

**LEGEND**

- DRILL HOLE
- OVERHEAD WIRES
- STONE WALL
- TREE
- TREE/BRUSH LINE
- UTILITY POLE
- UNDERGROUND ELECTRIC
- WETLANDS
- LANDSCAPE AREAS
- PROPOSED EASEMENT AREA

• = Permanent Buffer Markers per RIDEM

**DOSING CALCULATIONS**

DRAW DOWN VOLUME IN PUMP BASIN	= 23.5 GAL. / 1 FT. DRAWDOWN
DRAW DOWN DEPTH IN PUMP BASIN	= 24"/12 = 2.0 FT.
DELIVERY VOLUME PER PUMP CYCLE	= 2.0 FT. X 23.5 GAL./FT. = 47.0 GALLONS
VOLUME IN 1.5-IN. TRANSPORT LINE	= 118 LF X 0.092 GAL./LF = 10.9 GAL.
VOLUME IN 1.5-IN. MANIFOLD	= 9 LF X 0.092 GAL./LF = 0.8 GAL.
VOLUME IN 1-IN. LATERALS	= 188 LF X 0.041 GAL./LF = 7.7 GAL.
	= 19.4 GAL.
LENGTH OF GEOMAT 3900 TRENCHES	= 93 LF
GEOMAT 3900 MAX DOSING CAPACITY	= 0.75 GAL / LF X 93 LF = 69.8 GAL.
TRANSPORT LINE & MANIFOLD	= 10.9 + 0.8 = 11.7 GAL.
MAX GEOMAT DOSING	= 81.5 GAL.
47.0 GAL > 19.4 GAL	OK (SYSTEM PRESSURIZED)
47.0 GAL < 81.5 GAL = 57.7%	OK

N/F  
KENNETH A. & KARLA L. FARRAR  
DEED BK.140/PG.56  
MAP 2 LOT 30

**DESIGN CALCULATIONS**

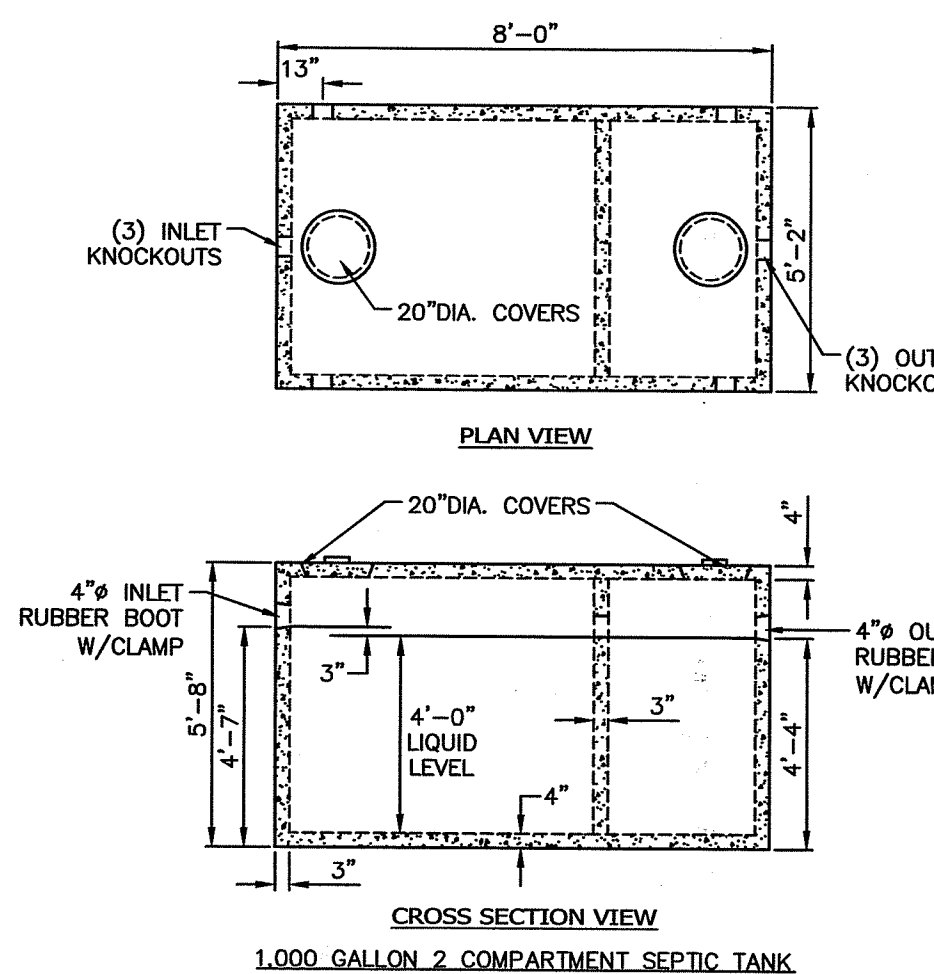
APPLICATION: NEW CONSTRUCTION  
TYPE OF ESTABLISHMENT: RESIDENTIAL  
PROPOSED 6 BEDROOM RESIDENCE

DESIGN FLOW  
6 BEDROOMS x 115 GPD/BDRM = 690 GPD

SEPTIC TANK  
PROPOSED 2-COMPARTMENT 2,000 GAL. SEPTIC TANK (SEE SHEET 2)

SIZE OF LEACHING FACILITY  
DESIGN GROUNDWATER ELEVATION = 24" BELOW EXIST. GROUND  
USE GEOMAT 3900 (CLASS 1)  
DESIGN LOADING RATE = 2.3 GAL./DAY/S.F. (CLASS 6)  
690/2.3 = 300 SF  
300 SF/3.25 SF/LF = 92.3 LF  
2 TRENCHES - 46.5' L X 3.25' W

SEE SHEET 2 FOR SYSTEM COMPONENTS & SPECIFICATIONS  
NOTE: SYSTEM HAS NOT BEEN DESIGNED FOR USE WITH A GARBAGE GRINDER.



**CURRENT OWNERS**  
FLOWERING SPADE, LLC  
c/o SCOTT T. SPEAR, ESQ.  
BLISH & CAVANAGH, LLP  
30 EXCHANGE TERRACE  
PROVIDENCE, RI 02903

**TITLE REFERENCE:**  
DEED BK.545/PG.111

**PLAN REFERENCE:**  
ENVELOPE 77 & 78  
MAP #118-01 & 118-02

**SITE LOCATION:**  
1033 CORN NECK ROAD  
NEW SHOREHAM, RHODE ISLAND

**ASSESSORS REFERENCE:**  
MAP 2 LOT 32

**PRE-CAST CONCRETE TANK**  
NOT TO SCALE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
Department of Environmental Management  
Office of Water Resources Onsite  
Wastewater Treatment System Program  
Site Evaluation Form  
Part A - Soil Profile Description Application Number Subdivision

Property Owner: Flowering Spade, LLC  
Property Location: 1033 Corn Neck Road, New Shoreham / A.P. 2, Lot 32  
Date of Test Hole: 12/10/2021  
Soil Evaluator: Brandon Fanafu License Number: D4059  
Weather: 45° F. Cloudy Shaded: Yes  No  Time: 1:15 pm

