

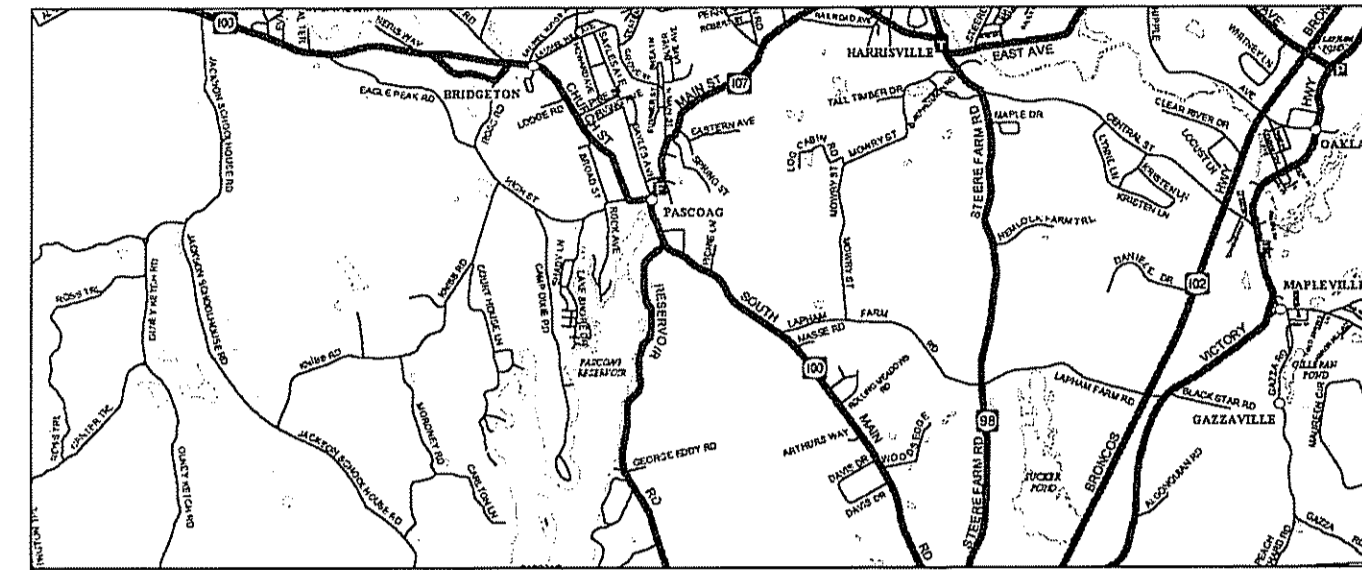
# SITE PLANS

## for the

# NEWELL RESIDENCE

A 3-BEDROOM SINGLE FAMILY DWELLING

CAMP DIXIE ROAD  
Burrillville, Rhode Island  
AP 245, LOT 15



LOCATION MAP  
NOT TO SCALE

APPLICANT	ARCHITECT
JEFFERY & DEBORAH NEWELL 2 COUNTRYSIDE DRIVE LINCOLN, RI 02865	KETTI PARENTE DESIGN KETTI PARENTE, AIA 401-316-8781
ENGINEER	SURVEYOR
JOE CASALI ENGINEERING, INC. 300 POST ROAD WARWICK, RI 02888 (401) 944-1300 phone (401) 944-1313 fax	SUGRUE & ASSOC., INC. 72 HARTFORD PIKE NORTH SCITUATE, RI 02857 (401) 647-3890 phone (401) 647-7087 fax

ZONING CRITERIA	REQUIRED
ZONING DISTRICT	R-20
MINIMUM LOT AREA	20,000 SF
MINIMUM LOT FRONTAGE	125 FT
MINIMUM FRONT YARD SETBACK	30 FT
MINIMUM SIDE YARD SETBACK	10 FT
MINIMUM REAR YARD SETBACK	30 FT
MAXIMUM LOT BLDG. COVERAGE	25%
MAXIMUM BUILDING HEIGHT	35 FT
MAXIMUM ACCESSORY HEIGHT	15 FT

### GENERAL NOTES:

- CLASS I PROPERTY LINE SURVEY AND CLASS III TOPOGRAPHIC SURVEY COMPLETED BY SUGRUE & ASSOC., INC., 72 HARTFORD PIKE, NORTH SCITUATE, RI 02857 IN NOVEMBER 2013.
- 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 CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- WETLANDS DELINEATED BY NATURAL RESOURCE SERVICE INC. IN NOVEMBER 2013.
- THE SITE IS LOCATED ON THE FLOOD INSURANCE RATE MAP FOR PROVIDENCE COUNTY, MAP NUMBER 44007C0130G, EFFECTIVE MARCH 2, 2009. THE PROPERTIES LIES WITHIN ZONE AE AND ZONE X. ZONE AE IS DEFINED AS THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), WITH BASE FLOOD ELEVATIONS DETERMINED AT ELEVATION 443. ZONE X IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

### INDEX OF DRAWINGS

SHEET NO.	PLAN
1	EXISTING CONDITIONS PLAN
2	SITE PLAN
3	DETAILS I
4	DETAILS II
5	DETAILS III

REFERENCE PLANS:  
1 OF 1 EXISTING CONDITIONS PLAN

(PREPARED BY SUGRUE & ASSOCIATES, INC.)

### 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 SEED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDING 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 SEED 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 DETRIORATION. 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.

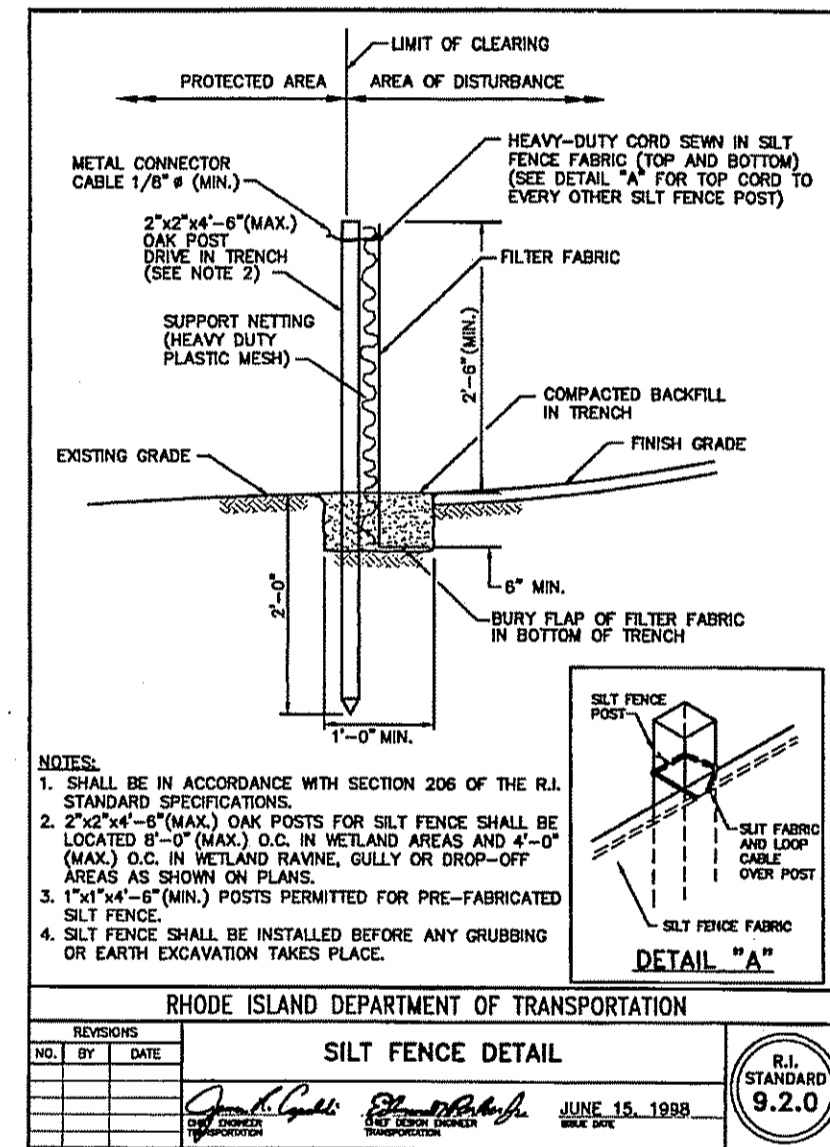
IF REQUIRED, OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.

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:

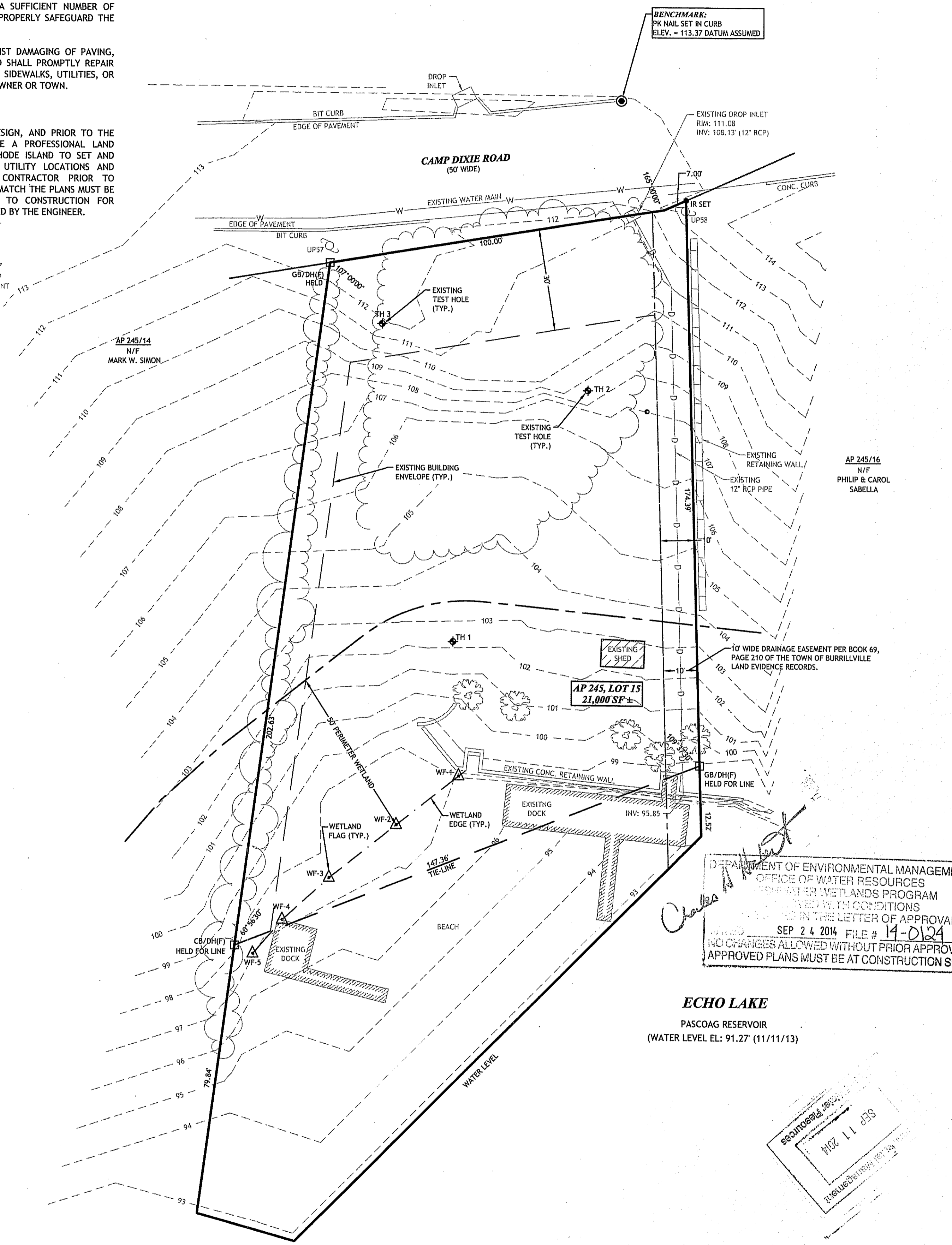
THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR 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.



