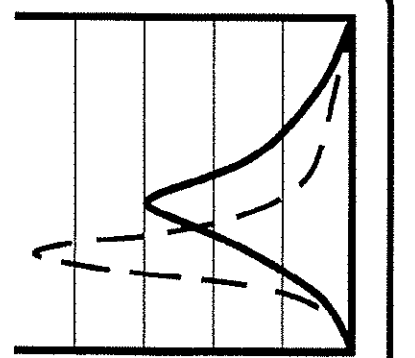


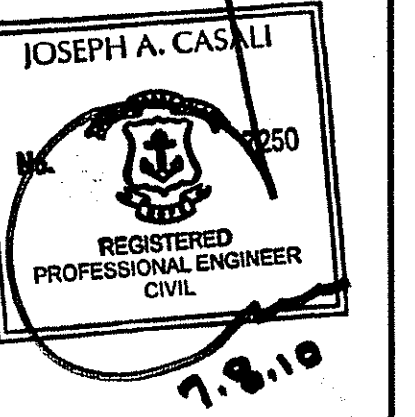
# SITE PLANS FOR THE RECONSTRUCTION OF AN EXISTING 1 BEDROOM SINGLE FAMILY DWELLING

AP 155 LOT 36  
455 WALLUM LAKE ROAD  
BURRILLVILLE, RHODE ISLAND

ZONING DISTRICT: R-20



**JCE**  
JOE CASALI ENGINEERING, INC.  
CIVIL, SITE DEVELOPMENT, TRANSPORTATION  
DRAINAGE - 300 POST ROAD, WARWICK, RI 02888  
(401) 944-1300 (401) 944-1313 FAX WWW.JCEONLINE.COM

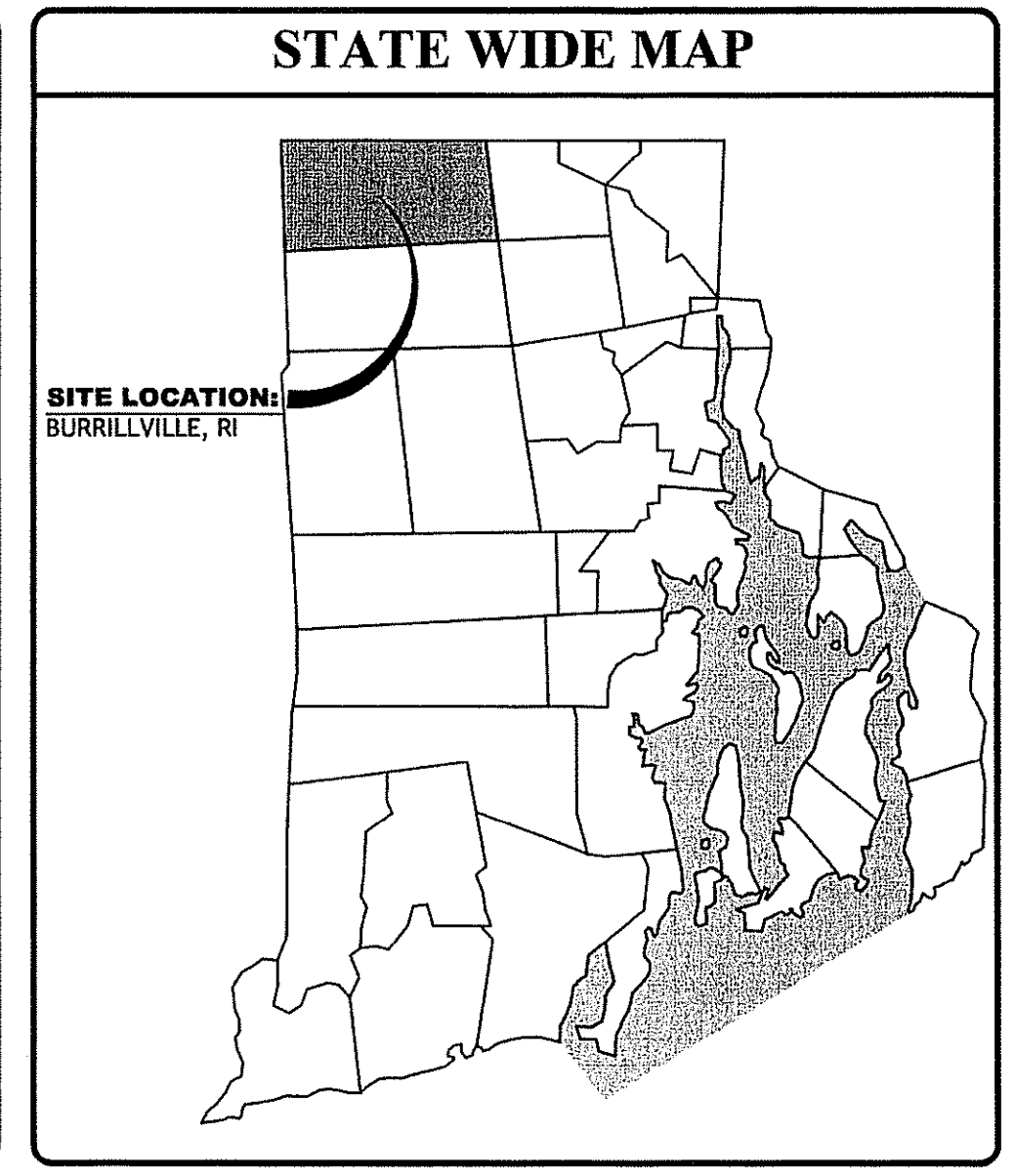
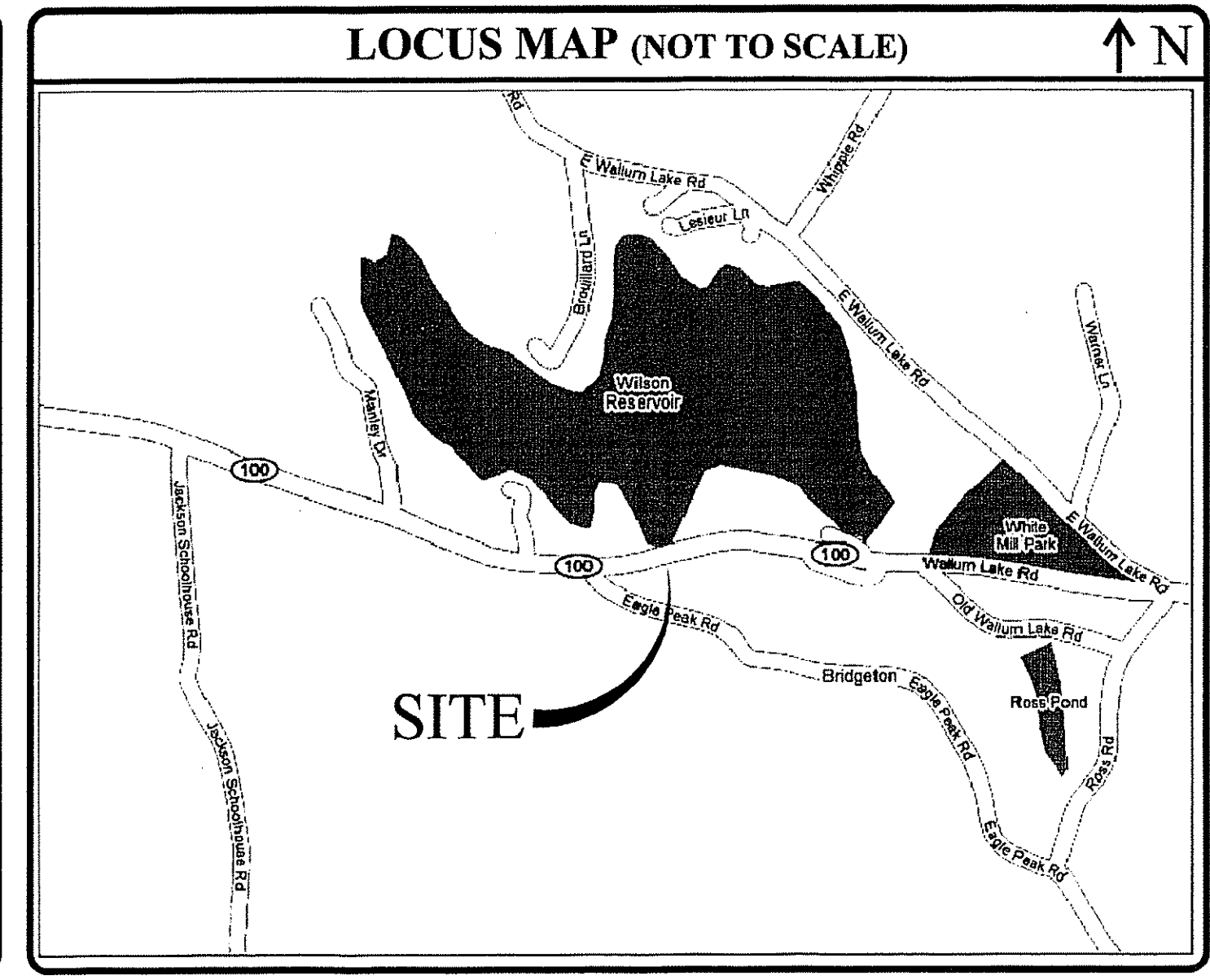


AP 155 LOT 36  
455 WALLUM LAKE ROAD  
BURRILLVILLE, RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 17 2010 FILE # 09-0011  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.  
*Matthew D. Wencel*

Q:\06-46 John Connors\06-46c Wallum Lake Road\06-46c-PLAN CP5-RI\_recover.dwg Jul. 13. 2010 4:43pm

PROJECT TEAM	
<b>OWNER:</b>	JOHN CONNORS 460 CAMP DIXIE ROAD PASCOAG, RI 02859
<b>CIVIL:</b>	JOE CASALI ENGINEERING, INC 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313
<b>SURVEYOR:</b>	CANAVAN & ASSOCIATES CONSTRUCTION SURVEYING, INC. 10 LATHAM FARM ROAD SMITHFIELD, RI PHONE: 401-233-2436



**INDEX OF DRAWINGS**

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1.	COVER SHEET
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3.	EXISTING CONDITIONS PLAN
4.	SITE PLAN
5.	DETAILS

**REVISIONS:**

NO.	DATE	DESCRIPTION	RIDEM COMMENTS
1	3/09/10		

DESIGNED BY: NW.RCS  
DRAWN BY: WL  
CHECKED BY: JAC  
DATE: SEPTEMBER 08  
PROJECT NO: 06-46c

SUBJECT TO RIDEM  
APPROVAL

**COVER SHEET**

**SHEET 1 OF 5**

**BOTTOMLESS SANDFILTER NOTES:**

THE BOTTOMLESS SAND FILTER (BSF) IS INCORPORATED AS THE DISPOSAL BED IN THIS DESIGN TO MAXIMIZE THE REMOVAL OF PATHOGENIC ORGANISMS (page 6 RIDEM TRC GUIDELINES).

PER RIDEM NOTICE 4/30/04, TOTAL PEA STONE DEPTH IS INCREASED TO 9" TO REDUCE WINTER FREEZE POTENTIAL.