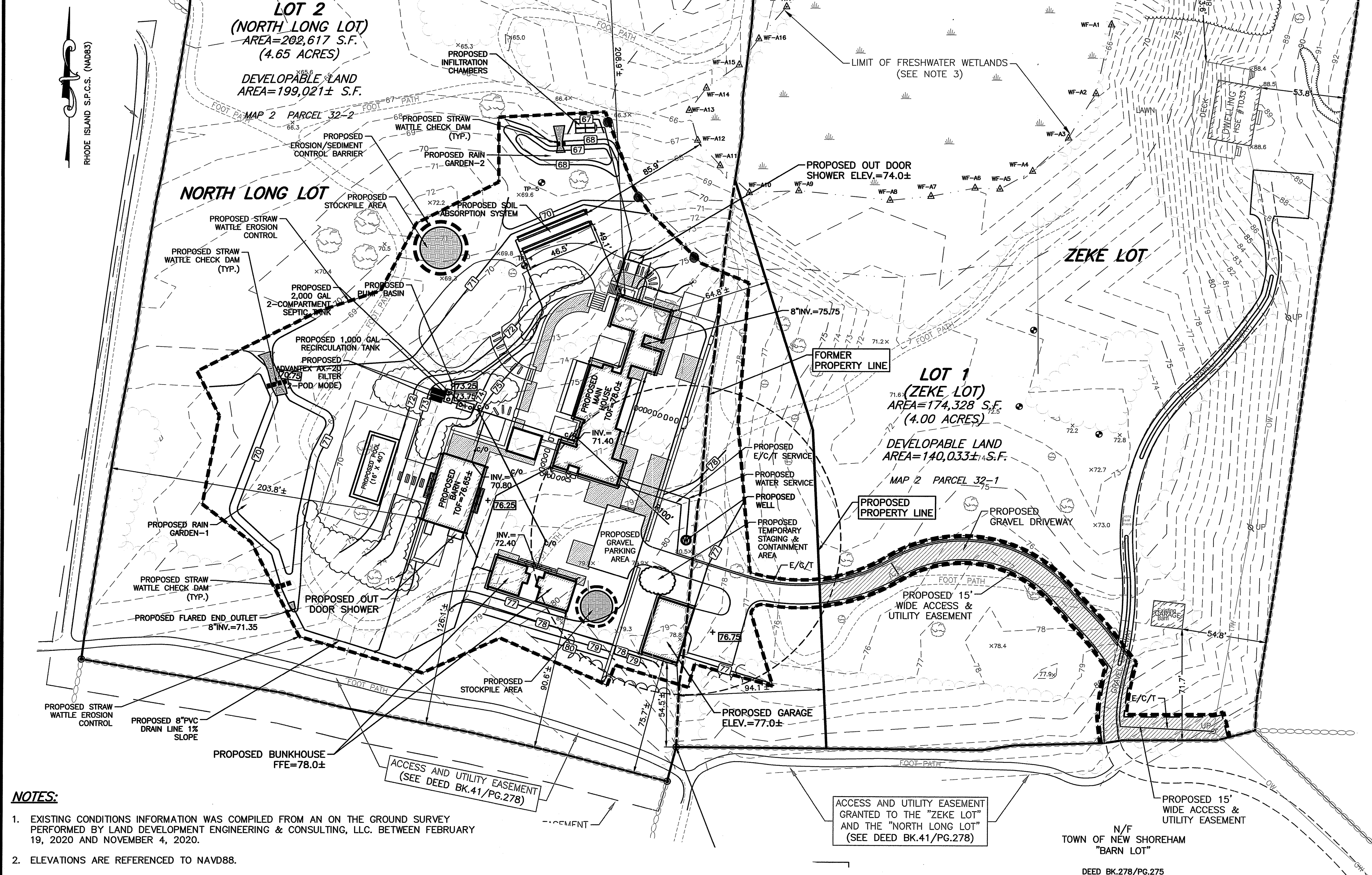
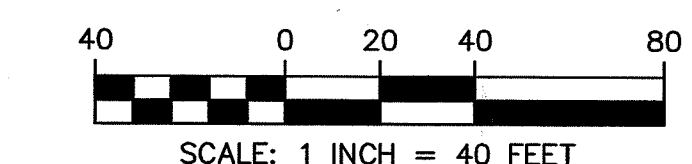
TH 4 Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox		Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab. S. Contr.					
Ap	0-16	A	S	10YR 3/3	-	-	-	sil	1/sbk	vfr	5
Bw1	16-24	C	W	2.5Y 5/4	-	-	-	sil	1/sbk	vfr	5
Bw2	24-38	A	W	2.5Y 5/4/1	5YR 4/8 10YR 7/2	M 3 D M 3 D	-	sil	1/sbk	vfr	5
2Cd	38-88	A	W	2.5Y 4/2	-	-	-	ls	0/ma	fr	6
3C	88-96	-	-	2.5Y 7/3	-	-	-	cos	0/sg	loose	1

TH 5 Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox		Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab. S. Contr.					
Ap	0-14	A	P	10YR 3/3	-	-	-	sil	1/sbk	vfr	5
Bw	14-36	C	W	2.5Y 5/4	-	-	-	sil	1/sbk	vfr	5
C1	36-56	C	W	2.5Y 6/4	-	-	-	sil	1/sbk	vfr	5
C2	56-72	A	W	2.5Y 6/4	5YR 5/6 10YR 7/2	M 3 P M 3 P	-	sil	1/sbk	vfr	5
2Cd	72-108	-	-	10YR 4/2	-	-	-	ls	0/ma	fr	6

TH 4 Soil Class: see comments Total Depth 96" Impervious/Limiting Layer Depth - (og) GW Seepage Depth - SHWT 24" (og)  
TH 5 Soil Class: see comments Total Depth 108" Impervious/Limiting Layer Depth - (og) GW Seepage Depth - SHWT 56" (og)

Comments: Machine: John Deere 410G  
TH4 Soil Class: Eolian / Ablation Till / Outwash  
TH5 Soil Class: Eolian / Ablation Till



- NOTES:**
- EXISTING CONDITIONS INFORMATION WAS COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC. BETWEEN FEBRUARY 19, 2020 AND NOVEMBER 4, 2020.
  - ELEVATIONS ARE REFERENCED TO NAVD88.
  - WETLAND RESOURCE AREAS SHOWN HEREON WERE DELINEATED BY NATURAL RESOURCE SERVICES, INC. ON FEBRUARY 28, 2020 AND LOCATED BY LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC.
  - THE SITE IS NOT LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREAS AS DETERMINED FROM THE TOWN OF NEW SHOREHAM FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NUMBER 440036 0354 J (EFFECTIVE DATE OCTOBER 16, 2013).
  - EXISTING UTILITY LINES SHOWN ON THIS PLAN ARE FROM AVAILABLE INFORMATION AND ARE APPROXIMATE LOCATIONS. THERE MAY BE EXISTING LINES OTHER THAN THOSE INDICATED. LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER PUBLIC UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED.
  - THIS PLAN AND THE ACCOMPANYING CERTIFICATIONS DO NOT CONSTITUTE A CERTIFICATION OF TITLE TO THE PROPERTY DISPLAYED HEREON. THE OWNER OF LOCUS AND ABUTTING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.

- PLAN REFERENCES:**
- PLAN ENTITLED "MAP OF LAND IN TOWN OF NEW SHOREHAM, R.I. BELONGING TO GEORGE G. SHEFFIELD, ANNIE P. ROSE, PHEBE M. DODGE AND CLARA EHRHARDT DEVISEES UNDER THE WILL OF JOHN G. SHEFFIELD", PREPARED BY WATERMAN ENGINEERING, CO. DATED OCTOBER 1950 BEING RECORDED AT THE TOWN OF NEW SHOREHAM LAND EVIDENCE RECORDS ON MAY 24, 1975 AS MAP #118-01 AND 118-02, ENVELOPE 77 AND 78.
  - AN UNRECORDED PLAN ENTITLED "PROPERTY SURVEY PLAN, A.P.2, LOT 32, 1033 OFF CORN NECK ROAD, NEW SHOREHAM, RHODE ISLAND", PREPARED FOR DANA ROWAN BY ATLAS LAND SURVEYING, LLC, DATED SEPTEMBER 8, 2016 (REVISED JANUARY 5, 2017 AND MAY 26, 2020).

