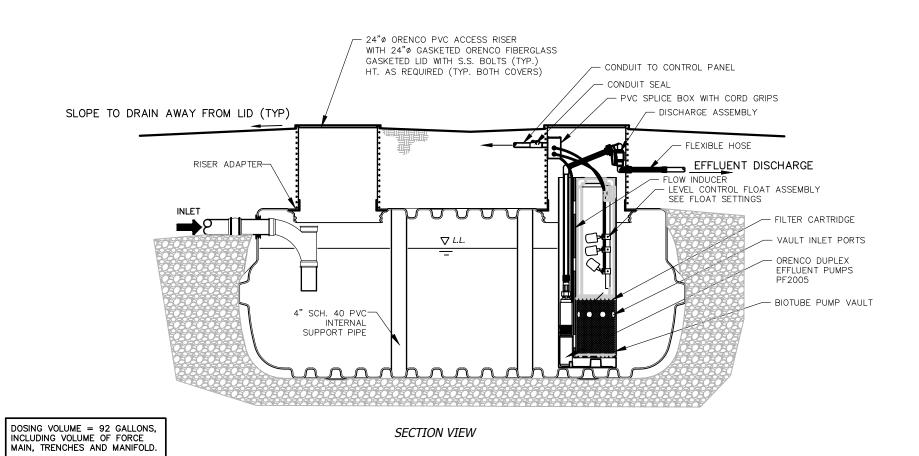


PLAN VIEW



PUMP TANK DETAIL

SCALE: NONE

SERVICE POLE MOUNT FOR CONTROL PANEL

/ FLASHING ALARM LIGHT

- ORENCO — NEMA 4 WEATHERPROOF CONTROL BOX

CORD SEAL CONNECTORS FOR

- POWER SUPPLY CONDUIT

POWER AND CONTROL CORDS

— FIN. GRADE

- CONDUIT FROM PUMP CHAMBER

VOLUME/IN. OF TANK = ± 23.5

EFFLUENT PUMP SIZED FOR 6 GPM AND 21 T.D.H

HIGH LEVEL ALARM - 561.91

4' MAX.

CONTROL PANEL MOUNT

SCALE: NONE

GALS./IN.

FLOAT SETTINGS:

ON - 561.74

OFF - 561.41

PRECAST CONCRETE SEPTIC TANK CONTRACTOR SHALL INSTALL PRECAST REINFORCED CONCRETE SEPTIC TANK, CONFORMING TO THE TYPE, SIZE AND DIMENSIONS SPECIFIED ON THE DRAWINGS, AS MANUFACTURED BY "WOODARD'S CONCRETE PRODUCTS, INC.", NO SUBSTITUTIONS WITHOUT PRIOR APPROVAL OF

THE DESIGN ENGINEER CONCRETE MIN. STRENGTH - 4,000 PSI @ 28 DAYS REINFORCEMENT - 6X6X10 WWF, #4 REBAR AIR ENTRAINMENT - 5% CONSTRUCTION JOINT — BUTYL RUBBER BASE CEMENT PIPE CONNECTION - POLYLOK SEAL (PATENTED)

PUMP TANK: ROTH/FRALO MODEL RMT1000-E CONSTRUCTION SPECIFICATION: PER APPENDIX 75-A

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS

WATERTIGHT CONSTRUCTION CAPACITY = 1000 GALLONS

PIPE AND FITTINGS

PIPING BETWEEN SEPTIC TANK AND INTERIOR PLUMBING SHALL BE SCHEDULE 40 PVC.

PIPING BETWEEN PUMP TANK AND MANIFOLD SCH. 40, WITH PRESSURE

NOTE: THIN-WALLED SDR 38 PVC SHALL NOT BE USED DISTRIBUTION PIPING SHALL BE SCH. 40, WITH PRESSURE FITTING.

SEWAGE DISPOSAL SYSTEM DESIGN NOTES: DESIGN PERCOLATION RATE = 21 - 30 MIN./IN., WITH A 0.60 GDP/SF

APPLICATION RATE SEWAGE DISPOSAL SYSTEM HAS BEEN DESIGNED FOR A TOTAL

ESTIMATED WATER USAGE OF 900 GALLONS PER DAY (60 EMPLOYEES @ 15 GPD/EMPLOYEE).

