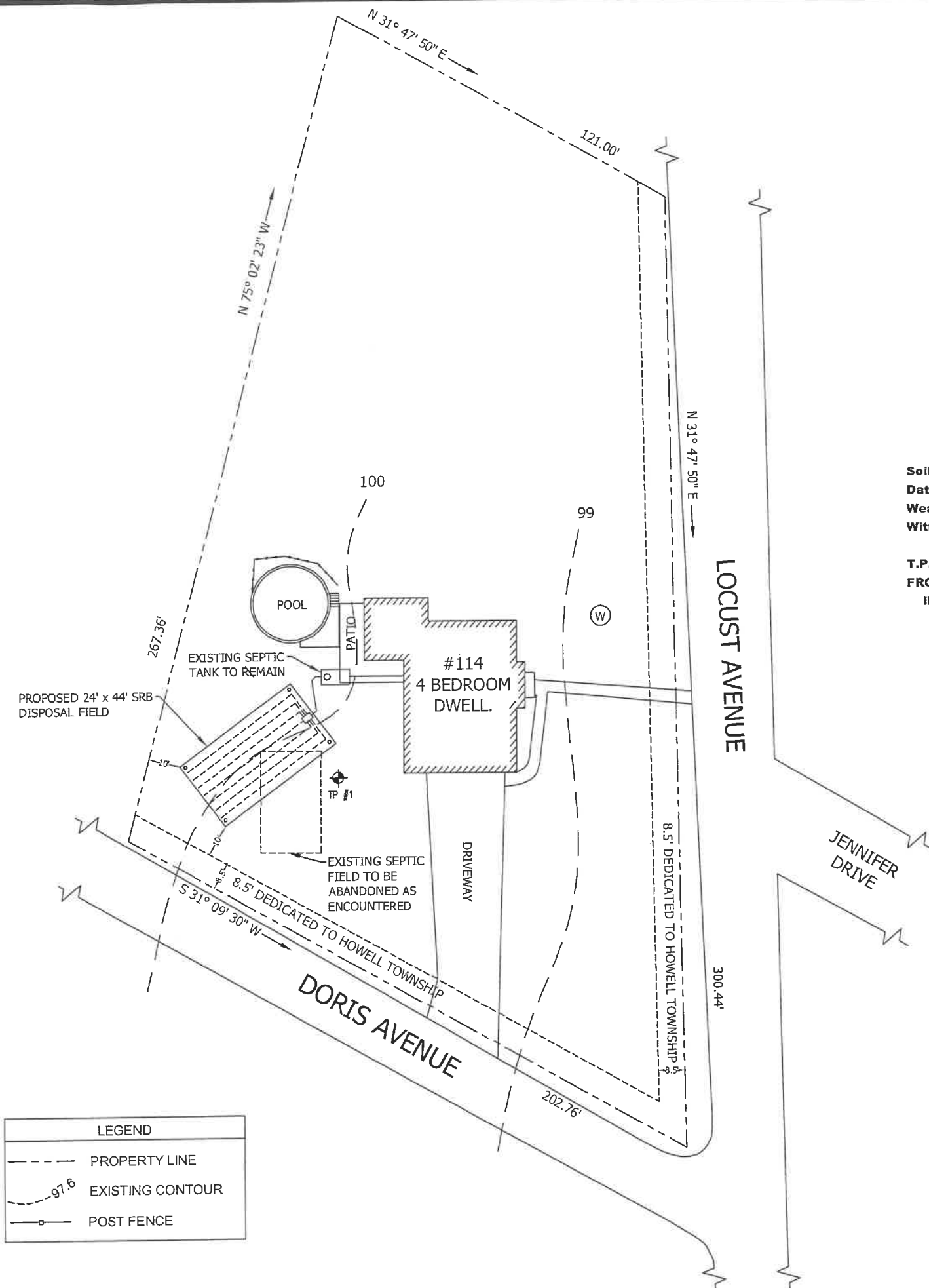
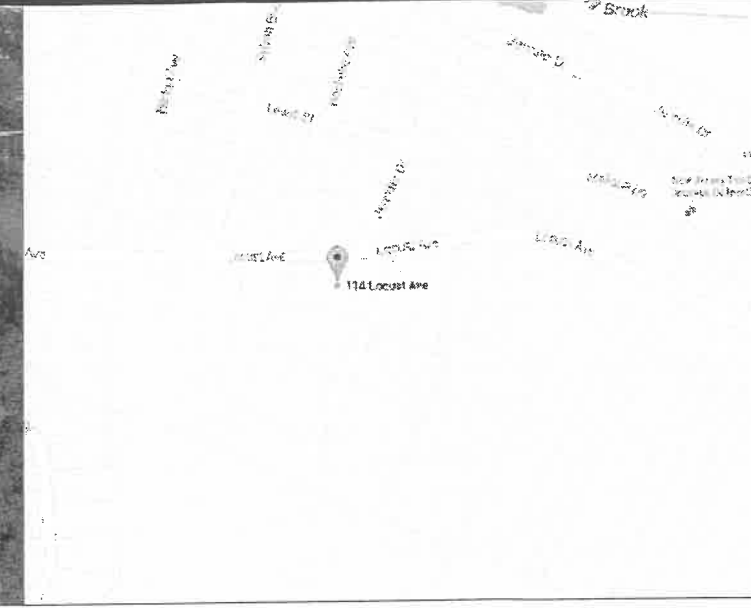