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
OWTS & FRESHWATER WETLANDS  
JOINT PERMIT APPROVAL

OWTS# 2122-1597 PERMIT # 22-0267  
APPROVED: [Signature] DATE 10/21/22  
No Changes Allowed Without RIDEM Approval  
Approved Plans/Permit Must Be Kept at Construction Site

**LD&C**  
LDEC  
Land Development Engineering & Consulting, LLC  
207 High Point Avenue, Unit 6  
Portsmouth, RI 02871  
T: 401-354-2050 F: 401-369-9775  
WWW.SDE-LDEC.COM

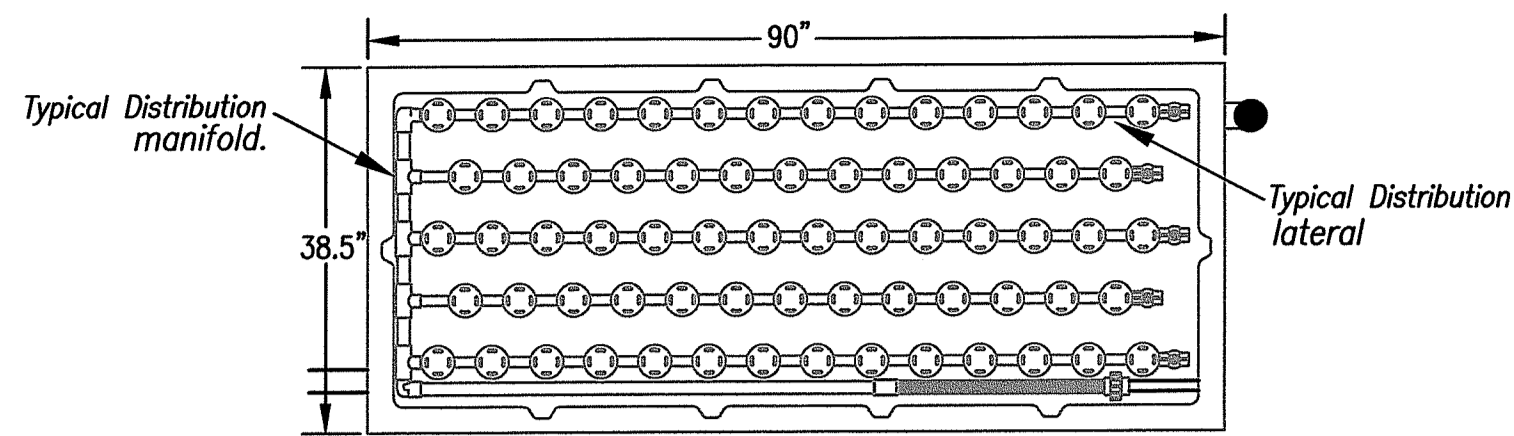
NO.	DATE	DESCRIPTION
1	8/18/2022	REVISED LEACHFIELD & MODIFICATIONS TO GRAVEL DRIVEWAY, UTILITIES, AND EASEMENT
2	9/26/2022	REVISED SITE GRADING, LAYOUT, BUILDING FOOTPRINTS, DRIVEWAY, UTILITIES & OWTS

DATE: JUNE 8, 2022  
DRAWN BY: SJE COMPS. BY: SJE CHECK BY: MER  
PROJECT NO. 20034  
ISSUED FOR: PERMITTING

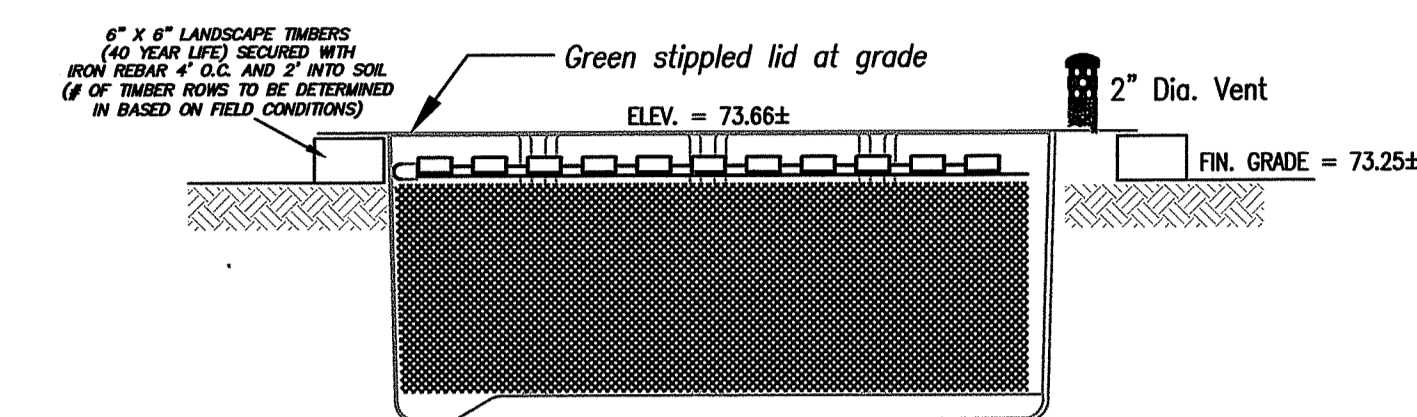
MICHAEL E. RUSSELL  
No. 7956  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**OWTS SITE PLAN**  
1033 CORN NECK ROAD  
NEW SHOREHAM, RHODE ISLAND  
ASSESSORS MAP 2, PARCEL 32  
PREPARED FOR  
DANA ROWAN

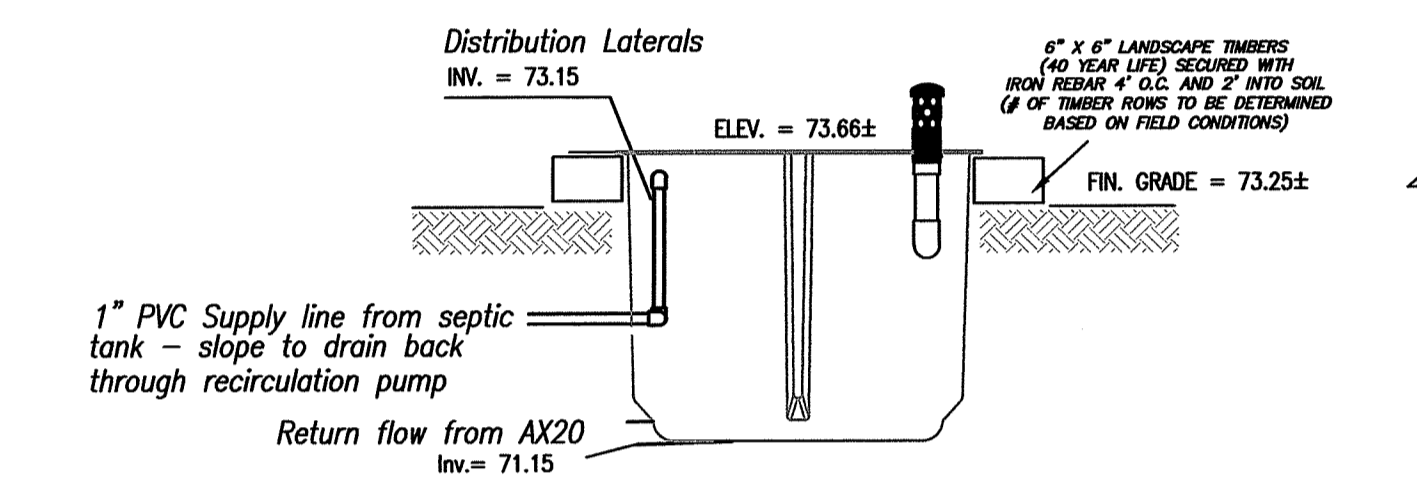
DRAWING TITLE:  
**OWTS SITE PLAN**  
SCALE: 1" = 40'  
SHEET NO.  
**1 OF 2**