DETAIL "A" SILT FENCE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS Department of Environmental Management Office of Water Resources									
Site Evaluation Form Part A - Soil Profile Description					Application Number				
Property Owner:	AP 245, Lot 15, Camp Dixie Road, Burrillville, RI								
Property Location:	Camp Dixie Road, Burrillville, RI								
Date of Test Hole:	7/11/13								
Soil Engineer:	Joe Casali, WMLJR								
License Number:	72002-3								
Weather:	Clear - 40's								
Shaded Yes/No:	No/Yes								
Time:	12:00								
No.	Horizon	Depth	Moisture	Structure	Color	Texture	Structure	Consistence	Soil Category
1	ATM	4-0	C S	—	—	—	—	—	—
2	A	0-4	C S	HR 92	—	SL	1/2 sh	f	3
3	Bw	4-24	C S	HR 92	1 0 1	SL	1/2 sh	f	3
4	C1	24-30	C W	HR 92	2 0 3	SL	HR	f	6
5	C2	30-36	—	HR 92	2 0 3	gSL	HR	f	6
6	1	0-5	C S	HR 92	—	SL	1/2 sh	f	3
7	Bw	5-15	C S	HR 92	—	SL	1/2 sh	f	3
8	C1	15-24	C W	HR 92	2 0 3	SL	HR	f	6
9	C2	24-30	—	HR 92	2 0 3	gSL	HR	f	6

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS Department of Environmental Management Office of Water Resources									
Site Evaluation Form Part A - Soil Profile Description					Application Number				
Property Owner:	AP 245, Lot 15, Camp Dixie Road, Burrillville, RI								
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Shaded Yes/No:	No/Yes								
Time:	12:00								
No.	Horizon	Depth	Moisture	Structure	Color	Texture	Structure	Consistence	Soil Category
1	ATM	30-0	—	—	—	—	—	—	—
2	A	0-6	C S	HR 92	—	SL	1/2 sh	f	3
3	Bw	6-10	C S	HR 92	—	SL	1/2 sh	f	3
4	C1	10-22	C W	HR 92	2 0 3	SL	HR	f	6
5	C2	22-30	—	HR 92	2 0 3	gSL	HR	f	6



ECHO LAKE  
PASCOAG RESERVOIR  
(WATER LEVEL EL: 91.27' (11/11/13))

SCALE (FEET)  
0 10 20 40 80  
1 INCH = 20 FT

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

**JOSEPH A. CASALI**  
N.E. 7250  
**REGISTERED PROFESSIONAL ENGINEER CIVIL**

**NEWELL RESIDENCE**  
645 CAMP DIXIE ROAD  
BURRILLVILLE, RHODE ISLAND  
AP 245, LOT 15

REVISIONS:

NO.	DATE	DESCRIPTION

DESIGNED BY: WMLJR  
DRAWN BY: WMLJR  
CHECKED BY: JAC  
DATE: JULY 2014  
PROJECT NO: 13-36a

NOT FOR CONSTRUCTION  
UNLESS APPROVED BY RIDEM

**EXISTING CONDITIONS PLAN**

**SHEET 1 OF 5**

**SITE NOTES:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
- STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
- ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR OR A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
- ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF RIDOT AT NO ADDITIONAL COST TO THE OWNER.
- ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR TOWN.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
- THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
- ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAY'S WORK.
- WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
- ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWA

**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE STATE OR TOWN RIGHTS-OF-WAY.
- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION, INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.
- Y AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

**TEST HOLE RESULTS**

DATE OF TEST 1/14/2014  
 TEST HOLE TH-3  
 SURFACE ELEV: 112.00  
 WATER TABLE 107.33 (36" E.G./18" O.G.)  
 LEDGE AT NONE ENCOUNTERED

**PERCOLATION TEST**

LOADING RATE= 2.3 GAL/SF/DAY  
 PER LIMITING SOIL LAYER CATEGORY 1

**DESIGN DATA**

3 BEDROOM DWELLING  
 115 GAL/BR/DAY= 345 GAL/DAY  
 345 GAL/DAY @ 2.3 GAL/SF/DAY= 150 SF  
 CATEGORY-1 TIME DOSED SYSTEM

**SAND FILTER**

8' X 22' = 176 SF  
 176 SF ≥ 150 SF ∴ OK

**ACTUAL VOLUME PER DOSE:**

65 ORIFICES (1 ZONE) DOSED AT 0.20 GAL/DOSE = 13.00 GAL  
 PIPE FILL-UP VOLUME (PER AUTOCALCS) = 9.00 GAL

**TOTAL FLOW PER DOSE: 13.00 GAL.**

**DESIGN CHECK:**

345 GAL PER DAY / 13.00 GAL. PER DOSE = 26.54 TIMES PER DAY

24 PER DAY < 26.54 < 48 PER DAY ∴ OK

**FLOAT SETTINGS:**

13.00 GAL + 9.00 GAL = 22 GAL = 2.94 CUBIC FT  
 2.94 CUBIC FT / 3.1415 CUBIC FT/ VERTICAL FT PUMP CHAMBER= 0.936 FT  
 OFF TO ON FLOAT= 0.94 FT SEPARATION

**SYSTEM ELEVATIONS**

INV. OUT BLDG. 102.28  
 INV. IN SEPTIC TANK 102.00  
 INV. IN DOSING CHAMBER 103.35

**ADVANTEX TREATMENT SYSTEM**

FINISH GRADE OVER UNIT 106.00  
 HIGH WATER ALARM/ OVERIDE TIMER 101.83  
 LOW WATER ALARM/ REDUNDANT OFF 100.81  
 INV. RSV CAGE 101.64

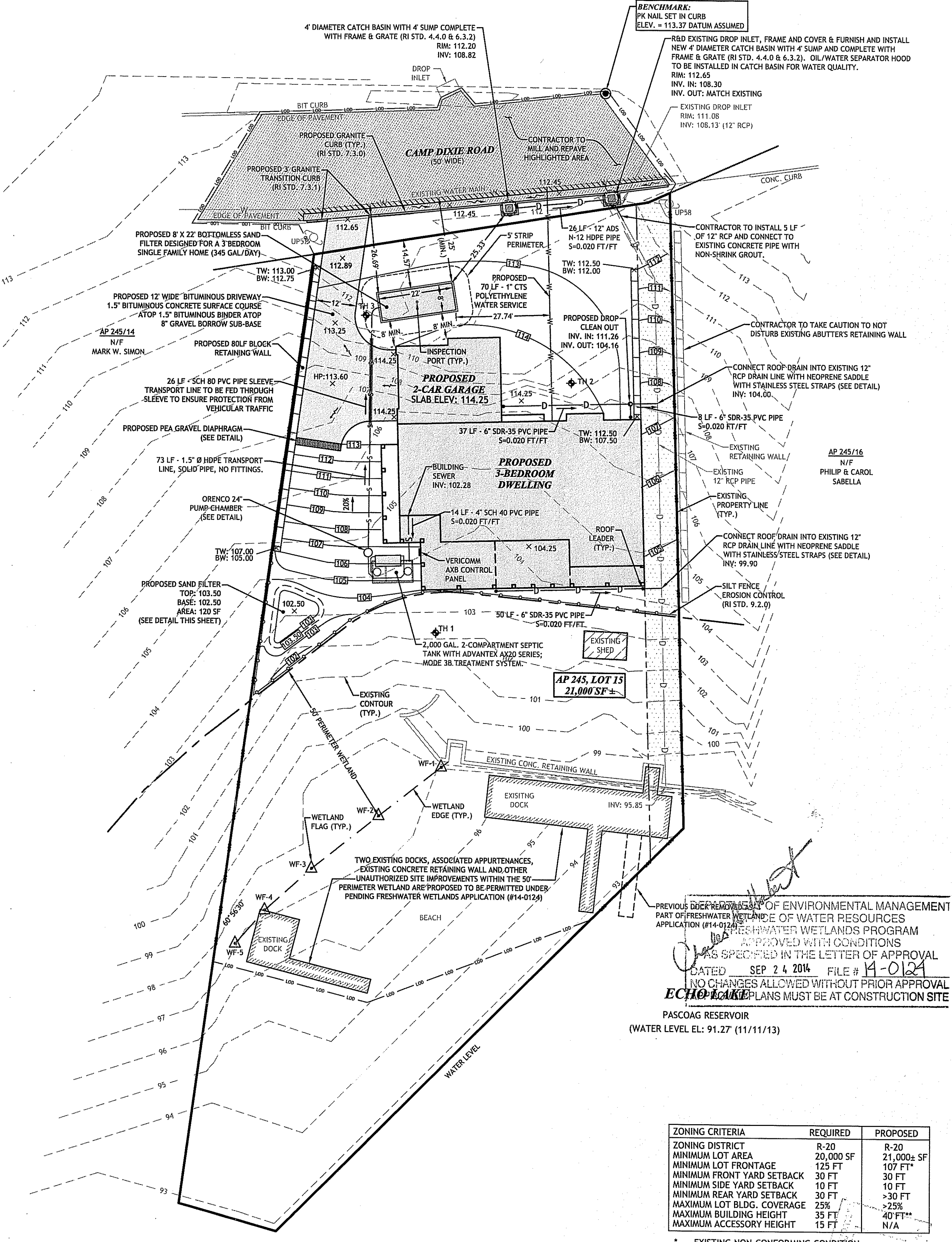
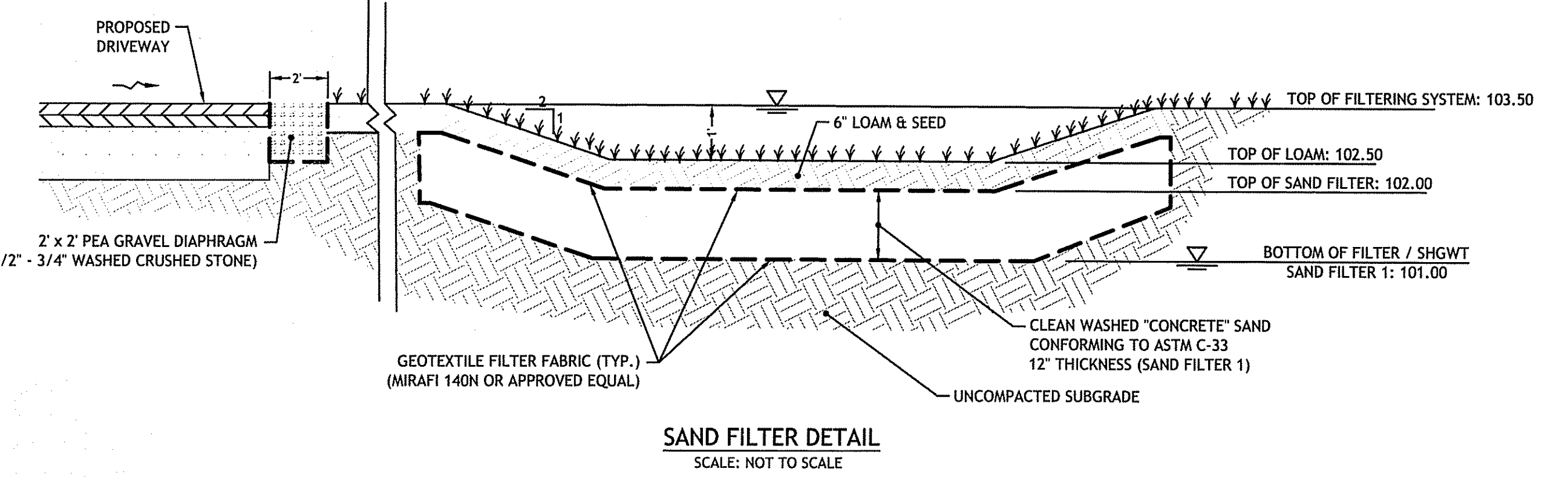
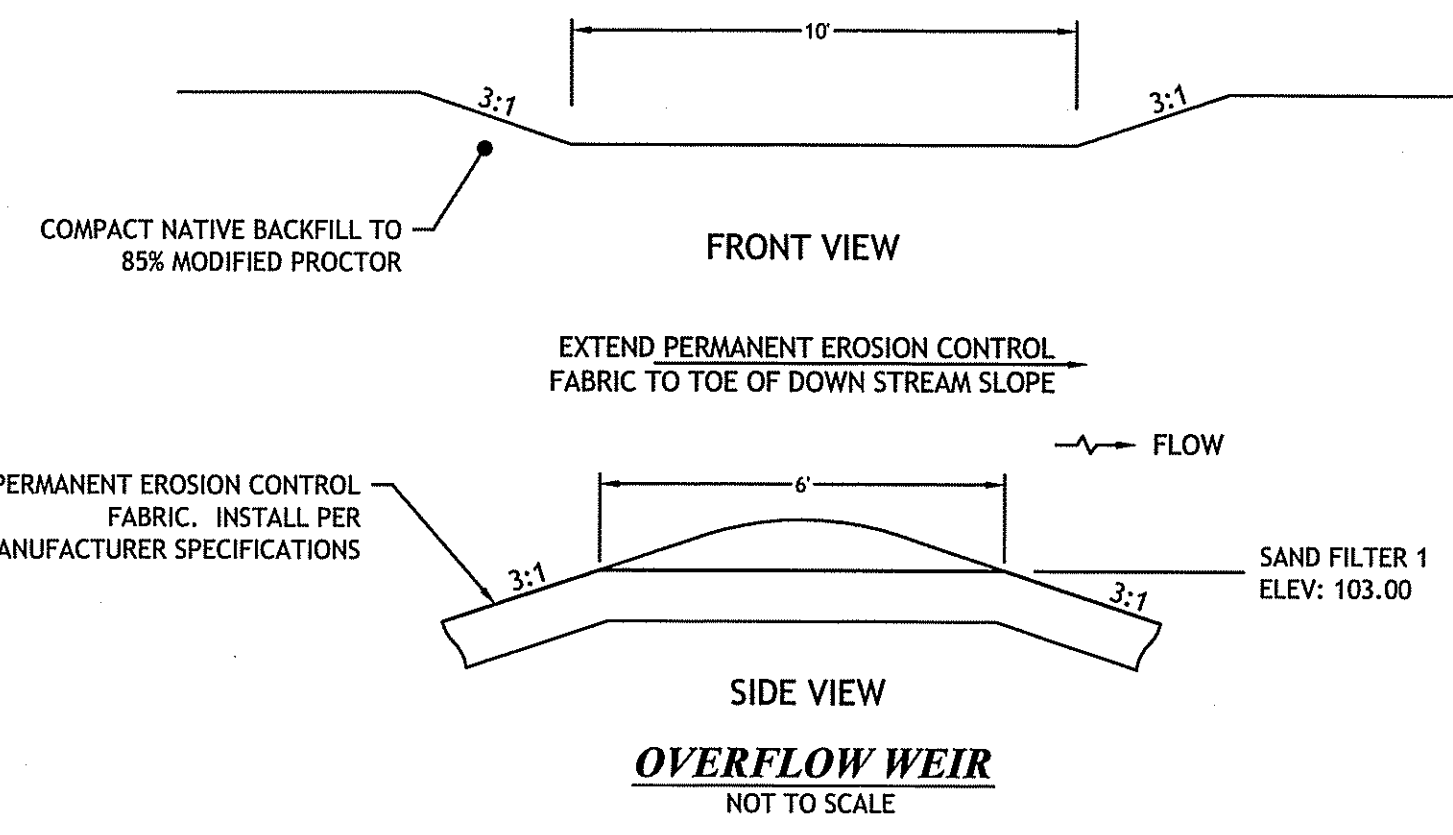
PRIMARY DOSING CONTROLLED BY TIMER,  
 FLOATS ARE FOR OVERRIDE PURPOSES ONLY

