

LOT NUMBER	2A	2A	2B	2B	2B
TEST HOLE #	A	B	C	D	E
TESTING DATE:	04-8-13	04-8-13	06-08-06	06-08-06	06-08-06
TESTER:	ZAP	ZAP	LM	LM	LM
DEEP TEST SOIL LOG (NO WATER OR ROCK UNLESS SO NOTED)	0' TOPSOIL	0' TOPSOIL	0' TOPSOIL	0' TOPSOIL	0' TOPSOIL
	1' BROWN SILT LOAM	1' BROWN SILT LOAM	2' SILT LOAM	1' SILT LOAM	2' SILT LOAM
	2' BROWN SILT LOAM	2' BROWN SILT LOAM	3' SAND & GRAVEL	2' SILT LOAM	2' SILT LOAM
	3' SANDY SILT LOAM	3' SANDY SILT LOAM	3' SAND & GRAVEL	3' SAND & GRAVEL	3' SAND & GRAVEL
	4' SANDY SILT LOAM	4' SANDY SILT LOAM	4' SAND & GRAVEL	4' SAND & GRAVEL	4' SAND & GRAVEL
	5' SANDY SILT LOAM	5' SANDY SILT LOAM	5' SAND & GRAVEL	5' SAND & GRAVEL	5' SAND & GRAVEL
	6' SANDY SILT LOAM	6' SANDY SILT LOAM	6' SAND & GRAVEL	6' SAND & GRAVEL	6' SAND & GRAVEL
NOTES:	KWEPT @ 63"				
	K+WATER @ 60"				
	MOTTLING @ 60"				

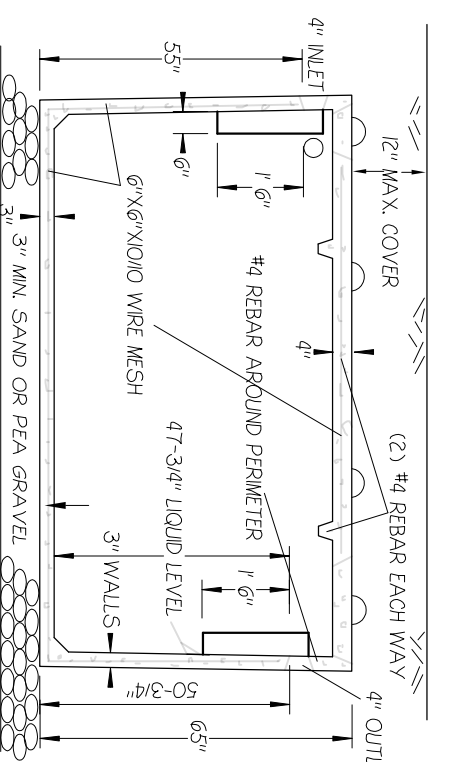
DEEP SOILS TESTING RESULTS

LOT NUMBER	2A	2A	2B	2B
TESTING DATE:	04-8-13	04-8-13	02-04-03	02-04-03
DEPTH / TESTER:	24" - RZ	24" - RZ	24" - SL	24" - SL
RUN 1	2:44	5:51	1:40	3:00
ELAPSED TIME:	3:37	8:01	2:20	6:30
RUN 2	3:56	9:35	3:00	8:00
ELAPSED TIME:	4:04	1:43	3:00	8:00
RUN 3		12:19		
ELAPSED TIME:				
RUN 4				
ELAPSED TIME:				
RUN 5				
ELAPSED TIME:				
RUN 6				
ELAPSED TIME:				
RUN 7				
ELAPSED TIME:				
STABILIZED RATE:	4:04	12:19	3:00	8:00

PERCOLATION TESTING RESULTS

PERCOLATION TEST RESULTS
(ALL TESTING COMPLETED WITH A STOPWATCH & ELAPSED TIMES ARE IN MINUTES)

