

LOCATION MAP 1"=1,000'±

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: MAR 28 2023 FILE #: 22-0349  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

NOTES:

- PROPERTY LINES AND TOPOGRAPHIC MAPPING INFORMATION FROM PLANS ENTITLED, "LIMITED CONTENT BOUNDARY & TOPOGRAPHY SURVEY", PREPARED BY CHERENZIA & ASSOCIATES, LTD. DATED JUNE 24, 2022.
- THE SITE LIES WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD PER FEMA FLOOD INSURANCE RATE MAP PANEL 4409903621, EFFECTIVE OCTOBER 16, 2013.
- WETLAND DELINEATION CONDUCTED BY NATURAL RESOURCE SERVICES INC ON MARCH 16, 2018.
- ROW OF SCREEN PLANTINGS ALONG PORTIONS OF LIMIT OF DISTURBANCE TOUCHING THE 50' PERIMETER WETLAND, PLANTINGS SHOULD BE AT LEAST THREE FEET (3') TALL AFTER PLANTINGS AND BE SPACED EIGHT FEET (8') ON CENTER. PLANTINGS SHOULD CONSIST OF AN EQUAL DISTRIBUTION OF AT LEAST TWO (2) OF THE FOLLOWING SPECIES:  
 - SHADBLU, *AMELANCHIER CANADENSIS*  
 - ARROWWOOD, *VIBURNUM DENTRATUM*  
 - BAYBERRY, *MORELLA PENNSYLVANICA*  
 - WINTERBERRY, *ILEX VERTICILLATA*; AND/OR  
 - ELDERBERRY, *SAMBUCUS NIGRA*

PLAN REVISIONS

| REV. NO. | DATE    | DESCRIPTION                              | DWN BY | CHK BY |
|----------|---------|--|--------|--------|
| 1        | 3/6/23  | RIDEM WETLAND COMMENTS & OWT'S REVISIONS | AKG    | SFC    |
| 2        | 3/16/23 | UPDATE PLANT LIST                        | AKG    | SFC    |

SCALE: AS NOTED  
 CA JOB #220014  
 DATE: 6/29/2022

DRAWN BY: AKG  
 CHECK BY: SFC

ISSUED FOR PERMITTING

SITE PLAN

GAFFETT RESIDENCE  
 1231 OFF HIGH ST  
 PLAT 7 LOTS 160  
 NEW SHOREHAM, RHODE ISLAND

PREPARED FOR  
 PAIGE GAFFETT

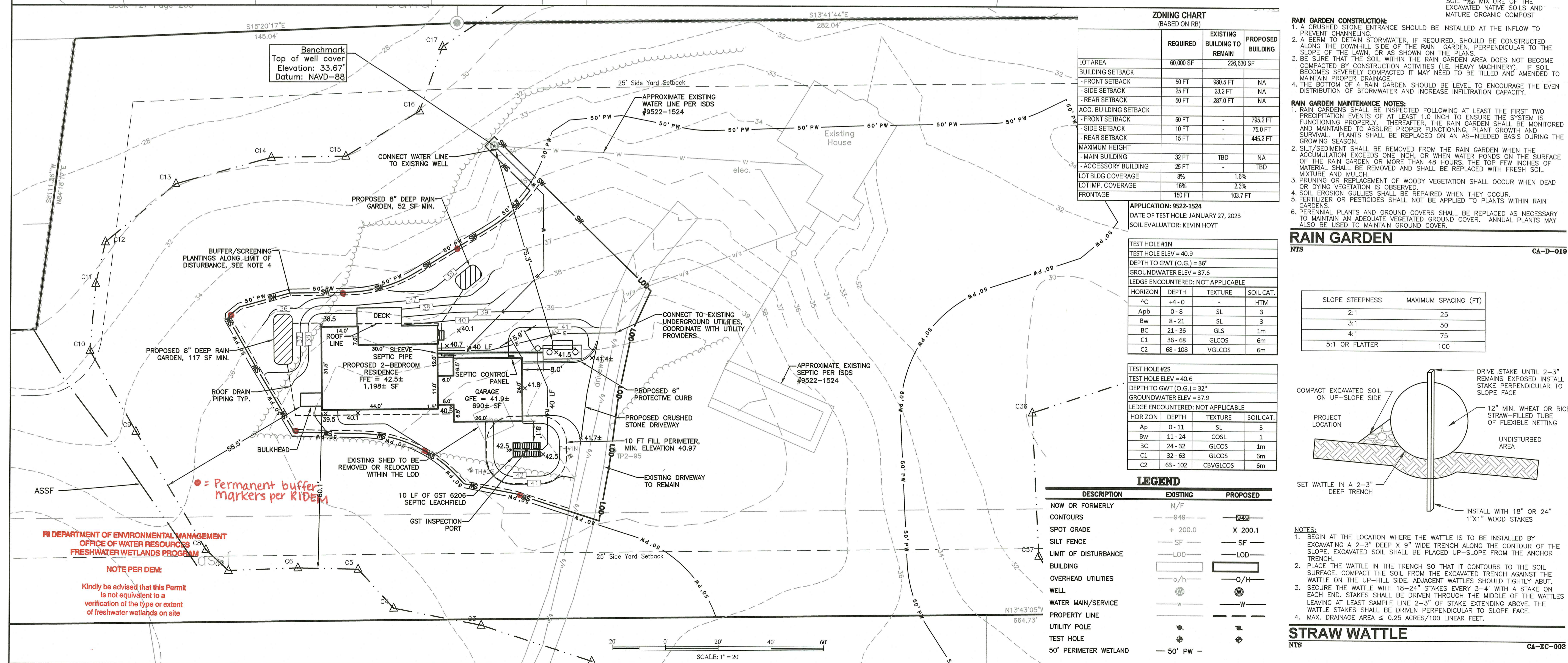
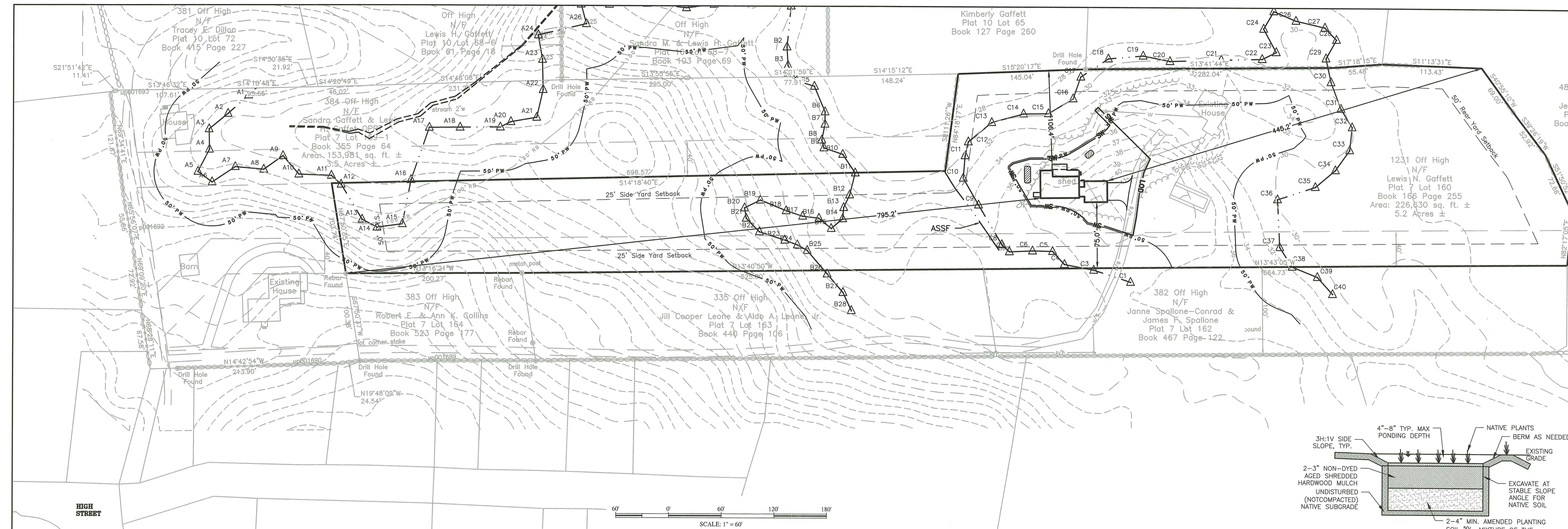
Office of Water Resources