**DISCHARGE PUMP BASIN**

HIGH WATER ALARM 101.69  
 PUMP ON 101.44  
 PUMP OFF 100.50

**BOTTOMLESS SAND FILTER**

TOP OF FIELD MINIMUM 114.00  
 LATERAL OF BSF 113.50  
 PEA STONE/ SAND FILTER MEDIA INTERFACE 113.25  
 SOIL/ SAND INTERFACE 111.25  
 WATER TABLE 107.33



ZONING CRITERIA	REQUIRED	PROPOSED
ZONING DISTRICT	R-20	R-20
MINIMUM LOT AREA	20,000 SF	21,000± SF
MINIMUM LOT FRONTAGE	125 FT	107 FT*
MINIMUM FRONT YARD SETBACK	30 FT	30 FT
MINIMUM SIDE YARD SETBACK	10 FT	10 FT
MINIMUM REAR YARD SETBACK	30 FT	>30 FT
MAXIMUM LOT BLDG. COVERAGE	25%	>25%
MAXIMUM BUILDING HEIGHT	35 FT	40 FT**
MAXIMUM ACCESSORY HEIGHT	15 FT	N/A

\* EXISTING NON-CONFORMING CONDITION  
 \*\* DIMENSIONAL RELIEF RECEIVED

SCALE (FEET)  
 0 10 20 40 80  
 1 INCH = 20 FT

**JOE CASALI ENGINEERING, INC.**  
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION - FLOODPLAIN  
 DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN  
 (401) 844-1330 (401) 844-1313 FAX  
 WWW.JCE-ENG.COM

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

**NEWELL RESIDENCE**  
**645 CAMP DIXIE ROAD**  
**BURRILLVILLE, RHODE ISLAND**  
**AP 245, LOT 15**

**REVISIONS:**

NO.	DATE	DESCRIPTION

DESIGNED BY: WMLJR  
 DRAWN BY: WMLJR  
 CHECKED BY: JAC  
 DATE: SEP 24 2014 FILE # 14-0124  
 PROJECT NO: 13-36a

NOT FOR CONSTRUCTION  
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**SITE PLAN**

**SHEET 2 OF 5**

REVISIONS:

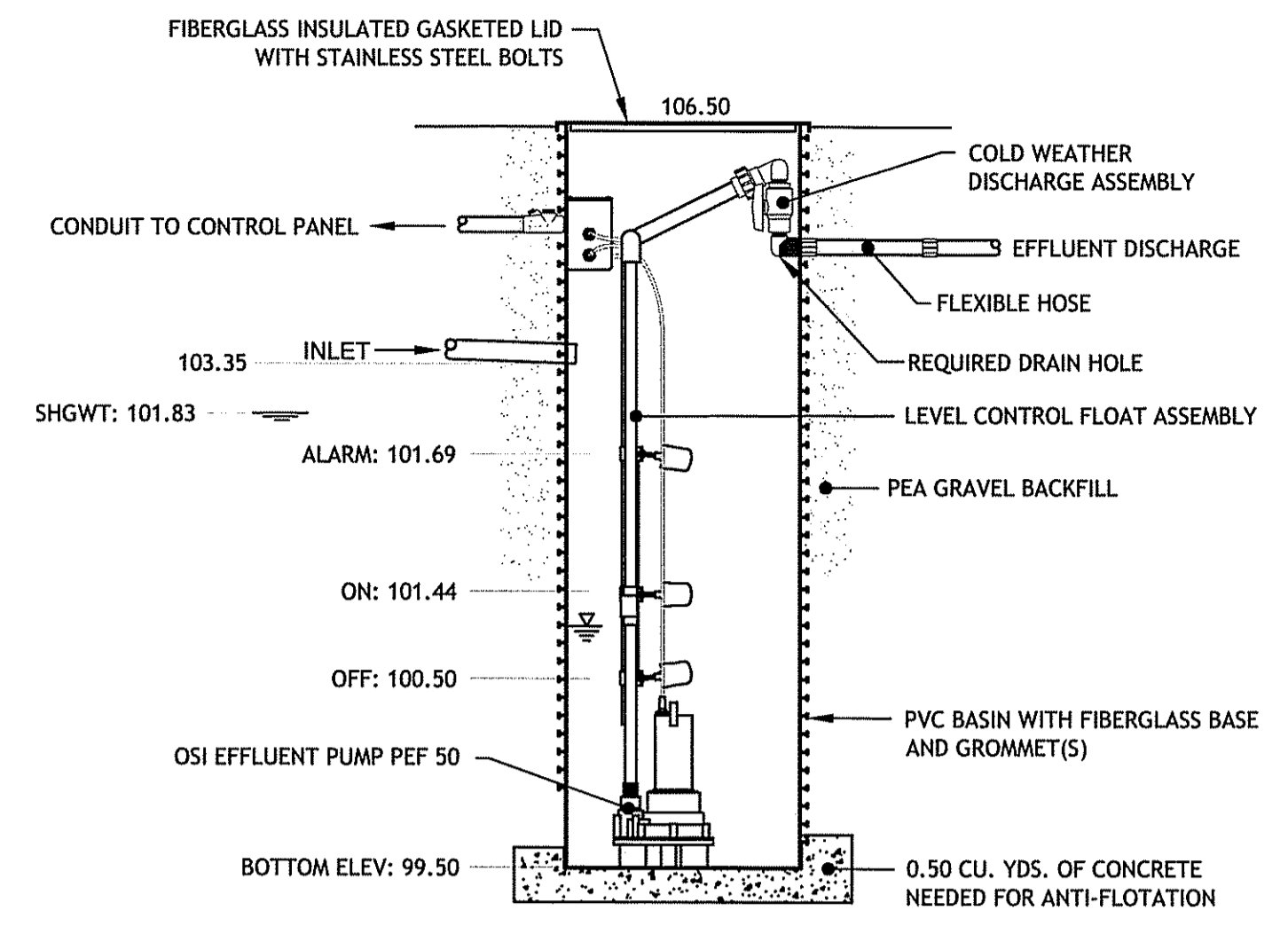
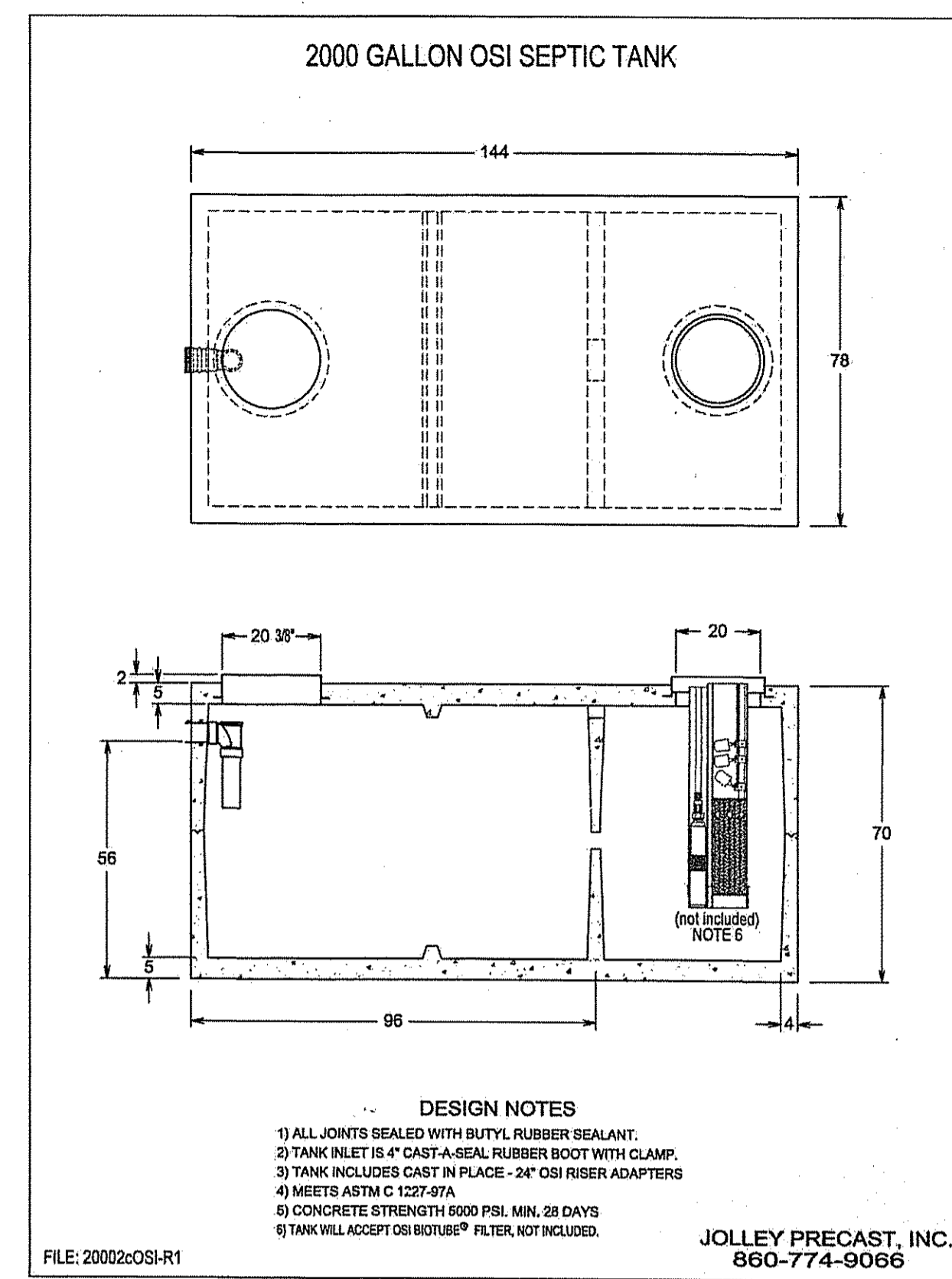
NO.	DATE	DESCRIPTION