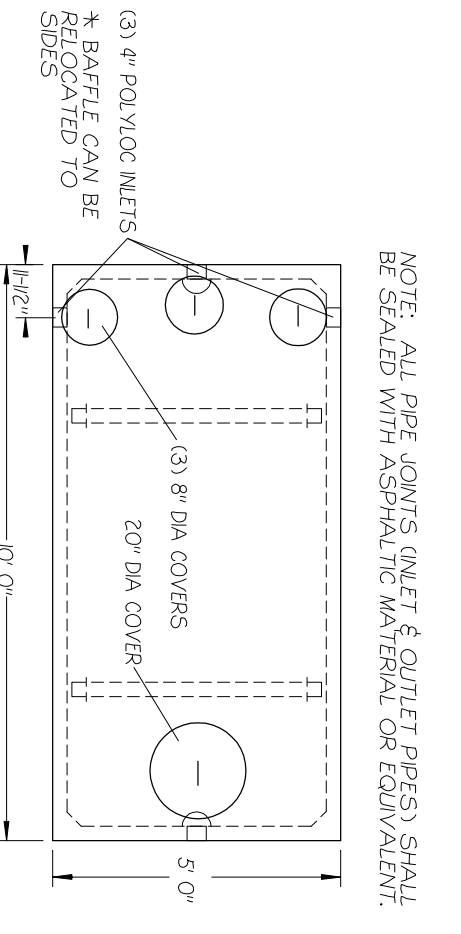
- NOTES:**
- 1) PRE CONTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
 - 2) ALL 4" OUTLET PIPES (SOLID WALL) LEAVE DISTRIBUTION BOX AT SAME ELEVATION ON A MINIMUM SLOPE OF 1/8" PER FOOT UP TO A DISTRIBUTOR LANTERN.
 - 3) SEWAGE DISPOSAL SYSTEMS LOCATED OF NECESSITY UPGRADE IN THE GENERAL PATH OF DRAINAGE TO A WELL MUST BE SPACED 200' OR MORE AWAY.
 - 4) NO DRIVEWAY, ROADWAY, PARKING AREA OR ABOVE GROUND SWIMMING POOL IS TO BE CONSTRUCTED OVER ANY PORTION OF THE SEWER SYSTEM. HEAVY EQUIPMENT SHALL BE KEPT OUT OF THE ABSORPTION FIELD AREA.
 - 5) ALL DISTRIBUTOR LINES (PERCOATED) SHALL BE OF EQUAL LENGTH (60' MAX.).
 - 6) ALL TREES TO BE CUT & REMOVED FROM SEWAGE DISPOSAL AREA IN A MANNER THAT WILL NOT DISTURB THE VEGEN SOIL LAYER.
 - 7) MAXIMUM GROUND SLOPE OF THE FIELD AREA SHALL NOT EXCEED 15%.
 - 8) NO BASEMENT FINISHES ARE PERMITTED WITHOUT A SPECIAL DESIGN FOR SEWAGE DISPOSAL.
 - 9) NO COMPONENT PART OF ANY SEWAGE DISPOSAL SYSTEM SHALL BE LOCATED OR MAINTAINED WITHIN 100' OF ANY SEWER RESERVE OR BROOK WASH OR ANY OTHER BODY OF WATER.
 - 10) NO ROOF, CELLAR OR FOOTING DRAINS ARE TO BE DISCHARGED IN THE SEWAGE DISPOSAL SYSTEM.
 - 11) SPEED LEVELERS SHALL BE USED FOR SYSTEMS WHOSE SIDE SLOPES ARE BETWEEN 0.5% AND ARE RECOMMENDED FOR ALL SYSTEMS.
 - 12) SLOPE BETWEEN SEPTIC TANK OR PUMPING CHAMBER AND THE HOUSE SHALL BE POSITIVE AND UNINTERRUPTED. AS TO ALLOW SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
 - 13) HOUSE SEWER PIPE RUNNING FROM THE HOUSE TO THE SEPTIC TANK MUST BE Laid ON SUITABLY COMPACTED EARTH OR VIRGIN SOIL WITH THE FIRST WATER TIGHT JOINT LOCATED AT LEAST 3' FROM THE HOUSE.



CONCRETE MANUFACTURED BY WOODWARDS CONCRETE PRODUCTS, INC., BALDWIN, NY. MODEL ST-4250 (OR APPROVED EQUAL)

TYPICAL PRECAST CONCRETE SEPTIC TANK

AS MANUFACTURED BY WOODWARDS CONCRETE PRODUCTS, INC., BALDWIN, NY. (OR APPROVED EQUAL)