MONMOUTH COUNTY SOIL SURVEY
Kkg: KLEJ LOAMY SAND



LOCATION MAP

Soil Data
Date of Logs: April 14, 2016
Weather: 55 Clear
Witness: Chris Luberto, MCBH

T.P. # 1 ELEV. 99.8				K	Rating	DESCRIPTION
FROM	TO	FROM	TO			
IN.	IN.	ELEV	ELEV			
0	2	99.80	99.63			Topsoil
2	16	99.63	98.47			Fine SG Sand, Loose, 10YR 6/1
16	89	98.47	92.38			Sandy Clay Loam, SAB, Fri, 10YR 6/8
89	120	92.38	89.80	K-5		Coarse SG Sand, Loose, 20% gravel 10YR 6/2

Seepage @ 103", MCD Mottles @ 95"
SHWT BELOW ELEV 91.9

DESIGN CRITERIA

The septic system at the at the subject property has failed.

The dwelling contains four (4) bedrooms with no garbage disposal and no expansion room.

Design flow for 4 Bedrooms: $200 + 3(150) = 650$ GPD

Field size required w/K-4 fill: $650 \text{ GPD} \times 1.61 = 1046.5$ SF

Field size proposed: $24' \times 44' = 1,056$ SF

Proposed 1,000 gallon septic tank. Tank to have NSF approved effluent filter and cover to grade.

Soil suitability = I

OWNER / APPLICANT

BRYCK, STANLEY
 114 LOCUST AVENUE
 HOWELL, N J 07731

DESIGNED BY: WCL
 DRAWN BY: MR
 APPROVED BY: WCL

WILLIAM C. LONGO, P.E.
 N.J. PROFESSIONAL ENGINEER NO. 35284

LORTECH
 CONSTRUCTION ENGINEERING
 182 South Street, Freehold, NJ 07728
 NJ Cert. of Authorization No. 24GA28076800
 Phone: (732)-863-1403 Fax: (732)-863-1405