MAR 28 2023

**SERGIO F. CHERENZIA**  
 No. 9238  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**C-1**

Sheet 1 of 4



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

- GENERAL NOTES:**
1. THERE ARE NO SUBSURFACE DRAINS, FOUNDATION DRAINS, OR STORM DRAINS EXISTING OR PROPOSED WITHIN 25' UP GRADIENT OR 50' DOWN GRADIENT OF THE PROPOSED OWTs.
  2. CLEAR ALL BRUSH AND TREES WITHIN 10' OF OWTs.
  3. NO PARKING OVER SYSTEM, UNLESS 200 WHEEL LOAD IS EXPERIENCED.
  4. ALL SEPTIC TANK FILTERS SHALL BE CLEANED ON A YEARLY BASIS.
  5. THE SEPTIC TANK SHALL BE PUMPED OF CONTENTS WHEN THE SLUDGE DEPTH BECOMES GREATER THAN 1/4 THE LIQUID DEPTH. THE TIME BETWEEN PUMPING WILL VARY, BUT IT IS SUGGESTED THAT THE TANK BE PUMPED OF CONTENT AND INSPECTED AT LEAST EVERY TWO YEARS AND MORE FREQUENTLY WHEN EXTENDED PERIODS OF HIGH FLOW RATES ARE EXPERIENCED.
  6. CONSTRUCTION SUPERVISION OF THE INSTALLATION OF THIS SEPTIC SYSTEM BY THE SYSTEM DESIGNER IS REQUIRED. CHERENZIA AND ASSOCIATES, LTD. MUST BE CONTACTED 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ASSURE COMPLIANCE WITH RIDEM OWTs REGULATIONS.
  7. ALL PIPING CONNECTIONS TO BE MADE WITH WATER TIGHT CONNECTORS.
  8. OWTs DESIGN AND APPROVAL IS BASED UPON SOIL EVALUATIONS CONDUCTED IN ACCORDANCE WITH RIDEM OWTs RULES. LOCATION OF SOIL EVALUATIONS ARE SHOWN ON THE SITE PLAN. UNFORSEEN SOIL CONDITIONS OUTSIDE THE REPRESENTATIVE SOIL EVALUATION MAY RESULT IN ADDITIONAL EXCAVATION OF UNSUITABLE MATERIAL TO BE REMOVED AND/OR PLACED DURING CONSTRUCTION.
  9. PIPE AND FORCE MAIN LENGTHS SHOWN ARE HORIZONTAL DISTANCES ONLY AND DO NOT TAKE INTO ACCOUNT SLOPES OR CHANGES IN ELEVATION.

- OWTs PLAN REQUIREMENTS:**
1. WELL OR DRAINS, EXISTING AND PROPOSED WITHIN 200' OF OWTs OR ALTERNATE AREA ARE SHOWN ON PLAN.
  2. PUBLIC WELLS, EXISTING AND PROPOSED WITHIN 500' OF OWTs OR ALTERNATE AREA ARE SHOWN ON PLAN.
  3. OWTs WITHIN 100' OF ANY PROPOSED WELL ARE SHOWN ON PLAN.
  4. EFFLUENT PIPE SHALL BE CONSTRUCTED OF PVC PIPE SDR 35 MINIMUM OR EQUIVALENT. EFFLUENT PIPE THAT WILL BE SUBJECT TO VEHICULAR TRAFFIC SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC OR EQUIVALENT.
  5. MINIMUM ELEVATION OF THE PIPE INVERT TO BE MAINTAINED AT LEAST 10' BEYOND SYSTEM.
  6. SEPTIC TANK TO HAVE INLET TEE AND PROVIDE MANHOLE ACCESS AT GRADE.

- SOIL EROSION & SEDIMENT CONTROL NOTES:**
1. UNNECESSARY CLEARING OF ANY VEGETATION OR GROUND COVER SHALL BE AVOIDED. ANY DISTURBED AREA LEFT UN-VEGETATED FOR MORE THAN FIVE DAYS SHALL BE COVERED WITH A HAY OR STRAW MULCH TO MINIMIZE EROSION.
  2. FOLLOWING FINAL GRADING, ALL DISTURBED AREAS SHALL BE COVERED WITH 4" LOAM AND SEEDS AS DESCRIBED BELOW. IF ANY SEEDS ARE DISTURBED OR DAMAGED, RE-SEEDING WILL OCCUR AS SOON AS POSSIBLE.

- SEED MIXTURE, % BY WT:**
- RED FESCUE - 75%
  - COLONIAL BENTGRASS-EXETER - 5%
  - PERENNIAL RYEGRASS - 5%
  - BIRDSFOOT TREFOIL-EMPIRE - 15%

APPLY SEED MIXTURE AT A RATE OF 100 LBS. PER ACRE. IF FINAL GRADING OCCURS AFTER OCTOBER 15, DISTURBED AREAS WILL BE SEEDS WITH WINTER RYE-GRASS AND MULCHED WITH HAY OR STRAW AT A RATE OF 1.5-2 TONS PER ACRE. ANY PROPOSED VEGETATION WHICH HAS NOT SURVIVED ONE GROWING SEASON WILL BE REPLACED. UNSUITABLE MATERIAL WILL BE REMOVED FROM THE SITE AND DEPOSITED IN A SUITABLE LOCATION.

- TOP SOIL:**
- a. THE TOP SOIL WILL BE STOCKPILED WITH A RING OF STRAW WATTLES PLACED AROUND THE BASE OF THE PILE.
  - b. STOCK PILES CAN BE PLACED ANYWHERE WITHIN THE LIMIT OF DISTURBANCE.
  - c. AFTER CONSTRUCTION IS COMPLETED, THE TOP SOIL WILL BE SCREENED.
  - d. SCREENED TOP SOIL WILL BE SPREAD TO A MINIMUM DEPTH OF 4" OVER ALL DISTURBED AREAS AND SEEDS AS DESCRIBED IN THE SOIL EROSION & SEDIMENT CONTROL NOTES.