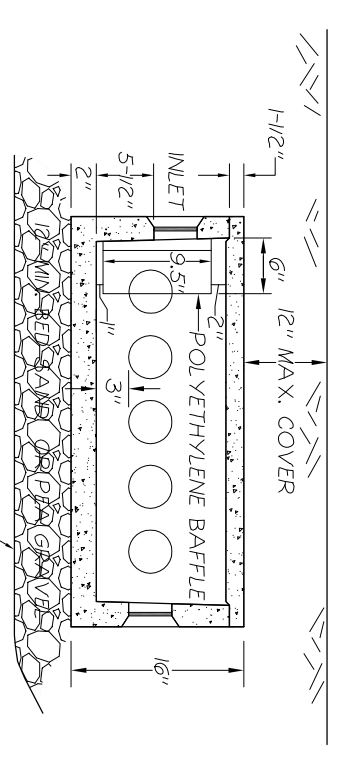


NOTE: ALL PRE CONTS (INLET & OUTLET PIPES) SHALL BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.

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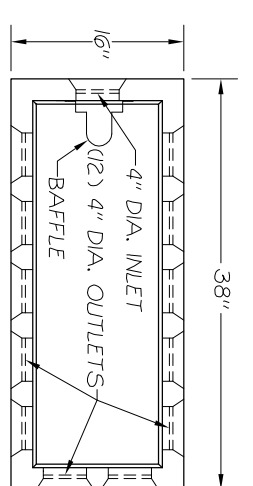
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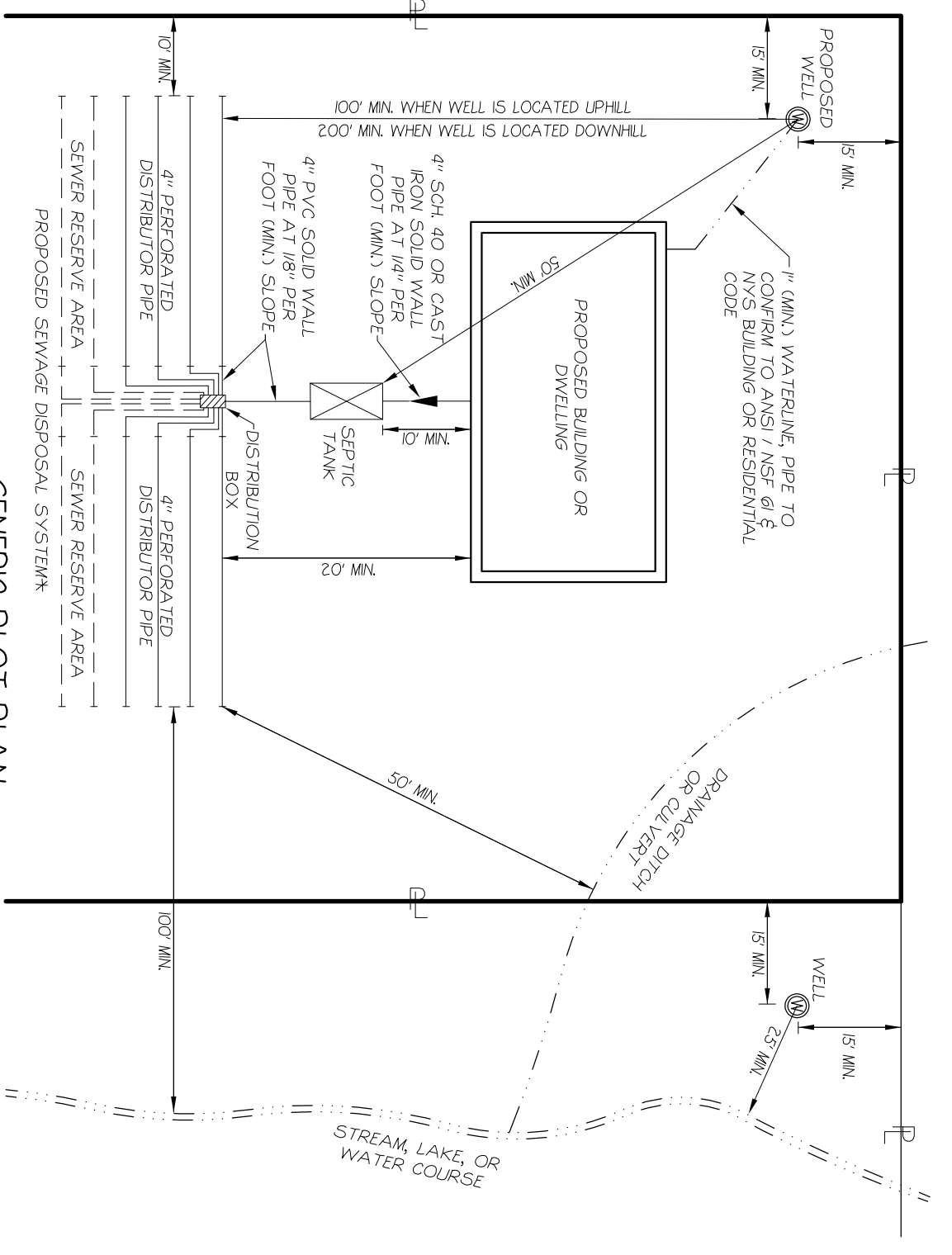
TYPICAL PRECAST CONCRETE DISTRIBUTION BOX