DESIGNED BY: WMLJR  
 DRAWN BY: WMLJR  
 CHECKED BY: JAC  
 DATE: JULY 2014  
 PROJECT NO: 13-36a

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**DETAILS I**

**SHEET 3 OF 5**



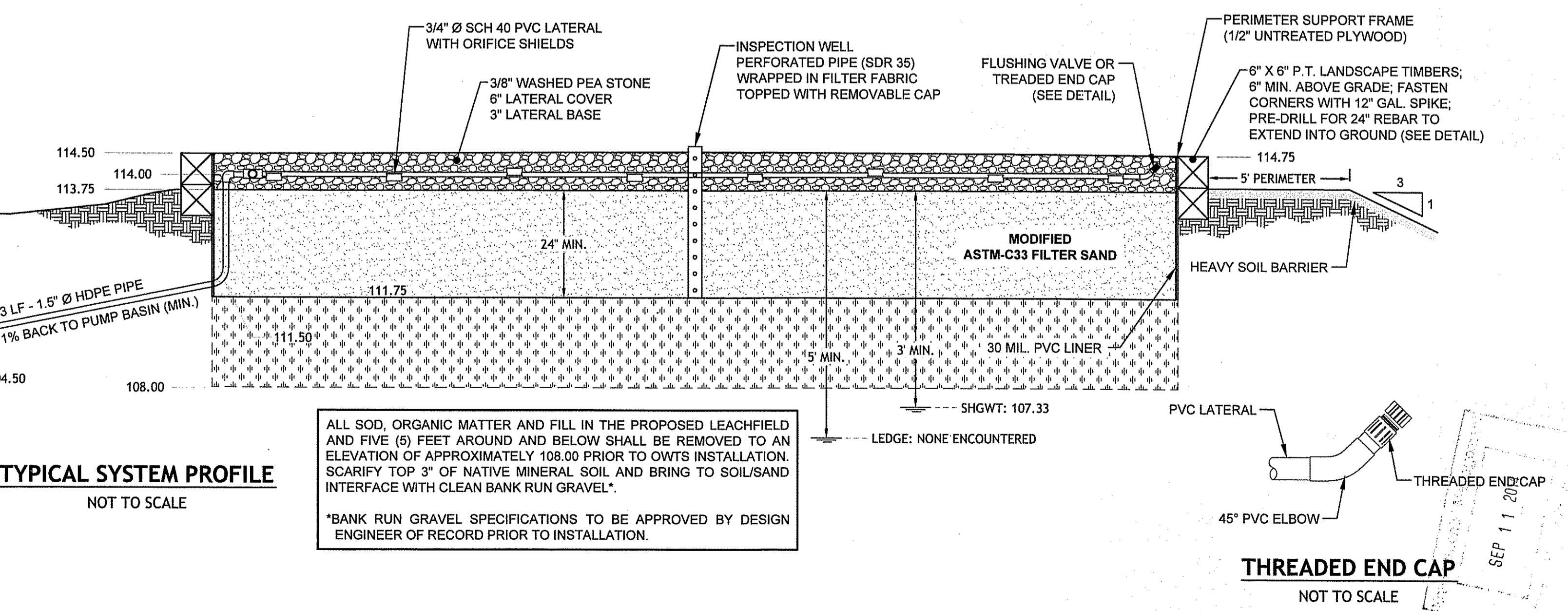
**ORENCO PUMP SYSTEM**  
 24" Ø PUMP CHAMBER

NOTE:  
 DISCHARGE ASSEMBLY DRAWN TO SHOW KEY COMPONENTS.  
 ALL PIPING AND FITTINGS SHALL BE INSTALLED TO ENSURE  
 DRAIN-BACK INTO THE PUMP BASIN TO AVOID FREEZING OF  
 SHALLOW BURY DISCHARGE PIPING (WHERE APPLICABLE).

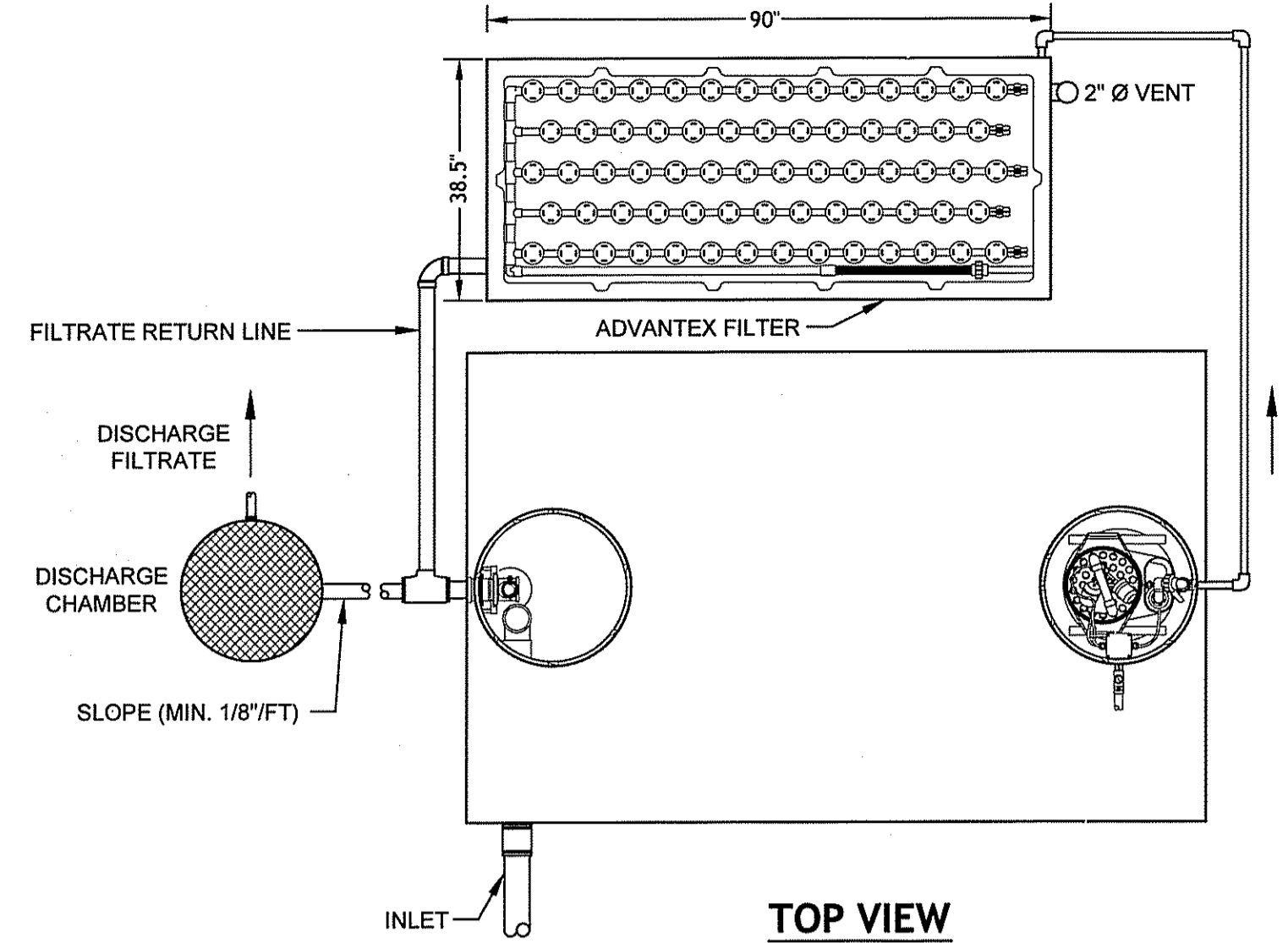
Pump Selection for a Pressurized System - Single Family Residence Project  
 Newell Residence

Parameters	Value	Unit
Discharge Assembly Size	2.00	Inches
Discharge Length	2.00	Feet
Discharge Pipe Class	2.00	Feet
Discharge Pipe Size	1.00	Feet
Discharge Pipe Wall	0.08	Feet
Discharge Pipe Material	0.08	Feet
Discharge Pipe Length	0.08	Feet
Discharge Pipe Class	0.08	Feet
Discharge Pipe Size	0.08	Feet
Discharge Pipe Wall	0.08	Feet
Discharge Pipe Material	0.08	Feet
Discharge Pipe Length	0.08	Feet
Discharge Pipe Class	0.08	Feet
Discharge Pipe Size	0.08	Feet
Discharge Pipe Wall	0.08	Feet
Discharge Pipe Material	0.08	Feet
Discharge Pipe Length	0.08	Feet

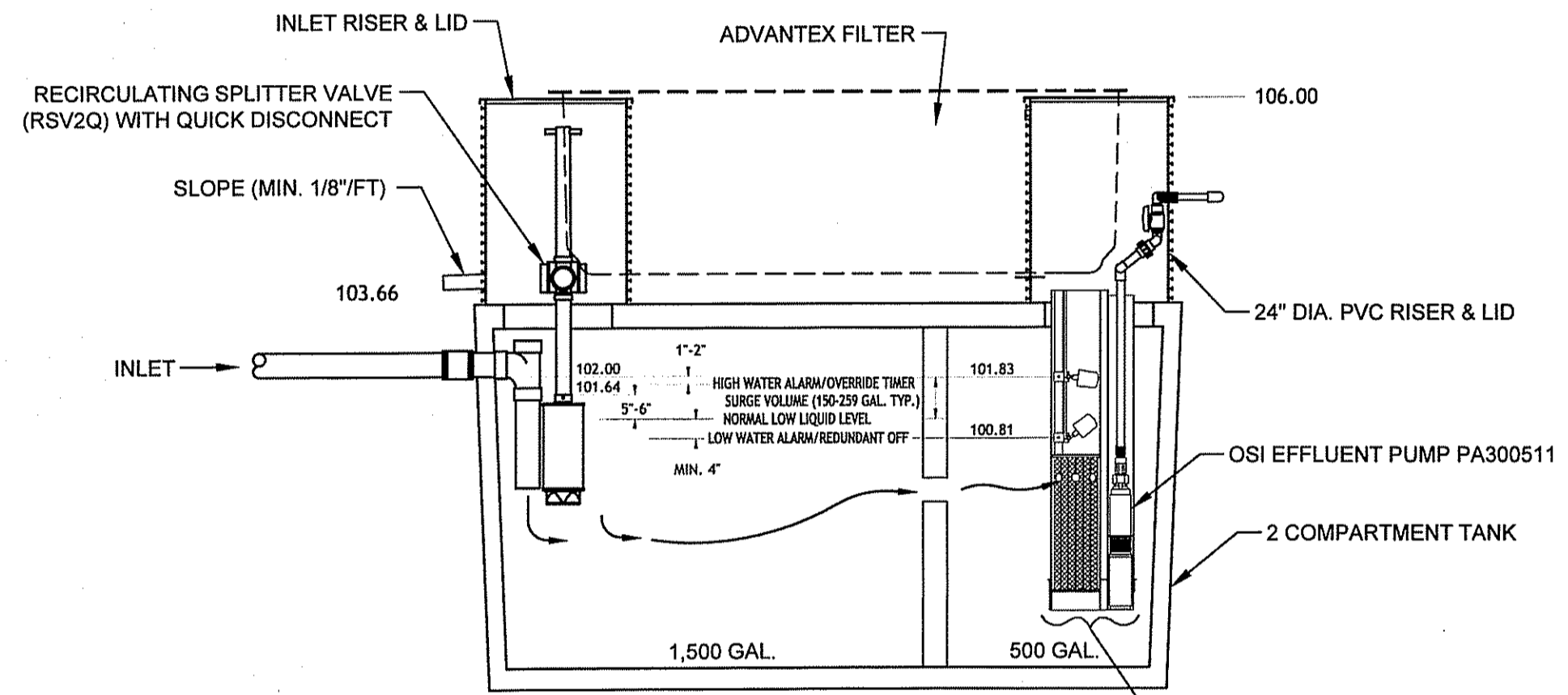
**ORENCO PUMP SELECTION**



ALL SOD, ORGANIC MATTER AND FILL IN THE PROPOSED LEACHFIELD AND FIVE (5) FEET AROUND AND BELOW SHALL BE REMOVED TO AN ELEVATION OF APPROXIMATELY 108.00 PRIOR TO INSTALLATION. SCARIFY TOP 3" OF NATIVE MINERAL SOIL AND BRING TO SOIL/SAND INTERFACE WITH CLEAN BANK RUN GRAVEL.  
 \*BANK RUN GRAVEL SPECIFICATIONS TO BE APPROVED BY DESIGN ENGINEER OF RECORD PRIOR TO INSTALLATION.