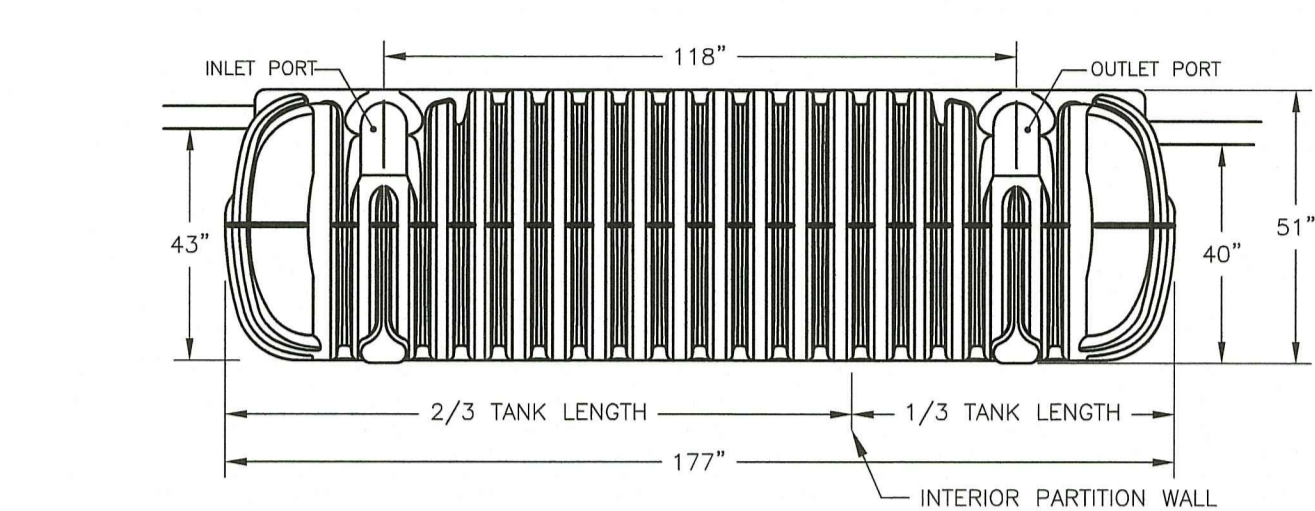
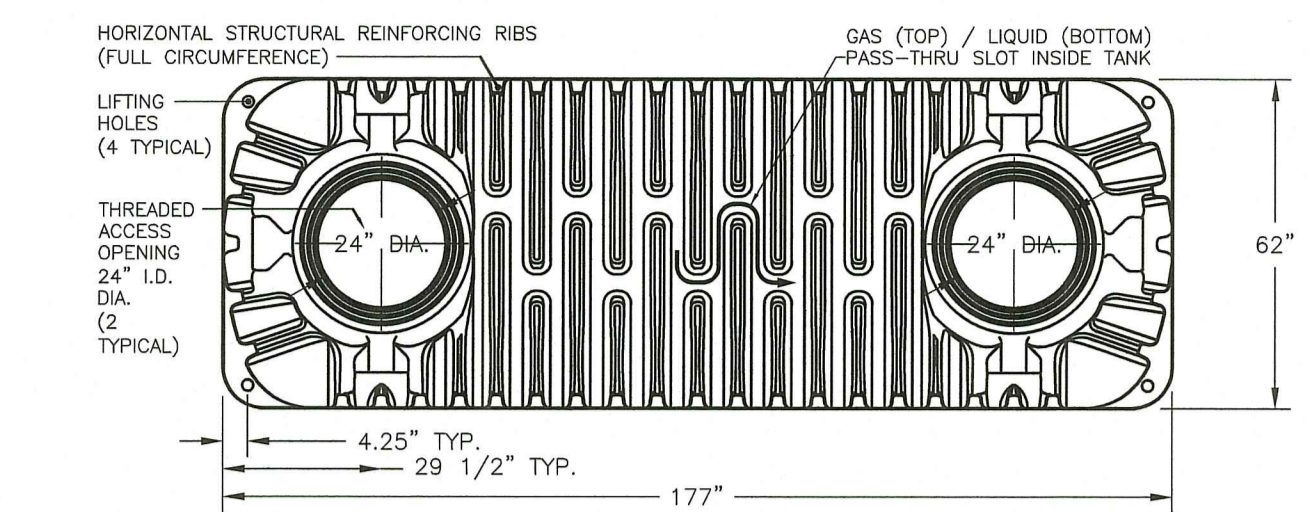
**OWTs DESIGN CALCULATIONS:**

115 GALLONS PER DAY DESIGN FLOW X 2 BEDROOMS = 230 GALLONS PER DAY  
LOADING RATE: 2.3 GAL./S./DAY, SOIL CATEGORY 6M, TREATMENT CATEGORY I  
230 GALLONS PER DAY/2.3 GAL. PER SF PER DAY = 100 SF REQUIRED.

GST 6206 = 10.3 SF/LF  
100 SF/10.3 SF/LF = 9.7 LF REQUIRED.  
1 ROW OF 10 LF = 10 LF X 10.3 SF/LF = 103 SF PROVIDED.  
NO PLAN FOR GARBAGE DISPOSAL OR LARGE TUB IN PROPOSED DEVELOPMENT.

- PUMP CALCULATIONS:**
1. DESIGN FLOW FROM PUMP CHAMBER TO LEACHFIELD IS 28.8 GALLONS EACH DOSE (230 GALLONS/8 Doses = 28.75 GAL/DOSE).
  2. PIPING DRAIN BACK - 40 LF OF 1.25" PIPE = 2.55 GAL.
  3. TOTAL VOLUME TO BE PUMPED PER CYCLE IS 31.30 GALLONS.
  4. 24" DIAMETER PUMP CHAMBER = 3.14 SF X 1 FT X 7.48 GAL/CF = 23.49 GAL/CF IN PUMP CHAMBER.
  5. DOES VOLUME = 31.30 GAL / 23.49 GAL/CF = 1.33 FT BETWEEN FLOATS FOR DOSE.
  6. 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.
  7. 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).