AS MANUFACTURED BY WOODWARDS CONCRETE - DB-42, BALDWIN, NY. (OR APPROVED EQUAL)



DISTRIBUTION BOX NOTES:

- 1) LEAVING THE DISTRIBUTION BOX SHALL BE Laid AT IDENTICAL SLOPE. FLOW EQUALIZERS SHALL BE USED TO ASSURE EQUAL FLOW TO EACH OUTLET PIPE. YEARLY CHECKING AND ADJUSTMENTS IS RECOMMENDED.
- 2) ALL PIPE JOINTS (INLET & OUTLET) SHALL BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
- 3) FLOW EQUALIZERS MUST BE USED (SEE GENERAL NOTE 1).
- 4) OUTLET INVERTS SHALL BE SET AT THE SAME ELEVATION.
- 5) OUTLETS MUST BE USED IN A MANNER TO ALLOW ACCESS TO THE NECESSARY NUMBER OF OUTLETS FOR THE EXPANSION AREA WITHOUT DISTURBING THE INITIAL SYSTEM.



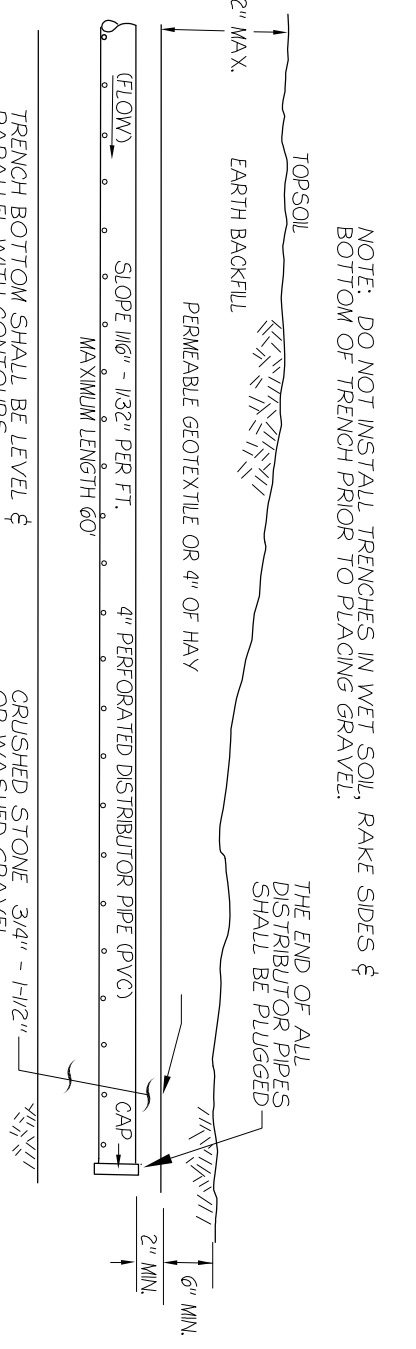
GENERIC PLOT PLAN

* THE GENERIC PLOT PLAN IS INTENDED FOR ILLUSTRATION PURPOSES ONLY. FOR SPECIFIC DESIGN INFORMATION ON THE PROPOSED SEWAGE DISPOSAL SYSTEMS SEE THE SEWAGE DISPOSAL SYSTEM REQUIREMENTS TABLE, DETAILS AND NOTES ON THIS SHEET.