TOP VIEW

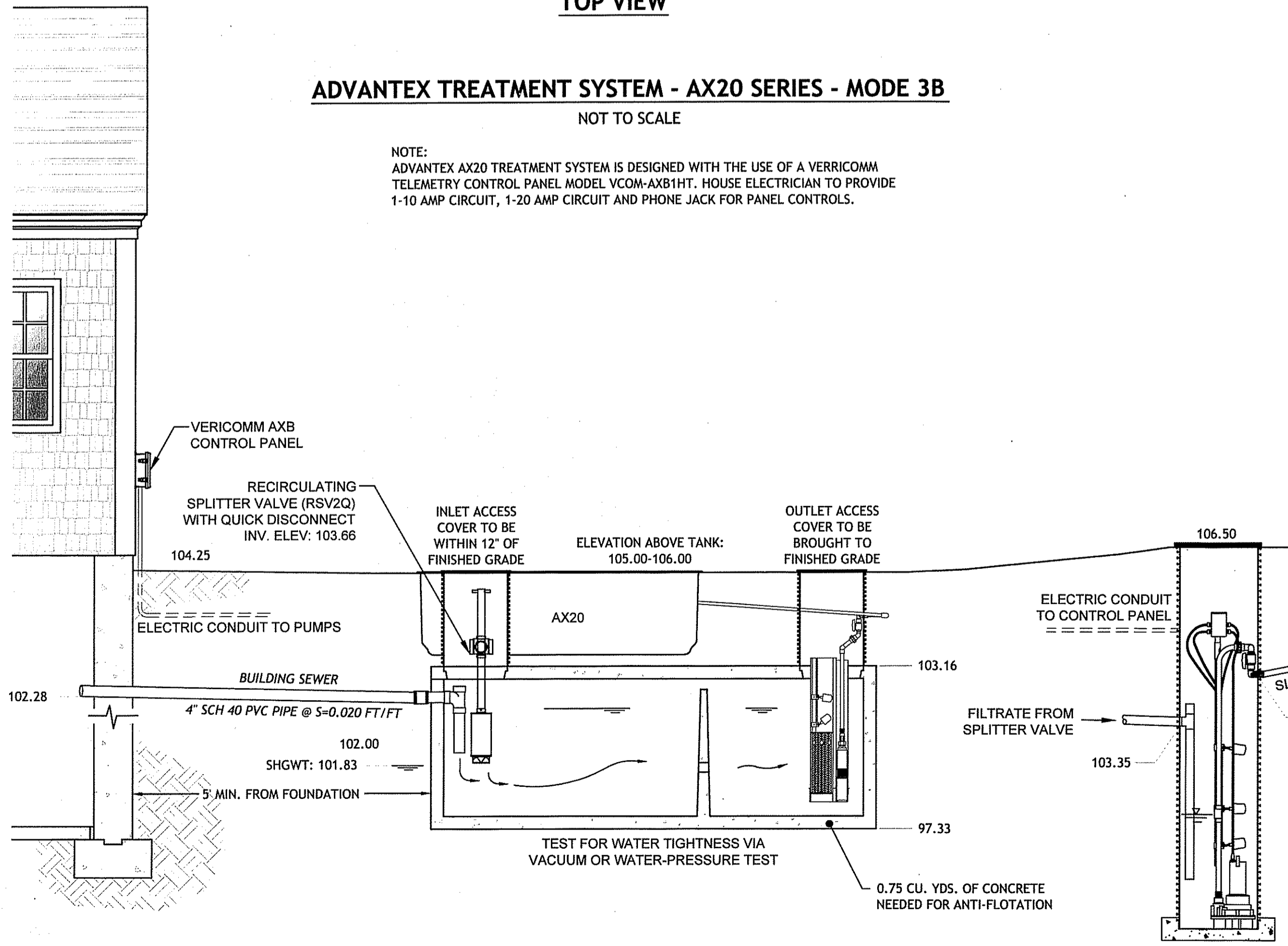


TOP VIEW

**ADVANTEX TREATMENT SYSTEM - AX20 SERIES - MODE 3B**

NOT TO SCALE

NOTE:  
 ADVANTEX 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.



**TYPICAL SYSTEM PROFILE**

NOT TO SCALE

09/13/14 Newell (13-36a) 485-Camp Dixie Road - Burrillville - AdvanTex - Orenco - Sep 11, 2014 4:13:00

**GENERAL GWTS 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 GWTS.

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.

NO DRIVING, PARKING OR PAVING WITHIN 10' OF BSF.

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.

**BOTTOMLESS SAND FILTER 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.

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 1-800-348-9848 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 WATER OVER THE BSF AREA, MAXIMIZING LOCALIZED SATURATION. LATERAL GATE VALVES ARE DESIGNED FOR PLACEMENT OFF THE HEADER LINE SO AS TO EQUALIZE HYDRAULIC PRESSURE IN THE DISPERSAL.

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 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 EXTREME COLD 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 MANUFACTURER/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.

**ADVANTEK 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 HOME'S INSTALLATIONS, THE DUCKBILL MODEL RVS IS REQUIRED, WHICH HAS A FLEXIBLE PVC TUB THAT VENTS THE RVS CAGE TO THE ATMOSPHERE.

FLOAT LEVELS: TYPICALLY THE BOTTOM FLOAT SHOULD BE POSITIONED AS CLOSE TO THE TOP OF THE BIOTRIBE 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 ADVANTEK 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 INFLUENT TO CHECK FOR CLARITY.

BSF LATERALS SHALL BE CLEANED ANNUALLY BY OPENING THE LATERAL THREADED END CAP 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 ADVANTEK 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.

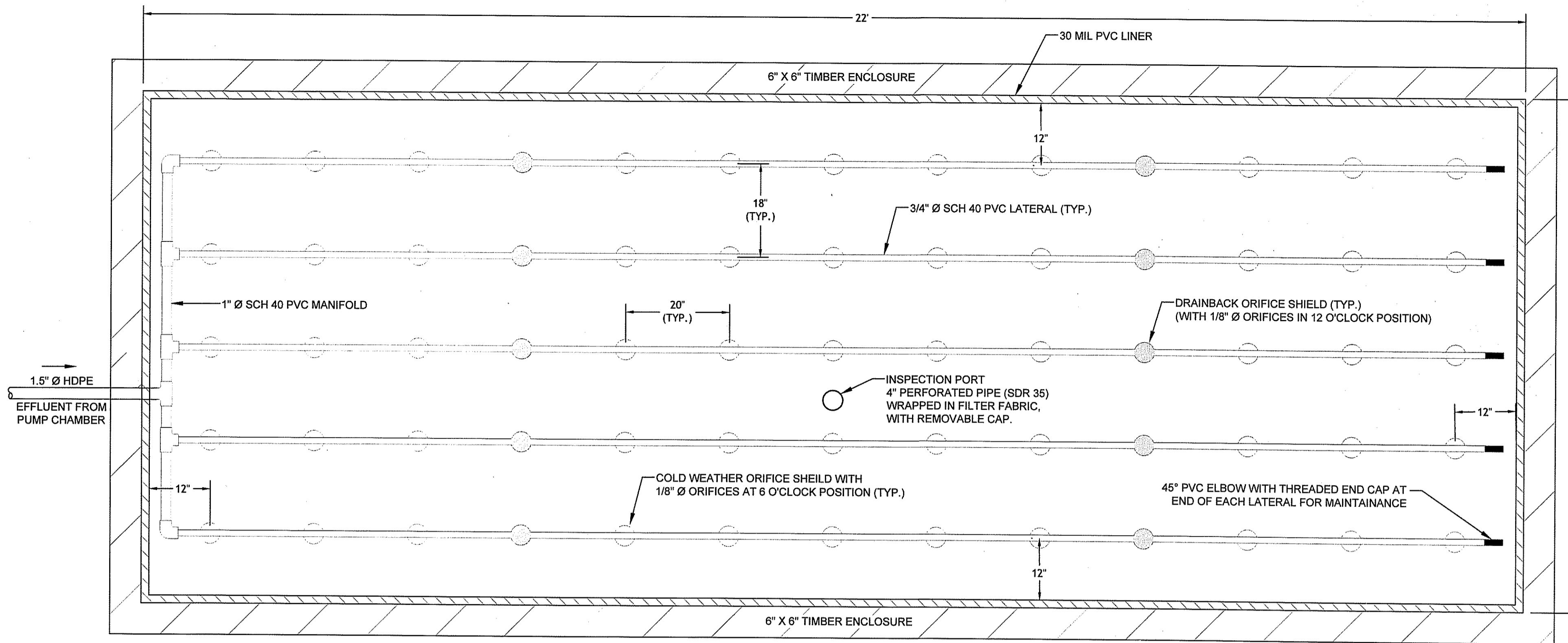
THE FILTER IN THE PUMP CHAMBERS SHALL BE CLEANED ANNUALLY.

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 WATER TIGHTNESS.

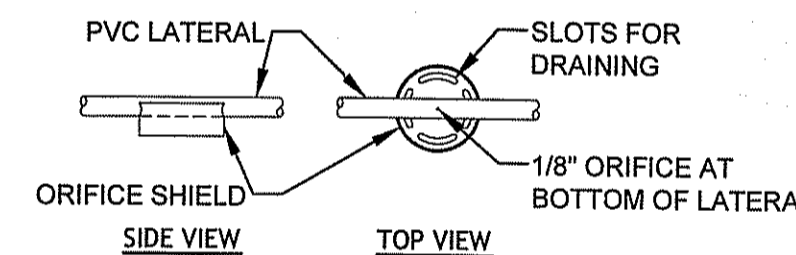
PROPERTY OWNER TO REDUCE ANY SHADING IN THE AREA OF THE BOTTOMLESS SAND FILTER TO REDUCE FREEZE POTENTIAL, ANY ACTIVITY TO REDUCE SHADING MUST BE IN ACCORDANCE WITH THE RIDEM WETLANDS APPROVALS.



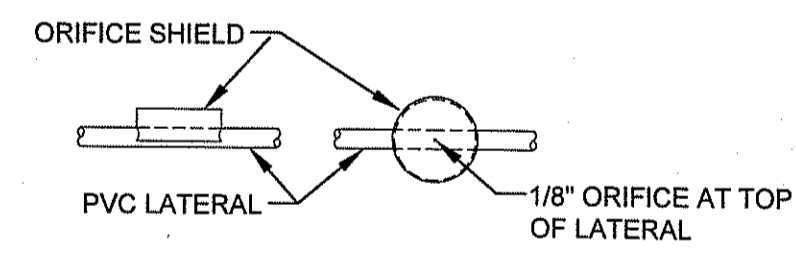
**8' X 22' BOTTOMLESS SAND FILTER**

CONFIGURED FOR LOADING RATES UP TO 2.3gpd/sf (65) 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 AN ORIFICE SHALL CONTAIN SLOTS OR HOLES TO PROVIDE FREE DRAINING (USUALLY REFERRED TO AS COLD WEATHER ORIFICE SHIELDS).