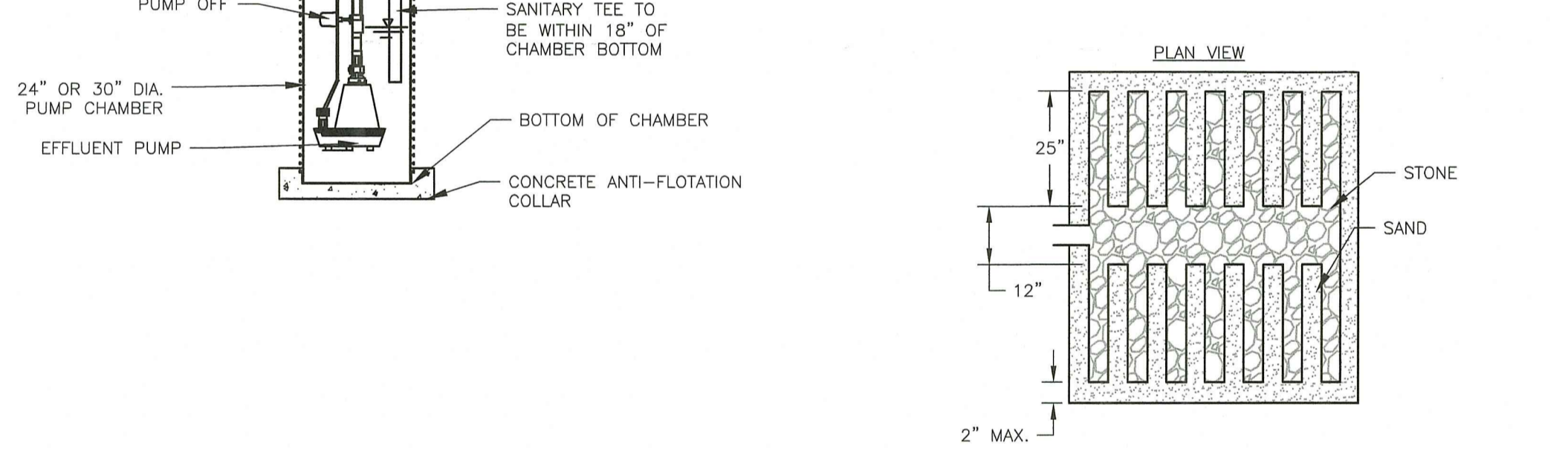
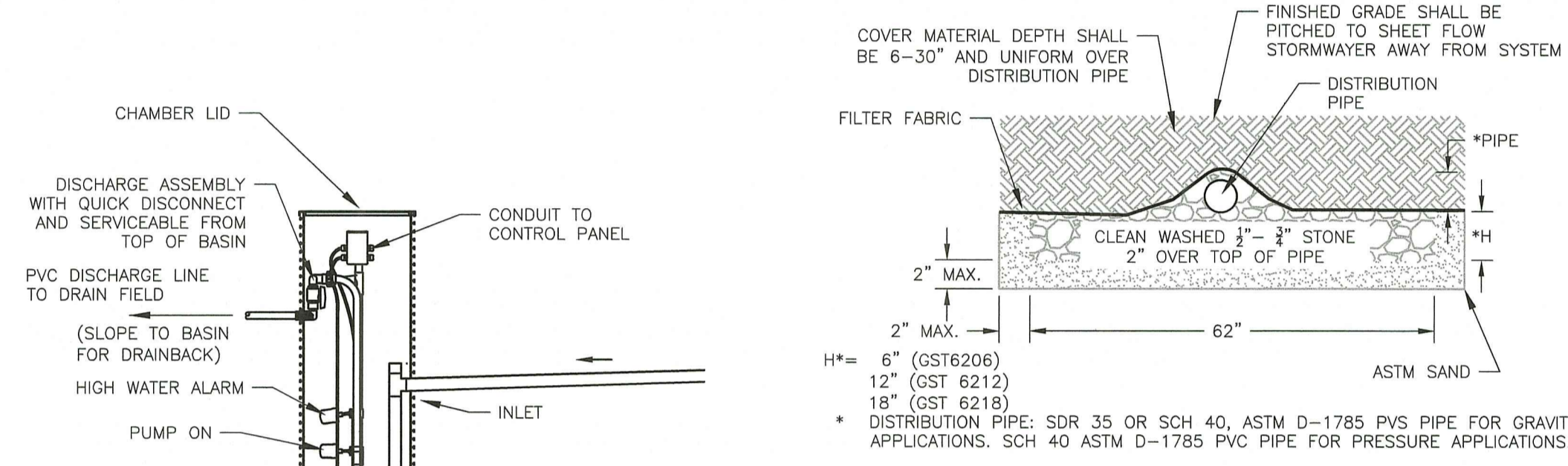
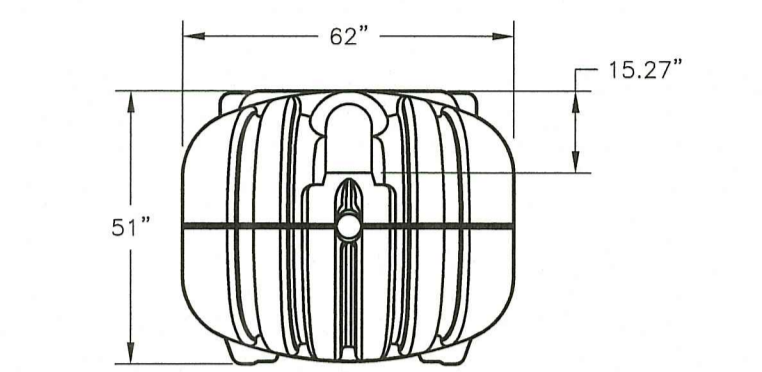
- RAIN GARDEN DESIGN:**
1. RAIN GARDENS SIZED BASED ON THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT, TABLE 7.
  2. THE SOUTHERN RAIN GARDEN AREA WAS SIZED BASED ON ROOF AREA = 1,454 SF. REQUIRED SURFACE AREA OF 8" DEEP RAIN GARDEN = 117 SF.
  3. THE WESTERN RAIN GARDEN AREA WAS SIZED BASED ON ROOF AREA = 655 SF. REQUIRED SURFACE AREA OF 8" DEEP RAIN GARDEN = 52 SF.



**1,500 GALLON TWO COMPARTMENT ROTH TANK**  
NTS CA-0-008A3.3

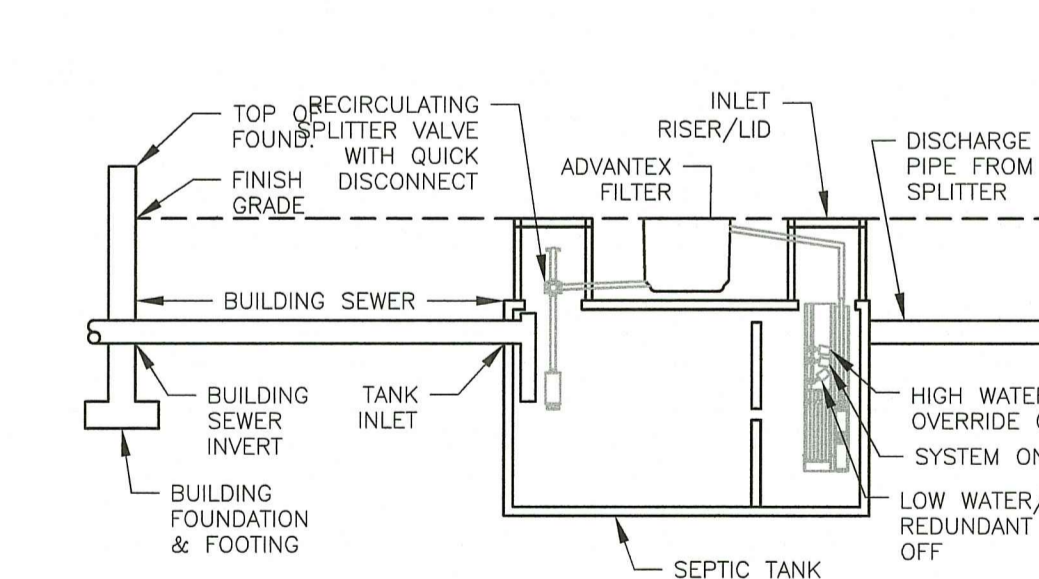
- NOTES:**
1. ALL PENETRATIONS SHALL BE MADE WITH CORRECT SIZE HOLE SAW AND SEALED WITH MANUFACTURER PROVIDED RUBBER PIPE GROMMET
  2. TANK CAPACITY AT 40" LIQUID LEVEL IS 1500 GALLONS
  3. APPROXIMATE EMPTY WEIGHT OF TANK: 640 LBS
  4. TANK IS NOT RATED FOR VEHICULAR TRAFFIC LOADING
  5. TANK MATERIAL IS HMW-HDPE W/ MINIMUM WALL THICKNESS OF 1/2"
  6. MAXIMUM BURIAL DEPTH IS 36"

- ANTI-FLOATATION NOTES:**
1. CONTRACTOR TO COORDINATE WITH ROTH TANK SUPPLIER FOR BUOYANCY RESTRAINING COLLAR AND INSTALLATION REQUIREMENTS TO MEET REQUIRED BUOYANCY FOR HIGH GROUNDWATER CONDITIONS.