THIS DESIGN WILL PLACE THE DISPOSAL HORIZON WITHIN THE "A" AND "B" HORIZONS OF THE PARENT SOIL MATERIAL. ONLY THE GRASS THATCH AND/OR ORGANIC LAYERS ARE TO BE REMOVED IN THE CONSTRUCTION OF THE BSF.

THE BSF AREA IS TO BE LOCATED AND STAKED IN THE FIELD BY THE INSTALLER PRIOR TO CONSTRUCTION. PROTECTION AGAINST HEAVY VEHICLE TRAFFIC MUST BE ESTABLISHED IN THE BSF AREA PRIOR TO INITIATING ANY CONSTRUCTION OPERATIONS ON THE SITE. DEGRADATION OF THE PROPOSED SITE AREA WILL REQUIRE A RE-DESIGN.

SYSTEM COMPONENTS WITHIN THIS DESIGN ARE AVAILABLE FROM ORENCO SYSTEMS INC., 814 AIRWAY AVENUE, SUTHERLIN, OR. 97479. LOCAL DEALER INFORMATION IS AVAILABLE AT 1-800-348-9843 OR WWW.ORENCO.COM.

A MINIMUM TEN (10) FEET MUST BE MAINTAINED BETWEEN THE BSF AND ADJACENT TREES AND SHRUBS.

INTERMITTENT PRESSURE DOSED EFFLUENT WILL PROVIDE A UNIFORM DISTRIBUTION OF WASTE WATER OVER THE BSF AREA, MINIMIZING LOCALIZED SATURATION. LATERAL GATE VALVES ARE DESIGNED FOR PLACEMENT OFF THE HEADER LINE SO AS TO EQUALIZE HYDRAULIC PRESSURE IN THE DISPERSAL.

THE PRESSURE DOSE EFFLUENT LINE IS DESIGNED AS A 1 1/2 INCH HOPE-200 PSI LINE. THE PRESSURE LINE IS TO BE SLOPED BACK TOWARDS THE PUMP CHAMBER FROM THE BSF FIELD TO ELIMINATE FREEZING.

THE BSF SAND MEDIA MUST CONFORM TO ASTM C-33 SPECIFICATIONS. EFFECTIVE SIZE (D10) OF 0.3 mm AND A UNIFORMITY COEFFICIENT (D60/D10) OF 3.0 TO 4.0. MAXIMUM MATERIAL PASSING THE NUMBER 200 SIEVE SHALL BE 1%. THE INSTALLER SHALL PRODUCE GRADATION ANALYSIS RESULTS FOR THE MATERIAL PROVIDED FROM THE SUPPLIER.

PERIMETER STRIPPING OF THE SOIL MATERIAL BELOW THE BSF IS PROHIBITED, UNLESS FILL MATERIAL IS PRESENT.

THE WALLS OF THE BSF ENCLOSURE MUST BE LINED WITH A 30 mil PVC LINER WITH ALL BOOTS, PATCHES, REPAIRS, AND SEAMS HAVING THE SAME PROPERTIES AS THE LINER.

ANY PENETRATION THROUGH THE PVC LINER WALL SHALL BE DONE WITH A PVC BOOT ATTACHMENT GLUED TO THE LINER WITH APPROPRIATE RESILIENT SEALER.

EXCAVATOR/BACKHOE BUCKET USED TO PLACE MEDIA SHALL BE WASHED THOROUGHLY BEFORE LOADING PROCESS.

SAND MEDIA SHALL BE PLACED IN 6 INCH LIFTS AND WETTED TO PROVIDE EVEN SETTLING. AFTER PLACEMENT OF EACH LIFT EDGES OF OF THE FILTER SHALL BE WALKED DOWN, CLEAN SHOES ARE REQUIRED FOR THIS PROCESS.

AFTER SAND MEDIA HAS SETTLED, 3 INCHES OF 3/8 INCH WASHED PEA STONE SHALL BE PLACED OVER SAND MEDIA. AFTER INSTALLATION OF DISTRIBUTION LATERALS ADD 6 INCHES OF WASHED PEA STONE TO COVER THE SYSTEM. NO FILTER FABRIC OF ANY KIND IS TO BE USED BETWEEN THE SAND AND OVERLYING PEA STONE LAYERS.

THE ELEVATION OF THE BSF INVERT SHALL EXTEND 5 FEET BEYOND THE WALL PERIMETER.

WHILE NOT NORMALLY EXPERIENCED, THERE HAVE BEEN REPORTED INSTANCES WHERE SAND FILTER SYSTEMS HAVE BEEN KNOWN TO EXPERIENCE PROBLEMS WITH FREEZING OF PIPES UNDER UNUSUAL CONDITIONS. WHILE MOST SAND FILTER INSTALLATIONS OPERATE PROPERLY AND WITHOUT FREEZING PROBLEMS, THE POSSIBILITY OF FREEZING MAY EXIST UNDER CERTAIN CIRCUMSTANCES. SHOULD THE OWNER WISH TO MAXIMIZE THE AVOIDANCE OF THIS POSSIBILITY, THE OWNER MAY ELECT THE OPTION OF INSTALLING AN ELECTRIC HEAT TRACING SYSTEM ON THE PIPELINES. OWNER SHOULD CONTACT MANUFACTURERS/SUPPLIERS OF SUCH EQUIPMENT FOR FURTHER INFORMATION.

SUPPORT WALLS ARE NEEDED TO PREVENT CAVING OF FILTER WALLS DURING CONSTRUCTION. THESE WALLS SHALL BE RIGID AND MADE OF PLYWOOD (OR EQUIVALENT) AND 2" x 4" SUPPORT BOARDS.

A PERMANENT TOP FRAME STRUCTURE MUST BE PROVIDED ON ANY PORTION OF THE BSF THAT IS INSTALLED ABOVE GRADE (MAX OF 24" ABOVE GRADE). THE PERIMETER OF THE BSF, BELOW THE REQUIRED PERIMETER OF TIMBERS, MAY BE BERMED WITH NATIVE SOIL OR OTHER MATERIAL SUCH AS LANDSCAPE STONE OR OTHER NON-DEGRADING MATERIAL. BELOW GRADE USE OF TIMBERS IS PROHIBITED.

**ADVANTEX AX 20 TREATMENT SYSTEM NOTES:**

THE AX 20 SYSTEM IS AN ORENCO COMPONENT SYSTEM AND THIS DESIGN IS PREDICATED UPON AN INSTALLATION IN THE SERIES 3B MODE. IN MODE 3B THE FILTRATE RECIRCULATES BACK TO THE HIGH-CARBON, LOW OXYGEN ENVIRONMENT OF THE PROCESSING TANK. THIS PROCESS ALLOWS MICROBES TO REDUCE NITRATES TO NITROGEN GAS, DENITRIFYING THE EFFLUENT. THE INSTALLER OF THIS SYSTEM MUST BE LICENSED BY ORENCO, INC.

THE UNIT UTILIZED IN THIS DESIGN IS AN ORENCO AX 20, WITH COLD WEATHER CONFIGURATION.

IT IS CONDITIONAL IN THIS DESIGN THAT THE LID OF THE AX 20 UNIT BE TREATED WITH 2 INCHES OF FOAM INSULATION TO REDUCE FREEZING POTENTIAL.

A THERMOSTATICALLY CONTROLLED IN-LINE HEATER TO PRE-HEAT TREATMENT AIR IS AN OPTION WHICH IS RECOMMENDED IN THIS PLACEMENT.

THE INCORPORATION OF THE AX 20 SYSTEM WILL PROVIDE FOR A CATEGORY 1 TREATMENT SYSTEM, AN ADVANCED TREATMENT UNIT THAT IS TIME DOSED AS CLASSIFIED BY THE RIDEM.

EXTREME CARE TO BE TAKEN IN THE PLACEMENT OF THE EFFLUENT PRESSURE LINE FROM THE AX-20 PUMP CHAMBER TO THE BOTTOMLESS SAND FILTER. SOIL BASE IS TO BE COMPACTED TO PREVENT SETTLEMENT AND A MINIMUM SLOPE OF 1/8 INCH PER FOOT FROM BSF TO THE PUMP CHAMBER.

RVS LEVEL: FOR STINGER PIPE LENGTHS UP TO 24" LONG, THE LOW LIQUID LEVEL WILL BE APPROXIMATELY 5"-6" BELOW THE TOP OF THE RVS CAGE. (LOW LIQUID LEVEL IS THE LEVEL AT WHICH 100% OF THE FILTRATE RETURNS TO THE TANK.) FOR MOST RESIDENTIAL APPLICATIONS, THE RECOMMENDED SURGE VOLUME IS APPROXIMATELY 150 TO 250 GALLONS (APPROX. 50% TO 100% OF ACTUAL FLOW). THE SURGE VOLUME IS THE VOLUME BETWEEN THE LOW LIQUID LEVEL AND THE HIGH WATER ALARM FLOAT. FOR MODE 3 INSTALLATIONS, THE DUCKBILL MODEL RVS IS REQUIRED, WHICH HAS A FLEXIBLE PVC TUBE THAT VENTS THE RVS CAGE TO THE ATMOSPHERE.

FLOAT LEVELS: TYPICALLY THE BOTTOM FLOAT SHOULD BE POSITIONED AS CLOSE TO THE TOP OF THE BIOTURE CARTRIDGE AS POSSIBLE. THE TOP FLOAT IS NORMALLY SET ONE TO TWO INCHES BELOW THE INVERT OF THE TANK INLET. FOR MOST RESIDENTIAL APPLICATIONS, THE RECOMMENDED SURGE VOLUME IS APPROXIMATELY 150 TO 250 GALLONS (APPROX. 50% TO 100% OF ACTUAL FLOW). THE SURGE VOLUME IS THE VOLUME BETWEEN THE LOW LIQUID LEVEL AND THE HIGH WATER ALARM FLOAT. BE SURE TO CHECK PLANS FOR ANY SITE SPECIFIC OR TANK SPECIFIC FLOAT SETTINGS.

**OPERATIONAL AND MAINTENANCE NOTES:**

THIS SYSTEM SHALL PROVIDE FOR AN AUDIBLE ALARM FOR HIGH WATER IN THE PUMP CHAMBERS WHICH MAY BE SILENCED BY PUSHING A BUTTON ON THE CONTROL PANEL. THIS SITUATION MAY DEVELOP WITH UNUSUALLY HIGH WATER USAGE AND WILL NOT INDICATE AN ONGOING PROBLEM. REPEATED ALARMS, OR ALARMS WITH NO UNUSUAL WATER USAGE SHOULD BE REPORTED TO YOUR MAINTENANCE PROVIDER.

THE PROPERTY OWNER SHALL ENTER INTO MAINTENANCE CONTRACTS FOR BOTH THE ADVANTEX AX SYSTEM AND THE BSF DISPOSAL FIELD. EACH UNIT SHOULD HAVE A MINIMUM OF 2 INSPECTIONS ANNUALLY.

THE MAINTENANCE PROVIDER SHALL AFFIX THEIR NAME AND 24-HOUR CONTACT PHONE INSIDE THE CONTROL BOX LOCATED ON THE EXTERIOR OF THE HOUSE.