TOP VIEW - AX 20 ADVANTEX TEXTILE FILTER



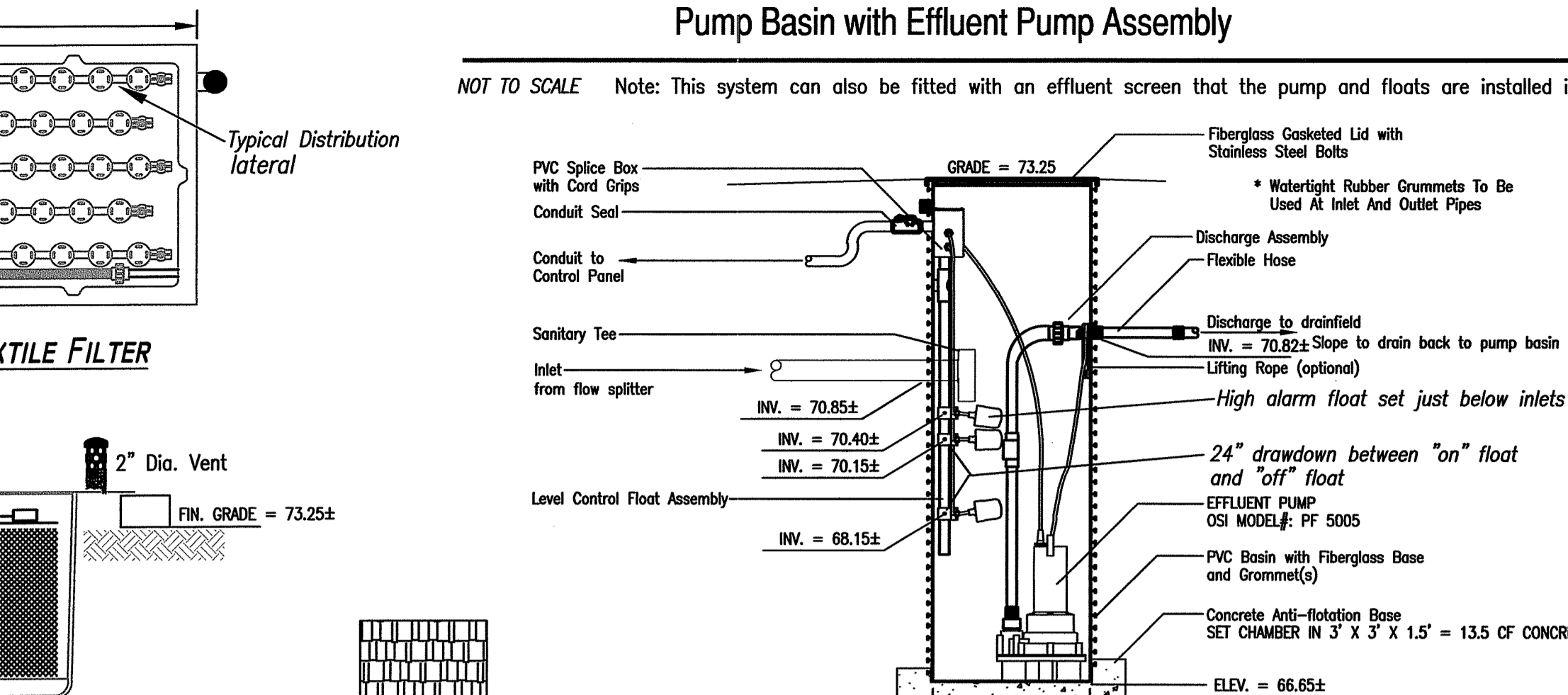
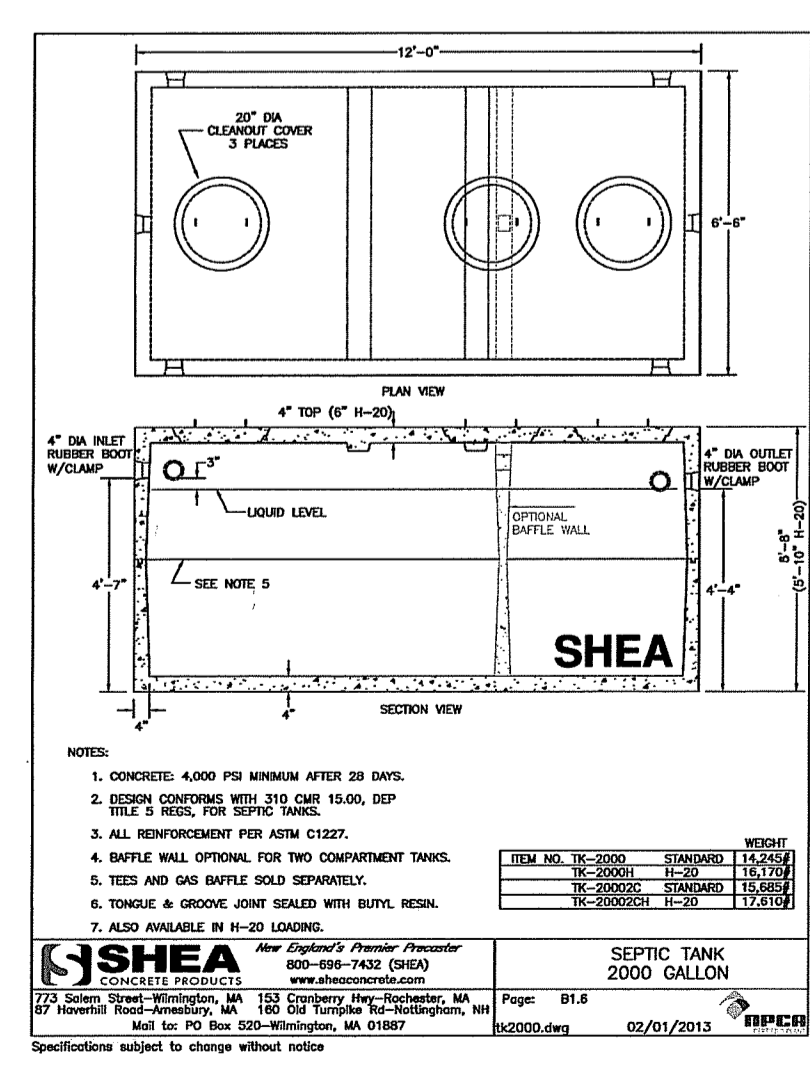
SIDE VIEW - AX 20 ADVANTEX TEXTILE FILTER



End View

SCHEDULE OF PVC PIPE SIZES	
BUILDING TO SEPTIC TANK	4" SCH 40
SEPTIC TANK TO TEXTILE FILTER	1" SCH. 40 OR EQUAL
TEXTILE FILTER MANIFOLD	1" SCH. 40 OR EQUAL
TEXTILE FILTER LATERALS	3/4" SCH. 40 OR EQUAL
TEXTILE FILTER TO PUMP BASIN	1" SCH 40
PUMP BASIN TO DRAINFIELD	1-1/2" SCH 40 OR EQUAL
DRAINFIELD MANIFOLD	1-1/2" SCH. 40 OR EQUAL
DRAINFIELD LATERALS	1" SCH. 40 OR EQUAL

LOCATION	ELEVATION
OUT OF MAIN HOUSE	71.40 (GRAVITY)
OUT OF BARN	70.80 (GRAVITY)
OUT OF BUNKHOUSE	72.40 (GRAVITY)
INTO SEPTIC TANK	70.00 (GRAVITY)
OUT OF SEPTIC TANK TO RECIRCULATION TANK	69.75 (GRAVITY)
INTO RECIRCULATION TANK	69.65 (GRAVITY)
OUT OF RECIRCULATION TANK TO ADVANTEX	71.05 (PRESSURE)
INTO ADVANTEX FILTER LATERAL	73.15 (PRESSURE)
INVERT OF ADVANTEX OUTLET	71.15 (GRAVITY)
INVERT THROUGH SPLITTER VALVE	71.05 (GRAVITY)
INVERT INTO PUMP BASIN	70.85 (GRAVITY)
OUT OF PUMP BASIN	70.82 (PRESSURE)
INV. GEOMAT 3900 LATERALS	70.08 (PRESSURE)