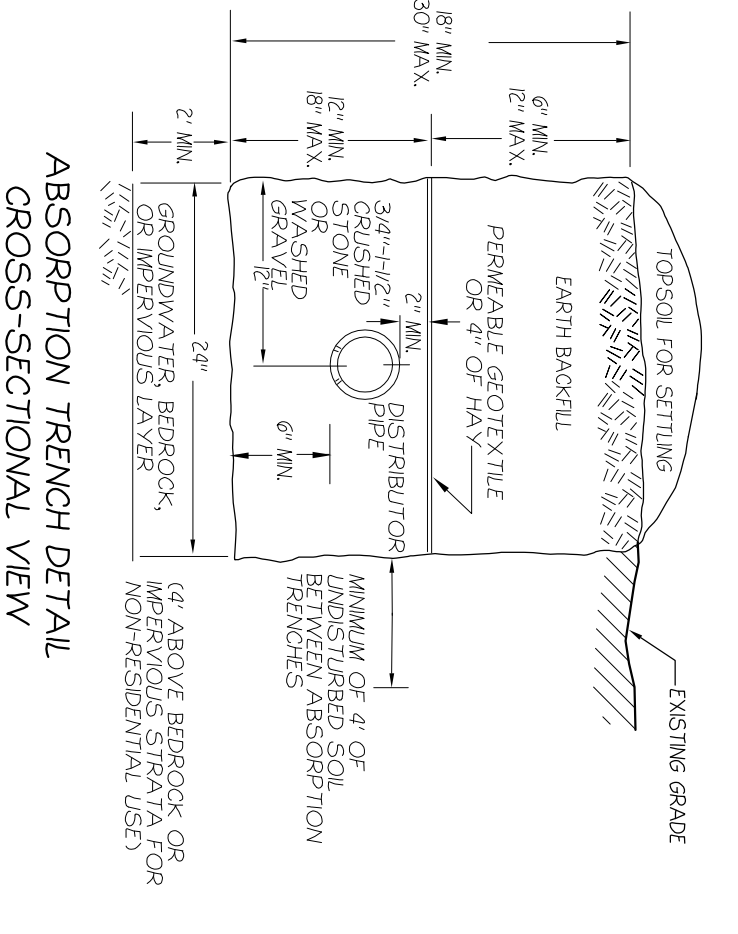
FEATURES	WELL OR SUCTION LINE WATERCOURSE (B)	STREAM, LAKE, OR DWELLING	PROPERTY LINE	DRAINAGE DITCH (G)
HOUSE SEWER WATER TIGHT JOINTS	50' (E)	25'	0'	0'
SEPTIC TANK	50'	0'	0'	0'
EFFLUENT LINE TO DISTRIBUTION BOX	100'	0'	0'	0'
DISTRIBUTION BOX	100' (A)	0'	0'	0'
ABSORPTION FIELD	150' (A)	0'	0'	0'
SEPTAGE PIT	50'	0'	0'	0'
DRY WELL (ROOF & FOOTING)	100' (A)	20'	0'	0'
BASED OR MOUND SYSTEM (C)	100' (A)	20'	0'	0'

MINIMUM SEPARATION DISTANCES FROM EXISTING OR PROPOSED FEATURES

- (A) WHEN SEWAGE TREATMENT SYSTEMS ARE LOCATED IN COARSE GRAVEL OR UPGRADE AND IN THE GENERAL PATH OF DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200' AWAY FROM THE WELL.
- (B) MEAN HIGH WATER MARK.
- (C) FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM THE TOE OF THE SLOPE OF THE FILL.
- (D) RECOMMENDED SEPARATION DISTANCES.
- (E) UNLESS CAST IRON OR PVC WITH O-RING JOINTS IS UTILIZED, THEN 25'.