THE BSF INSPECTION SHALL INCLUDE A SAMPLING OF THE BSF EFFLUENT TO CHECK FOR CLARITY.

BSF LATERALS SHALL BE CLEANED ANNUALLY BY OPENING THE LATERAL END BALL VALVE AND CLEANING THE ENTIRE LENGTH OF THE LATERAL WITH A BOTTLE BRUSH. THE ACCUMULATED CLEANED MATERIAL MAY BE DEPOSITED IN THE INLET OF THE SEPTIC TANK. EACH LATERAL IS TO BE FLUSHED AS REQUIRED.

THE TOP OF THE BSF FIELD IS TO BE KEPT CLEAN OF DEBRIS AND UNWANTED VEGETATION (WEEDS, LEAVES, BRUSH, ETC.). LANDSCAPE TIMBERS AS DESIGNED SHALL BE MAINTAINED TO PREVENT CRUSHING OF THE SYSTEM BY UNWANTED LOADS, AND SURFACE WATER INDICATION OF THE SYSTEM.

ELECTRONIC COMPONENTS OF THE ADVANTEX AND THE BSF SYSTEMS SHALL BE CHECKED ANNUALLY FOR OPERATION.

ALL FLOATS IN THE PUMP CHAMBERS SHALL BE HOSED DOWN AND CLEANED FROM BUILD-UP.

THE INLET OF THE SEPTIC TANK AND THE DOSING TANK SHALL BE INSPECTED FOR SLUDGE AND SCUM ACCUMULATION. WHEN THESE MATERIALS BUILD UP TO 33% OF THE SEPTIC TANK HEIGHT, THE TANK SHOULD BE PUMPED AND THE ACCUMULATIONS APPROPRIATELY REMOVED.

THE FILTER IN THE PUMP CHAMBERS SHALL BE CLEANED ANNUALLY.

SHOULD THE PUMP ASSEMBLY BE REMOVED, THE VAULT SHALL BE CLEANED AND FILLED WITH CLEAN WATER TO PREVENT THE SCREEN FROM BEING FOULED WITH SOLIDS.

TIMER SETTINGS SHALL BE CHECKED AT EVERY ESTABLISHED MAINTENANCE AND INSPECTION VISIT AND ADJUSTED AS NEEDED BY THE SERVICE PROVIDER.

ALL TANKS AND BASINS SHALL BE VISUALLY INSPECTED FOR WATERTIGHTNESS.

PROPERTY OWNER TO REDUCE ANY SHADING IN THE AREA OF THE BOTTOMLESS SAND FILTER TO REDUCE FREEZE POTENTIAL. ANY ACTIVITY TO REDUCE SHADING MUST BE IN ACCORDANCE WITH THE RIDEM WETLANDS APPROVALS.

**GENERAL OWTS NOTES:**

THIS DESIGN IS SUBMITTED TO RIDEM TO BE REVIEWED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. CONSTRUCTION OF THIS SYSTEM WILL REQUIRE THE DESIGNER'S CERTIFICATE OF CONSTRUCTION FOR OWTS.

UNLESS OTHERWISE SPECIFIED, THE SYSTEM HAS NOT BEEN DESIGNED WITH THE PROVISIONS FOR GARBAGE GRINDERS.

THERE ARE NO KNOWN PUBLIC WELLS, EXISTING OR PROPOSED, WITHIN 500 FEET OF THE DESIGNED SYSTEM UNLESS SHOWN.

THERE ARE NO KNOWN WELLS, EXISTING OR PROPOSED, WITHIN 200 FEET OF THE LEACHING AREA, NOR SEPTIC SYSTEMS WITHIN 100 FEET OF THE WELL UNLESS SHOWN.

THERE ARE NO KNOWN SURFACE WATER DRAINS OR TRIBUTARIES WITHIN 200 FEET OF THE SYSTEM OR ALTERNATE AREA WHICH DRAIN TO A CRITICAL RESOURCE AREA PER SD 19.00 - 19.03 UNLESS SHOWN.

THIS SEWERAGE DISPOSAL SYSTEM SHALL CONFORM TO ALL THE REGULATIONS UNDER SECTIONS 42-17.1-2(1), (M) (R) AND (S) AND SECTION 23-19.5-4 AND CHAPTER 42-35 OF THE GENERAL LAWS OF RHODE ISLAND.

ALL PIPES EXCEPT IN THE LEACHING FIELD SHALL BE SOLID 4 INCH DIAMETER SDR 35 WITH WATER TIGHT JOINTS OR EQUIVALENT UNLESS OTHERWISE SPECIFIED.

ALL GRAVITY PIPES UNLESS OTHERWISE SPECIFIED SHALL HAVE A SLOPE NOT LESS THAN 1/8 INCH PER FOOT BUT NO GREATER THAN 3%.

SEPTIC TANK AND DOSING TANK SHALL BE SET ON A LEVEL STABLE BASE THAT WILL NOT SETTLE.

INSPECTIONS OR AS-BUILT PLANS ARE REQUIRED, DESIGNER MUST BE NOTIFIED 48 HOURS IN ADVANCE AND COMPONENTS OF SYSTEM MUST BE LEFT EXPOSED.

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

THE HAYBALE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.

THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED CONSTRUCTION AREA. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.

ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.

ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.

THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.

ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993.

**MISCELLANEOUS UTILITY NOTES:**

PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.

IF REQUIRED, OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THESE OPERATIONS.

THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.

**LAYOUT NOTE:**

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS RULES AND REGULATIONS GOVERNING THE ENFORCEMENT OF CHAPTER 46-13.2 RELATING TO THE DRILLING OF DRINKING WATER WELLS AS AMENDED**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT DIVISION OF GROUNDWATER AND FRESHWATER WETLANDS  
235 PROMENADE STREET  
PROVIDENCE, RHODE ISLAND 02908

**WELL NOTES:**

**9.02 PROCEDURE FOR PERMANENT ABANDONMENT IN THE EVENT OF PERMANENT ABANDONMENT OF ANY WATER WELL THE PROPER PROCEDURE AND MATERIALS SHALL BE USED, AS FOLLOWS:**

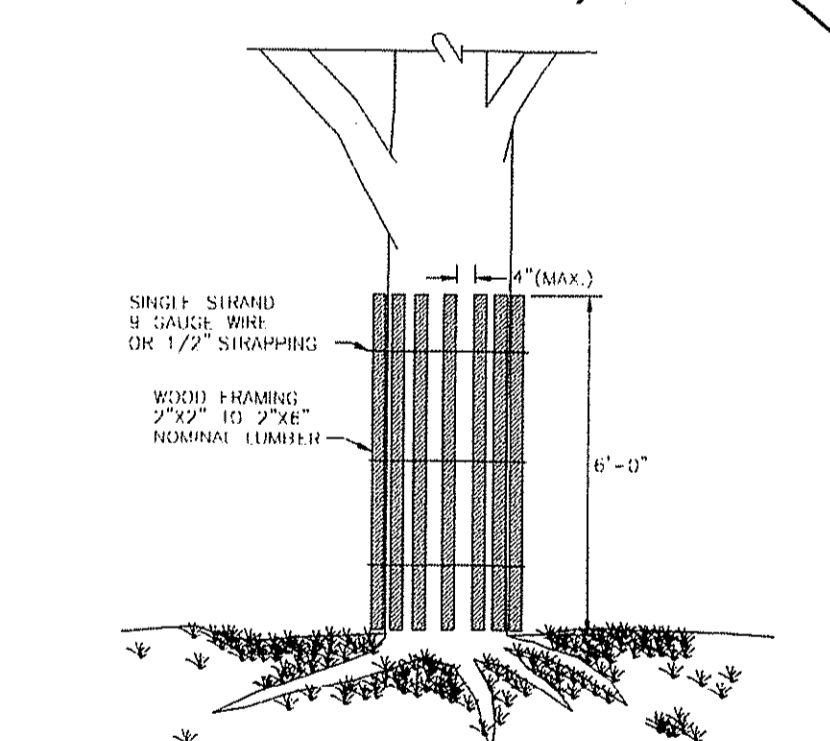
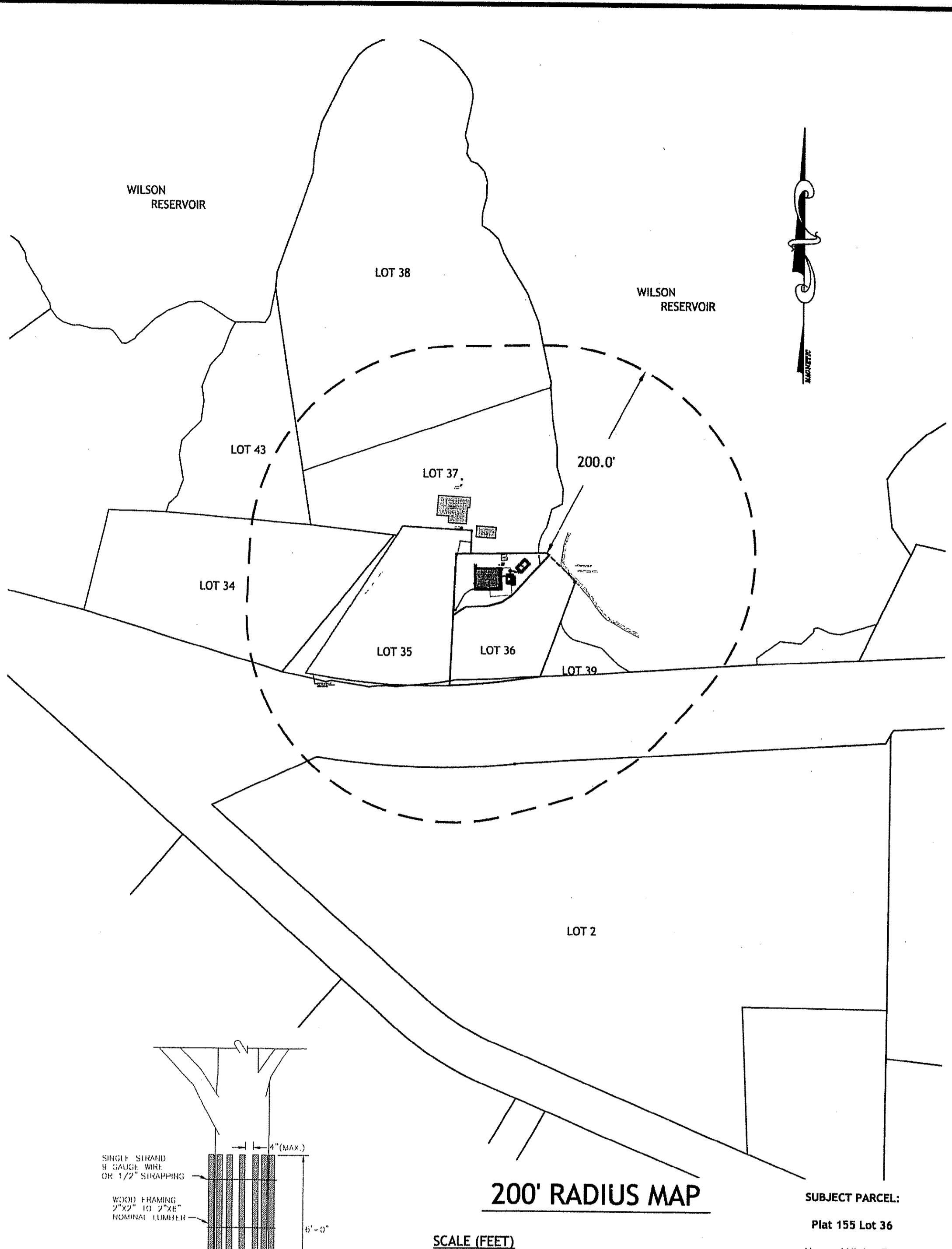
- THE WELL SHALL BE PLUGGED TO PREVENT THE ENTRANCE OF SURFACE WATER, CIRCULATION OF WATER BETWEEN OR AMONG PRODUCING ZONES, OR ANY OTHER PROCESS RESULTING IN THE CONTAMINATION OR POLLUTION OF GROUNDWATER RESOURCES.
- THE WELL SHALL BE SEALED WITH A WATERTIGHT CAP OR SEAL.
- THE WELL SHALL BE CHLORINATED PRIOR TO ABANDONMENT USING A CHLORINE SOLUTION WITH A MINIMUM CONCENTRATION OF ONE HUNDRED FIFTY PARTS PER MILLION (150 PPM) OF RESIDUAL CHLORINE.
- THE WELL SHALL BE CHECKED FROM LAND SURFACE TO THE ENTIRE DEPTH OF THE WELL BEFORE IT IS SEALED, TO ENSURE AGAINST THE PRESENCE OF ANY OBSTRUCTION THAT WILL INTERFERE WITH SEALING OPERATIONS.
- ALL CASING AND SCREEN MATERIALS THAT HAVE SALVAGE VALUE MAY BE REMOVED BY THE CONTRACTOR.
- THE WELL BORE SHALL BE FILLED AND SEALED WITH ANY OF THE FOLLOWING MATERIALS: HEAT CEMENT GROUT, OR SAND CLAY OR BENTONITE CEMENT GROUT.
- THE GROUT MATERIAL SHALL BE PLACED THROUGH A PIPE EXTENDING TO THE BOTTOM OF THE WELL, WHICH SHALL BE RAISED AS THE WELL IS FILLED. ANY WELL CONSTRUCTED IN A CONSOLIDATED ROCK FORMATION, MAY BE FILLED WITH FINE SAND IN THE ZONE OR ZONES OF CONSOLIDATED ROCK BUT CANNOT ALLOW THE CIRCULATION OF WATER BETWEEN OR AMONG PRODUCING ZONES. THE TOP OF THE SAND FILL SHALL BE AT LEAST TEN (10) FEET BELOW THE TOP OF THE CONSOLIDATED ROCK, AND THE REMAINING SPACE WITH THE MATERIALS SPECIFIED IN SUBSECTION (F.).
- ANY TEST WELL OR BORE SHALL BE ABANDONED IN SUCH A MANNER THAT IT DOES NOT BECOME A CHANNEL FOR THE VERTICAL MOVEMENT OF WATER OR OTHER SUBSTANCE TO THE POTABLE GROUNDWATER RESOURCE.
- UPON COMPLETION OF ABANDONMENT OF THE WELL, THE TOP OF THE CASING OR GROUT MATERIAL SHALL BE TERMINATED AT LEAST FOR (4) FEET BELOW THE GROUND SURFACE.
- PLUGGING AND ABANDONING OF A WELL TO BE ABANDONED SHALL BE PERFORMED ONLY BY A LICENSED WELL DRILLER.