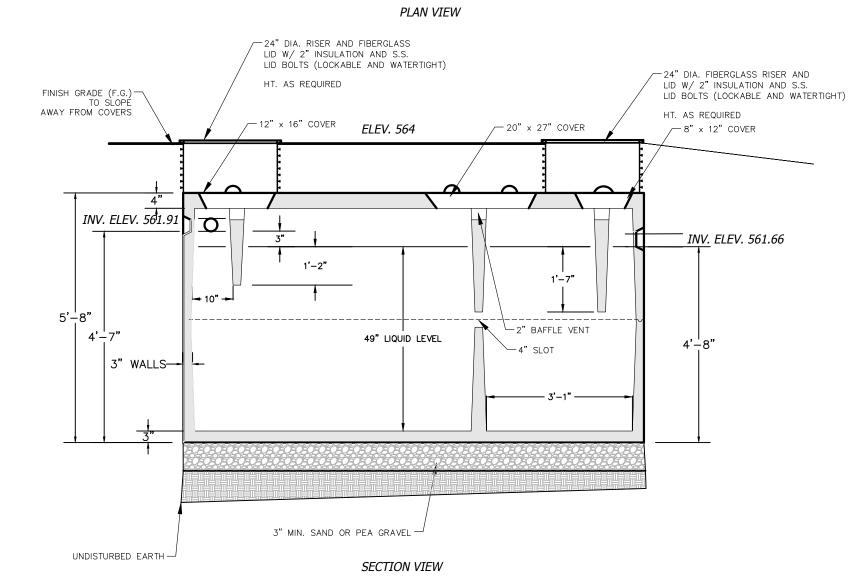
SYSTEM HAS BEEN DESIGNED TO UTILIZE A GRAVEL LESS GEO-TEXTILE SAND FILTER SYSTEM AS PROVIDED BY ELJEN CORPORATION.

DESIGN REQUIREMENTS STIPULATE 6 SF/LF PER UNIT, OR A TOTAL ABSORPTION TRENCH LENGTH OF 1500 SQUARE FEET OF TRENCH, AND 62.5 ELJEN IN-DRAIN UNITS. FOR DESIGN PURPOSED A TOTAL OF 64 UNITS HAS BEEN SPECIFIED FOR A TOTAL ABSORPTION AREA OF 1,536

2" PVC FROM PUMP

SCALE: NONE

24" DIA. RISER & LID — 24" DIA. RISER & LID -4" SCH. 40 PVC INLET-AT $\frac{1}{4}$ " PER FT. MIN. AT 1/8" PER FT. MIN. SLOPE TO PUMP TANK



2000 GALLON SEPTIC TANK DETAIL

SCALE: NONE

SEPTIC TANK NOTE: 1. CONCRETE MINIMUM STRENGTH SHALL BE 4,000 PSI IN 28 DAYS.

TOP VIEW

STEEL REINFORCEMENT – 6X6X10 WWM

3. CONSTRUCTION JOINT SEALED WITH BUTYL RUBBER CEMENT AND TESTED FOR WATERTIGHTNESS PRIOR TO BACKFILLING.

4. SEPTIC TANK TO BE PRECAST WITH WATERTIGHT POLYETHYLENE PIPE SEALS (POLYLOK SEALS) REQUIRING NO ADDITIONAL SEALING OR MORTARING. ALL INTERIOR TANK SEAMS TO BE HYDRO—CEMNETED PRIOR TO USE.

5. SEPTIC TANK AS MANUFACTURED BY "WOODARD'S CONCRETE PRODUCTS, INC., OR APPROVED EQUAL. MODEL ST-2000. 6. ACCESS COVERS FOR SEPTIC TANK TO BE PRECAST INTO TANK BY TANK SUPPLIER, PRIOR TO DELIVERY TO SITE.