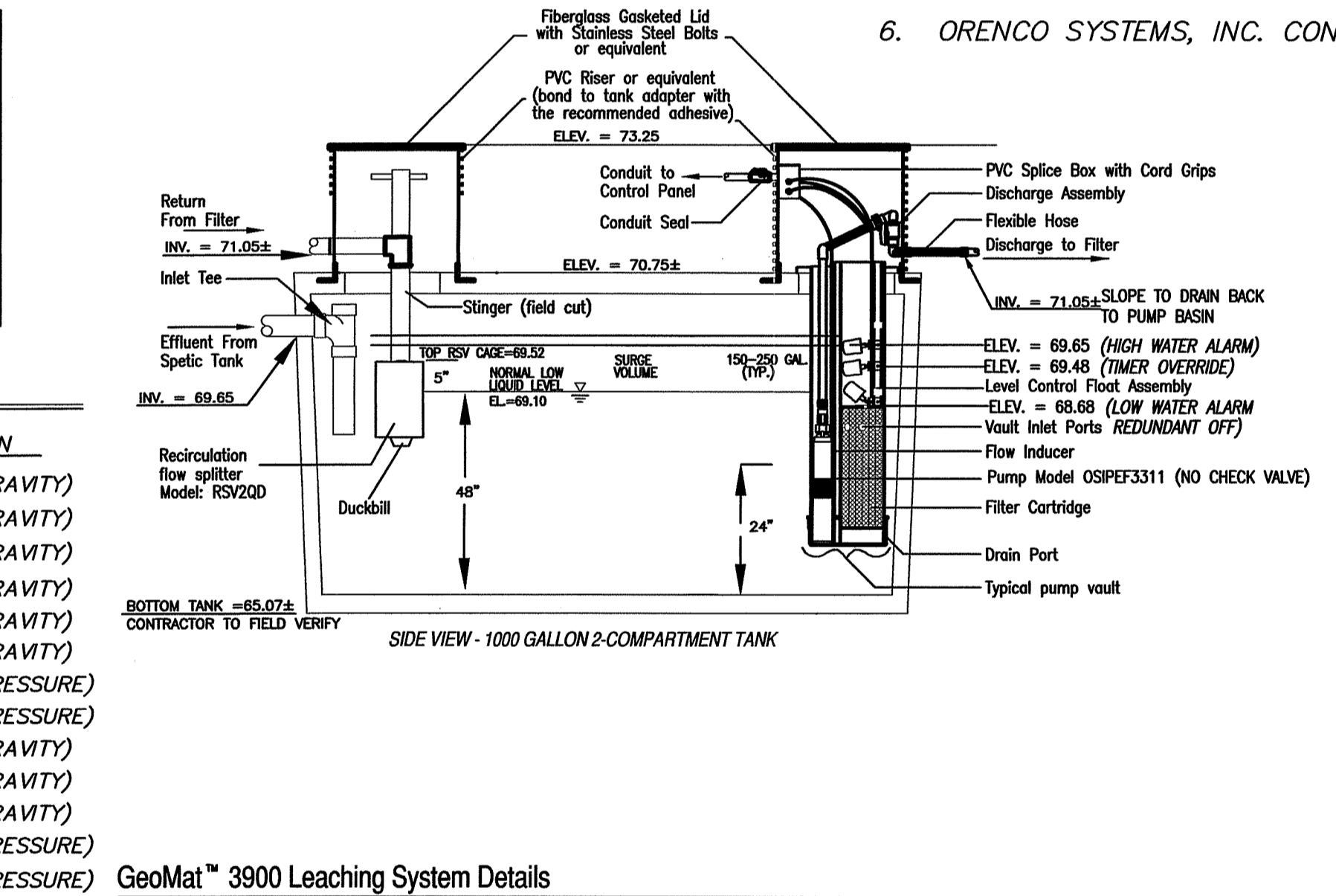


Pump Basin with Effluent Pump Assembly

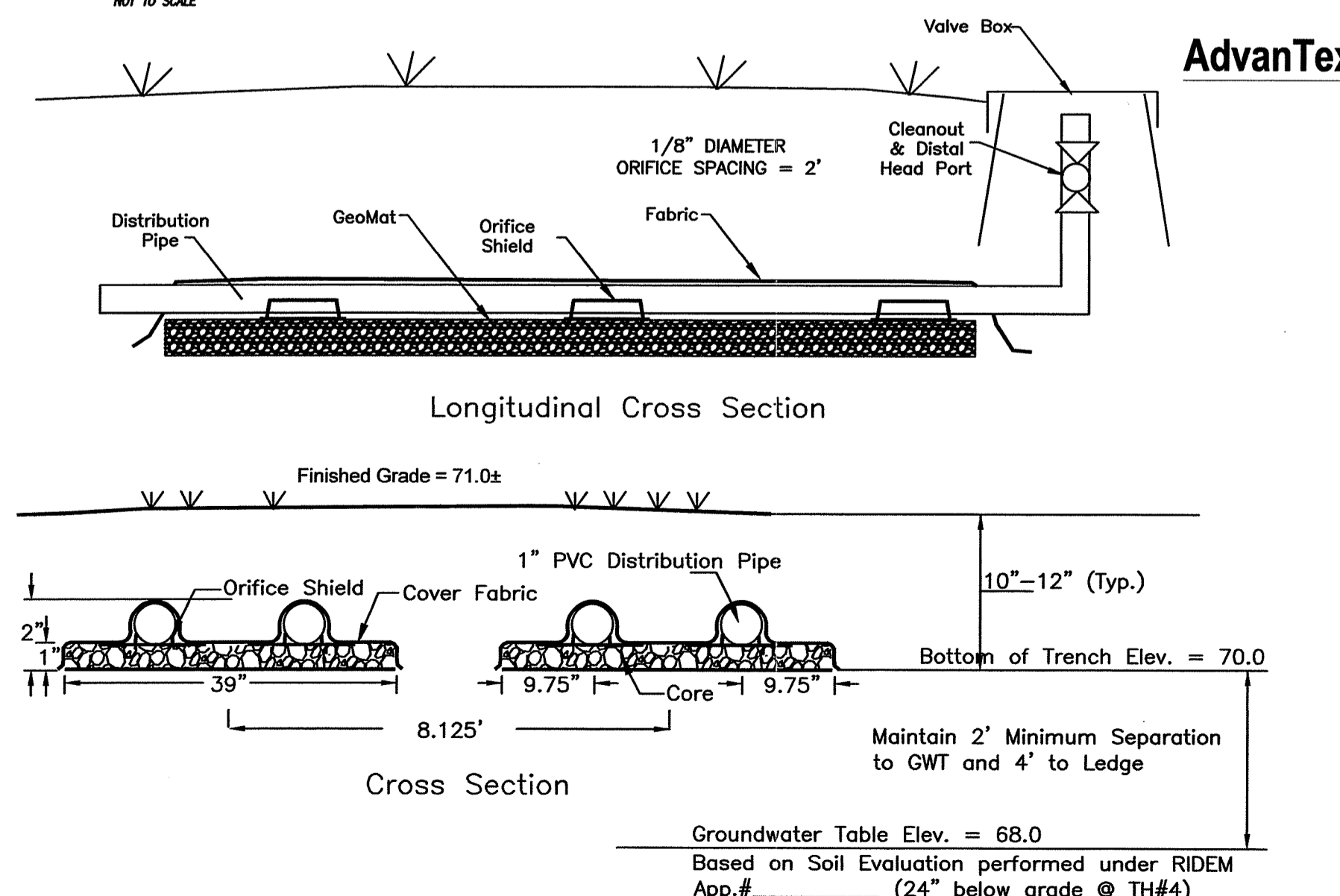
NOT TO SCALE Note: This system can also be fitted with an effluent screen that the pump and floats are installed in.