**GENERAL NOTES:**

ALL WORK SHALL BE PERFORMED TO MINIMIZE IMPACTS WITH SURROUNDING TREES. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING ADJACENT TO AND AROUND EXISTING SITE TREES AND SHALL PROVIDE TREE PROTECTION DEVICES AS NEEDED.

**SEQUENCE OF CONSTRUCTION:**

- SURVEY AND STAKE OUT THE PROPOSED BUILDING CORNERS, OWTS AND LIMIT OF DISTURBANCE.
- PLACE SEDIMENTATION BARRIERS (SILT FENCE OR HAYBALES) AS INDICATED ON THE PLAN AND AS STAKED OUT IN THE FIELD. IN NO CASE SHALL THE LIMIT OF WORK EXTEND BEYOND THE SEDIMENTATION BARRIERS.
- BEGIN SITE WORK (CLEARING AND GRUBBING, DEMOLITION, EXCAVATING AND GRADING, ETC.). TOPSOIL IS TO BE STRIPPED AND STOCKPILED WITHIN DISTURBANCE LIMITS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS. STOCKPILES TO BE COVERED OR TEMPORARILY SEEDED.
- BEGIN BUILDING AND OWTS CONSTRUCTION.
- BEGIN DRIVEWAY AND PROPOSED GRADING. LANDSCAPE WHILE BUILDING IS UNDER CONSTRUCTION.
- FINISH BUILDING CONSTRUCTION AND PERMANENT STABILIZATION.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE VEGETATION HAS BEEN ESTABLISHED TO ALL DISTURBED AREAS.



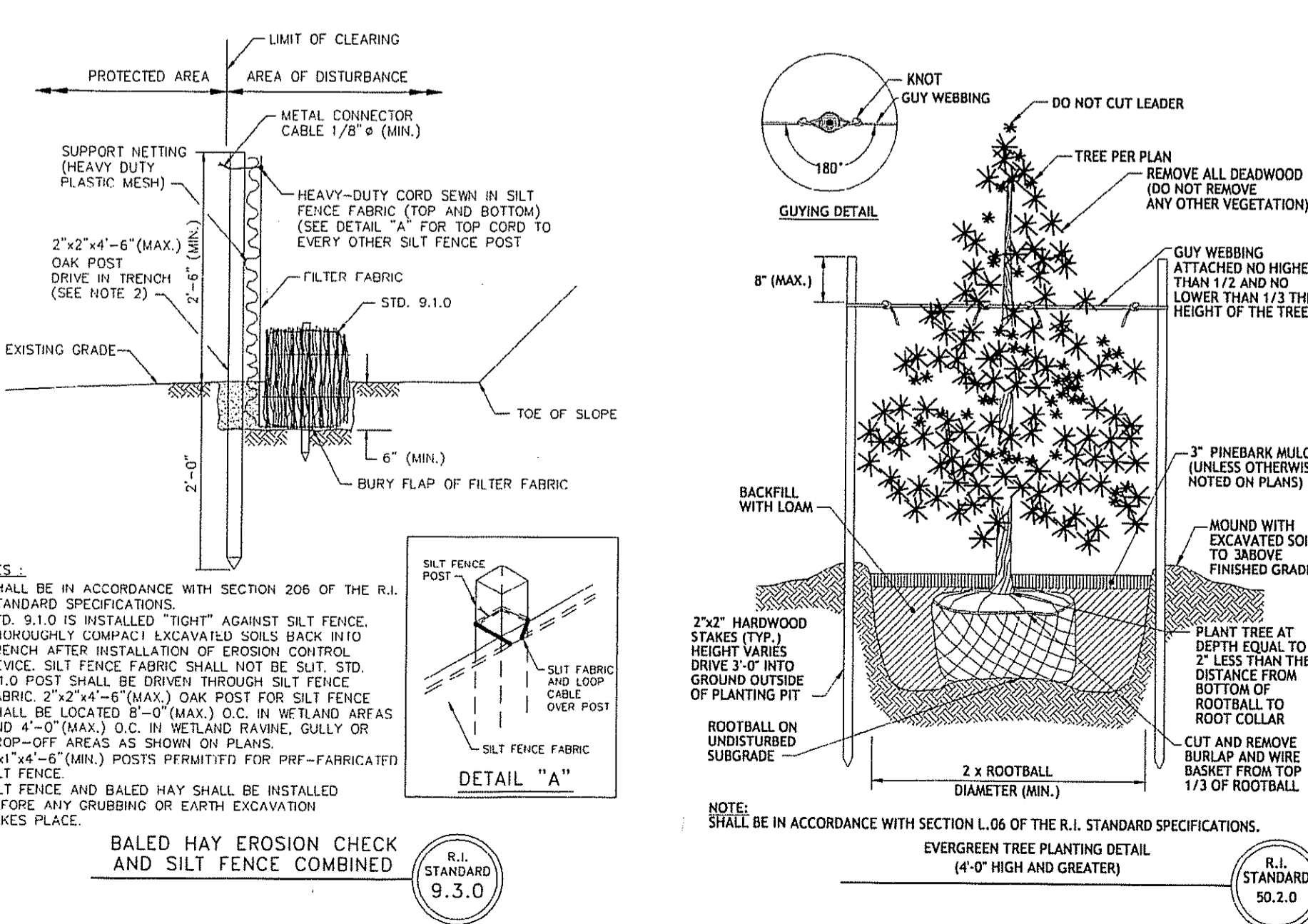
**200' RADIUS MAP**

SCALE (FEET)  
0 40 80 120 240  
1 INCH = 80 FT

SUBJECT PARCEL:  
Plat 155 Lot 36  
Howard Vinica Est.  
C/o Mrs. Joseph Poltitz  
PO Box 327  
Naalethu, HI 96772

**LIST OF ABUTTERS WITHIN 200':**

Plat 155	
Lot 2 Douglas & Donna Harvey 819 Eagle Peak Rd. Pascoag, RI 02859	Lot 39 Douglas & Donna Harvey 819 Eagle Peak Rd. Pascoag, RI 02859
Lot 34 Evan & Melissa Makowski 485 Wallum Lake Rd. Pascoag, RI 02859	Lot 43 Patrice L. Charney 1130 Great Rd. Lincoln, RI 02865
Lot 35 Patrice L. Charney 1130 Great Rd. Lincoln, RI 02865	Lot 37 Patrice L. Charney 1130 Great Rd. Lincoln, RI 02865
Lot 38 John & Christopher Wilson 467 Wallum Lake Rd. Pascoag, RI 02859	



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
  - STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SILT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN NON-WETLAND AREAS. GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
  - 1"x4" (MIN.) POSTS PERMITTED FOR PINE-FABRICATED SILT FENCE.
  - SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



**JCE**

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(401) 944-1300 (401) 944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI  
7250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
1-8-10

**AP 155 LOT 36**  
**455 WALLUM LAKE ROAD**  
**BURRILLVILLE, RHODE ISLAND**

REVISIONS:  
NO. DATE DESCRIPTION  
1 3/09/10 RIDEM COMMENTS

DESIGNED BY: NW/RCS  
DRAWN BY: WL  
CHECKED BY: JAC  
DATE: SEPTEMBER 08  
PROJECT NO: 06-46c

SUBJECT TO RIDEM APPROVAL

**GENERAL NOTES AND DETAILS**

**SHEET 2 OF 5**

C:\06-46 John Connors\06-46c Wallum Lake Road\06-46c-PLAN CFS-Rt - recover.dwg - Jul. 13. 2010 4:44pm

**GENERAL NOTES:**

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
2. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL EXCEPT AS SHOWN.
3. BOUNDARIES SHOWN HEREIN ARE BASED UPON CLASS I SURVEY PREPARED BY CANAVAN & ASSOCIATES CONSTRUCTION SURVEYING INC.