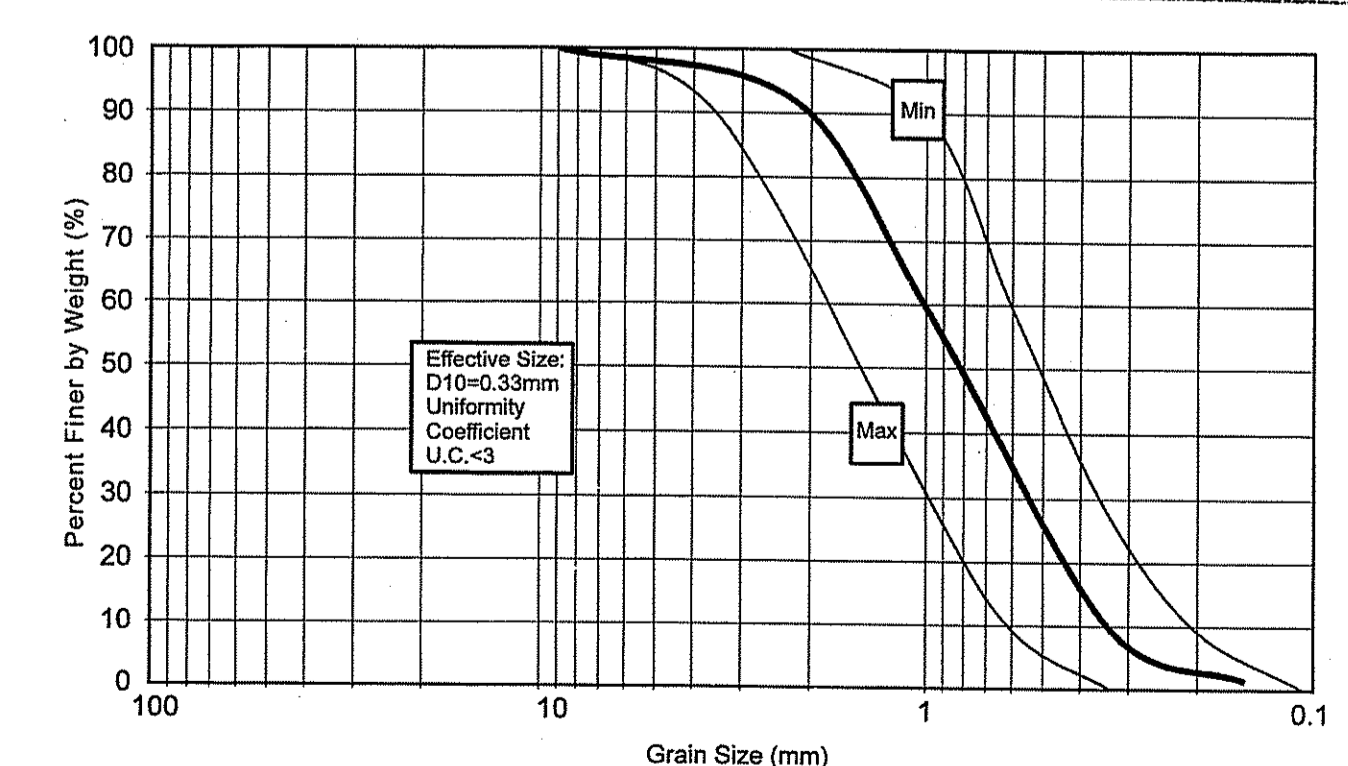
DOWN POSITION



UP POSITION

**COLD WEATHER ORIFICE SHIELD**

NOT TO SCALE



**BOTTOMLESS SAND FILTER MEDIA SPECIFICATIONS**

NOT TO SCALE

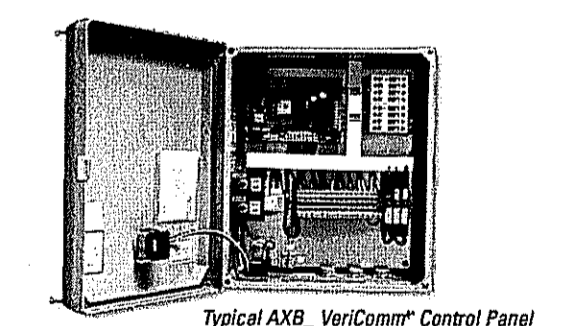
**VeriComm® AXB Control Panels**

Technical Data Sheet

**For AdvanTex® Treatment Systems**

**Applications**

VeriComm® AXB1 and AXB2 remote telemetry control panels are used with two-pump operations — recirculation and discharge (on-demand or timed) — for AdvanTex® Treatment Systems. Interlocked controls prevent the recirculation pump from running if there is a high level alarm on the discharge side. Coupled with the VeriComm Web-based Monitoring System, these affordable control panels give water/wastewater system operators and maintenance organizations the ability to monitor and control each individual system's operation remotely, with real-time efficiency, while remaining invisible to the homeowner. VeriComm AXB panels allow remote operators to change system parameters, including timer settings, from the Web interface.



**To Specify...**

To specify this panel for your installation, require the following:

**Basic Control Logic: Three Operating Modes**

- A "Start-up Mode" for the initial 30 days, during which the system collects trend data to establish operating standards for future reference.
- A "Normal Mode" that manages day-to-day functions.
- A "Test Mode" that suspends data collection and alarm reporting during installation and service.

**Data Collection and Utilization**

- Data logs of system conditions and events, such as pump run times, pump cycles, and alarm conditions.

**Troubleshooting and Diagnostic Logic**

- Troubleshooting capabilities that can report suspected failed components, which then trigger Alarms.

**Advanced Control Logic**

- Advanced control logic that activates during float malfunctions to diagnose the situation and keep the system operating normally until servicing.

**Communication and Alarm Management**

- Remote telemetry capabilities coupled with a Web-based monitoring application (see VeriComm Monitoring System, ATD-WEB-VCOM-1) for communication and alarm management. Updating of point values (including timer settings) and receipt of queued changes during each communication session with host. Communication sessions that occur monthly, at a minimum, and more frequently during alarm conditions.
- Multiple methods of communication, as follows:
  - Call-In to VeriComm® Host
    - Automatic notification to host of "Alarms," which signal fault conditions that need to be addressed immediately (e.g., pump failure).
    - Automatic notification to host of "Alerts," which signal less critical fault conditions and which trigger the panel's troubleshooting logic and alternative operating mode (e.g., stuck float switch).
  - Automatic notification to host of "Updates," which include alarm updates or all-clear notifications following Alarms/Alerts, as well as normally scheduled monthly panel reports.

**Real-Time Direct Connection to Panel**

- Manual, direct connection at the site via RS-232 serial port, to allow a local operator real-time access to detailed logged data and the ability to change point values from a laptop.
- Manual, forced communication by local operator/homeowner at the site to initiate an auto-onover mode, allowing a remote operator real-time access to detailed logged data and the ability to change point values.

**Additional Features**

- Status light indicators on the board, including...
  - Flashing green LED for normal operation
  - Yellow LEDs for status of digital inputs
  - Red LEDs for status of digital outputs and modems activity
- UL-recognized and FCC-approved

For more information, try our online demo at [www.vericom.net](http://www.vericom.net) (no password required).



**VeriComm® AXB Control Panels**

Technical Data Sheet

**Standard Components**

Feature	Specifications
1. VeriComm® Remote Telemetry Unit*	ATRTU-100: 3818 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	120 VAC, 16 FLA, 1 hp, 60 Hz; 25 million cycles at FLA (10 million at 50% of FLA); 240 VAC, 16 FLA, 3 hp, 60 Hz; 25 million cycles at FLA (10 million at 50% of FLA).
3. Toggle Switches	Single-pole switch, automatic On, with spring-loaded, momentary manual On, 20 A, 1 hp.
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	120 VAC Primary, 38 VCT @ 0.85 A Secondary.
7. Transformer	250 VAC, 1 A.
8. Audio Alarm	85 dB @ 24 in. (610 mm), warble-tone sound.
9. Visual Alarm	7/8 in. (22 mm) diameter red lens. "Push-to-silence." NEMA 4, 1 W bulb, 120 VAC.
10. Panel Enclosure	Measures 15.5 in. high x 13.3 in. wide x 6.7 in. deep (394 mm x 338 mm x 170 mm) NEMA 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Conduit couplings provided.

**Optional Components**

Feature	Specifications	Product Code Adder
Pump Run Light	7/8 in. (22 mm) diameter green lens. NEMA 4, 1 W bulb, 120 VAC.	PRL
Anticondensation Heater	Self-adjusting; radiates additional wattage as temperature drops.	HT
Programmable Timer	Discharge side timed dosing.	PT
UV Disinfection Compatibility	UV rounded power circuit and alarm contacts. Pump disable upon UV failure.	UV

\* See VeriComm® Remote Telemetry Unit (ATD-CP-VCOM-1) and VeriComm® Monitoring System (ATD-WEB-VCOM-1) for more detail.