**GST LEACHING SYSTEM**  
NTS CA-0-004F1

**PUMP CHAMBER**  
NTS CA-0-001C



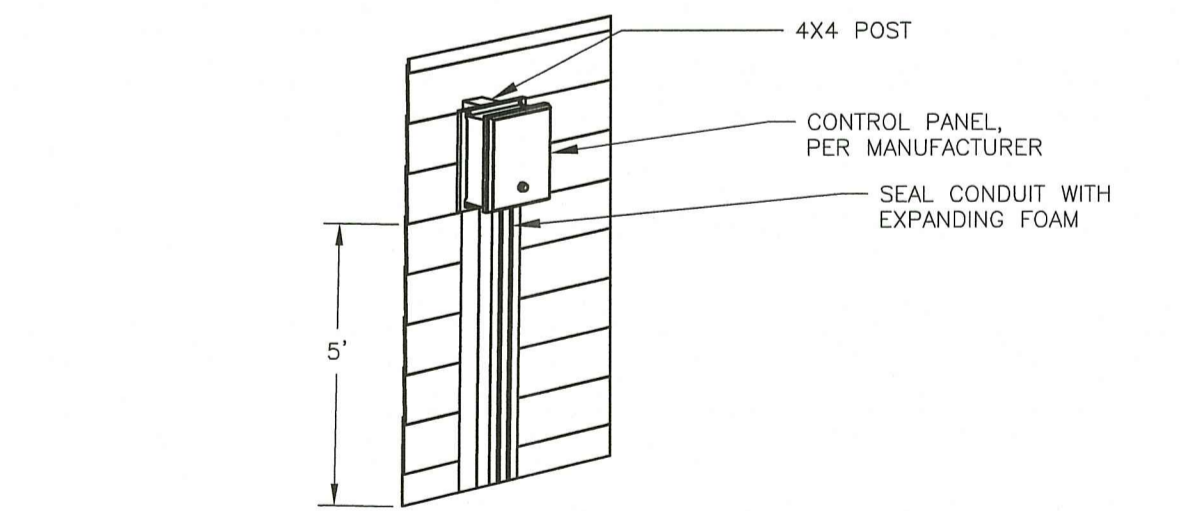
| ITEM                         | ELEVATION     | ITEM                       | ELEVATION        |
|------------------------------|---------------|----------------------------|------------------|
| BUILDING SEWER FINISH FLOOR  | 42.5          | PUMP CHAMBER FINISH GRADE  | 40.7             |
| BUILDING SEWER INVERT        | 38.7          | PUMP CHAMBER LID ELEV.     | 41.5             |
| BUILDING SEWER LENGTH        | 40 FEET       | PUMP CHAMBER INLET INVERT  | 38.6             |
| BUILDING SEWER SLOPE         | 2.4%          | PUMP DISCHARGE LINE INVERT | 39.1             |
| BUILDING SEWER PIPE SIZE/TYP | 4" SDR 35 PVC | HIGH LEVEL ALARM ELEV.     | 38.35            |
|                              |               | PUMP ON ELEV.              | 37.85            |
|                              |               | PUMP OFF ELEV.             | 36.52            |
|                              |               | LWA/REDUNANT OFF ELEV.     | 36.27            |
|                              |               | PUMP CHAMBER BOTTOM ELEV.  | 34.5             |
|                              |               | PUMP EFFLUENT PIPE LENGTH  | 40 FEET          |
|                              |               | PUMP DISCHARGE ASSEMBLY    | 1.0" FC          |
|                              |               | PUMP EFFLUENT PIPE         | 1.25" PVC SCH 40 |
|                              |               | ANTI-FLOATATION COLLAR     | 784 LBS. MIN.    |

**GST 6206**  
NTS CA-0-004F1

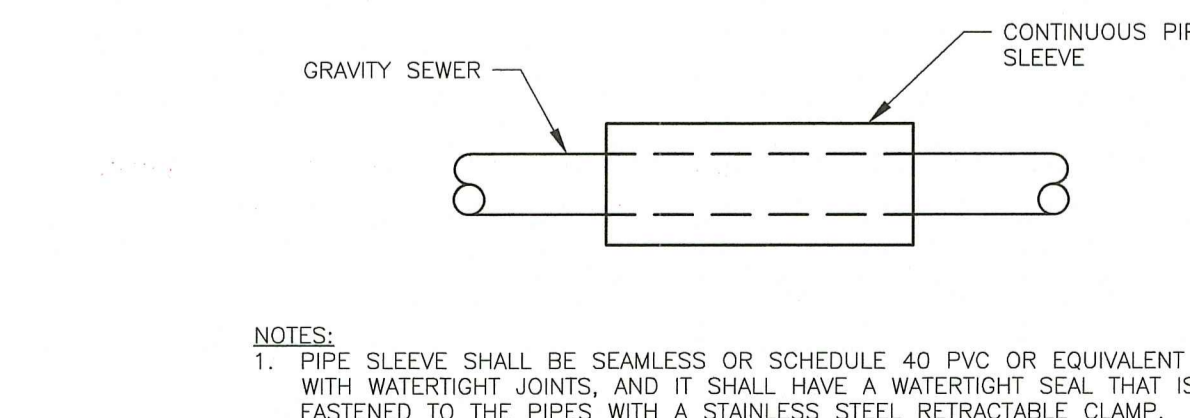
| ITEM   | ELEVATION | ITEM                       | ELEVATION |
|--|-----------|----------------------------|-----------|
| GST 6206 FINISH GRADE                                      | 40.7      | GST 6206 INVERT            | 40.97     |
| GST 6206 BOTTOM OF STONE                                   | 40.47     | GST 6206 BOTTOM OF SAND    | 40.3      |
| GST 6206 10" FILL PERIMETER MIN. ELEV.                     | 40.97     | GST 6206 LATERAL PIPE SIZE | 1" PVC    |
| GST 6206 LATERAL PIPE ORIFICE SIZE                         | 1" PVC    | GST 6206 ORIFICE SPACING   | 12"       |
| GST 6206 REMOVE LOAM/FILL BENEATH LEACHFIELD APPROX. ELEV. | 39.5-39.9 |                            |           |

LEACHFIELD DESIGN POINT  
RULE 6.33G LEACHFIELD DESIGN POINT - WHERE THE SHOW IS GREATER THAN OR EQUAL TO FOUR (4) FEET BELOW THE ORIGINAL GROUND SURFACE, THE LEACHFIELD SHALL BE DESIGNED USING THE ORIGINAL GROUND SURFACE ELEVATION AT THE CENTER OF THE LEACHFIELD.

| ITEM                   | ELEVATION |
|------------------------|-----------|
| CENTER EXISTING ELEV.  | 40.9      |
| GROUNDWATER ELEV.      | 36.23     |
| GROUNDWATER SEPARATION | 2.07 FEET |
| LEDGE ELEV.            | N/A       |
| LEDGE SEPARATION       | N/A       |