**REFERENCE(S):**

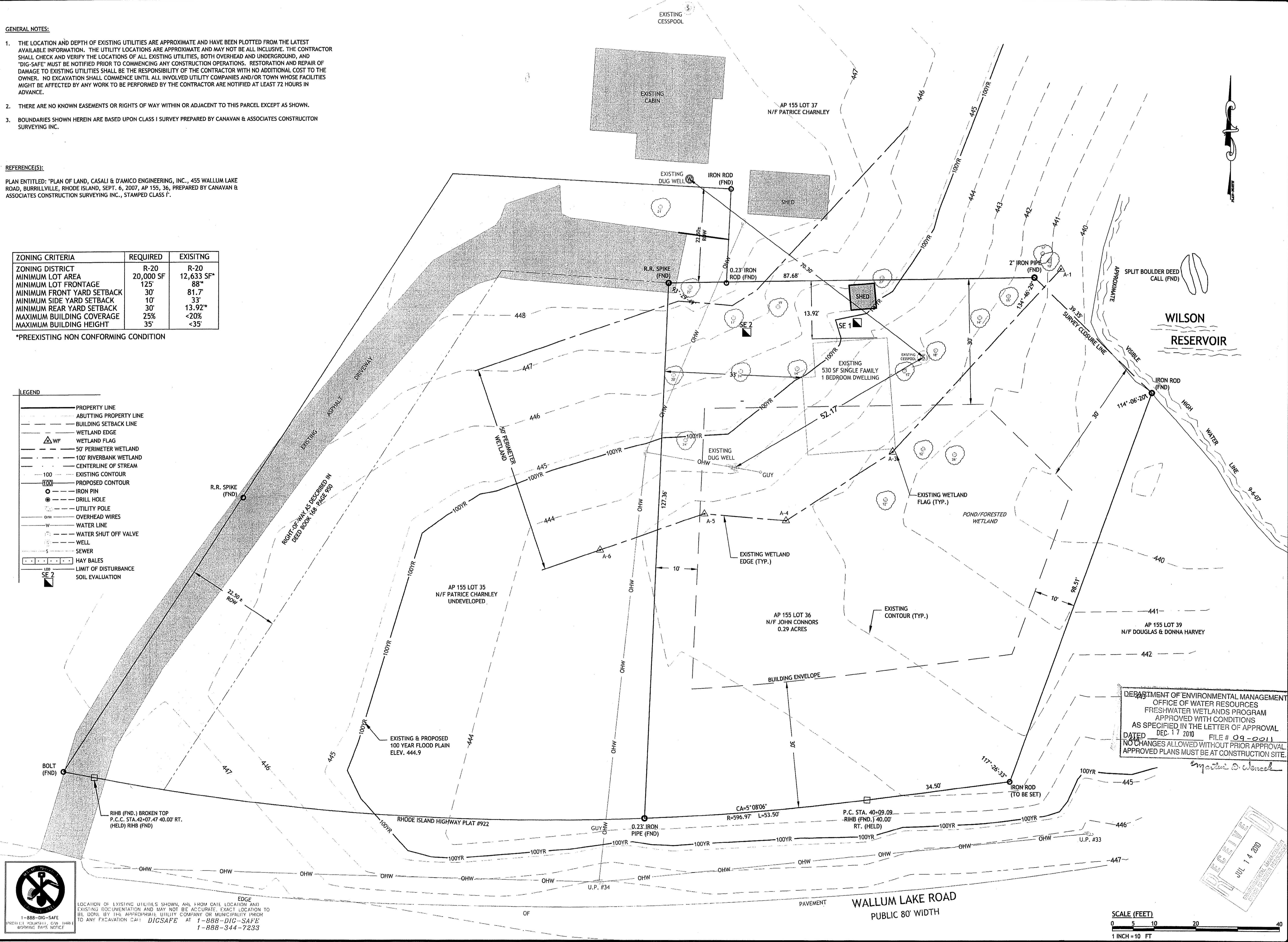
PLAN ENTITLED: "PLAN OF LAND, CASALI & D'AMICO ENGINEERING, INC., 455 WALLUM LAKE ROAD, BURRILLVILLE, RHODE ISLAND, SEPT. 6, 2007, AP 155, 36, PREPARED BY CANAVAN & ASSOCIATES CONSTRUCTION SURVEYING INC., STAMPED CLASS I."

ZONING CRITERIA	REQUIRED	EXISTING
ZONING DISTRICT	R-20	R-20
MINIMUM LOT AREA	20,000 SF	12,633 SF*
MINIMUM LOT FRONTAGE	125'	88'
MINIMUM FRONT YARD SETBACK	30'	81.7'
MINIMUM SIDE YARD SETBACK	10'	33'
MINIMUM REAR YARD SETBACK	30'	13.92'
MAXIMUM BUILDING COVERAGE	25%	<20%
MAXIMUM BUILDING HEIGHT	35'	<35'

\*PREEXISTING NON CONFORMING CONDITION

**LEGEND**

- PROPERTY LINE
- - - ABUTTING PROPERTY LINE
- - - BUILDING SETBACK LINE
- - - WETLAND EDGE
- △ WF WETLAND FLAG
- - - 50' PERIMETER WETLAND
- - - 100' RIVERBANK WETLAND
- - - CENTERLINE OF STREAM
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- IRON PIN
- DRILL HOLE
- UTILITY POLE
- OVERHEAD WIRES
- WATER LINE
- WATER SHUT OFF VALVE
- WELL
- SEWER
- - - HAY BALES
- - - LIMIT OF DISTURBANCE
- SE 2 SOIL EVALUATION



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 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC. 17 2010 FILE # 09-0011  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

**JCE**  
 JOE CASALI ENGINEERING, INC.  
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION  
 300 POPE ROAD, WARREN, RI 02886  
 (401) 944-1300 (401) 944-1313 FAX WWW.JCEONLINE.COM

JOSEPH A. CASALI  
 0250  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

**AP 155 LOT 36**  
**455 WALLUM LAKE ROAD**  
**BURRILLVILLE, RHODE ISLAND**

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	3/09/10	RIDEM COMMENTS

DESIGNED BY: NW, RCS  
 DRAWN BY: WL  
 CHECKED BY: JAC  
 DATE: SEPTEMBER 08  
 PROJECT NO: 06-46c

SUBJECT TO RIDEM APPROVAL

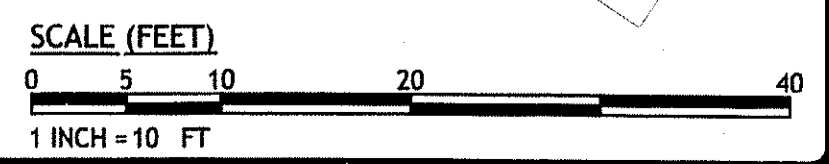
**EXISTING CONDITIONS PLAN**

**SHEET 3 OF 5**

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LOCATION OF EXISTING UTILITIES SHOWN ARE FROM CARE EDGE AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION. CALL DIGSAFE AT 1-888-DIG-SAFE 1-888-344-7233



**SYSTEM ELEVATIONS**

INV. OUT BLDG.	438.27
INV. IN SEPTIC TANK	438.20
INV. IN DOSING CHAMBER	439.38
<b>ADVANTEK TREATMENT SYSTEM</b>	
FINISH GRADE OVER UNIT	442.3*
HIGH WATER ALARM/ OVERIDE TIMER	438.03
LOW WATER ALARM/ REDUNDANT OFF	436.95
INV. RSV CAGE	439.45
PRIMARY DOSING CONTROLLED BY TIMER, FLOATS ARE FOR OVERRIDE PURPOSES ONLY	
<b>DISCHARGE PUMP BASIN</b>	
HIGH WATER ALARM	437.75
PUMP ON	436.57
PUMP OFF	436.21
<b>BOTTOMLESS SAND FILTER</b>	
TOP OF FIELD	444.50
LATERAL OF BSF	443.90
PEA STONE/ SAND FILTER MEDIA INTERFACE	443.65
SOIL/ SAND INTERFACE	441.65
WATER TABLE	440.65

ZONING CRITERIA	REQUIRED	EXISTING	PROPOSED
ZONING DISTRICT	R-20	R-20	R-20
MINIMUM LOT AREA	20,000 SF	12,633 SF*	12,633 SF*
MINIMUM LOT FRONTAGE	125'	88**	88**
MINIMUM FRONT YARD SETBACK	30'	81.7'	87.44'
MINIMUM SIDE YARD SETBACK	10'	33'	26.55**
MINIMUM REAR YARD SETBACK	30'	13.92**	13.92**
MAXIMUM BUILDING COVERAGE	25%	<25%	<25%
MAXIMUM BUILDING HEIGHT	35'	<35'	<35'

\* PREEEXISTING NON CONFORMING CONDITION  
 \*\* DIMENSIONAL VARIANCE REQUIRED BEFORE  
 BURRILLVILLE ZONING BOARD OF REVIEW

**MASS VOLUME CALCULATION**

CUT: 13.48 CU. YD.  
 FILL: 9.39 CU. YD.  
 NET: 4.09 CU. YD. (CUT)

**NOTES:**

1. MASS VOLUME COMPUTATIONS OBTAINED FROM COMPOSITE ANALYSIS OF PROPOSED CONTOURS OVER EXISTING CONTOURS. EARTH VOLUMES ACCURATE TO THE DEGREE OF SAID SURVEY.

**DESIGN DATA**

(1) BEDROOM DWELLING  
 115 GAL/BR/DAY= 115 GAL/DAY  
 115 GAL/DAY @ 2.3 GAL/SF/DAY= 50.0 SF  
 CATEGORY-1 TIME DOSED SYSTEM

**SAND FILTER**

5' X 10' = 50 SF  
 32 ORIFICES (1 ZONE) DOSED AT 0.25 GAL/DOSE= 8.00 GAL  
 9 LF X 1.0"Ø TRANSPORT LINE= 0.37 GAL.