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

JOSEPH A. CASALI  
 No. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

**NEWELL RESIDENCE**  
**645 CAMP DIXIE ROAD**  
**BURRILLVILLE, RHODE ISLAND**  
**AP 245, LOT 15**

**REVISIONS:**

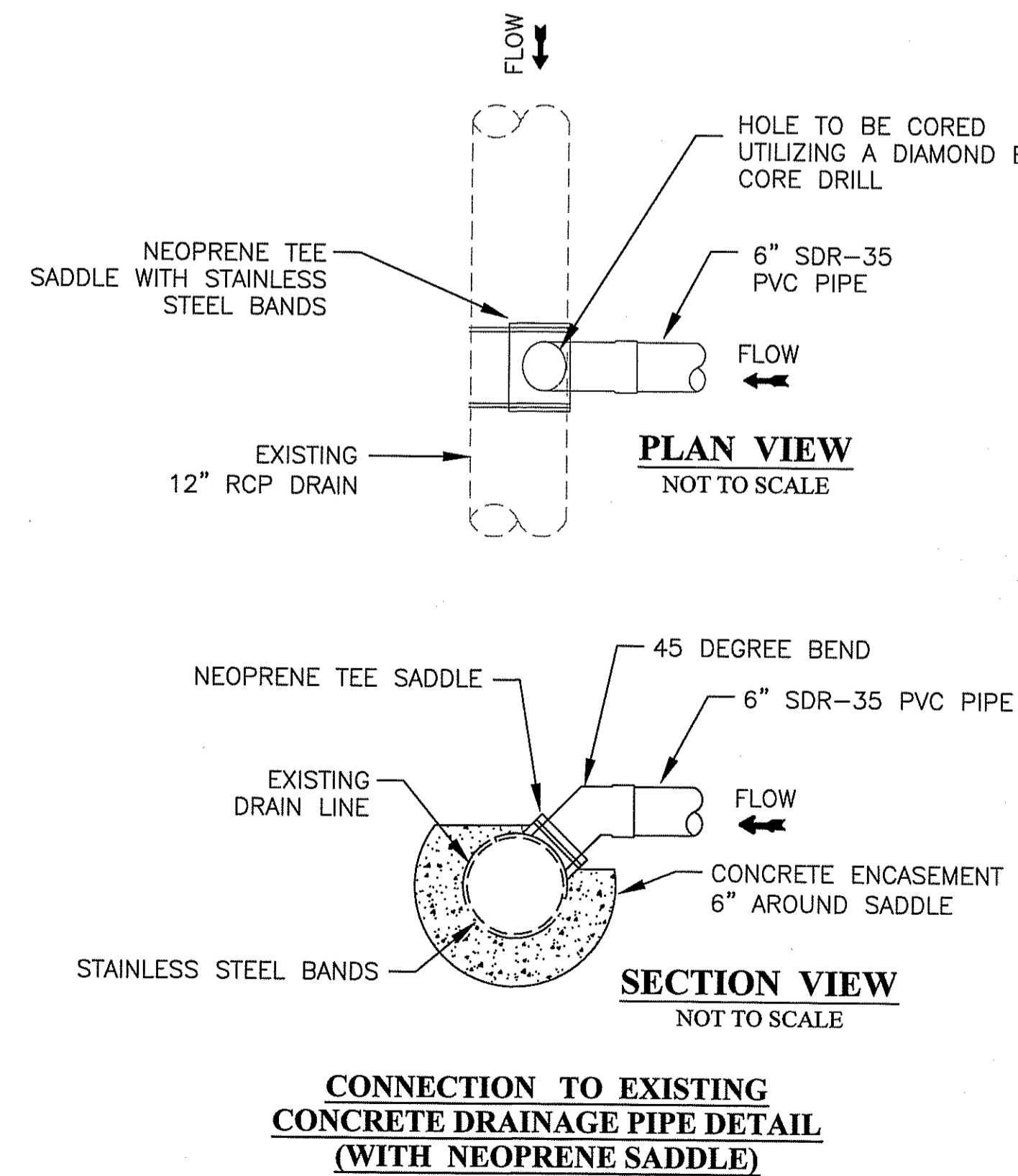
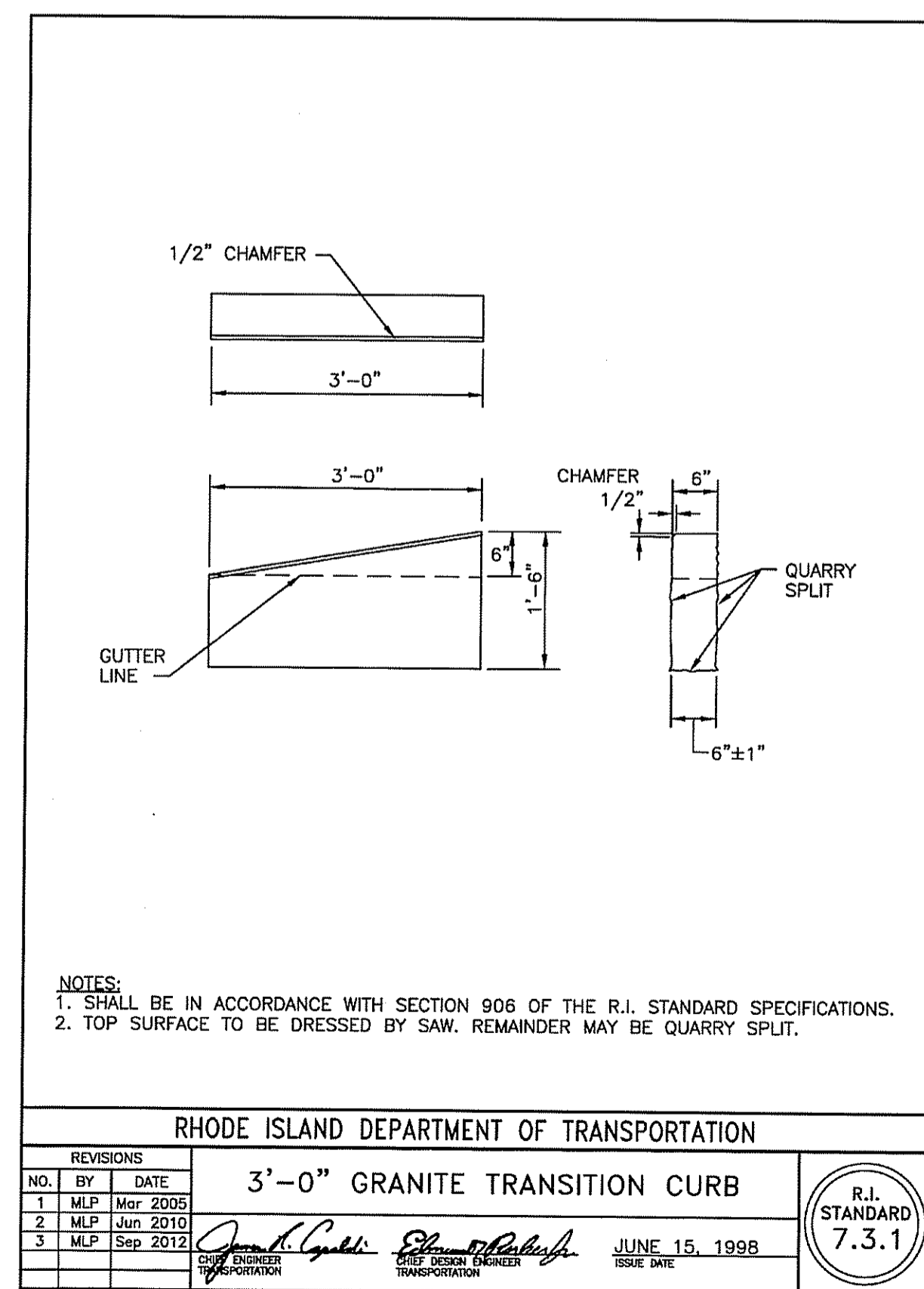
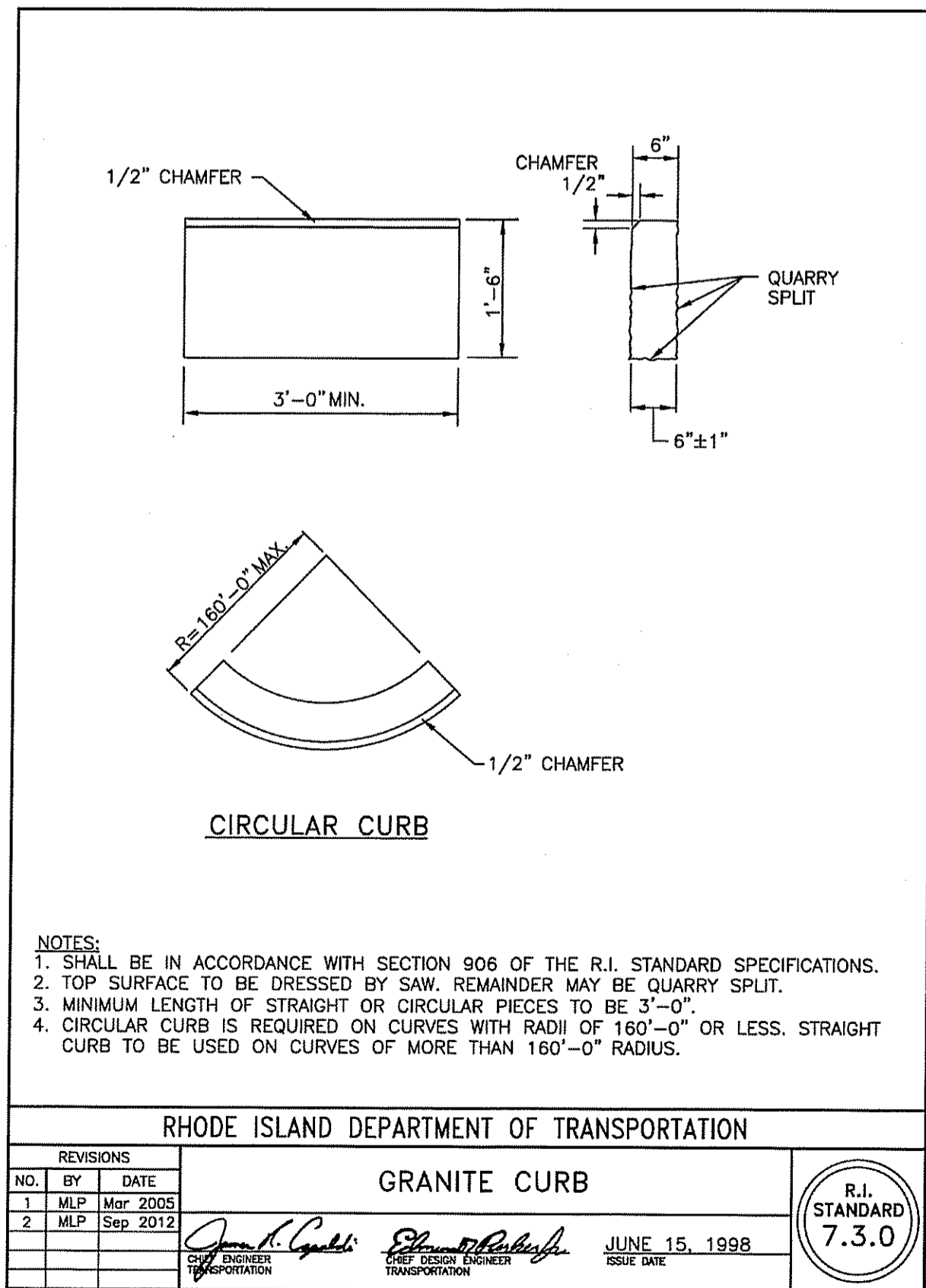
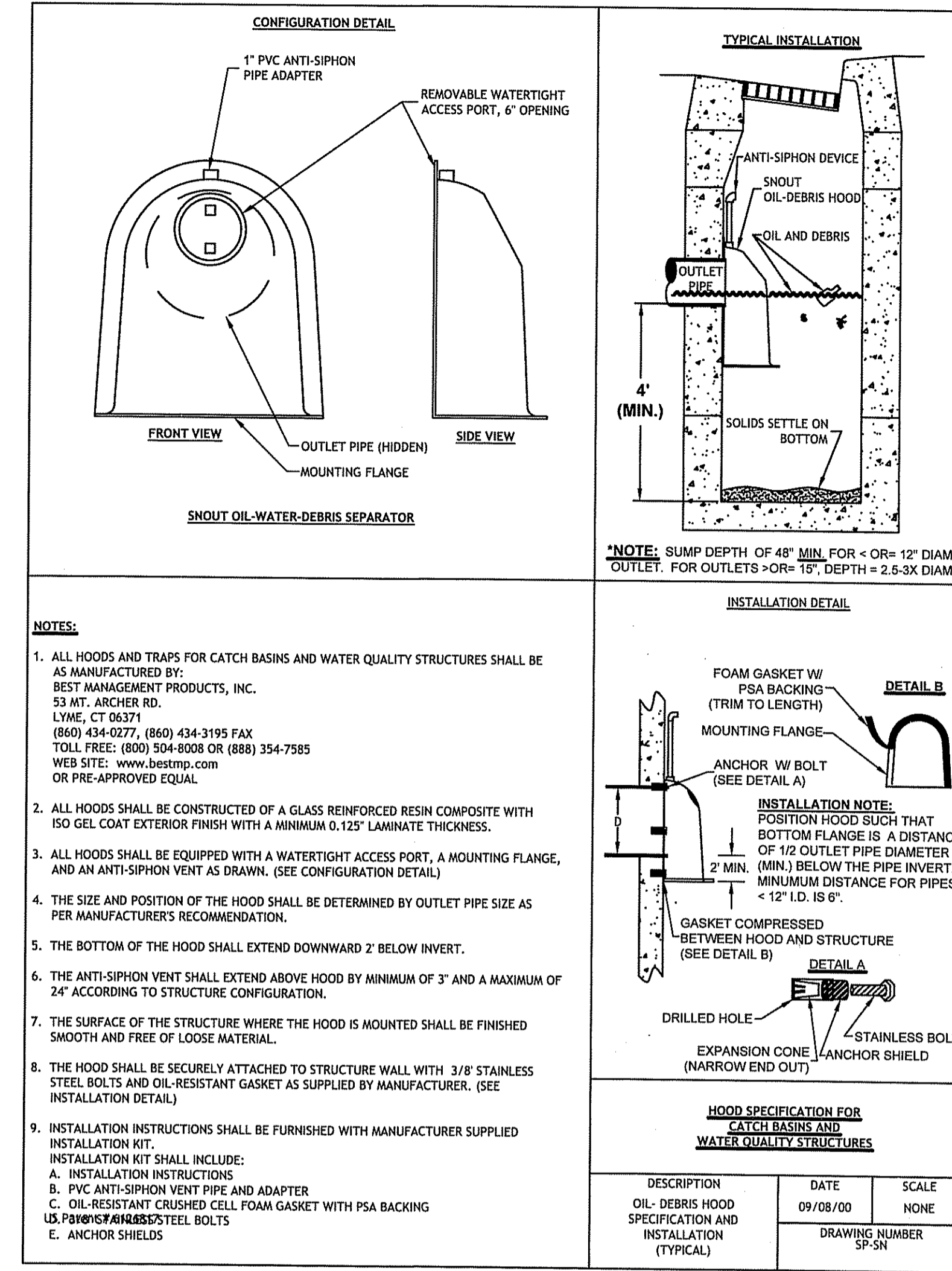
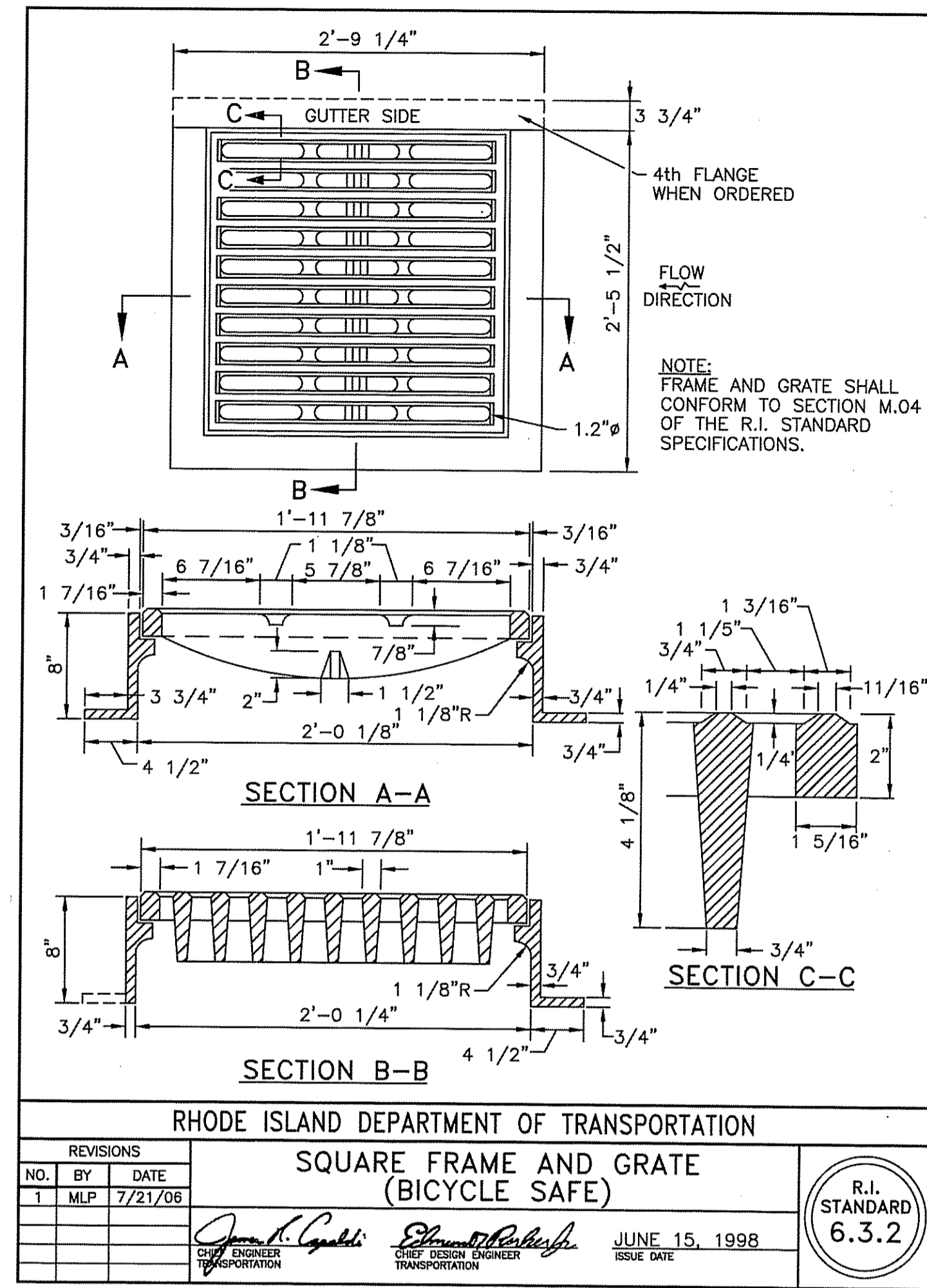
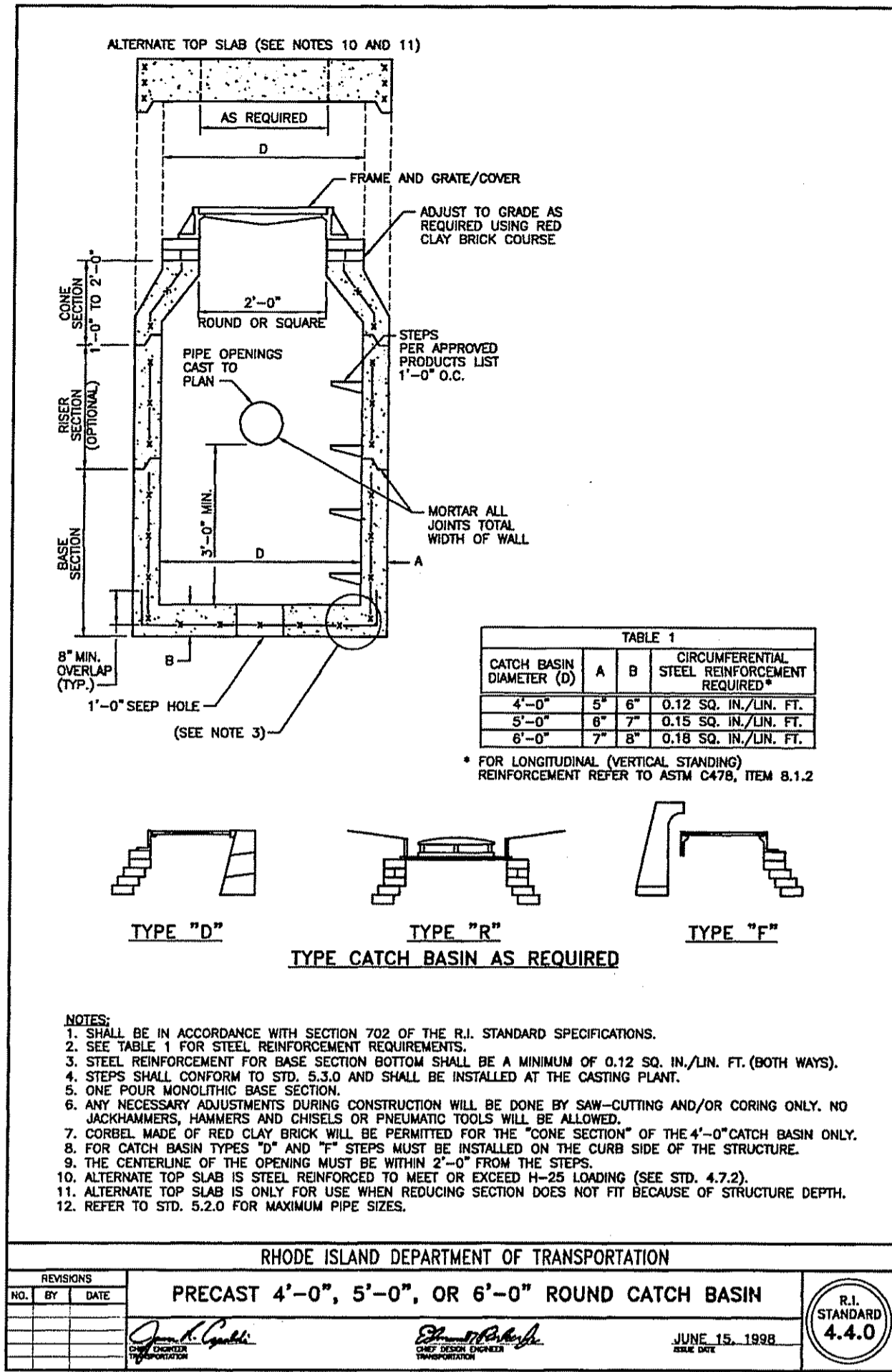
NO.	DATE	DESCRIPTION