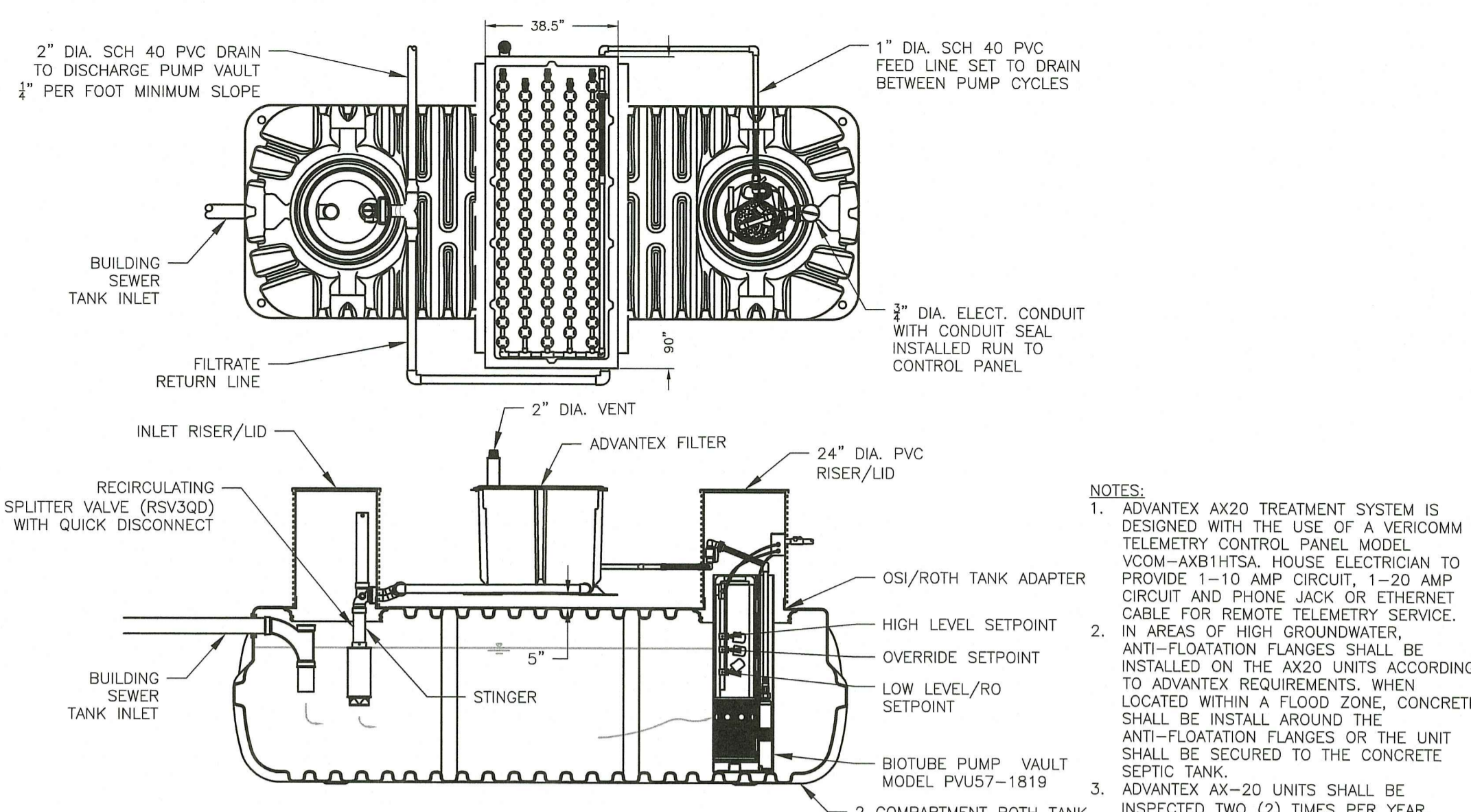


**CONTROL PANEL DETAIL - WALL OR 4X4 POST MOUNTED**  
NTS CA-0-008A

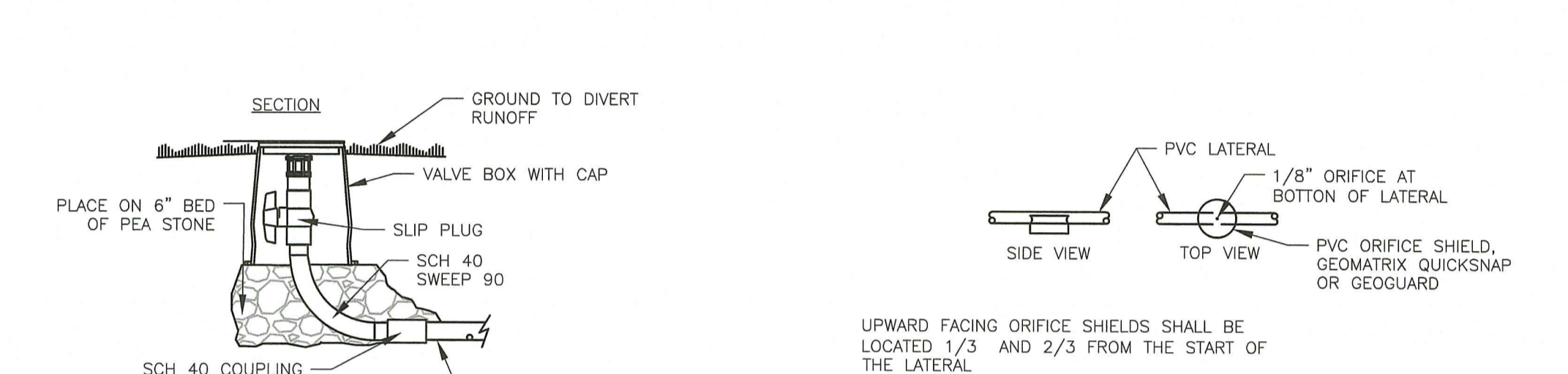


**SEPTIC SLEEVE**  
NTS CA-0-008A

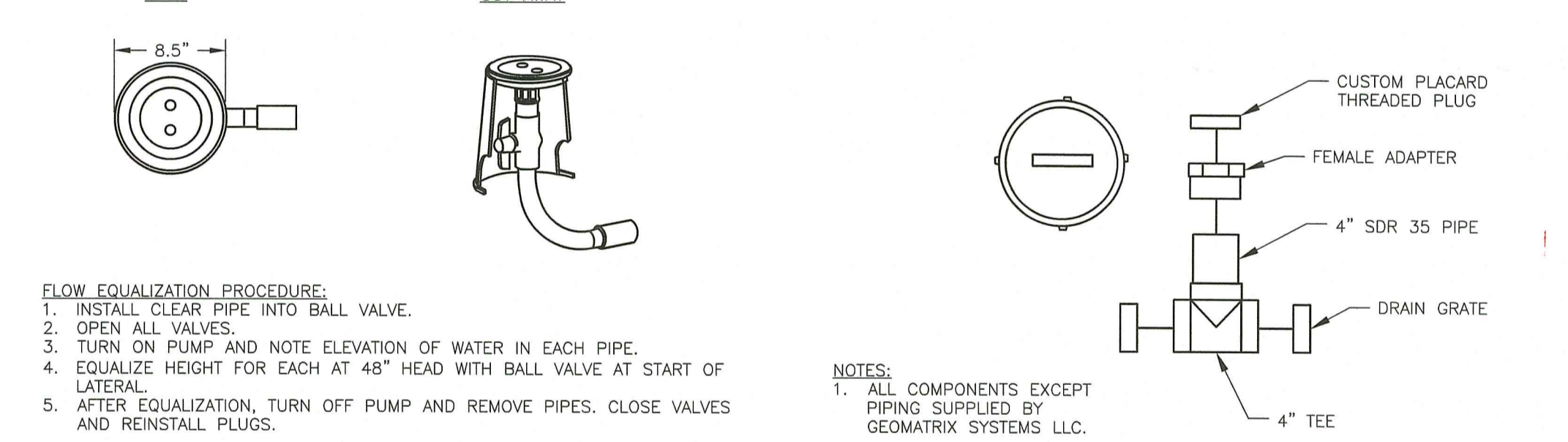
**SEPTIC SCHEMATIC**  
NTS CA-0-005A



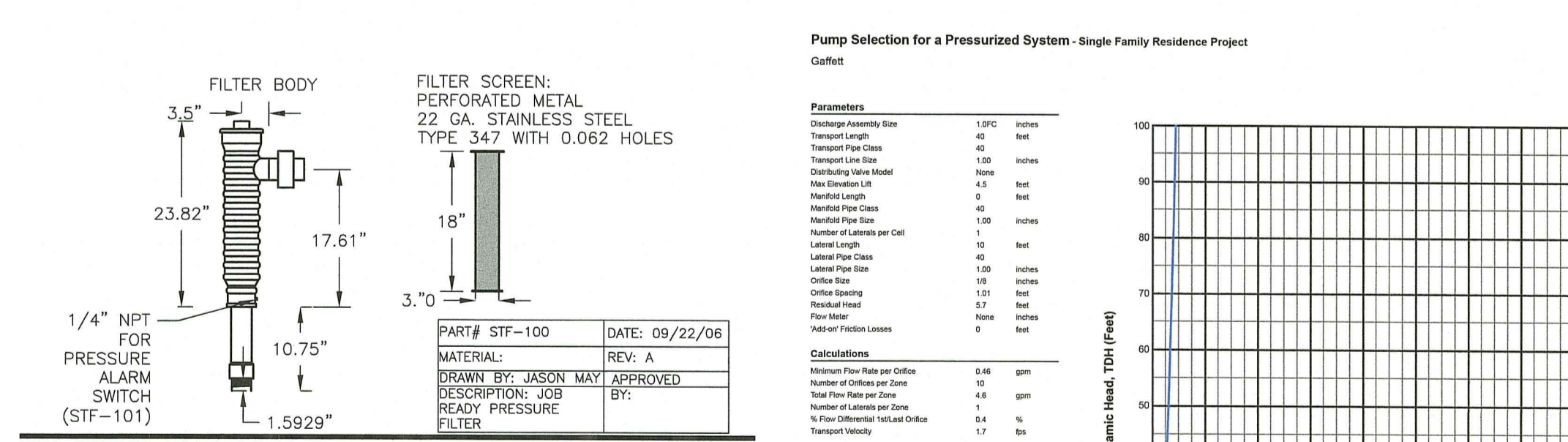
**ADVANTEK TREATMENT SYSTEM AX20 SERIES MODE 3B - ROTH 1500 GALLON 2 COMPARTMENT TANK**  
NTS CA-0-008C4



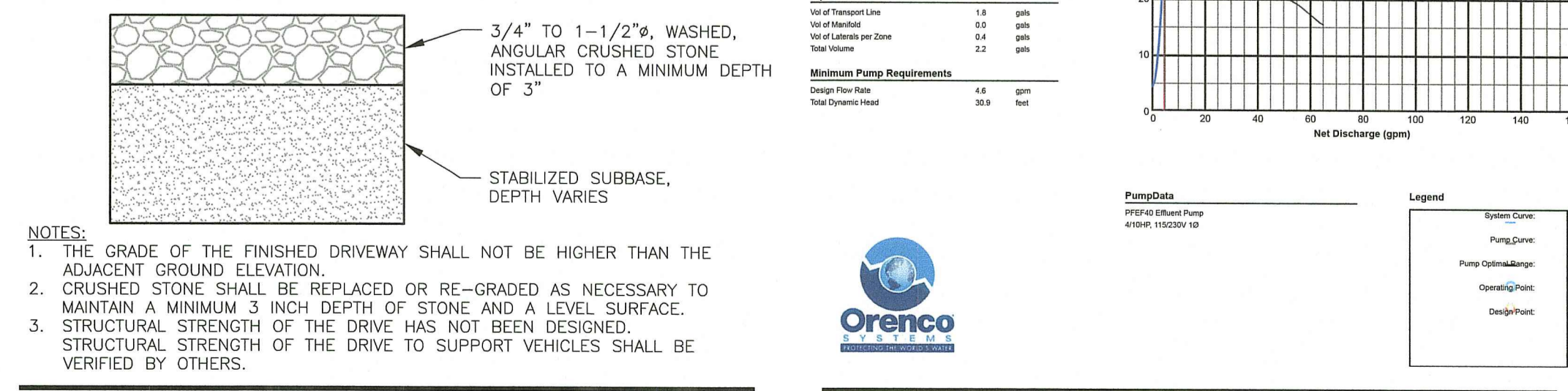
**ORIFICE DETAILS**  
NTS CA-0-004F2



**DISTAL HEAD SCHEMATIC**  
NTS CA-0-004B6



**FILTER DETAILS**  
NTS CA-0-004A5



**CRUSHED STONE DRIVEWAY**  
NTS CA-RD-027

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

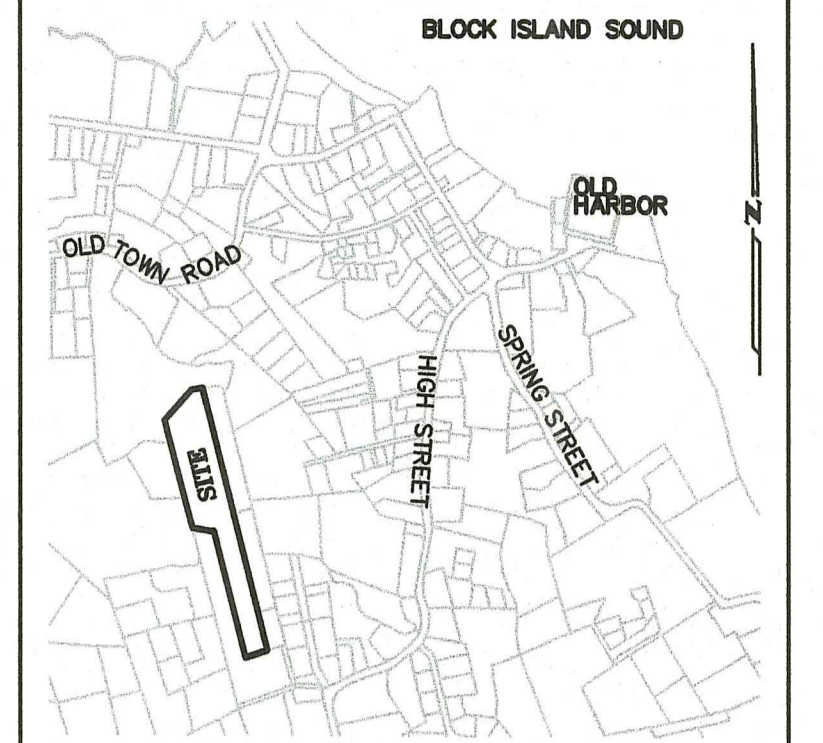
| Parameter                | Value | Unit   |
|--------------------------|-------|--------|
| Discharge Assembly Size  | 1.00  | inches |
| Transport Length         | 40    | feet   |
| Transport Line Size      | 1.00  | inches |
| Transport Line Material  | 1.00  | inches |
| Min. Suction Lift        | 4.5   | feet   |
| Min. Suction Length      | 4     | feet   |
| Min. Suction Pipe Class  | 0.0   | inches |
| Min. Suction Pipe Size   | 1.00  | inches |
| Number of Lifts per Cell | 10    | feet   |
| Lateral Pipe Class       | 0.0   | inches |
| Lateral Pipe Size        | 1.00  | inches |
| Orifice Spacing          | 12    | inches |
| Orifice Size             | 1.0   | inches |
| Flow Velocity            | 5.0   | inches |
| Water Temperature        | 50    | inches |

**Calculations:**

| Parameter                  | Value | Unit |
|----------------------------|-------|------|
| Minimum Flow Rate per Cell | 0.66  | gpm  |
| Number of Cells per Day    | 1.0   | gpm  |
| Total Flow Rate per Day    | 0.66  | gpm  |
| Number of Cells per Day    | 1.0   | gpm  |
| % Flow Overhead Net Loss   | 0.4   | %    |
| Transport Head             | 1.7   | feet |