LIST OF COMPONENTS

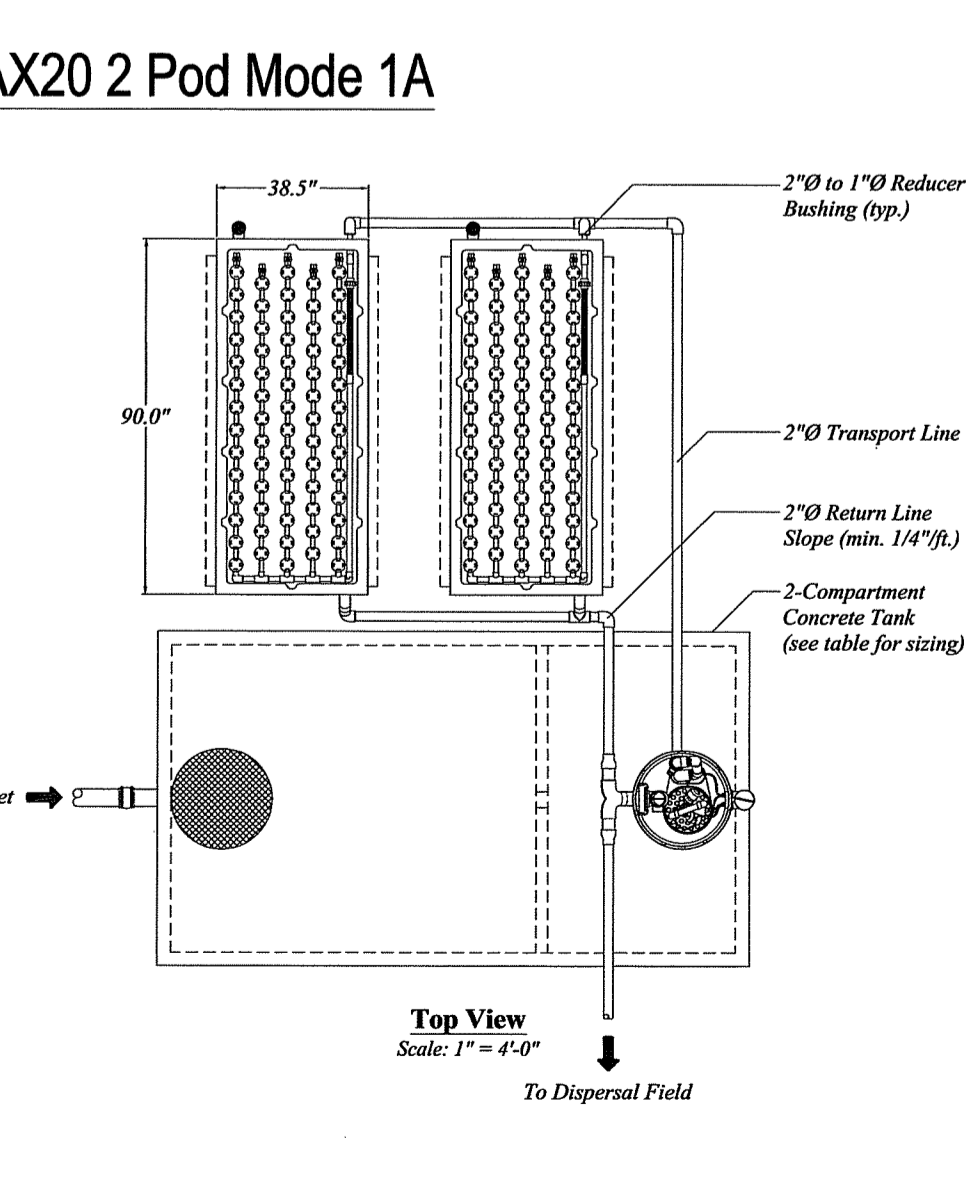
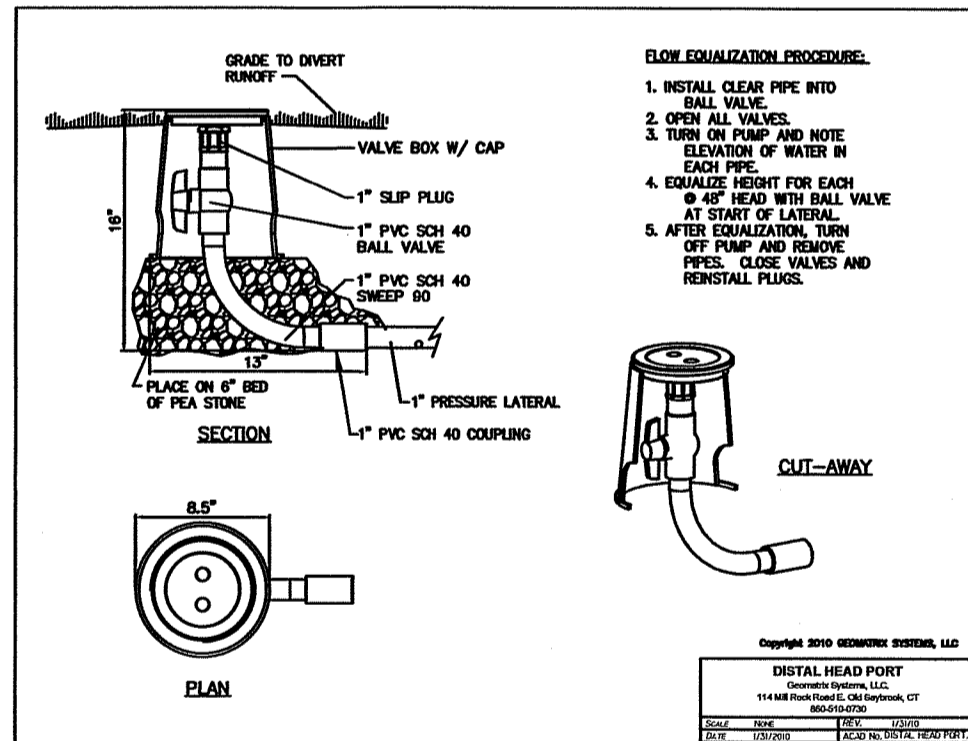
- 1000 GALLON CONCRETE TANK WITH PUMP VAULT AND RECIRCULATION SPLITTING VALVE.
- 2000 GALLON 2-COMPARTMENT SEPTIC TANK
- 24-INCH FIBERGLASS PUMP BASIN
- AX20 ADVANTEX DUAL TEXTILE FILTERS.
- GEOMAT 3900 DRAINFIELD SYSTEM
- ORENCO SYSTEMS, INC. CONTROL PANEL.