DESIGNED BY: WMLJR  
 DRAWN BY: WMLJR  
 CHECKED BY: JAC  
 DATE: JULY 2014  
 PROJECT NO: 13-36a

NOT FOR CONSTRUCTION UNLESS APPROVED BY RIDEM

**DETAILS II**  
**SHEET 4 OF 5**

SEP 11 2014



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESH WATER WETLANDS PROGRAM  
AS SHOWN AND APPROVED WITH CONDITIONS  
NOTED IN THE LETTER OF APPROVAL  
DATE: SEP 24 2014 FILE # 14-0129  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SEP 11 2014

**NEWELL RESIDENCE**  
645 CAMP DIXIE ROAD  
BURRILLVILLE, RHODE ISLAND  
AP 245, LOT 15

**REVISIONS:**

NO.	DATE	DESCRIPTION

DESIGNED BY: WMLJR  
DRAWN BY: WMLJR  
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**DETAILS III**

**SHEET 5 OF 5**

**JOE**

JOE CASALI ENGINEERING, INC.  
CIVIL - SITE DEVELOPMENT - TRANSPORTATION  
DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN  
300 POST ROAD, WARWICK, RI 02888  
(401) 844-1300 (401) 844-1313 FAX WWW.JOE.CALL.COM

JOSEPH A. CASALI  
7250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

C:\13\Newell\13\_36a\_465 Camp Dixie Road - Burrillville\dwg\Drawings\Detail.dwg, Sep. 11, 2014 8:32am

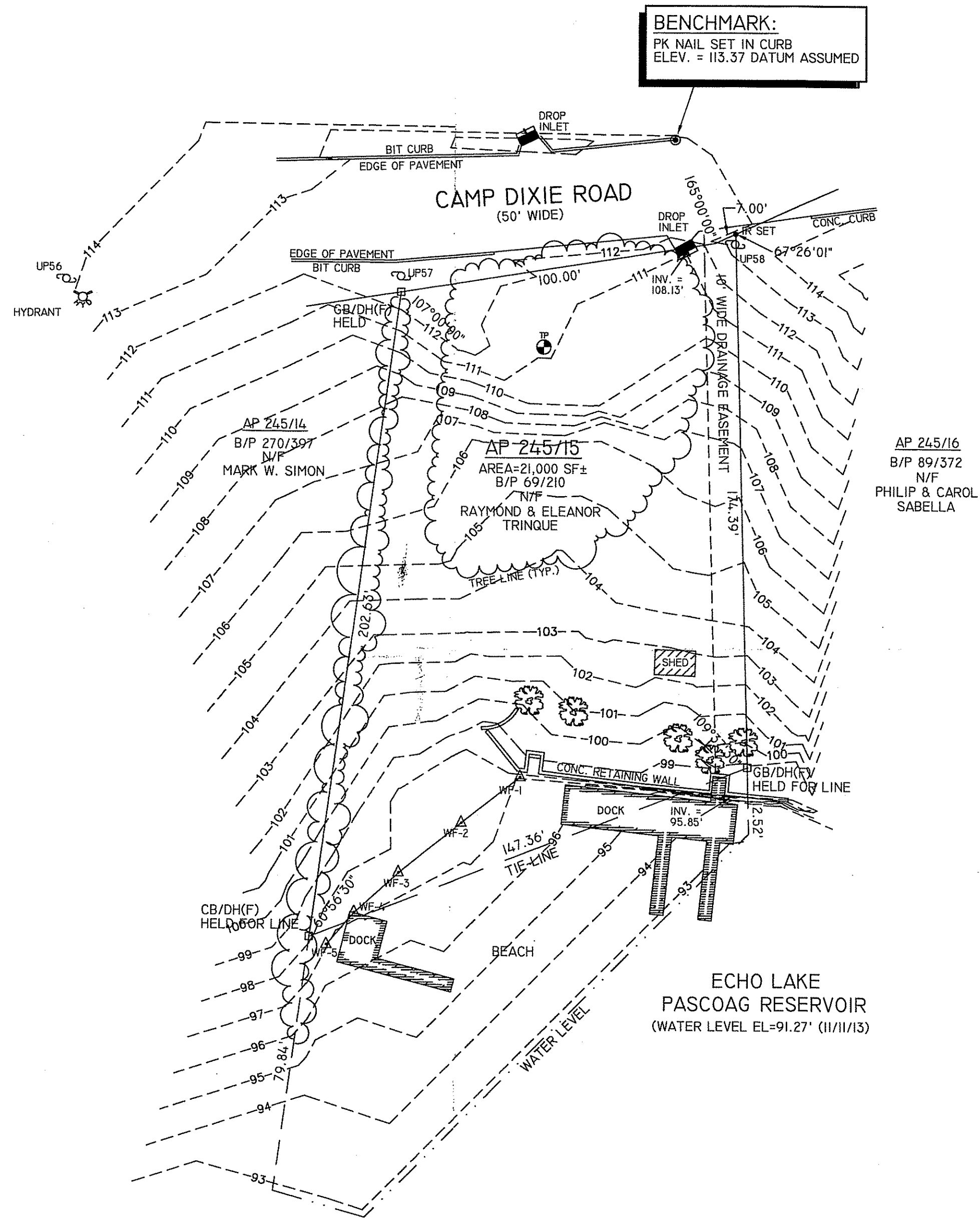
**LEGEND**

- STONE WALL
- — — PROPERTY LINE
- GB/DH(F) □ GRANITE BOUND/DRILL HOLE FOUND
- DH(F) ⊙ DRILL HOLE FOUND
- IR(F) ⊙ IRON ROD FOUND
- IP(F) ⊙ IRON PIPE FOUND
- ⊙ UTILITY POLE
- ⊙ SMH SEWER MANHOLE
- ⊙ TEST PIT
- AC ACRES
- SF SQUARE FEET
- A.P. TAX ASSESSOR'S PLAT
- BK/PG BOOK/PAGE

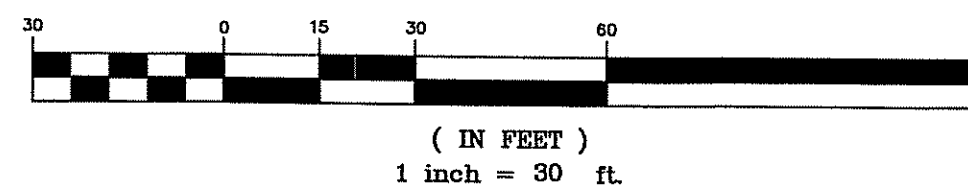
PLAN REF:  
 I. PLAN BOOK 4 PAGE 42 / A PLAN TITLED  
 SHORE ACRES SECTION 2 BY STANLEY MOWERY DATED JUNE, 1966

THIS SURVEY AND PLAN CONFORM TO A CLASS ONE STANDARD AS ADOPTED BY  
 THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

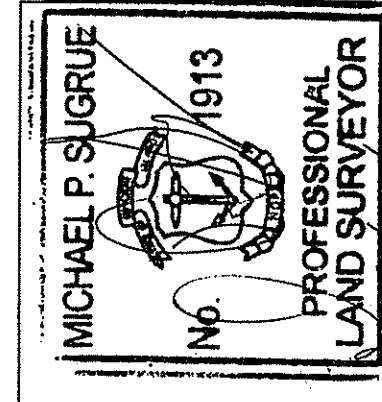
MICHAEL P. SUGRUE, PROFESSIONAL LAND SURVEYOR NO. 1913



GRAPHIC SCALE



**SUGRUE & ASSOC., INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 72 HARTFORD PIKE  
 NORTH SCITUATE, R.I. 02857  
 401-647-3890 FAX (401) 647-7067



REVISIONS:	DATE

**EXISTING CONDITIONS PLAN**

FOR  
 A.P. 245, LOT 15  
 CAMP DIXIE ROAD  
 BURRILLVILLE, R.I.  
 SCALE: 1" = 30'  
 DATE: NOVEMBER, 2013

JOB NO. SA213783  
 DWG. NO. 1 OF 1