SEPTIC SYSTEM ALTERATION DESIGN

114 LOCUST AVENUE
 BLOCK 28 LOT 42
 HOWELL TOWNSHIP
 MONMOUTH COUNTY, NEW JERSEY

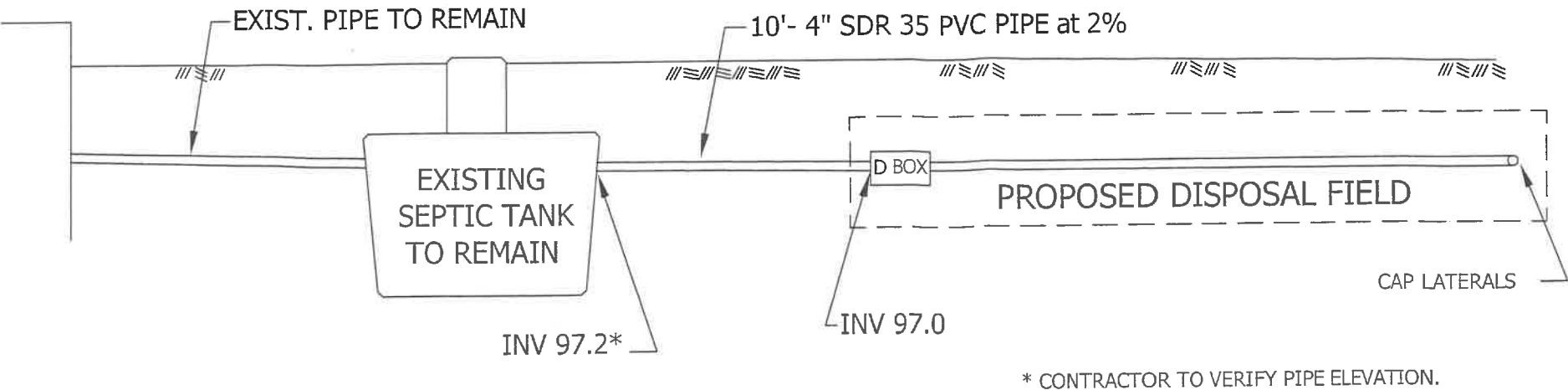
SCALE:	DATE:	SHEET:	PROJECT #:
1"=40'	5/24/2016	1 OF 2	16-227

GENERAL NOTES

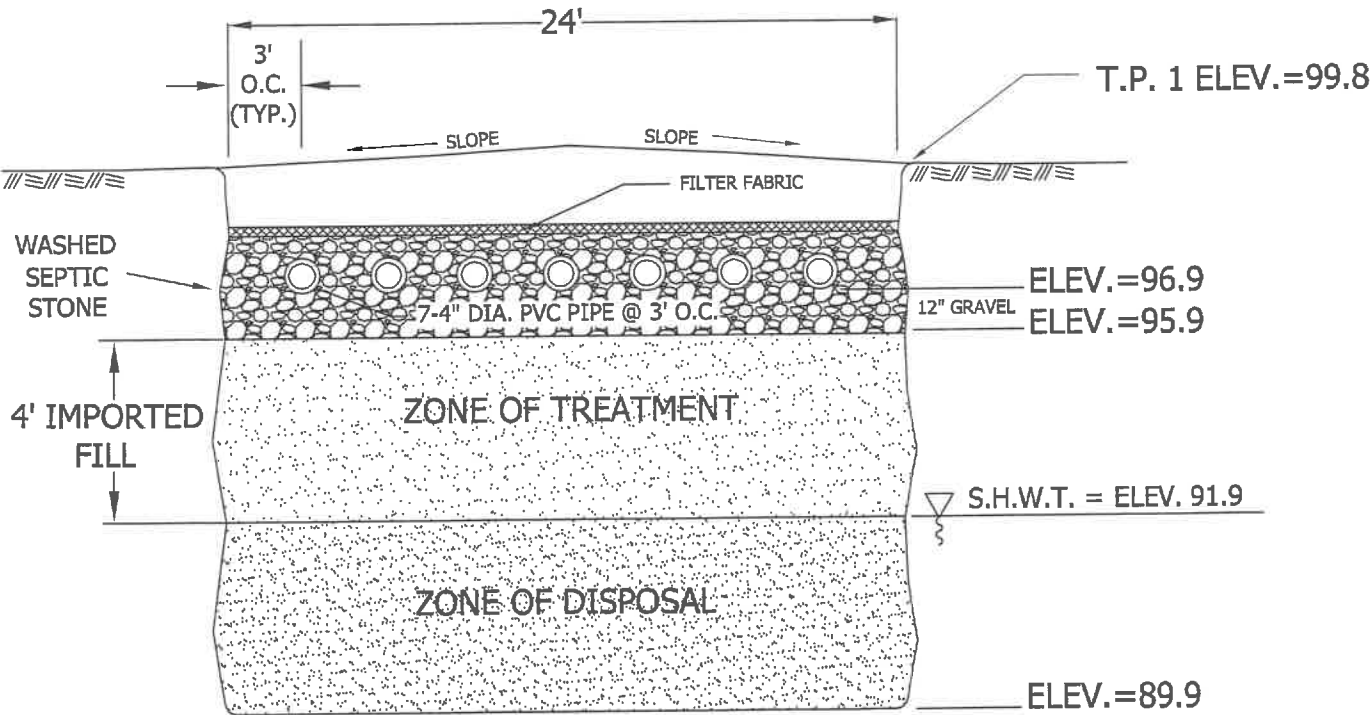
1. Survey provided by owner.
2. No landscaping, trees, shrubs, etc. are to be planted or remain within ten (10') feet of the disposal field.
3. When fill material is utilized within the zone of treatment the fill shall meet the requirements of NJAC 7:9A-10.1(f)4, i.e., C-33 Concrete sand.
4. Compaction shall be performed per N.J.A.C. 7:9A-10.4 iii, iv, as follows:

iii. Fill material shall be spread and compacted in layers one foot or less in thickness.

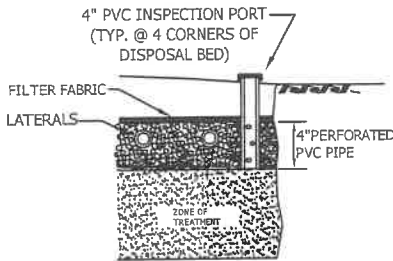
iv. Compaction may be accomplished manually or mechanically, by tamping or rolling, or by driving over the filled area in a controlled pattern using tracked or rubber tired vehicles. Compaction may also be accomplished by puddling.
5. All material shall conform to N.J.A.C. 7:9A specifications.
6. An NSF approved effluent filter, to be installed on septic tank.
Locking covers to grade to be provided. Vacuum test tank in place.
7. INFILTRATORS to be Quick-4 with Multi Port End Caps.
8. Existing system to be abandoned as noted.
9. Other than noted, no other wells are located within 100' of proposed disposal field.
10. All disturbed ground shall be seeded and mulched to facilitate ground cover.
11. The imported fill, shall be certified by a New Jersey licensed engineer INCLUDING TUBE PERMEAMETER TESTS OF IN PLACE IMPORTED FILL AND SIEVE ANALYSIS CONFIRMING THAT MATERIAL MEETS ASTM C-33 SPEC. BOTH REQUIRE A&B REPLICATES. COMPACTION MUST ALSO BE CERTIFIED BY ENGINEER.
A MINIMUM OF 72 HOURS NOTICE TO THE ENGINEER IS REQUIRED. SHOULD THE INSTALLATION PROCEED WITHOUT INSPECTION BY THE ENGINEER, THE ENGINEER RESERVES THE RIGHT TO HAVE THE WORK UNCOVERED FOR PROPER INSPECTION. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE COST OF THIS WORK.
12. Any conditions found which are not representative of this plan shall immediately be brought to the attention of the design engineer.
13. The contractor shall verify any and all underground utilities prior to excavation.



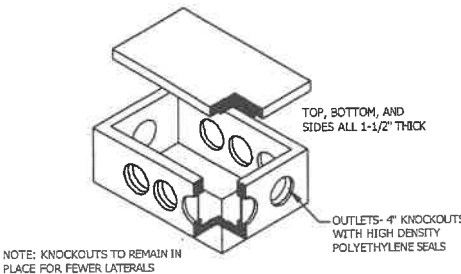
SYSTEM PROFILE
N.T.S.



SRB DISPOSAL FIELD DETAIL
N.T.S.



INSPECTION PORT DETAIL
N.T.S.

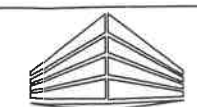


"D"-BOX DETAIL (7-OUTLET)
N.T.S.

DESIGNED BY: WCL	DRAWN BY: MR	APPROVED BY: WCL
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WILLIAM C. LONGO, P.E.
N.J. PROFESSIONAL ENGINEER NO. 35284



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SEPTIC SYSTEM CONSTRUCTION NOTES			
114 LOCUST AVENUE BLOCK 28 LOT 42 HOWELL TOWNSHIP MONMOUTH COUNTY, NEW JERSEY			
SCALE: N.T.S.	DATE: 5/24/2016	SHEET: 2 OF 2	PROJECT #: 16-227