GeoMat™ 3900 Leaching System Details

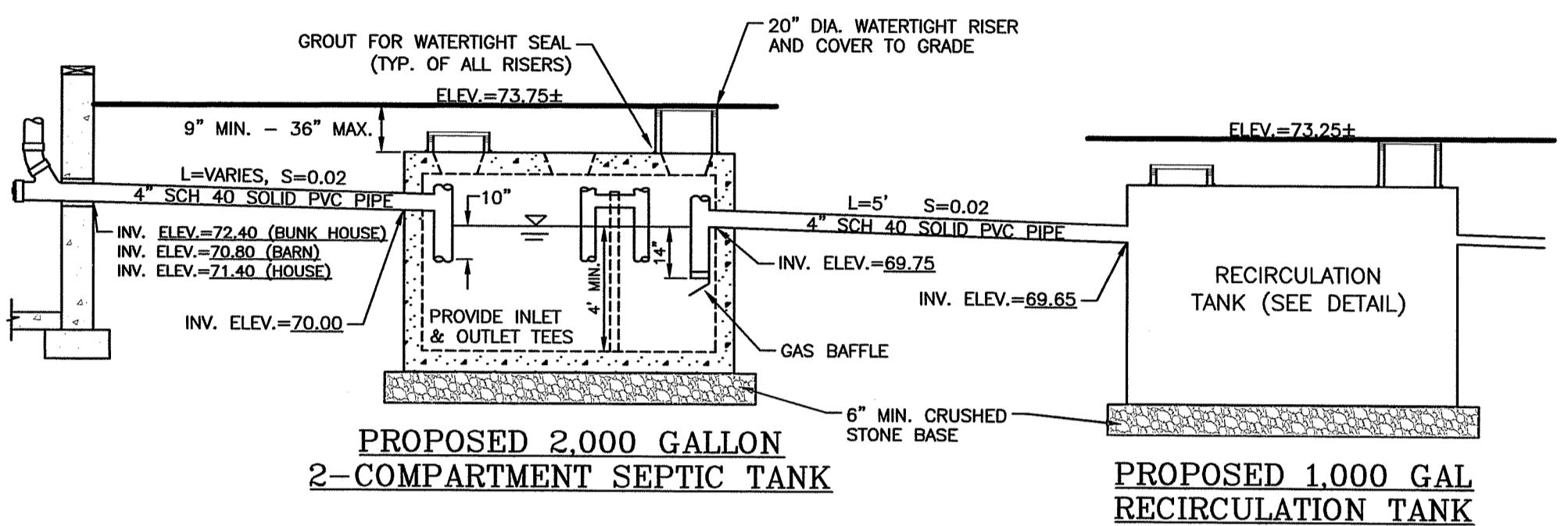


AdvanTex® AX20 2 Pod Mode 1A



PUMP NOTES:

- GENERAL: THE SYSTEM SHALL BE FURNISHED COMPLETE WITH MECHANICAL FLOAT SWITCH LEVEL CONTROLS, HIGH WATER ALARM, PROGRAMMABLE LOGIC CONTROLLER, AND SYSTEM CONTROL PANEL. SYSTEM SHALL BE WARRANTED AGAINST MANUFACTURING DEFECTS FOR AT LEAST ONE YEAR. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT QUANTITY OF CLEAN WATER TO TEST THE PUMPS. THE CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH PUMP SPECIFICATIONS, SHOP DRAWINGS, AND OTHER DATA NECESSARY FOR CERTIFICATION OF THE SYSTEM. THE OWNER SHALL BE PROVIDED WITH TWO (2) SETS OF OPERATION AND MAINTENANCE MANUALS INCLUDING PARTS LISTS FOR THE SYSTEM.
- PUMP BASIN: THE PUMP BASIN SHALL BE 24-INCH FIBERGLASS PUMP BASIN TO THE DEPTH AND ANCHORAGE SPECIFIED ON THESE DRAWINGS. THE BASIN SHALL HAVE A 24-INCH DIAMETER WATERPROOF ACCESS COVER TO FINISH GRADE. CONTRACTOR SHALL PERFORM VACUUM TEST ON PUMP BASIN TO ENSURE WATER-TIGHTNESS IN THE PRESENCE OF THE DESIGN ENGINEER. CONTRACTOR SHALL SUBMIT REPORT TO THE ENGINEER CERTIFYING WATER-TIGHTNESS OF THE STRUCTURE.
- PUMP AND MOTOR: OWTS - PUMPS SHALL BE SUBMERSIBLE EFFLUENT PUMP MANUFACTURED BY ORENCO SYSTEMS, INC. MODEL PF 5005 (230 V, 0.5 HP). PUMPS SHALL BE CAPABLE OF DELIVERING 33.0 GPM @ 21.4 -FT. TDH (PUMP CHAMBER) & MODEL PEF 33 (230V 0.33 HP). PUMP SHALL BE CAPABLE OF DELIVERING 38.4 GPM, 17.5-FT. TDH (AX-20). ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE VOLTAGE AT POWER SOURCE. DESIGN ENGINEER TO BE NOTIFIED OF DISCREPANCIES BETWEEN PUMP CHARACTERISTICS AND AVAILABLE POWER AT THE SITE.
- PIPING: DELIVERY PIPE AND FITTINGS FROM THE PUMP BASIN TO THE DISTRIBUTION BOX SHALL BE SCHEDULE 40 PVC PRESSURE PIPE PER SCHEDULE. ALL PRESSURE PIPE CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH PIPE MANUFACTURER'S GUIDELINES. THE FORCE MAIN SHALL BE LAID IN 'CLASS B' TRENCH BEDDING AND LAID IN A MANNER THAT ALLOWS EFFLUENT TO DRAIN BACK TO THE BASIN FOLLOWING EACH PUMP CYCLE. A VELOCITY REDUCTION TEE/FITTING SHALL BE INSTALLED AT THE OUTLET OF THE FORCE MAIN. PIPING LESS THAN FOUR (4) FEET BELOW THE PROPOSED GROUND ELEVATION SHALL BE INSULATED.
- LEVEL CONTROLS: SEALED FLOAT TYPE MECHANICAL SWITCHES SHALL BE SUPPLIED TO CONTROL THE PUMP LEVEL AND ALARM SIGNAL. THREE FLOAT SWITCHES SHALL BE USED TO CONTROL THE PUMP LEVEL: 1.) ON, 2.) OFF, 3.) HIGH WATER ALARM. THE ALARM SWITCH SHALL BE PROVIDED WITH A POWER SOURCE SEPARATE FROM THE PUMP POWER. FLOAT SWITCHES SHALL BE MECHANICAL SEALED IN POLYURETHANE FLOATS. THE FLOAT LEVEL CONTROLS SHALL BE SET TO OPERATE AT THE ELEVATION INDICATED ON THESE DRAWINGS. A NEMA-4 JUNCTION BOX SHALL BE INSTALLED ABOVE THE TOP OF THE PUMP BASIN.
- CONTROL PANEL: THE SIMPLEX CONTROL PANEL SHALL BE VERICOMM SIRO REMOTE TELEMETRY PANELS COUPLED WITH VERICOMM WEB-BASED MONITORING SYSTEM. PANEL SHALL PROVIDE THREE (3) OPERATING MODES OF BASIC CONTROL LOGIC: 1.) START-UP 2.) NORMAL MODE 3.) TEST MODE. PANEL SHALL BE EQUIPPED WITH BOTH AN AUDIBLE AND LED WARNING INDICATORS. THE CONTROL PANEL SHALL BE MOUNTED ON A PEDESTAL OR EXTERIOR WALL AS RECOMMENDED BY THE MANUFACTURER. THE PANEL SHALL BE HOUSED IN A NEMA-1 ENCLOSURE FOR 120V SINGLE PHASE OPERATION UNLESS OTHERWISE SPECIFIED BY THE ELECTRICAL CONTRACTOR. THE PANEL SHALL ALSO BE EQUIPPED WITH A TRANSFER SWITCH AND RECEPTACLE FOR A PORTABLE GENERATOR.