1/8" ORIFICE AT BOTTOM OF LATERAL - PVC ORIFICE SHIELD PVC LATERAL - PVC LATERAL

ORIFICE SHIELD DETAIL

SIDE VIEW

- ANNULAR RING OF

AUTOMATIC DISTRIBUTING VALVE - SECTION

GRAVEL BACKFILL

SCALE: NONE NOTE: SECOND AND NEXT TO LAST ORIFICE ARE DRILLED IN TOP OF LATERAL FOR

ORENCO MODEL 4402 AUTOMATIC DISTRIBUTING VALVE ASSEMBLY

1.5" PVC OUTLETS TO ABSORPTION TRENCH MANIFOLD

12" SAND OR GRAVEL BASE

VACUUM BREAK AND MANIFOLD DRAINBACK

ORENCO 30" DIA. FIBERGLASS ACCESS RISER AND INSULATED LID WITH STAINLESS STEEL BOLTS AND URETHANE GASKET



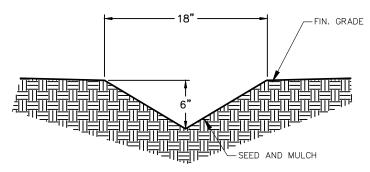
CONSTRUCTION ELEVATIONS

SEPTIC TANK INLET - 561.91

SEPTIC TANK OUTLET - 561.66

PUMP CHAMBER INLET - 560.86

L.S.E. - 566.11

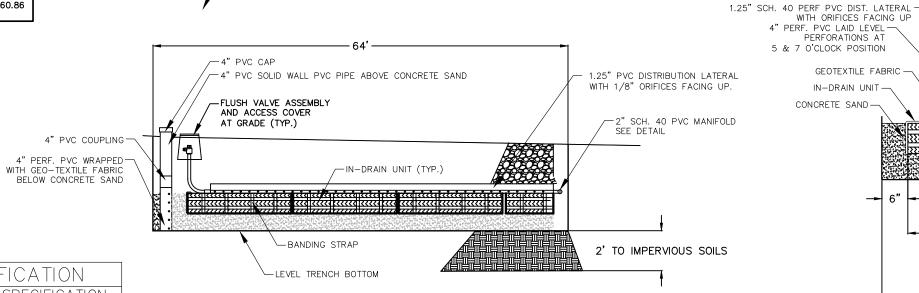


SDS - DIVERSION SWALE DETAIL SCALE: NONE

1. ORIGINAL SOILS TESTS CONDUCTED BY THE ENGINEER, ON THE DATE NOTED. 2. SOILS PERCOLATION TESTS TIMED WITH A STOP

3. JULY 31, 2015 SOILS TESTS WERE CONDUCTED UNDER THE SUPERVISION OF THE TOWN ENGINEER, FUSCO ENGINEERING & LAND

SURVEYING, P.C.					
SOILS PERCOLATION TESTS					
TEST NO.	RUN #	DEPTH (IN.)	TOTAL TIME	STABILIZED RATE	
PT-9	1	24"	20: 38		
7/22/2009	2		20: 40		
	3		21: 04	21: 04	
PT-10	1	24"	16:00		
7/22/2009	2		22: 07		
	3		23: 04	23: 04	
PT-11	1	24"	16: 21		
7/22/2009	2		23: 31		
	3		24: 01	24: 01	
WPT	1	24"	9: 30		
	2		10: 45		
	3		10: 50		
	4		11:15	11:15	



ONSITE WASTEWATER TREATMENT SYSTEM - PLAN VIEW

ORIFICES TO BE LOCATED AT MID-POINT OF EACH ELJEN UNIT

—16 "ELJEN" IN−DRAIN UNITS PER TRENCH (TYP.)

- 1.5" SCH. 40 PVC DISTRIBUTION LATERAL WITH 1/8" ORIFICES, LOCATED AT MID-POINT OF EACH ELJEN IN-DRAIN UNIT

SCALE: NONE

/-- 4" PVC CAP AT END OF PIPE

LONGITUDINAL SECTION VIEW - DISTRIBUTION BOX

TYPICAL "ELJEN" IN-DRAIN DETAILS

SCALE: NONE

-FLUSHING ASSEMBLY (TYP.)

CONCRETE SAND SEE ASTM C33 SPEC.

-INSPECTION PORT (TYP.)

FINISH GRADE ___MANIFOLD -INSTALL PVC JACKETTED 1" THICK FLEXIBLE FOAM INSULATION
WHEN DEPTH OF COVER IS LESS THAN 4 FT 45 DEG. ELBOW (TYP.)—

TYPICAL "ELJEN" IN-DRAIN DETAILS SCALE: NONE

SECTION VIEW

RUN OF TRENCH BACKFILL —

GEOTEXTILE FABRIC -

IN-DRAIN UNIT-

/ 1.5" SCH. 40 PVC MANIFOLD AND DIST. PIPE (TYP.)

__ 1.5" SCH. 40 PVC TO MANIFOLD (TYP.)

ABSORPTION TRENCH NOTES:

1. DO NOT INSTALL TRENCHES IN WET SOILS.

2. INSTALL TRENCHES PARALLEL TO CONTOURS.

3. INSTALL TRENCHES AS SHALLOW AS POSSIBLE

RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING AGGREGATE.

5. ENDS OF ALL DISTRIBUTOR PIPES MUST BE

WHICH MEETS ABOVE NOTED MINIMUM DEPTHS.

12" INCL. TOPSOIL

- ORENCO MODEL 4403 AUTOMATIC DISTRIBUTING VALVE ASSEMBLY

FROM PUMP TANK

FIN. GRADE INCLUDED VALVE ENCLOSURE TOP TO BE FLUSH W/GRADE SWEEP FLUSHING ASSEMBLY THREADED END CAP - PLUG WITH 1/8" ORIFICE - TEST ASSEMBLY FEMALE ADAPTER

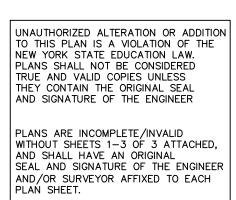
THREADED END CAP & CLEAN-OUT DETAIL SCALE: NONE

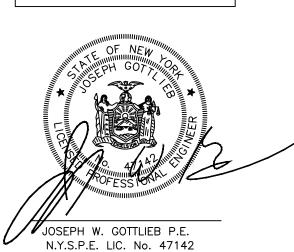
2" PVC FROM PUMP CHAMBER — MANIFOLD - FORCE MAIN CONNECTION DETAIL

DEEP TEST PITS				
DTP-1	WTP			
AUGUST 6, 2009	JULY 31, 2015			
	6" TOPSOIL			
	6"-40" SILTY			
6" TOPSOIL	LOAM, SMALL			
6" - 26" SILT	ROCKS			
LOAM W/CLAYS	40"-60" SILTY			
26" - 66" SILTY	LOAM, SMALL			
CLAYS	ROCKS, SLIGHT			
NO	CLAY			
GROUNDWATER	W/MOTTLING			
OR BEDROCK,	60" - 84" SILTY			
MOTTLING AT 66"	LOAM, SMALL			
	ROCKS, CLAY			

MOTTLING

SCALE: NONE

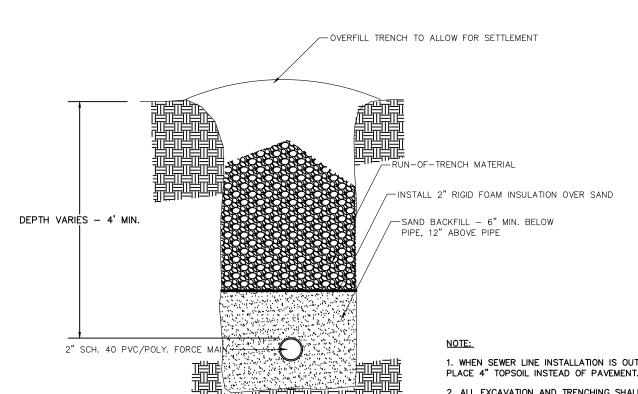




•					
2	8/10/2015	ADD SOILS TESTS INFORMATION			
1	12/3/2014	PLANNING BOARD COMMENTS			
REVISION	DATE	DESCRIPTION			
Phone: 845.794.5506 FAX: 845.794.5520 Joseph Gottlieb, P.E., P.C. Consulting Engineer P.O. Box 76 Monticello, New York 12701-0076					
PROJECT:					
BAZS					
TOWN OF CHESTER					
ORANGE COUNTY, NEW YORK					

CONSTRUCTION DETAILS	
ONSITE WASTEWATER TREATMENT SYSTEM	

DRAWN BY: teg	CHECKED BY: jwg	
DATE: OCTOBER 16, 2014	SCALE: NONE	
PROJECT NO:	DRAWING NO:	
14-086	S-2	



1. WHEN SEWER LINE INSTALLATION IS OUTSIDE PAVEMENT AREA, PLACE 4" TOPSOIL INSTEAD OF PAVEMENT. 2. ALL EXCAVATION AND TRENCHING SHALL MEET OSHA