TOTAL FLOW PER DOSE: 8.37 GAL

**FLOAT SETTINGS:**

8.37 GAL= 1.12 CUBIC FT  
 1.12 CUBIC FT / 3.1415 CUBIC FT/ VERTICAL FT PUMP CHAMBER= 0.356 FT

OFF TO ON FLOAT= 0.36 FT SEPARATION

**TEST HOLE RESULTS**

DATE OF TEST 12/14/07  
 W.T. CARD# 0703-2037  
 SEE SITE EVALUATION FORM PART A SOIL PROFILE DESCRIPTION

**TEST HOLE #SE 1**

WATER TABLE 36"  
 LEDGE AT >78"

**TEST HOLE #SE 2**

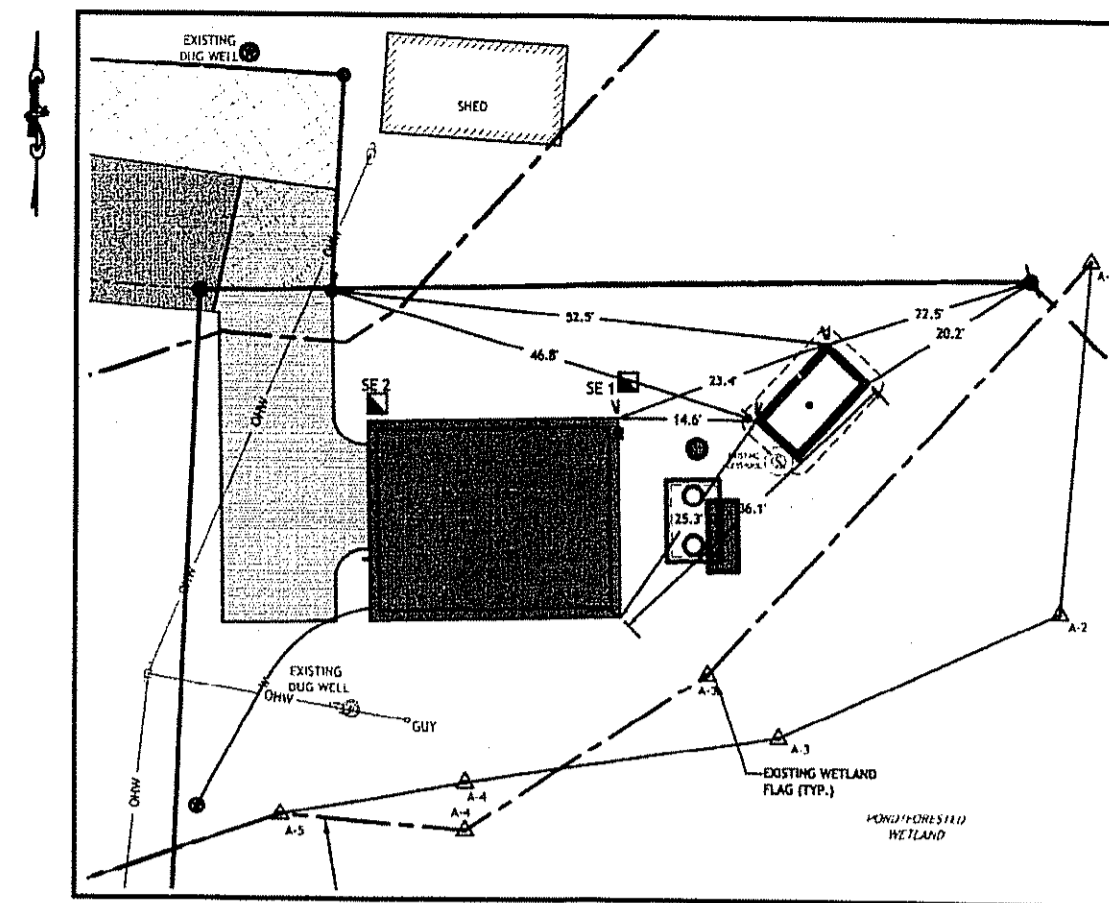
WATER TABLE 36"  
 LEDGE AT >78"

**PERCOLATION TEST**

SOIL CATEGORY 3 AND 6 PRESENT IN TEST HOLES

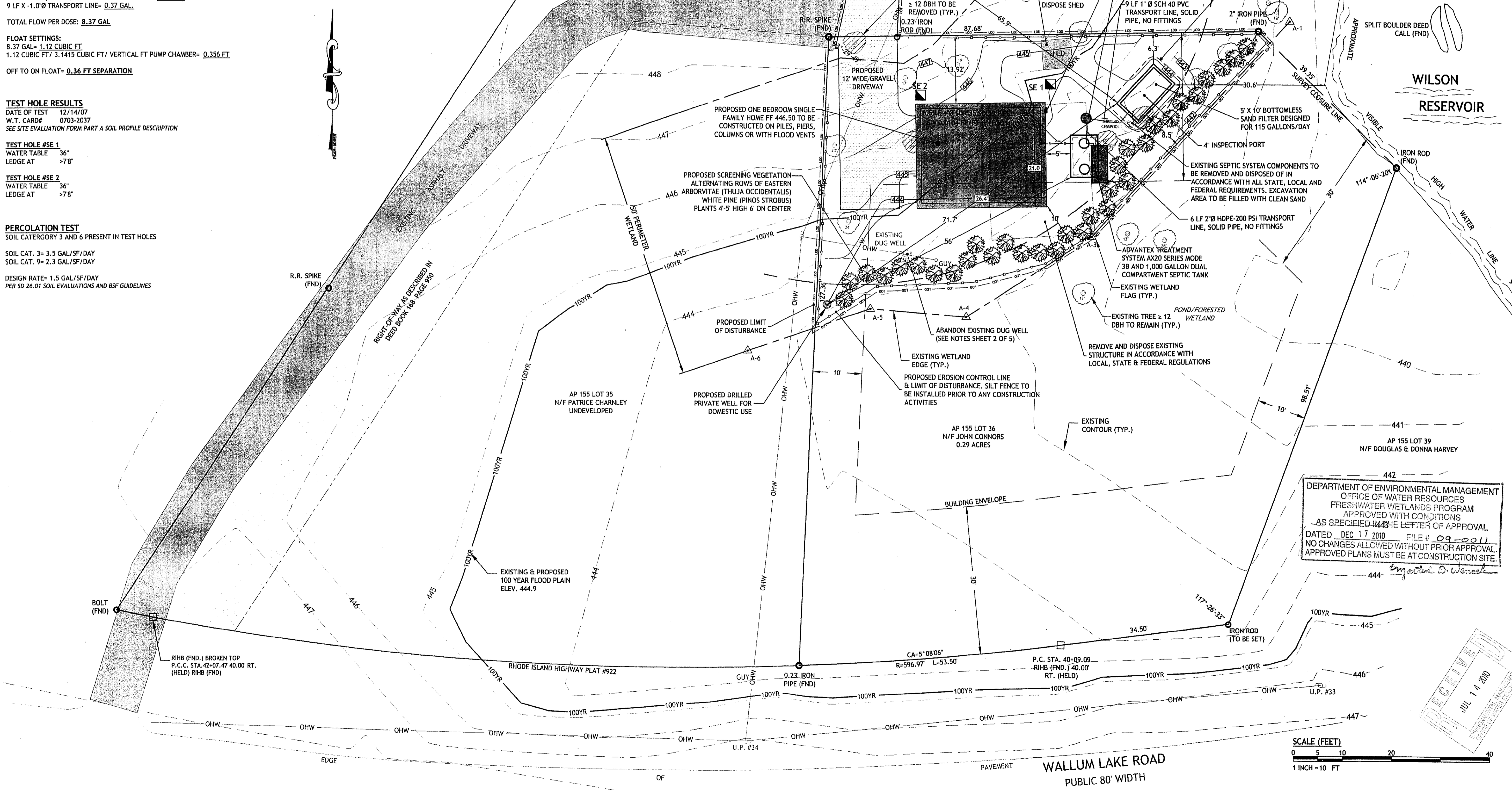
SOIL CAT. 3= 3.5 GAL/SF/DAY  
 SOIL CAT. 9= 2.3 GAL/SF/DAY

DESIGN RATE= 1.5 GAL/SF/DAY  
 PER SD 26.01 SOIL EVALUATIONS AND BSF GUIDELINES

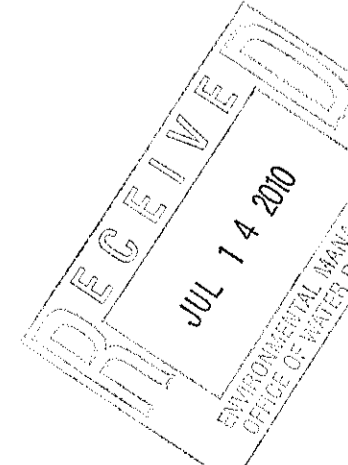


**OWTS SWING TIE LOCATION PLAN:**

SCALE: 1"=20'



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**JOE CASALI ENGINEERING, INC.**  
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION  
 DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN  
 300 POST ROAD, WARWICK, RI 02888  
 401.864.1330 401.864.1313 FAX WWW.JOECA.SA.LI.COM

**JOSEPH A. CASALI**  
 No. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 7.8.10

**AP 155 LOT 36**  
**455 WALLUM LAKE ROAD**  
**BURRILLVILLE, RHODE ISLAND**

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	3/09/10	RIDEM COMMENTS

DESIGNED BY: NW, RCS  
 DRAWN BY: WL  
 CHECKED BY: JAC  
 DATE: SEPTEMBER 08  
 PROJECT NO: 06-46c

SUBJECT TO RIDEM APPROVAL

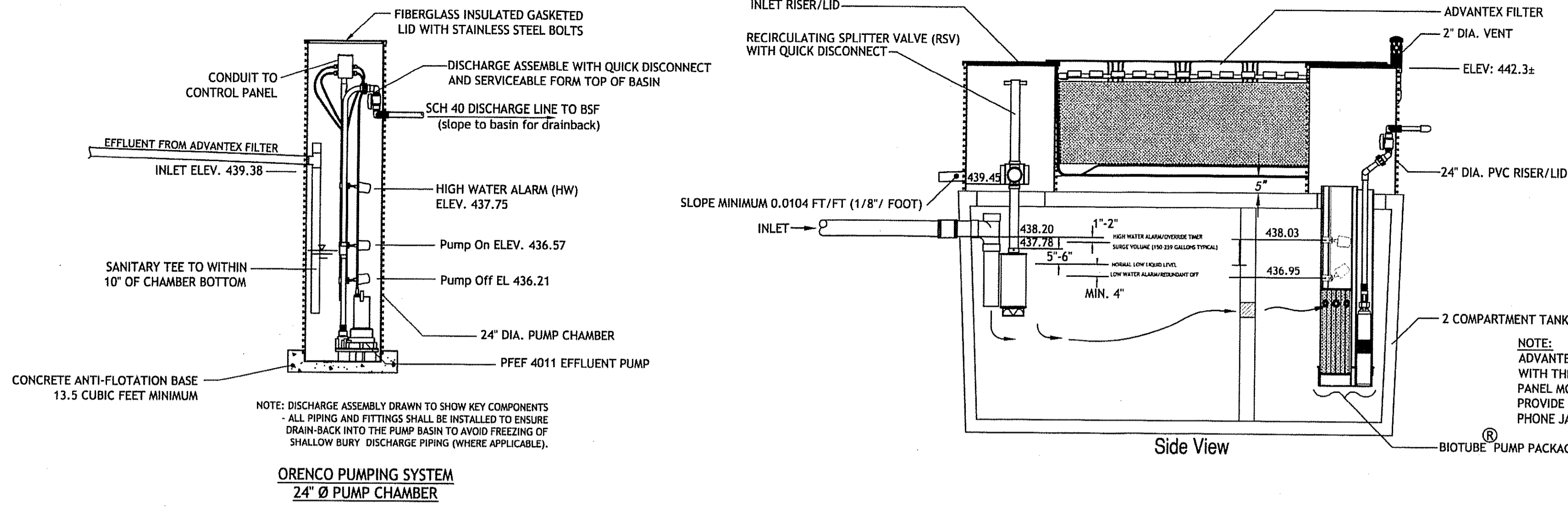
**SITE PLAN**

**SHEET 4 OF 5**

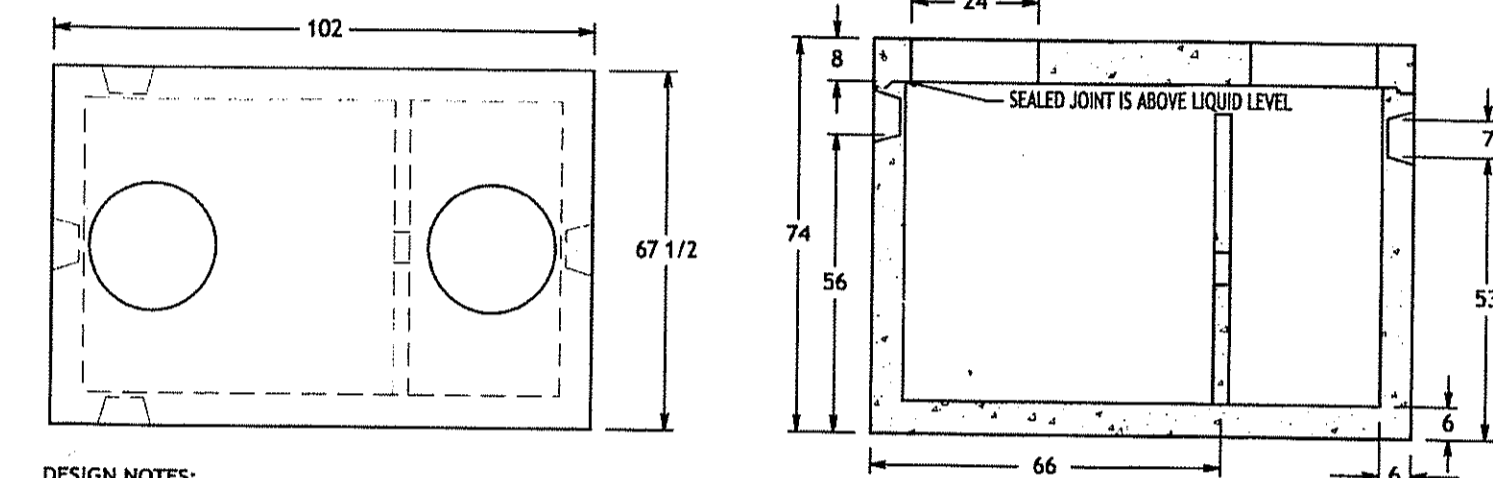
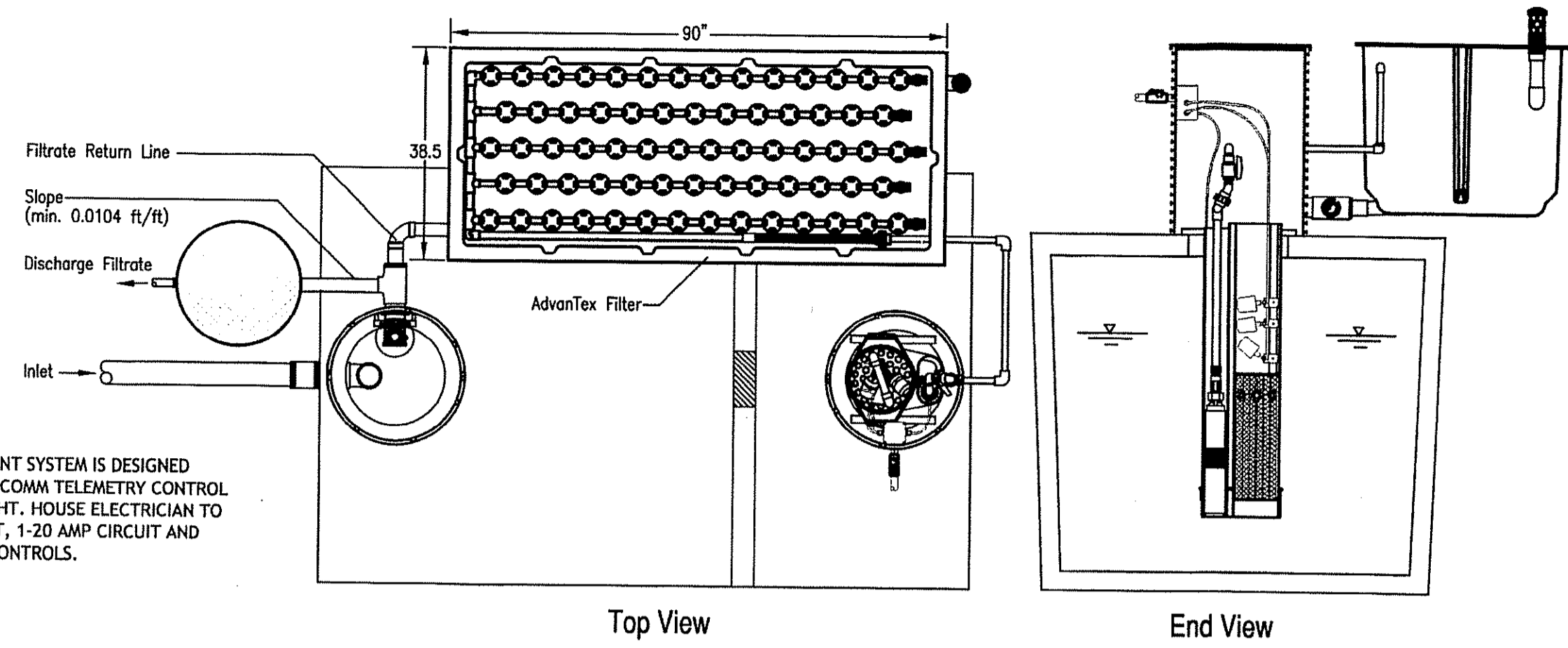
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**ADVANTEK TREATMENT SYSTEM AX 20 SERIES - MODE 3B**

NOT TO SCALE

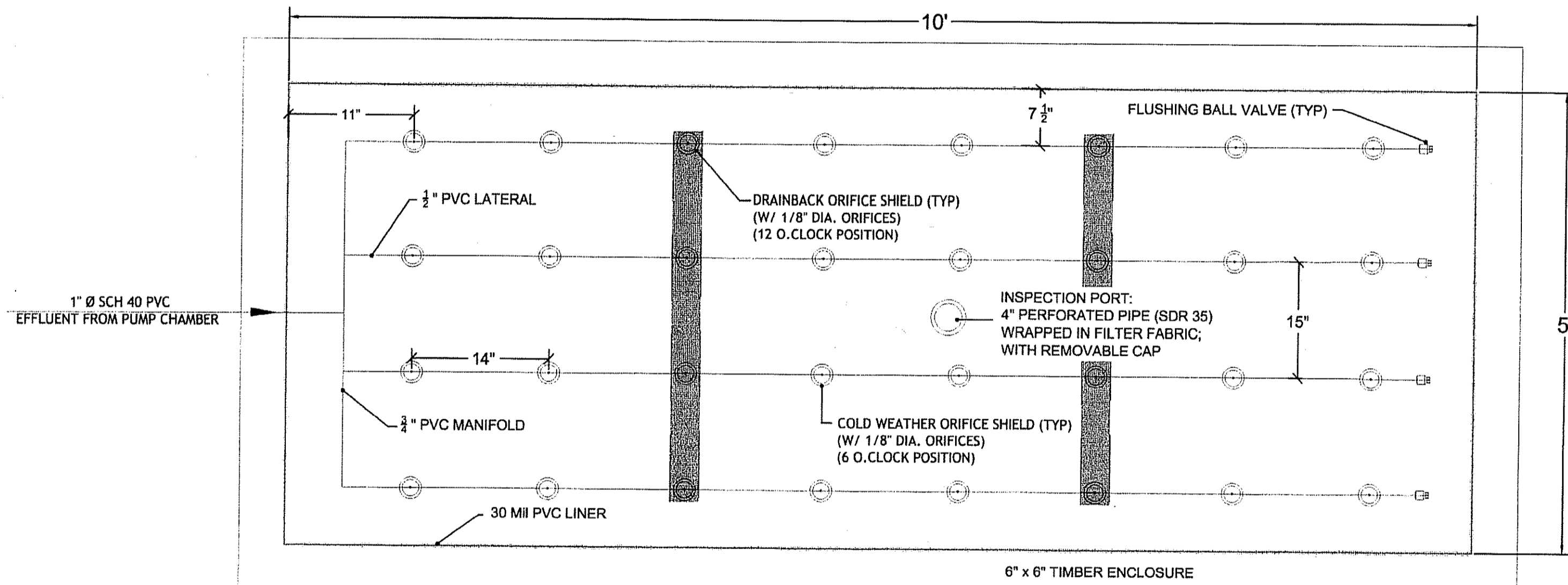
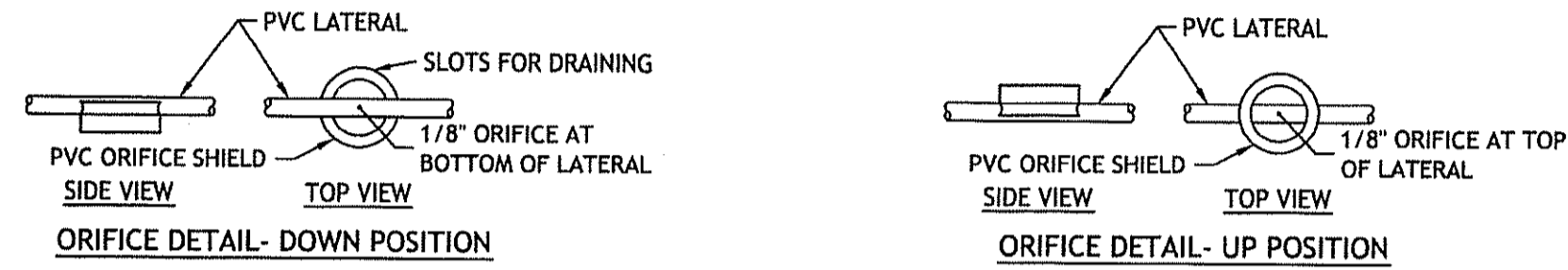


NOTE: ADVANTEK AX20 TREATMENT SYSTEM IS DESIGNED WITH THE USE OF A VERRICOMM TELEMETRY CONTROL PANEL MODEL VCOM-AXB1HT. HOUSE ELECTRICIAN TO PROVIDE 1-10 AMP CIRCUIT, 1-20 AMP CIRCUIT AND PHONE JACK FOR PANEL CONTROLS.



DESIGN NOTES:  
 1. JOINT IS ABOVE LIQUID LEVEL AND SEALED WITH BUTYL RUBBER SEALANT.  
 2. THREE INLET AND ONE OUTLET KNOCK-OUTS FOR SIX INCH PIPE.  
 3. TYPE II CEMENT ASTM C150-01  
 4. MEETS H-20 WHEEL LOAD  
 5. CONCRETE STRENGTH 5000 PSI, MIN. 28 DAYS

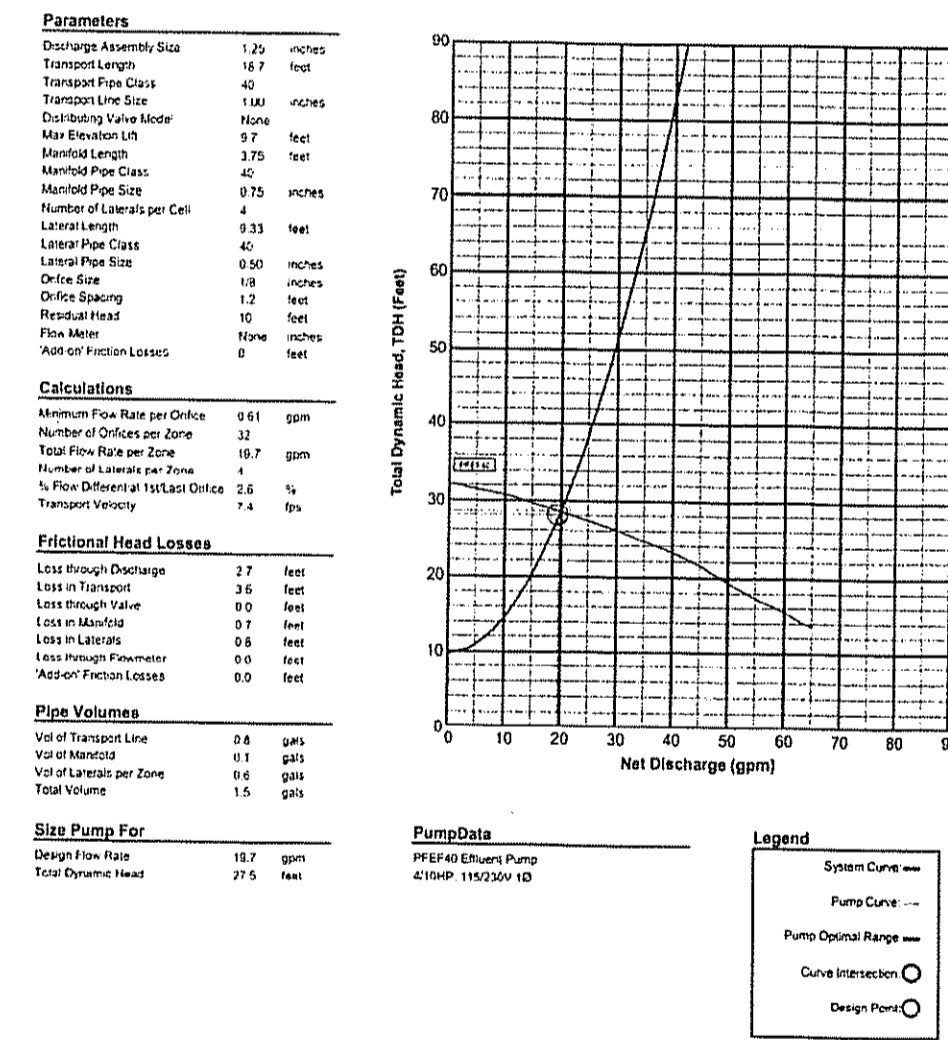
**1,000 GALLON H-20 TWO COMPARTMENT SEPTIC TANK**



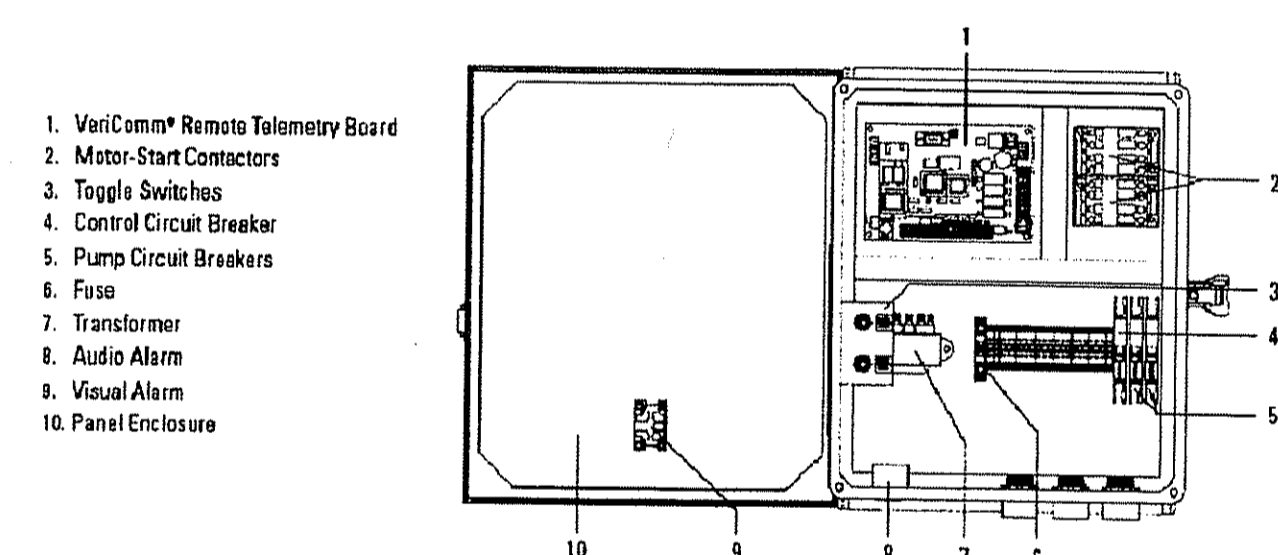
**5' X 10' BOTTOMLESS SAND FILTER**  
 CONFIGURED FOR LOADING RATES UP TO 2.3 GPD/SF.  
 (32) ORIFICES/ZONE  
 NOT TO SCALE

TWO (2) ORIFICES IN EACH LATERAL SHALL BE DRILLED POINTING UP (12 O'CLOCK POSITION); ALL OTHER ORIFICES SHALL BE DRILLED POINTING DOWN (6 O'CLOCK POSITION). THE UP-POINTING ORIFICES SHALL BE LOCATED APPROXIMATELY 1/3 AND 2/3, RESPECTIVELY, ALONG THE LENGTH OF EACH LATERAL. ORIFICE SHIELDS SHALL BE PLACED OVER EACH ORIFICE (ABOVE OR BELOW THE LATERAL, AS REQUIRED). ORIFICE SHIELDS PLACED BELOW ANY ORIFICE SHALL CONTAIN SLOTS OR HOLES TO PROVIDE FREE DRAINING (USUALLY REFERRED TO AS COLD WEATHER ORIFICE SHIELDS).

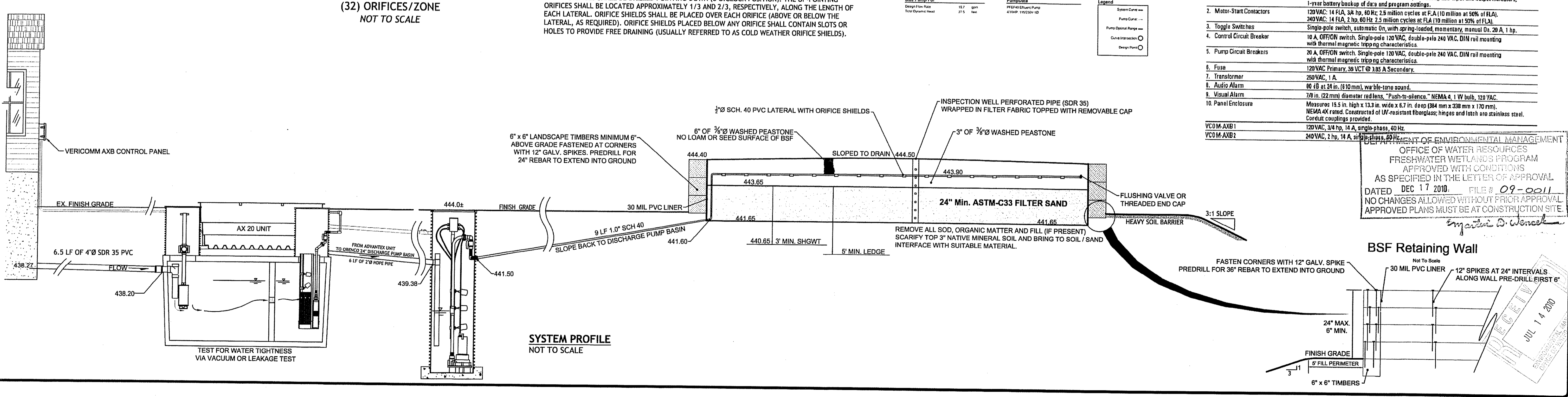
Pump Selection for a Pressurized System - Single Family Residence Project  
 Wallum Lake, Burrillville, RI



**VeriComm® AXB Control Panels**



Feature	Specifications
1. VeriComm® Remote Telemetry Unit	ATFTU-100 36/18 VAC (center tap transformer), 8 digital inputs, 4 analog inputs, 4 digital outputs, 0 analog outputs, on-board modem (2400 baud), LED input and output indicators, 1-year battery backup of data and program settings.
2. Motor-Start Contactors	120VAC: 14 FLA, 34 hp, 40 Hz, 2.5 million cycles at FLA (10 million at 50% of FLA); 240VAC: 14 FLA, 2 hp, 60 Hz, 2.5 million cycles at FLA (10 million at 50% of FLA)
3. Toggle Switches	Single-pole switch, auto-make On, with spring-loaded, momentary, manual On, 20 A, 1 hp, with thermal magnetic tripping characteristics.
4. Control Circuit Breaker	10 A, OFF/ON switch, single-pole 120 VAC, double-pole 240 VAC, DIN rail mounting with thermal magnetic tripping characteristics.
5. Pump Circuit Breakers	20 A, OFF/ON switch, single-pole 120 VAC, double-pole 240 VAC, DIN rail mounting with thermal magnetic tripping characteristics.
6. Fuse	120VAC Primary, 30 VCT @ 185 A Secondary.
7. Transformer	250VAC, 1 A.
8. Audio Alarm	80 dB at 24 in. (610 mm), wa-bite-tone sound.
9. Visual Alarm	7/8 in. (22 mm) diameter red lens, "push-to-silence" NEMA 4, 1 W bulb, 120 VAC. Measures 1.5 in. high x 13.3 in. wide x 6.7 in. deep (38 mm x 338 mm x 170 mm). NEMA 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Cordulite couplings included.
10. Panel Enclosure	7/8 in. (22 mm) diameter red lens, "push-to-silence" NEMA 4, 1 W bulb, 120 VAC. Measures 1.5 in. high x 13.3 in. wide x 6.7 in. deep (38 mm x 338 mm x 170 mm). NEMA 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Cordulite couplings included.



**SYSTEM PROFILE**  
 NOT TO SCALE

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 DRAWN BY: WL  
 CHECKED BY: JAC  
 DATE: SEPTEMBER 08  
 PROJECT NO: 06-46c

SUBJECT TO RIDEM APPROVAL

**DETAILS**

**SHEET 5 OF 5**

AP 155 LOT 36  
 455 WALLUM LAKE ROAD  
 BURRILLVILLE, RHODE ISLAND

**JCE**  
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 CIVIL, SITE DEVELOPMENT, TRANSPORTATION  
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 (401) 944-1800 (401) 944-1818 FAX WWW.JCECASA.COM

JOSEPH A. CASALI  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 7-8-10

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