**Fractional Head Losses:**

| Parameter              | Value | Unit |
|------------------------|-------|------|
| Loss Through Discharge | 20.1  | feet |
| Loss Through Transport | 1.00  | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Discharge | 0.0   | feet |
| Loss Through Transport | 0.0   | feet |
| Loss Through Lateral   | 0.0   | feet |
| Loss Through Orifice   | 0.0   | feet |
| Loss Through Filter    | 0.0   | feet |
| Loss Through Suction   | 0.0   | feet |
| Loss Through Transport | 0.0   |      |



LOCATION MAP 1"=1,000'±



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: MAR 28 2023 FILE #: 22-0349  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

PLAN REVISIONS

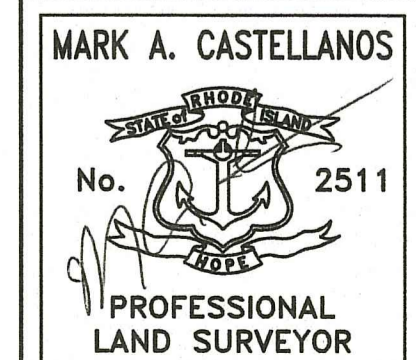
| REV. NO. | DATE | DESCRIPTION | DWN BY | CHK BY |
|----------|------|-------------|--------|--------|
|          |      |             | RAY    | SFC    |

SCALE: 1"=60'  
 CA JOB # 220014  
 JUNE 24, 2022  
 DRAWN BY: TWC  
 CHECK BY: MAC

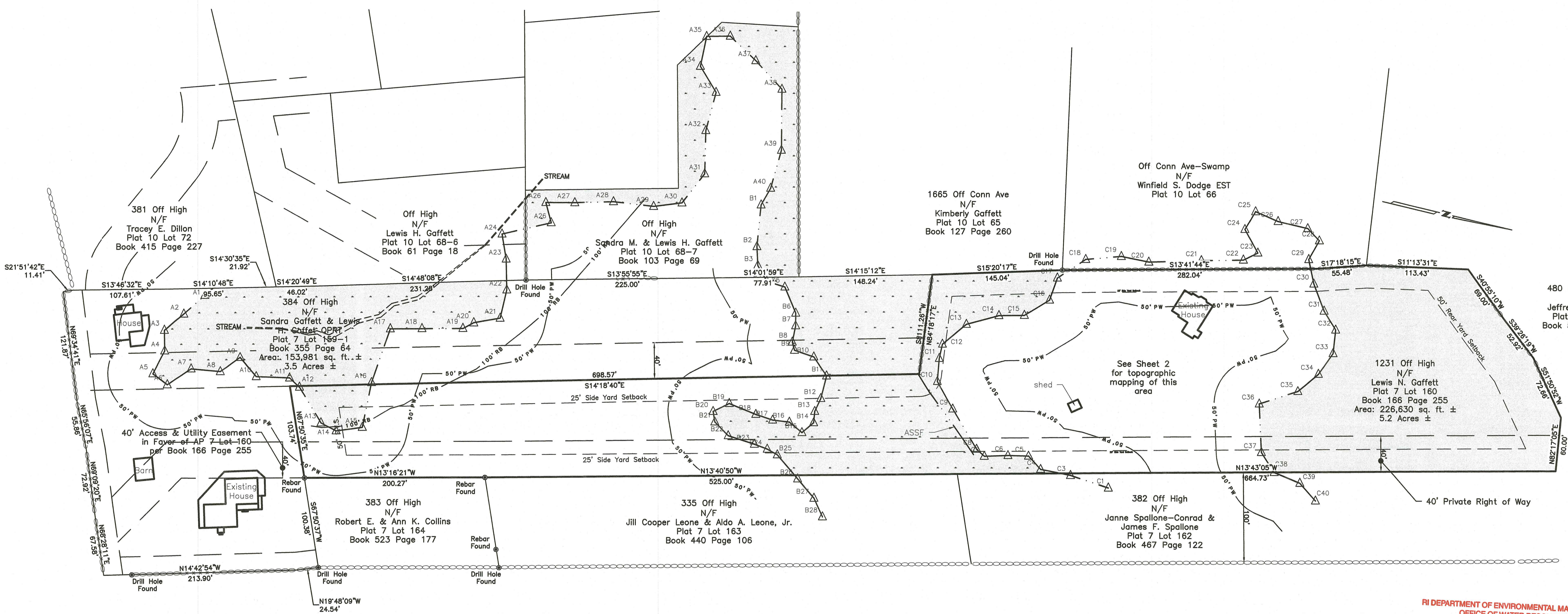
LIMITED CONTENT BOUNDARY & TOPOGRAPHY SURVEY

**SANDRA GAFFETT & LEWIS GAFFETT**  
 384 & 1231 OFF HIGH  
 PLAT 7 LOT 160  
 NEW SHOREHAM, RHODE ISLAND

PREPARED FOR  
**PAIGE GAFFETT**



**S-1**  
 SHEET 3 OF 4  
 PROFESSIONAL LAND SURVEYOR  
 CHERENZIA & ASSOCIATES, LTD.



- REFERENCES**
- R1. Harbor View Block Island, R.I. Unit Land Co. July 1913 Scale = 40 ft. per inch F.T. Westcott, Eng'r North Attleborough, Mass.
  - R2. Plan of Right of Ways Through Lots 159-1, 159-2, 165 & 160 Assessor Plat #7 68-6 Assessor Plat #10 New Shoreham, R.I. Owned by Lewis & Nathaniel Gaffett Date: 4/15/13 Revised: 6/22/16 Scale: 1"=50' Hilbern Land Surveying Land Surveys and Planners North Kingstown, RI
  - R3. Administrative Subdivision Conceptual Site Plan In the Town of New Shoreham, Rhode Island A.P. 7, Lot 159-1, 159-2, 160 - Ebbett's Hollow Prepared for: Lew Gaffett July 30, 2018 Scale: 1"=50' South County Survey Co. Charlestown, RI
  - R4. Site Plan Prepared for Lewis N. Gaffett Assessor's Plat 7, Lot 160 PVT R.O.W. Westerly Off of High Street Town of New Shoreham, RI Scale: 1"=30' Date: Feb, 1998-July, 1999 Richard A. Greene Associates, Inc.

- NOTES:**
- Bearings and North Arrow Orientation are referenced to the Rhode Island State Plane Coordinate System, NAD-83.
  - Elevations are referenced to the NAVD-88 Vertical Datum, see sheet 2.
  - Wetlands shown hereon were delineated by Natural Resource Services, Inc. on March 16, 2018.
  - The subject parcel resides entirely within FEMA Unshaded X Flood Zone, area of minimal flood hazard. As shown on Flood Insurance Rate Map Panel 44009C0362J, effective October 16, 2013.
  - One foot contours based on a field survey conducted June 15, 2022, Two foot contours are based on 2011 statewide LIDAR mapping.
  - Underground utilities, septic components and test hole location shown on sheet 2 are approximated from Reference R4 and Designer's Certificate of Construction for ISDS Permit No. 9522-1524.

- LEGEND**
- N/F Now or Formerly
  - F.Y.S. Front Yard Setback
  - R.Y.S. Rear Yard Setback
  - x28.4 spot grade
  - monument as noted
  - U.P. # utility pole
  - △ A# wetland flagging (freshwater)
  - 50' PW 50' perimeter wetland
  - ~~~~~ brush line

**DISTRICT DIMENSIONAL REGULATIONS**

| District           | Use   | Min. Lot Size  | Min. Front Yard Depth | Min. Side Yard Depth | Min. Rear Yard Depth | