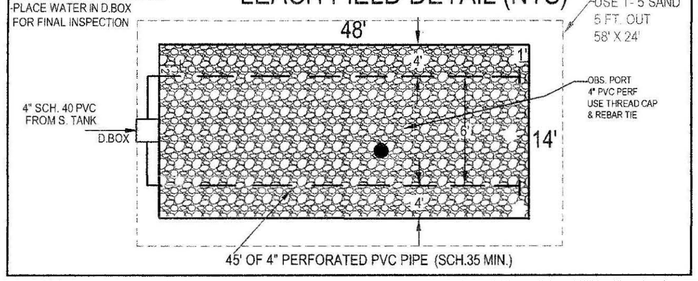
EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
(RAISED DISPOSAL AREA) (2 % SLOPE TOP)
NUMBER OF 4" SDR PVC SEPTIC LINES:2
CENTER TO CENTER SPACING: 6'

TYPICAL NEW SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.



LEACH FIELD DETAIL (NTS)

- USE TEE ON INLET
- RUN SOLID PIPES LEVEL 2' OUT
- PLACE WATER IN D.BOX FOR FINAL INSPECTION



TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

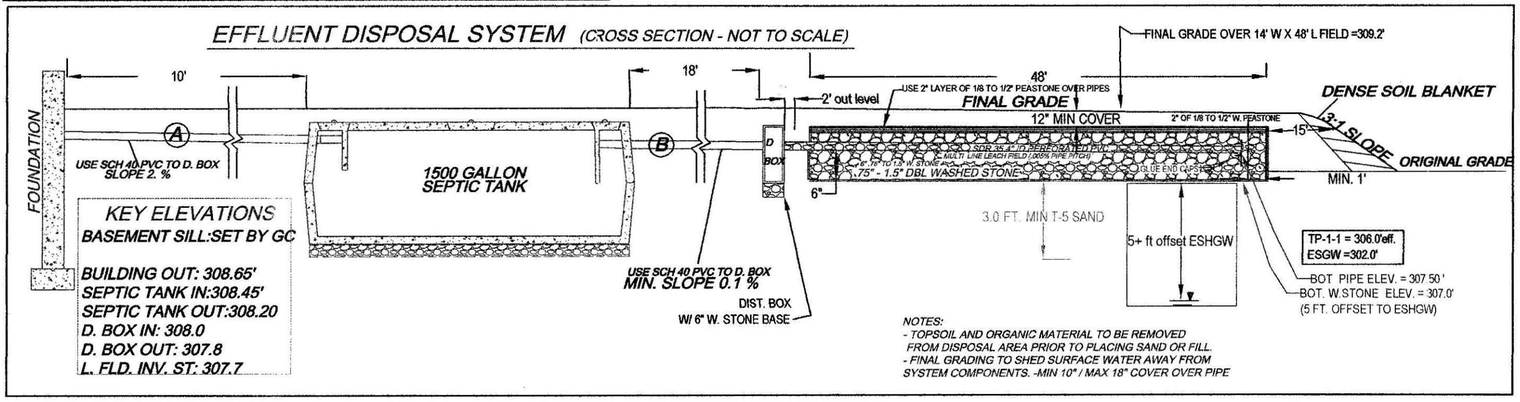
TP-1A EFF. ELEV: 308.0"

DEPTH	HORIZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3.3	FRIABLE
12-24"	Bw	LS	10YR 4.6	FRIABLE
24-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED
				LAYERED, BEDDED
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

TP-2A EFF. ELEV:

DEPTH	HORIZ	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3.3	FRIABLE
12-28"	Bw	SL	10 YR 4.6	HARD MASSIVE
28-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED
OXIDES:			50"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			50"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120" +	

EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS
BASEMENT SILL:SET BY GC
BUILDING OUT: 308.65'
SEPTIC TANK IN:308.45'
SEPTIC TANK OUT:308.20
D. BOX IN: 308.0
D. BOX OUT: 307.8
L. FLD. INV. ST: 307.7

NOTES:
- *TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.*
- *FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE*

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

NOTE: *INSTALLER MUST CONTACT ENGINEER/BD 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.*

NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PUROPSES ONLY!

COMMONWEALTH OF MASSACHUSETTS — ALAN E. WEISS 16633 — REGISTERED SANITARIAN

SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWEISS@charter.net

REVISED

DATE:	DRAWN BY:	REVISED:
07.08.2011	ALAN WEISS	09.16.2011
SCALE: 1"=30'		DRAWING NUMBER: 110-3526-0325

No. 12-03

FEE $150 — PMS check #1002

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct(X) Repair( ) Upgrade( ) Abandon( ) - ☐ **Complete System** ☐ **Individual Components**

Location	Montague RD.	Owner's Name	Carmine Capua.
Map/Parcel#	2A 33+35	Address	31 Hillcrest Circle, Westfield
Lot#	~~A~~ 33+35	Telephone#	413-531-5144
Installer's Name	TBD	Designer's Name	Alan Weiss, RS
Address		Address	Belchertown, MA. 01007
Telephone#		Telephone#	413-323-5957

Type of Building Residence Lot Size 127,287 +/- (2.92 Acre +/-) sq. ft.

Dwelling - No. of Bedrooms 4 Bedroom. Garbage grinder (W/O)

Other - Type of Building _____ No. of persons _____ Showers ( ), Cafeteria ( )

Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 440 Design flow provided 497 gpd

Plan: Date 7/8/2011 Number of sheets 1 Revision Date _____

Title Septic System Design for Carmine Capua.

Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator _____ Date of Evaluation 3/25/2010

DESCRIPTION OF REPAIRS OR ALTERATIONS Complete new SAS.

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed _____ Date _____

Inspections _____

No. 12-03 FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, *MA.*

CERTIFICATE OF COMPLIANCE

Description of Work: ☐ **Individual Component(s)** ☐ **Complete System**

The undersigned hereby certify that the Sewage Disposal System; Constructed ( ), Repaired ( ), Upgraded ( ), Abandoned ( )

by: _____

at _____

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. _____, dated _____. Approved Design Flow _____(gpd)

Installer _____

Designer: _____ Inspector: _____ Date: _____

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. 12-03 FEE $150

COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, *MA.*

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct(X) Repair( ) Upgrade( ) Abandon( ) an individual sewage disposal system at MAP 2A, LOT 33+35 MONTAGUE ROAD, AMHERST MA as described in the application for Disposal System Construction Permit No. _____, dated _____.

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestown, MA

Date _____ Board of Health _____

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

ALAN E. WEISS, M.S., L.S.P.
Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

•Subsurface Investigations
•21E Site Investigations
•Pollution Remediation
•Percolation Tests and Septic Designs

350 Old Enfield Rd.
Belchertown, MA 01007
(413) 323-5957 & 323-4916 (FAX)

Date: 3/2010

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A Weiss Date: 3/25/2010
Witnessed By: G. Courtmanche

Location Address or Lot #	Owner's Name, Address, and Telephone #
LOT 2A-33 Montague RD., N. Amherst.	Pirog LOT c/o Sharon Riley DAVE Pirog. 1760 Westfield Rd LOT 49 Chicopee, MA 01020
New Construction ☑ Repair ☐	

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published Publication Scale Soil Map Unit

Drainage Class Soil Limitations

Surficial Geologic Report Available: No ☑ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range :Above Normal ☐ Normal ☑ Below Normal ☐

Other References Reviewed: _____

2A-33, 2A-35

Location Address or Lot No. Montague RD (300' South Leverett Line EAST Side)

On-site Review

Deep Hole Number 1→ Date: 3/25/2010 Time: 9:00 Weather Sun. 40.

Location (identify on site plan) _____

Land Use Road Slope (%) 2-3 Surface Stones Few

Vegetation _____

Landform Terraced

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100 ± feet Drainage way _____ feet

* Possible Wet Area 100'+/- feet Property Line _____ feet

Drinking Water Well _____ feet Other _____

(Main Street (Route 63))

* File RDA FOR Site Development (Recommended)

DEEP OBSERVATION HOLE LOG*

	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1A	0-12"	Ap	FSL	10YR 3/3		-Friable
	12-24"	Bw	LS	10YR 4/6	48"	-Friable, F sady
	24"-120"	C	S	10YR 5/3	7.5YR 5/8 2.5Y 4/1	C SAND, well sorted, Layers
#2A	0-12"	Ap	FSL	10YR 3/3		-Friable
	12"-28	Bw	LS	10YR 4/6		-Friable
	28"-120"	C	S	10YR 5/3	50" 7.5YR 5/8 2.5Y 4/1	-C. SAND, well sorted, Layers.
1B	0-12"	A	FSL	10YR 3/3		-Friable
	12"-26"	Bw	LS	10YR 4/6	48"	-Friable
	26"-120"	C	S	10YR 5/3	2.5Y 4/1	-Well Sorted, C. SAND.
2B	0-12"	A	FSL	10YR 3/3		-Friable
	12"-26"	Bw	LS	10YR 4/6	48"	-Friable
	26"-120"	C	S	10YR 5/3	2.5Y 4/1	-Well Sorted. C. Sand.

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 120"+

Depth to Groundwater: Standing Water in the Hole: 100" +/- Weeping from Pit Face: 62-72

Estimated Seasonal High Ground Water: 48-50"

FORM 12 - PERCOLATION TEST

Location Address or Lot No. Heritage Rd

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 3/25/2010	Time: 8:30	
Observation Hole #	44" P1	P2
Depth of Perc	44"	40"
Start Pre-soak	8:37	8:57
End Pre-soak	8:52	9:12
Time at 12"	8:52	9:12
Time at 9"	8:55	9:15
Time at 6"	8:58	9:18
Time (9"-6")	3 min	3 min
Rate Min./Inch	<2	<2

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☒ Site Failed ☐

Performed By: A. Woss

Witnessed By: G Costemandre

Comments: 5ft offset to g.w.

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. 24-33 Matagua Rd

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☒ Depth to soil mottles 48" inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

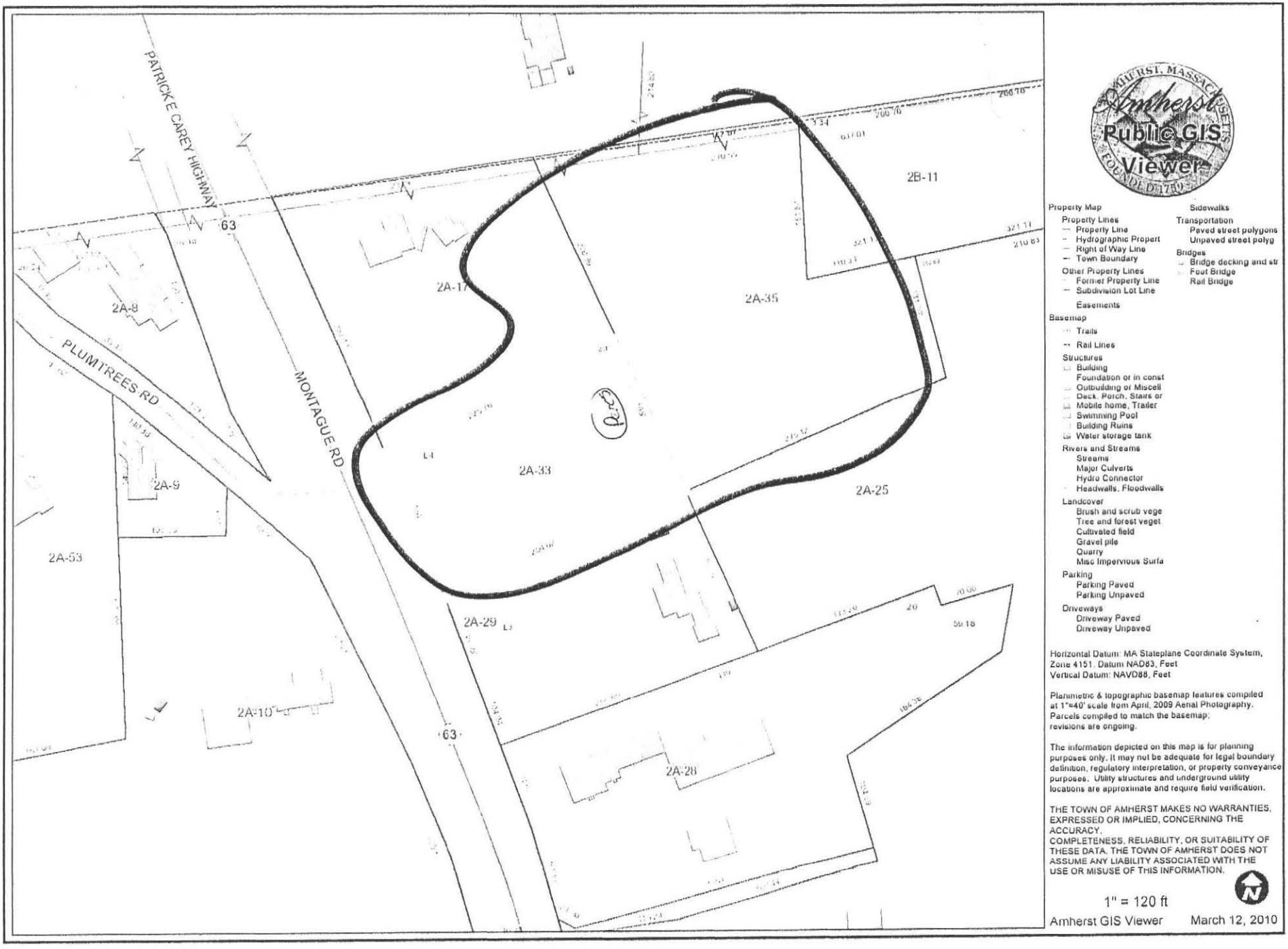
If not, what is the depth of naturally occurring pervious material? —

Certification

I certify that on June 95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature [signature] Date 3/25/200