GENERAL CONSTRUCTION NOTES

- ALL OTHER DESIGN, CONSTRUCTION AND MAINTENANCE REQUIREMENTS WHETHER NOTED HEREON, OR NOT, SHALL BE IN CONFORMANCE WITH RULES & REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS, NOVEMBER 25, 2018, BY THE RIDEM, WITH CHAPTER 42-35, CHAPTERS 42-17.1, 5-58, 5-58.1, 23-19.5, 23-24.3, 46-13.2, AND 23-19.15 OF THE GENERAL LAWS OF RI, 1956 (1977 RE-ENACTMENT) AS AMENDED.
- SEE OWTS SPECIFICATIONS SHOWN ON THIS PLAN SET.
- CLEAR ALL TREES AND STUMPS WITHIN 10' OF SYSTEM.
- CONTRACTOR TO REFER TO GEOMAT 3900 INSTALLATION GUIDELINES AS APPROVED BY RIDEM.
- THERE SHALL BE NO SUBSURFACE, FOUNDATION OR STORM DRAINS WITHIN 25' OF THE SYSTEM.
- COMPLY WITH ALL ADDITIONAL TERMS OF APPROVAL AS MAY BE REQUIRED BY RIDEM.
- TOPOGRAPHY AND SITE PLAN BASED ON LIMITED GROUND SURVEY PERFORMED BY MJ GASTON & ASSOCIATES, LLC. FROM APRIL-JUNE OF 2021.
- BENCHMARK IS SET WITHIN 150' OF PROPOSED OWTS PRIOR TO CONSTRUCTION. (SEE SITE PLAN.)
- THERE ARE NO KNOWN EXISTING OR PROPOSED PRIVATE DRINKING WATER WELLS WITHIN 200' OF THE PROPOSED OWTS OR ALTERNATE AREA EXCEPT AS SHOWN.
- THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE PROPOSED OWTS OR ALTERNATE AREA EXCEPT AS SHOWN.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLAN ON-SITE AT ALL TIMES.
- SCHEDULE 40 PVC PIPE OR EQUAL FROM BUILDING TO SEPTIC TANK.
- THE PROPOSED SEPTIC TANK SHALL BE PROVIDED WITH A PVC INLET TEE AND A SCREENED PUMP VAULT IN THE OUTLET END. AN ACCESS RISER SHALL BE INSTALLED DIRECTLY ABOVE THE INLET TEE AND BALL VALVE, AND THE SCREENED PUMP VAULT.
- THE SEPTIC TANK SHALL BE A WATER-TIGHT, 2000 GAL. 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE PVC WITH SECURED FIBERGLASS LID. IF CONCRETE TANK IS USED, ABS TANK ADAPTOR SHALL BE CAST INTO PLACE. TANK SHALL BE VACUUM TESTED WHEN CONSTRUCTED OR WATER TESTED/VACUUM TESTED ON SITE.
- THE CONTRACTOR MUST FOLLOW ALL ITEMS CIRCLED IN THE LOWER RIGHT HAND AREA OF THE OWTS APPLICATION LABELED--IMPORTANT AND NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
- THE CONTRACTOR MUST NOTIFY LICENSED DESIGNER 48 HOURS PRIOR TO START OF CONSTRUCTION WITH VALID INSTALLERS LICENSE NUMBER. DESIGNER MUST NOTIFY DEM 24 HOURS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH SD 27.00 (g).
- IF CONTRACTOR ENCOUNTERS UNANTICIPATED CONDITIONS DURING CONSTRUCTION WHICH INDICATE THAT THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, INSTALLER SHALL STOP CONSTRUCTION AND NOTIFY THE LICENSED DESIGNER RESPONSIBLE FOR WITNESSING AND INSPECTING THE INSTALLATION.
- THE LICENSED DESIGNER SHALL WITNESS AND INSPECT ALL ASPECTS OF THE INSTALLATION, KEEP RECORDS, PREPARE THE CERTIFICATE OF COMPLETION AND PROVIDE O & M INFORMATION AND RECOMMENDATIONS TO THE OWNER.
- THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENCE ACT OF OMISSION OF A USER OF AN OWTS, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE OWTS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE ADVANTEX AX TREATMENT SYSTEM CONSISTS OF A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED UNIT.
- SMALL DIAMETER, PRESSURIZED PVC PIPE SHALL BE SCHEDULE 40 OR EQUAL, WITH SOLVENT WELDED CONNECTIONS.
- CONTRACTOR TO NOTIFY ENGINEER DURING DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
- ALL TANKS AND APPURTENANCES SHALL BE CONSTRUCTED SUCH THAT ALL ELEMENTS ACT AS A SINGLE WATER-TIGHT UNIT & SHALL BE CONSTRUCTED ACCORDING TO ASTM STANDARD C-1227-97A OR ANY SUPERCEDING UPGRADING OF THIS STANDARD. ALL RISER ADAPTORS SHALL BE CAST IN PLACE DURING TANK MANUFACTURING. ALL INLETS AND OUTLETS SHALL BE CAST IN PLACE WITH CAST-A-SEAL.
- FOR PUMP SPECIFICATIONS REFER TO NOTES BELOW.
- ALL PUMPS SHALL BE EQUIPPED WITH A HIGH WATER LEVEL VISIBLE AND AUDIBLE ALARM POWERED BY A CIRCUIT SEPARATE FROM THE PUMP POWER. THE ALARM SHALL BE LOCATED IN A NORMALLY OCCUPIED AREA OF THE FACILITY OR SHALL BE INSTALLED AS SHOWN ON THE SITE PLAN.
- EXISTING SEPTIC TANK, CESSPOOL (IF APPLICABLE) SHALL BE PUMPED, CRUSHED AND BACKFILLED WITH CLEAN SOIL IN ACCORDANCE WITH RULE 6.56. EFFLUENT
- PIPE SHALL BE CUT & CAPPED.
- THE CONTRACTOR SHALL PROVIDE DESIGNER WITH MATERIAL RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- GROUNDWATER TABLE WAS DETERMINED BY A SOIL EVALUATION PERFORMED BY ECO-SYSTEMS SOLUTION, INC. ON 2/23/2021.
- CONTRACTOR TO COMPACT SOIL BENEATH ALL PRESSURE AND GRAVITY LINES.
- CONTRACTOR TO COORDINATE START-UP WITH MAINTENANCE CONTRACTOR, ELECTRICIAN, AND ENGINEER PRIOR TO COMPLETION.
- GROUNDWATER TABLE FLUCTUATES ANNUALLY. NO GUARANTEE OF A DRY BASEMENT IS EXPRESSED OR IMPLIED.
- THE OWTS IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL.
- ALL APPLICANTS OBTAINING AN OWTS PERMIT FOR A RIDEM APPROVED ALTERNATIVE OR EXPERIMENTAL TECHNOLOGY REQUIRING SPECIAL OPERATION AND MAINTENANCE PROCEDURES SHALL: A) FILE A COPY OF THE INITIALLY EXECUTED CONTRACT FOR THE OWTS'S OPERATION AND MAINTENANCE, (INCLUDING ALL REQUIRED MAINTENANCE PROCEDURES AND MONITORING SCHEDULES) WITH THE LAND EVIDENCE RECORDS OF THE MUNICIPALITY IN WHICH THE OWTS IS LOCATED, AND B) SUBMIT TO THE DEPARTMENT A CERTIFIED COPY OF THE RECORDED PERMIT SETTING FORTH THE DATE OF THE RECORDATION AND THE BOOK AND PAGE WHERE THE PERMIT IS LOCATED IN THE RECORDS OF THE MUNICIPAL LAND EVIDENCE OFFICE.

**IDE LDEC**  
Land Development Engineering & Consulting, LLC  
207 High Point Avenue, Unit 6  
Portsmouth, RI 02871  
T: 401-354-2050 F: 401-369-9775  
WWW.SDE-LDEC.COM

NO.	DATE	DESCRIPTION
2	9/26/2022	REVISED SITE GRADING, LAYOUT, BUILDING FOOTPRINTS, DRIVEWAY, UTILITIES & OWTS
1	8/18/2022	REVISED LEACHFIELD & MODIFICATIONS TO GRAVEL DRIVEWAY, UTILITIES, AND EASEMENT

DATE: JUNE 8, 2022

DRAWN BY: SJE COMPS BY: SJE CHECK BY: MER

PROJECT NO. 20034

ISSUED FOR: PERMITTING

**MICHAEL E. RUSSELL**  
No. 7856  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

OWTS CONSTRUCTION DETAILS  
1033 CORN NECK ROAD  
NEW SHOREHAM, RHODE ISLAND  
ASSESSORS MAP 2, PARCEL 32  
PREPARED FOR  
DANA ROWAN

DRAWING TITLE:

OWTS DETAILS

SCALE: AS SHOWN

SHEET NO.

2 OF 2