ABSORPTION TRENCH DETAIL TRENCH PROFILE



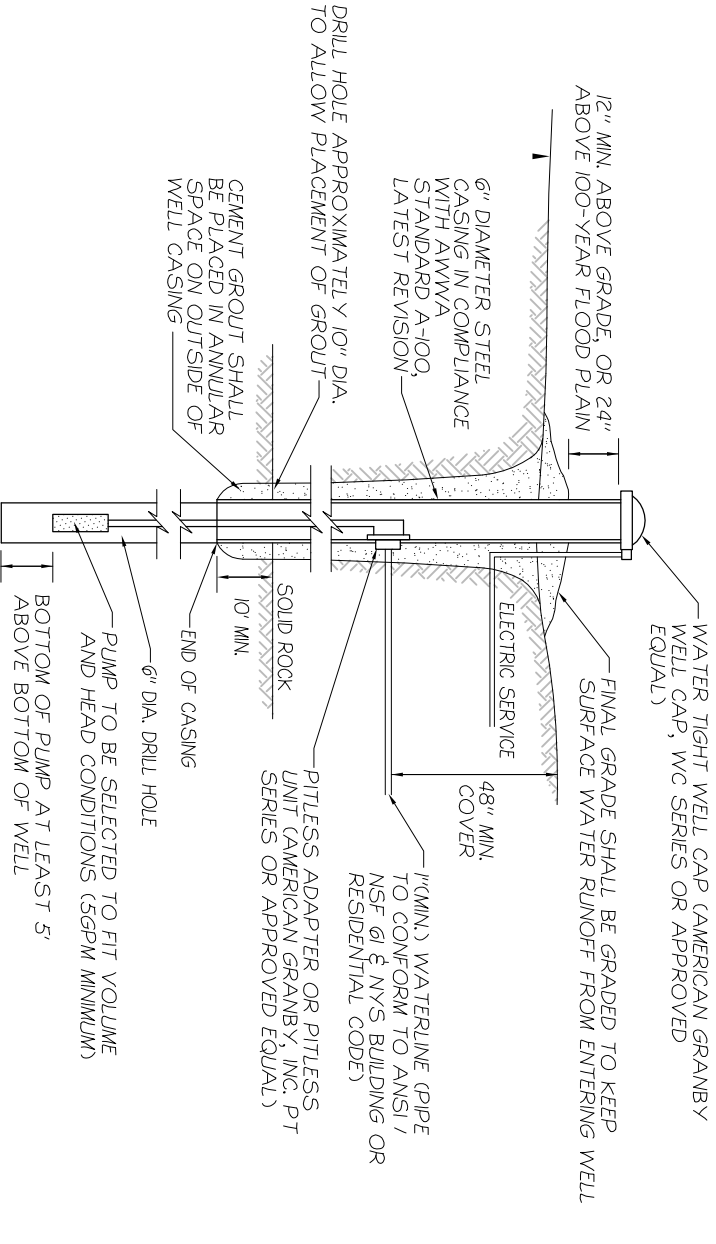
ABSORPTION TRENCH DETAIL CROSS-SECTIONAL VIEW

LOT NUMBER	DESIGN STABILIZED PERCOLATION RATE (MIN)	RANGES	TYPE OF FLOW RATE	DESIGN MIN. LENGTH OF ABSORPTION TRENCH (L)	PROPOSED LENGTH OF ABSORPTION TRENCH (L)	SEWAGE DISPOSAL SYSTEM DESIGN	SEPTIC TANK SIZE (GALLONS)
2A	15:00	4	A.1	440	220	5 ROWS @ 5' I.F.	1250
2B	7:00	4	A.1	440	220	4 ROWS @ 5' I.F.	850

SEWAGE DISPOSAL SYSTEM REQUIREMENTS

WELL NOTES:

- 1) ALL WELLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TABLE 2 OF THE NYS. DEPARTMENT OF HEALTH ADOPTED 578 "STANDARDS FOR WATER WELLS".
- 2) THE WELL CAP MUST BE A MINIMUM OF 2 FEET ABOVE THE 100 YEAR FLOOD ELEVATION.



WELL DETAIL

Mercurio-Norton-Tarulli-Marshall
ENGINEERING - LAND SURVEYING

RD Box 166, 45 Main Street, Pine Bush, NY 12566
P: (845) 744-3620 F: (845) 744-3805 Email: nm@mercurio-norton.com

Well & Sewage Disposal System Details for Lands of Botrac Properties, LLC

Situate in the Town of Newburgh Orange County, New York State February 2013

RECORD OWNER: BOTRAC PROPERTIES, LLC, P.O. BOX 7170, NEWBURGH, NY 12550
TAX MAP REFERENCE: SECTION 1, BLOCK 1, LOT 133
DEED REFERENCE LIBER: 14250, PAGE 574
LOT #1, FILED MAP NO. 13-07

TAX MAP REFERENCE: SECTION 1, BLOCK 1, LOT 134
DEED REFERENCE LIBER: ---, PAGE ---
LOT #2, FILED MAP NO. 13-07

LAWRENCE MARSHALL PE 108707
MAP BY: ZAP
PROJECT: 2822-N-6 SHEET 2 OF 2