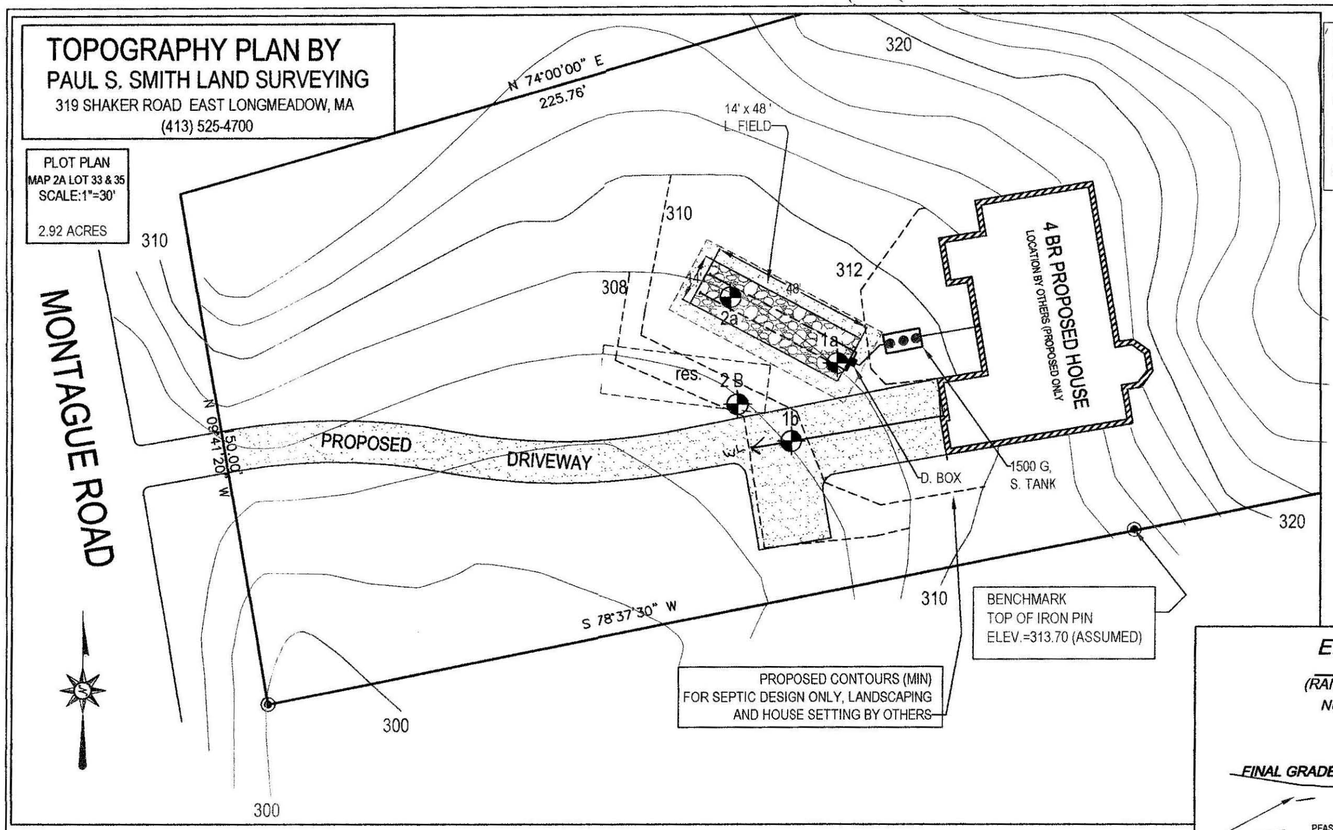
COMMONWEALTH OF MASSACHUSETTS
ALAN C. WEISS
REG. #933
REGISTERED SANITARIAN


PATRICK E CAREY HIGHWAY
63
PLUMTREES RD
MONTAGUE RD
2A-8
2A-9
2A-53
2A-10
2A-17
2A-33
2A-35
2B-11
2A-25
2A-29
2A-28
63
Amherst, Massachusetts
Amherst
Public GIS
Viewer
Property Map
Property Lines
Property Line
Hydrographic Propert
Right of Way Line
Town Boundary
Other Property Lines
Former Property Line
Subdivision Lot Line
Easements
Basemap
Trails
Rail Lines
Structures
Building
Foundation or in const
Outbuilding or Miscell
Deck, Porch, Stairs or
Mobile home, Trailer
Swimming Pool
Building Ruins
Water storage tank
Rivers and Streams
Streams
Major Culverts
Hydro Connector
Headwalls, Floodwalls
Landcover
Brush and scrub vege
Tree and forest veget
Cultivated field
Gravel pile
Quarry
Misc Impervious Surfa
Parking
Parking Paved
Parking Unpaved
Driveways
Driveway Paved
Driveway Unpaved
Sidewalks
Transportation
Paved street polygons
Unpaved street polyg
Bridges
Bridge decking and str
Foot Bridge
Rail Bridge
Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet
Vertical Datum: NAVD88, Feet
Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.
The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.
THE TOWN OF AMHERST MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF AMHERST DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.
N
1" = 120 ft
Amherst GIS Viewer
March 12, 2010

TOPOGRAPHY PLAN BY
PAUL S. SMITH LAND SURVEYING
319 SHAKER ROAD EAST LONGMEADOW, MA
(413) 525-4700

PLOT PLAN
MAP 2A LOT 33 & 35
SCALE:1"=30'

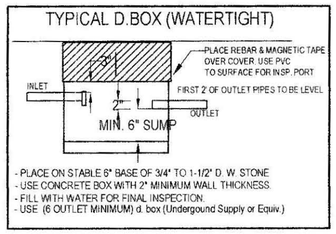
2.92 ACRES



GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

1.) HAVE TANK PUMPED EVERY 2 YEARS.
2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC.
6) All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system in ONE DAY.

TYPICAL D.BOX (WATERTIGHT)



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.*

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-1B

DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3.3	FRIABLE
12-26"	Bw	LS	10YR 4.6	FRIABLE
26-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED
				LAYERED, BEDDED
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			62"	
BEDROCK:			120"+	

TP-2B

DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	A	SL	10 YR 3.3	FRIABLE
12-26"	Bw	SL	10 YR 4.6	HARD MASSIVE
26-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"	
STANDING H2O:			100"	
WEEPING:			72"	
BEDROCK:			120" +	

DESIGN NOTES AND CALCULATIONS:

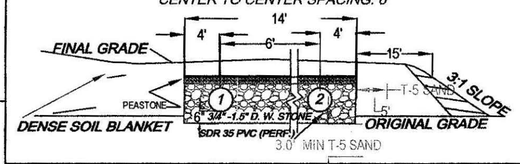
1.) 4 (BEDROOM HOME)+ X 110 GPD /BR = 440 GPD. REQUIRED,

-Use ONE FIELD: 14' WIDE X 48' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT

- BOTTOM AREA: 14' W X 48' L =672 SF.
- SIDE AREA: 10 SF.
- TOTAL AREA: 672 SF X .74 GAL/SF = 497 GPD

3. GARBAGE DISPOSAL NOT ALLOWED, ***.... NO FURNACE/AC CONNECTIONS ALLOWED.
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS. (TOWN WATER)
5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS
6. USE NEW 1,500 GAL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),
   NOTE:
   - ALL COMPONENITS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLIE (6 OUTLET) D.BOX ONLY.
7A ALL D. BOX OUTILET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
   NOTE:
   - D. BOXES WITH IMORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
8. USE APPROVED (..75"-1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
   -CONFIRM STONIE PROPERLY DOUBLE WASHED PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
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 TOP AND SUB TO 28" MIN. AS NEEDED (INSPECTION REQUIRED).
   - CLEAR PAST BASE OF B (MIN. 28") & SCARIFY UNDER BED PRIOR TO TITLE 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. (G. COURTEMANCHE, BOH AGENT).
   - DEPTH OF PERC. 40 & 44"
   - PERC RATE = <2 & <2 MIN / IN,
   - CLASS 1 SOIL RATING, SAND.
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
17. ENGINEER & TOWN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM= @ (as noted ON PLAN), CONFIRM PROPER PIPE SLOPES
   - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR..

EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
(RAISED DISPOSAL AREA) (2 % SLOPE TOP)
NUMBER OF 4" SDR PVC SEPTIC LINES:2
CENTER TO CENTER SPACING: 6'



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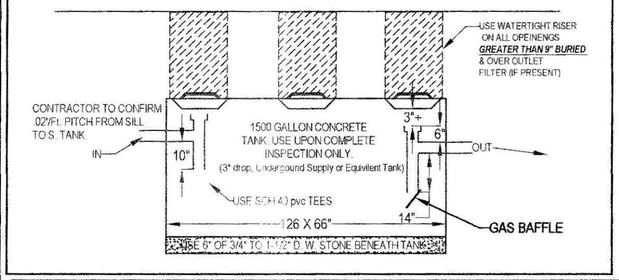

LEACH FIELD DETAIL (NTS)

-USE TEE ON INLET
-RUN SOLID PIPES LEVEL 2' OUT
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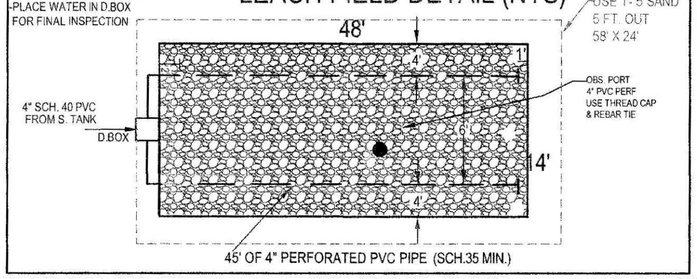

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-1A EFF. ELEV: 308\.0'

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TP-2A EFF. ELEV

DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL
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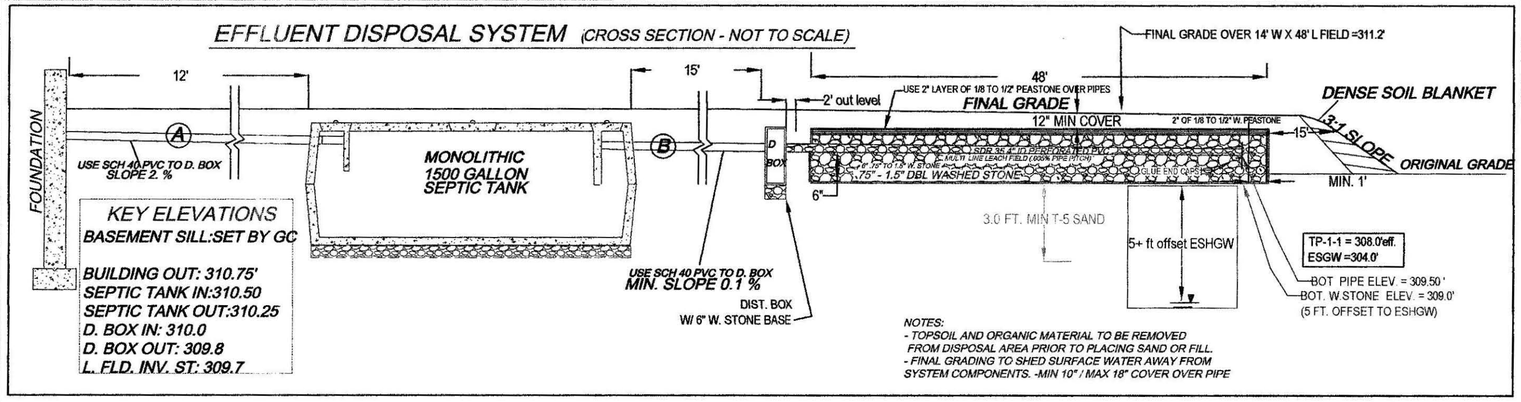
EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS
BASEMENT SILL:SET BY GC

BUILDING OUT: 310.75'
SEPTIC TANK IN:310.50
SEPTIC TANK OUT:310.25
D. BOX IN: 310.0
D. BOX OUT: 309.8
L. FLD. INV. ST: 309.7

NOTES:
- *TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.*
- *FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE*

SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWEISS@charter.net

COMMONWEALTH OF MASSACHUSETTS — ALAN E. WEISS #23 — REGISTERED SANITARIAN

DATE:	DRAWN BY:	REVISED:
07.08.2011	ALAN WEISS	
SCALE: 1"=30'		DRAWING NUMBER: 110-3526-0325

ATTENTION INSTALLER!!
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 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/BD 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.*

NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PUROPSES ONLY!

1002

C & M BUILDERS LLC
72 PROSPECT HILLS DRIVE
EAST LONGMEADOW, MA 01028

United Bank
53-7202-2118

EZShield™ Check Fraud Protection for Business

7/21/11

PAY TO THE ORDER OF Town of Amherst $150.00

One Hundred Fifty 00/100 DOLLARS

Security features. Details on back.

MEMO Health Dept

AUTHORIZED SIGNATURE

⑈001002⑈ ⑆211872027⑆ 78000236 8⑈

2A 33+35

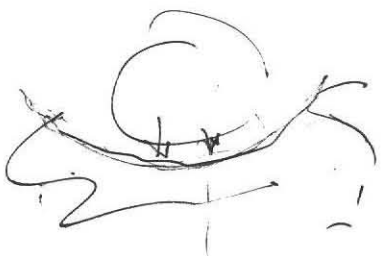
Plan: MONTAGUE ROAD Designed by: ALAN WEISS, RS

CHECK LIST FOR SEPTIC PLANS

- [✓] Application page attached to plan
- [✓] PE or RS stamp, date, signature
- [NA] Variances to property line setback distances must have Surveyor Stamp 15.020.(3)
- [✓] Legal boundaries noted
- [✓] Easements noted
- [✓] Dwellings and buildings existing or proposed noted
- [✓] Location of driveway or parking areas, other impervious areas
- [✓] Location and dimensions of reserve area (new) CMR 15.248(1); 15.104(4)
- [✓] System design calculations
- [✓] Garbage grinder Y or (N)
- [✓] Benchmark not disturbed during construction, within 75 feet of facility CMR15.220 (4)(q)
- [✓] North arrow CMR 15.200 (4) (g)
- [✓] Contours
- [✓] Deep hole location and data
- [✓] Perc hole location and data
- [✓] Elevations
- [✓] Names of approving authority and soil evaluator CMR 15.211 p. 49
- [✓] Location of every water supply, public and private CMR 15.220(k):
  - Within 400 feet of system in case of surface water and gravel packed public water supply
  - Within 250 feet of system in case of tubular public water supply
  - Within 150 feet of private supply wells 100' septic sys.; 50' tank
- [NA] **Well statement if applicable**
- [✓] Location of any surface waters, rivers, vegetated wetlands
- [✓] Location of water lines and other subsurface utilities
- [✓] Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
- [✓] Profile of system
- [✓] Locus plan to show location of facility, including nearest street
- [✓] Materials of construction and specs for system
- [✓] Gas Baffle 15.227.4
- [✓] Pipe in center line of tank 310 CMR 15.227, 15.06(8)
- [✓] Double washed stone
- [✓] Schedule 40 PVC for trafficked areas, house to tank
- [✓] Distances noted from house to tank, etc.
- [NA] If dosing is proposed, design and specs of dosing system
- [NA] When alternative technology is required, complete plan and specs, including hydraulic profile
- [✓] Trenches preferred over beds CMR 15.240 (6) JUSTIFIED
- [NA] Buoyancy calculations for tanks or components partly below H20 table 15.221(8) p. 56
- [✓] 3 to 1 slope outside of mound, toe ending 5 feet from property line
- [NA] Local upgrade requests on the plan
- [NA] Local upgrade forms attached to application
- [NA] Note on plan listing all variances sought in conjunction with the plan

NOTES: Edmund K Smith 7.27.2011

07/27/11



COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

ALAN E. WEISS, M.S., L.S.P.
Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

•Subsurface Investigations
•21E Site Investigations
•Pollution Remediation
•Percolation Tests and Septic Designs

350 Old Enfield Rd.
Belchertown, MA 01007
(413) 323-5957 & 323-4916 (FAX)

Date: 3/2010

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A Weiss Date: 3/25/2010
Witnessed By: G. Courtmanche

Location Address or Lot # LOT 2A-33 Montague RD., N. Amherst. New Construction ☑ Repair ☐	Owner's Name, Address, and Telephone # Pirog LOT DAVE Pirog. 1760 Westfield RD LOT 49 Chicopee, MA 01020 c/o Sharon Riley

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published Publication Scale Soil Map Unit

Drainage Class Soil Limitations

Surficial Geologic Report Available: No ☑ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range: Above Normal ☑ Normal ☐ Below Normal ☐

Other References Reviewed: _____

2A-33, 2A-35

Location Address or Lot No. Montague RD (300' South Leverett Line EAST SIDE)

On-site Review

Deep Hole Number 1→ Date: 3/25/2010 Time: 9:00 Weather Sun. 40..

Location (identify on site plan) _____

Land Use Resid Slope (%) 2-3 Surface Stones Few

Vegetation _____

Landform Terraced

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100 ± feet Drainage way _____ feet

New Street (Cul-de-sac) * Possible Wet Area 100'+/- feet Property Line _____ feet

Drinking Water Well _____ feet Other _____

* File RDA For Site Development (Recommended)

DEEP OBSERVATION HOLE LOG*

	Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1A	0-12"	Ap	FSL	10YR 3/3		-Friable
	12-24"	Bw	LS	10YR 4/6	48"	-Friable, F sandy
	24"-120"	C	S	10YR 5/8	7.5YR 5/8 2.5Y 4/1	C SAND, well Sorted, Layers
#2A	0-12"	Ap	FSL	10YR 3/3		-friable
	12"-28"	Bw	LS	10YR 4/6		-friable
	28"-120"	C	S	10YR 5/3	50" 7.5YR 5/8 2.5Y 4/1	-C SAND, well Sorted, Layers.
1B	0-12"	A	FSL	10YR 3/3		-Friable
	12"-26"	Bw	LS	10YR 4/6		-Friable
	26"-120"	C	S	10YR 5/3	48" 2.5Y 4/1	-Well Sorted, C. SAND.
2B	0-12"	A	FSL	10YR 3/3		-Friable
	12"-26"	Bw	LS	10YR 4/6		-Friable
	26"-120"	C	S	10YR 5/3	48" 2.5Y 4/1	-Well Sorted. C. Sand.

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 120"+

Depth to Groundwater: Standing Water in the Hole: 100" +/- Weeping from Pit Face: 62-72

Estimated Seasonal High Ground Water: 48-50"

FORM 12 - PERCOLATION TEST

Location Address or Lot No. Montague Rd

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 3/25/2010	Time: 8:30	
Observation Hole #	44" P1	P2
Depth of Perc	44"	40"
Start Pre-soak	8:37	8:57
End Pre-soak	8:52	9:12
Time at 12"	8:52	9:12
Time at 9"	8:55	9:15
Time at 6"	8:58	9:18
Time (9"-6")	3 min	3 min
Rate Min./Inch	<2	<2

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☒ Site Failed ☐

Performed By: A. Woss

Witnessed By: G Castemandre

Comments: 5ft offset to g.w.

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. 24-33 Mataque Rd

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☒ Depth to soil mottles 48" inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

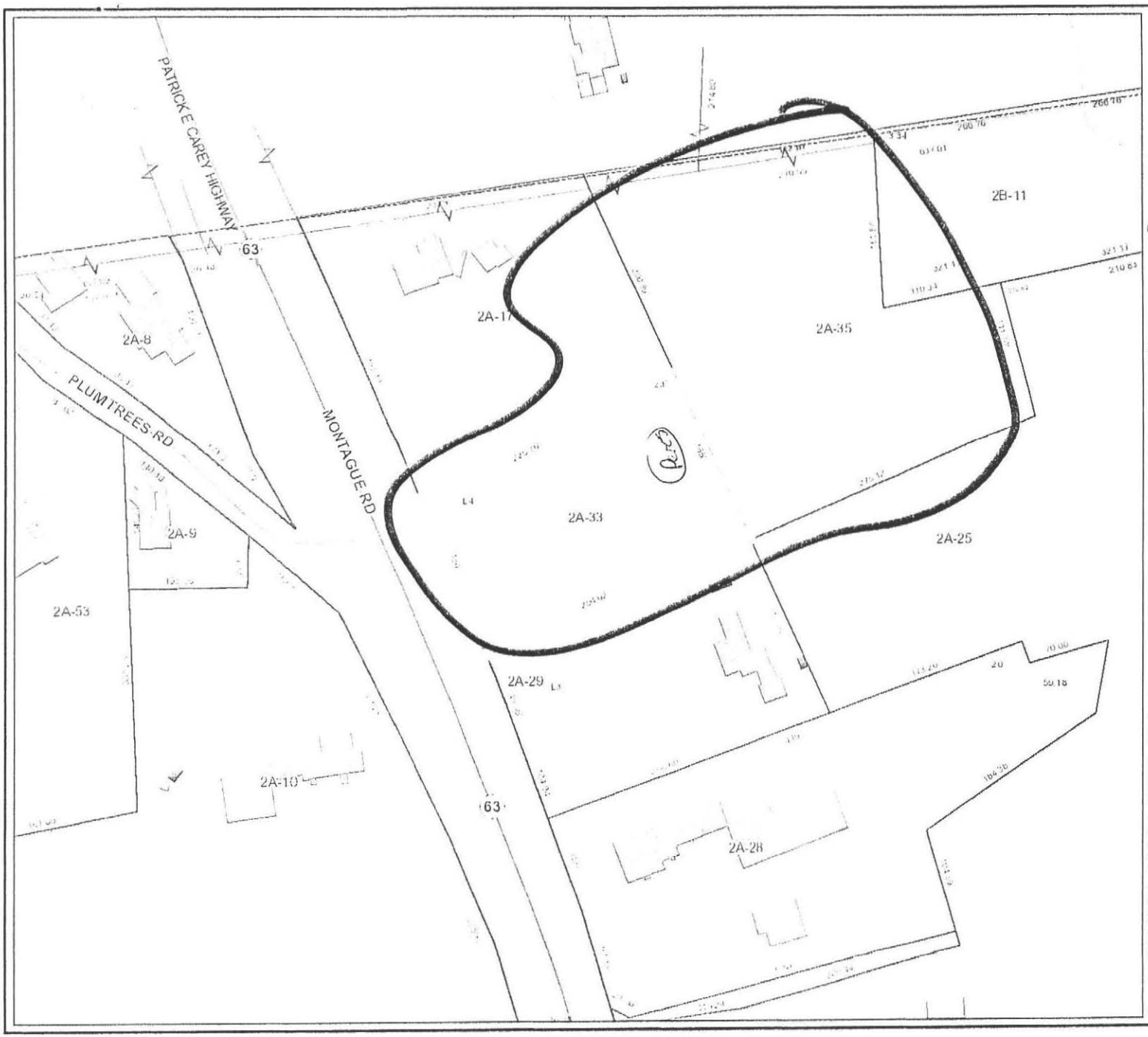
If not, what is the depth of naturally occurring pervious material? —

Certification

I certify that on June 95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature [signature] Date 8/25/2000

COMMONWEALTH OF MASSACHUSETTS
ALAN C. WEISS
REG. #933
REGISTERED SANITARIAN



AMHERST, MASSACHUSETTS
Amherst
Public GIS
Viewer
FOUNDED 1759

Property Map
Property Lines
Property Line
Hydrographic Propert
Right of Way Line
Town Boundary
Other Property Lines
Former Property Line
Subdivision Lot Line
Easements
Basemap
Trails
Rail Lines
Structures
Building
Foundation or in const
Outbuilding or Miscell
Deck, Porch, Stairs or
Mobile home, Trailer
Swimming Pool
Building Ruins
Water storage tank
Rivers and Streams
Streams
Major Culverts
Hydro Connector
Headwalls, Floodwalls
Landcover
Brush and scrub vege
Tree and forest veget
Cultivated field
Gravel pile
Quarry
Misc Impervious Surfa
Parking
Parking Paved
Parking Unpaved
Driveways
Driveway Paved
Driveway Unpaved
Sidewalks
Transportation
Paved street polygons
Unpaved street polyg
Bridges
Bridge decking and str
Foot Bridge
Rail Bridge

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151. Datum NAD83, Feet
Vertical Datum: NAVD88, Feet

Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

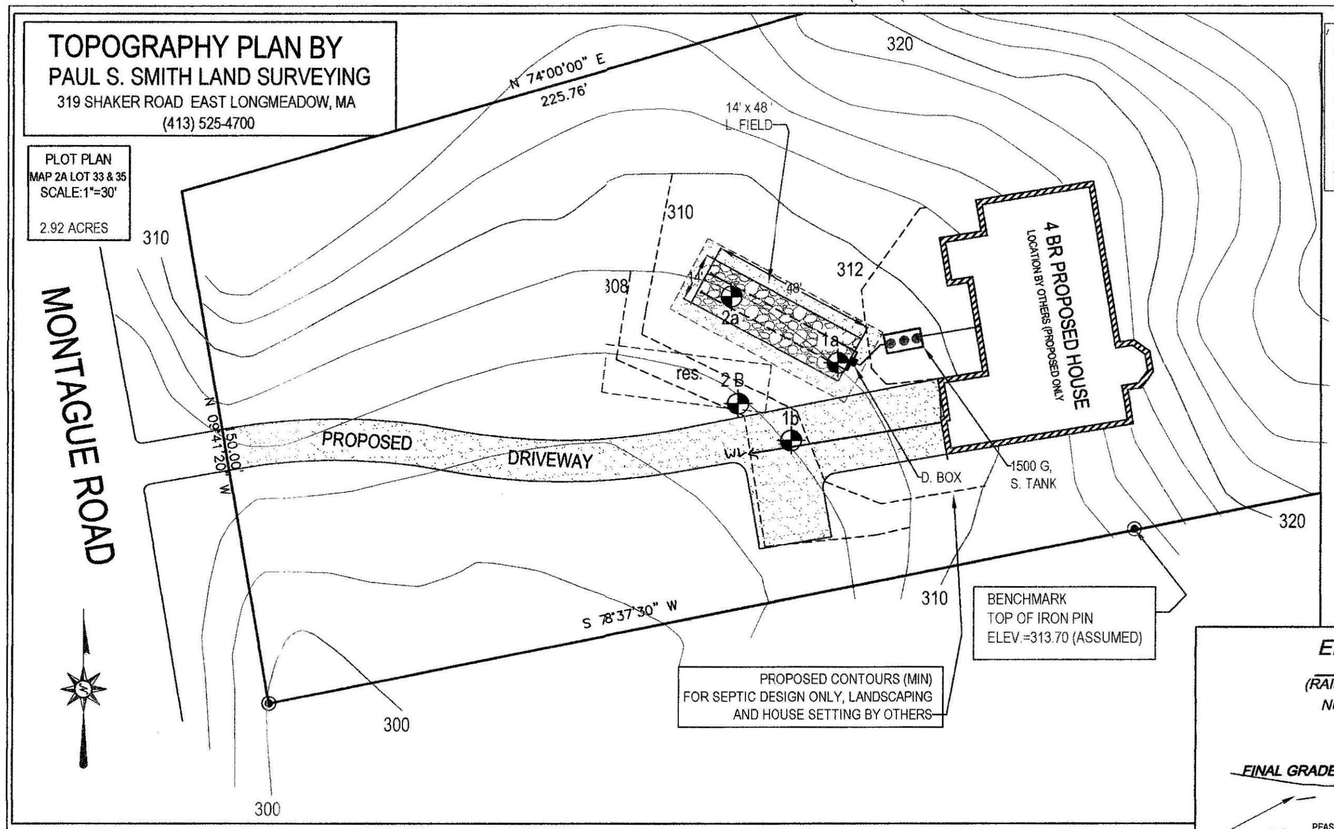
1" = 120 ft

Amherst GIS Viewer March 12, 2010

TOPOGRAPHY PLAN BY
PAUL S. SMITH LAND SURVEYING
319 SHAKER ROAD EAST LONGMEADOW, MA
(413) 525-4700

PLOT PLAN
MAP 2A LOT 33 & 35
SCALE:1"=30'

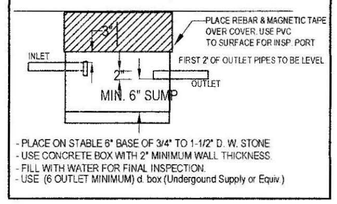
2.92 ACRES



GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

1.) HAVE TANK PUMPED EVERY 2 YEARS.
2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC.
6) All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system in ONE DAY

TYPICAL D.BOX (WATERTIGHT)



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.*

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-1B					TP-2B				
DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL	DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3.3	FRIABLE	0-12"	A	SL	10 YR 3.3	FRIABLE
12-26"	Bw	LS	10YR 4.6	FRIABLE	12-26"	Bw	SL	10 YR 4.6	HARD MASSIVE
26-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED	26-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED
				LAYERED, BEDDED					
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1	OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"		EHWT:			48"	
STANDING H2O:			100"		STANDING H2O:			100"	
WEEPING:			62"		WEEPING:			72"	
BEDROCK:			120"+		BEDROCK:			120" +	

DESIGN NOTIES AND CALCULATIONS:

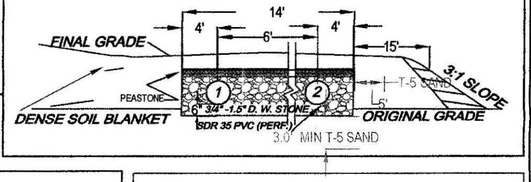
1.) 4 (BEDROOM HOME)+ X 110 GPD /BR = 440 GPD. REQUIRED,

-Use ONE FIELD: 14' WIDE X 48' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT

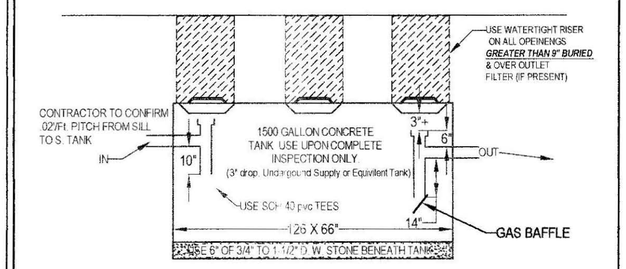
- BOTTOM AREA: 14' W X 48' L =672 SF.
- SIDE AREA: 0 SF.
- TOTAL AREA:: 672 SF X .74 GAL/SF = 497 GPD

3. **GARBAGE DISPOSAL NOT ALLOWED, ***....** NO FURNACE/AC CONNECTIONS ALLOWED.
4. NO OTHER PRIVATTE WELLS WITHIN 150 FEET OF SAS. (TOWN WATER)
5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS
6. USE NEW 1,500 GAIL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),
   NOTE:
   - ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.
7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
   NOTE:
   - D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
8. USE APPROVED (.7'5"-1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
   -CONFIRM STONE: PROPERLY DOUBLE WASHED PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
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 TOP AND SUB TO 28" MIN. AS NEEDED (INSPECTION REQUIRED).
   - CLEAR PAST BASSE OF B (MIN. 28") & SCARIFY UNDER BED PRIOR TO TITLE V SAND PLACEMENT.
   - EXCAVATE EXISTTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
15. SOIL EVALUATIONI BY A. WEISS, RS. (G. COURTEMANCHE, BOH AGENT).
   - DEPTH OF PERC: 40 & 44"
   - PERC RATE = <2 & <2 MIN / IN,
   - CLASS 1 SOIL RATING, SAND.
16. NO TREES WITHIIN 10 FT. OF NEW LEACH FIELD.
17. ENGINEER & TOWIN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM= @ (as noted O)N PLAN), CONFIRM PROPER PIPE SLOPES
   - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN ILOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATIOIN PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR..

EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
(RAISED DISPOSAL AREA) (2 % SLOPE TOP)
NUMBER OF 4" SDR PVC SEPTIC LINES:2
CENTER TO CENTER SPACING: 6'

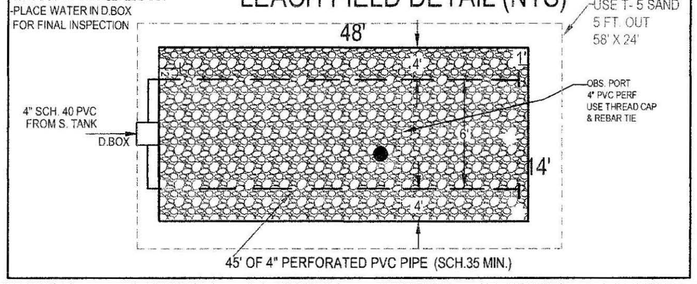


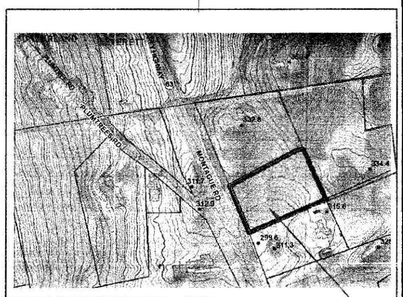
TYPICAL NEW SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.



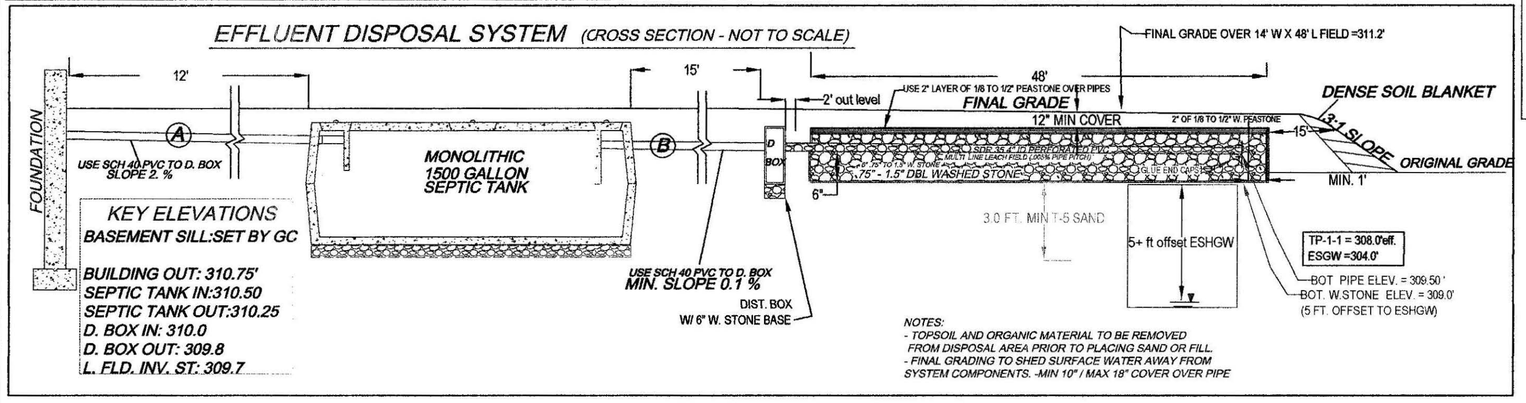
-USE TEE ON INLET
-RUN SOLID PIPES LEVEL 2' OUT
-PLACE WATER IN D.BOX FOR FINAL INSPECTION

LEACH FIELD DETAIL (NTS)





EFFLUENT DISPOSAL SYSTEM *(CROSS SECTION - NOT TO SCALE)*



KEY ELEVATIONS
BASEMENT SILL:SET BY GC

BUILDING OUT: 310.75'
SEPTIC TANK IN:310.50
SEPTIC TANK OUT:310.25
D. BOX IN: 310.0
D. BOX OUT: 309.8
L. FLD. INV. ST: 309.7

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SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 03.25.2010

TP-1A EFF. ELEV: 308.0"					TP-2A EFF. ELEV:				
DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL	DEPTH	HORIZ.	TEXTURE	COLOR (MUNSELL)	MATERIAL
0-12"	Ap	FSL	10 YR 3.3	FRIABLE	0-12"	A	SL	10 YR 3.3	FRIABLE
12-24"	Bw	LS	10YR 4.6	FRIABLE	12-28"	Bw	SL	10 YR 4.6	HARD MASSIVE
24-120"	C1	S	2.5Y 6.2	C. SAND WELL SORTED	28-120"	C1	S	10 YR 5.3	C. SAND WELL SORTED
				LAYERED, BEDDED					
OXIDES:			48"	7.5 YR 5.8,2.5 Y 4.1	OXIDES:			50"	7.5 YR 5.8,2.5 Y 4.1
EHWT:			48"		EHWT:			50"	
STANDING H2O:			100"		STANDING H2O:			100"	
WEEPING:			62"		WEEPING:			72"	
BEDROCK:			120"+		BEDROCK:			120" +	

SEPTIC SYSTEM REPAIR PLAN FOR CARMINE CAPUA
MAP 2A, LOT 33 AND 35 MONTAGUE ROAD
AMHERST, MA

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DATE:	DRAWN BY:	REVISED:
07.08.2011	ALAN WEISS	
SCALE: 1"=30'		DRAWING NUMBER: 110-3526-0325

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NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PUROPSES ONLY!

COMMONWEALTH OF MASSACHUSETTS — ALAN E. WEISS 6033 — REGISTERED SANITARIAN

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

ALAN E. WEISS, M.S., L.S.P.
Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

•Subsurface Investigations
•21E Site Investigations
•Pollution Remediation
•Percolation Tests and Septic Designs

350 Old Enfield Rd.
Belchertown, MA 01007
(413) 323-5957 & 323-4916 (FAX)

Date: 3/2010

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A Weiss Date: 3/25/2010
Witnessed By: G. Courtmanche c/o Sharon Riley

Location Address or Lot #	Owner's Name, Address, and Telephone #
LOT 2A-33 Montague RD., N. Amherst.	Pirag LOT DAVE Pirag. 1760 Westfield RD LOT 49 Chicopee, MA 01020
New Construction ☑ Repair ☐	

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published Publication Scale Soil Map Unit

Drainage Class Soil Limitations

Surficial Geologic Report Available: No ☑ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range: Above Normal ☑ Normal ☐ Below Normal ☐

Other References Reviewed: _____

2A-33, 2A-35

Location Address or Lot No. Montague RD (300' South Leverett Line EAST SIDE)

On-site Review

Deep Hole Number 1→ Date: 3/25/2010 Time: 9:00 Weather Sun 40

Location (identify on site plan)

Land Use Resid Slope (%) 2-3 Surface Stones Few

Vegetation

Landform Terraced.

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100 ± feet Drainage way ____ feet

near Street (culvert) * Possible Wet Area 100'+/- feet Property Line ____ feet

Drinking Water Well ____ feet Other

* File RDA for Site Development (Recommended)

DEEP OBSERVATION HOLE LOG*

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1A 0-12"	Ap	FSL	10YR 3/3		-friable
12-24"	Bw	LS	10YR 4/6	48"	-friable, F sandy
24"-120"	C.	S	10YR 5/3	7.5YR 5/8 2.5Y 4/1	C SAND, well sorted, Layered
#2 0-12"	Ap	FSL	10YR 3/3		-friable
12"-28	Bw	LS	10YR 4/6		-friable.
28"-120"	C.	S	10YR 5/3	50" 7.5YR 5/8 2.5Y 4/1	-C SAND, well sorted, Layered.
1B 0-12"	A	FSL	10YR 3/3		-Friable
12"-26"	Bw	LS	10YR 4/6		-Friable
26"-120"	C	S	10YR 5/3	48" 2.5Y 4/1	-Well Sorted, C. SAND.
2B 0-12"	A	FSL	10YR 3/3		-Friable
12"-26"	Bw	LS	10YR 4/6		-Friable
26"-120"	C	S	10YR 5/3	48" 2.5Y 4/1	-Well Sorted. C. Sand

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTwash Depth to Bedrock: 120"+

Depth to Groundwater: Standing Water in the Hole: 100" +/- Weeping from Pit Face: 42-72

Estimated Seasonal High Ground Water: 48-50"

Location Address or Lot No. Montague Rd

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*

Date: 3/25/2010 Time: 8:30

Observation Hole #	~~44~~ P1	P2
Depth of Perc	44"	40"
Start Pre-soak	8:37	8:57
End Pre-soak	8:52	9:12
Time at 12"	8:52	9:12
Time at 9"	8:55	9:15
Time at 6"	8:58	9:18
Time (9"-6")	3 min	3 min
Rate Min./Inch	<2	<2

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☒ Site Failed ☐

Performed By: A. Wess

Witnessed By: G Castemanche

Comments: 5ft offset to g.w.

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. 24-33
Mantague Rd

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☒ Depth to soil mottles 48" inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

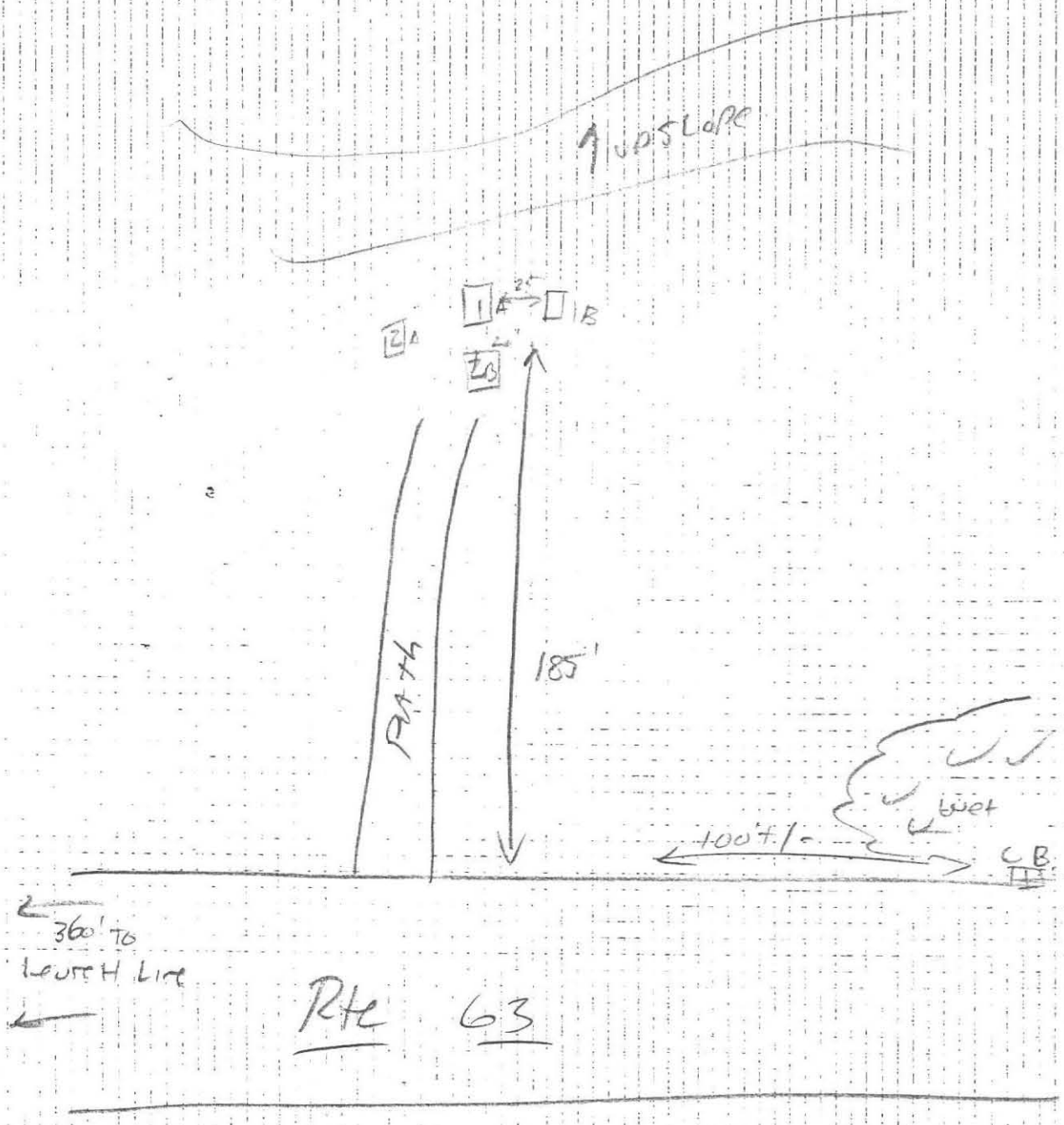
If not, what is the depth of naturally occurring pervious material? —

Certification

I certify that on June, 95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature [signature] Date 8/25/200

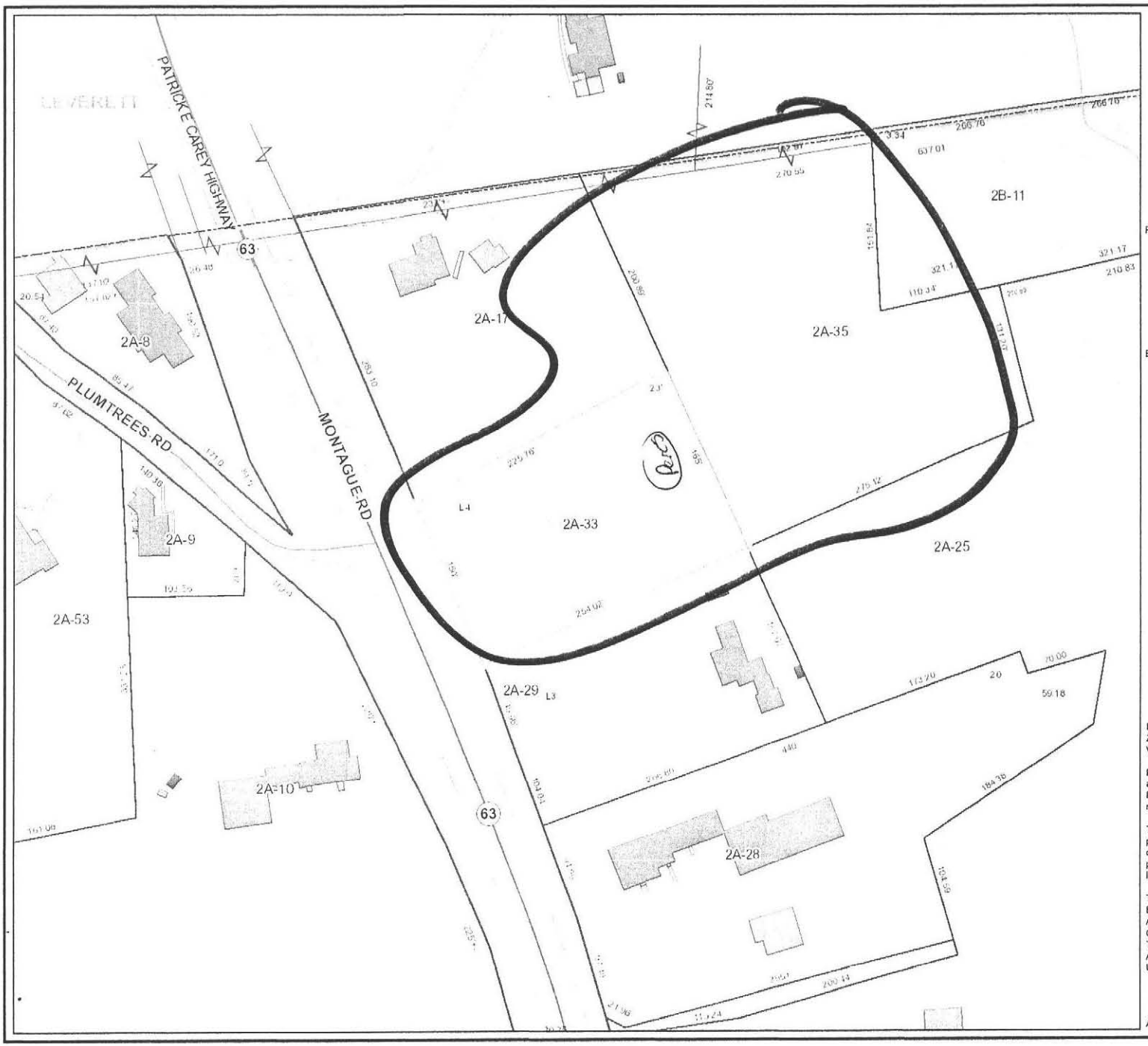
COMMONWEALTH OF MASSACHUSETTS
ALAN C. WEISS
REG. #933
REGISTERED SANITARIAN



fax: 413-323-4916

COLD SPRING
ENVIRONMENTAL, INC.
350 OLD ENFIELD RD.
BELCHERTOWN, MA 01007
ALAN E. WEISS, RS #933
ph: 413-323-5957

aeweiss@charter.net



Amherst Public GIS Viewer

Property Map
- Property Lines
  - Property Line
  - Hydrographic Propert
  - Right of Way Line
  - Town Boundary
- Other Property Lines
  - Former Property Line
  - Subdivision Lot Line
- Easements

Basemap
- Trails
- Rail Lines
- Structures
  - Building
  - Foundation or In const
  - Outbuilding or Miscell
  - Deck, Porch, Stairs or
  - Mobile home, Trailer
  - Swimming Pool
  - Building Ruins
  - Water storage tank
- Rivers and Streams
  - Streams
  - Major Culverts
  - Hydro Connector
  - Headwalls, Floodwalls
- Landcover
  - Brush and scrub vege
  - Tree and forest veget
  - Cultivated field
  - Gravel pile
  - Quarry
  - Misc Impervious Surfa
- Parking
  - Parking Paved
  - Parking Unpaved
- Driveways
  - Driveway Paved
  - Driveway Unpaved
- Sidewalks
- Transportation
  - Paved street polygons
  - Unpaved street polyg
- Bridges
  - Bridge decking and str
  - Foot Bridge
  - Rail Bridge

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet
Vertical Datum: NAVD88, Feet

Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

1" = 120 ft

Amherst GIS Viewer March 12, 2010

FORM 12 - PERCOLATION TEST

Location Address or Lot No. 2A - 33 —

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*		
Date: 3/25/10	Time: 8:30 AM.	
Observation Hole #	P1	P2
Depth of Perc	44"	40"
Start Pre-soak	837	857
End Pre-soak	8:~~37~~52	9:12
Time at 12"	8:~~42~~	9:12
Time at 9"	8:55	9:18
Time at 6"	858	921
Time (9"-6")	3	3
Rate Min./Inch	1 min/1"	1 min/1"

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☑ Site Failed ☐

Performed By: Alan Weeks

Witnessed By: Gary Cantemarche

Comments:

DEP APPROVED FORM - 12/07/95

Location Address or Lot No (2A-33-)

On-site Review

Deep Hole Number P1 Date: 3/25 Time: 8:30 Weather Sunny 50°F

Location (identify on site plan)

Land Use Res. Slope (%) 2-3 Surface Stones

Vegetation Wood-d

Landform

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100+ feet Drainage way feet

Possible Wet Area 100+ feet Property Line feet

Drinking Water Well N/A feet Other

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1A 0-12	Ap	FSC	10YR 3/3		Friable
12-24	BW	LS	10YR 4/6	48"	
24-120	C	S	10YR 5/8 2.5Y 4/1	7.5YR 5/8	C Sand, well sorted
#2A 0-12	Ap	FSC	10YR 3/3	48"	Friable
12-28	BW	LS	10YR 4/6 10YR 5/3	7.5YR 5/8	
28-120	C	S	2.5Y 4/1		C Sand
1B 0-12	Ap	FSC	Same	48"	
12-26	BW	LS			
26-120	C	S			
2B	Same				

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Out wash Depth to Bedrock: N/A 120"

Depth to Groundwater: Standing Water in the Hole: 100" Weeping from Pit Face: 62

Estimated Seasonal High Ground Water: 48"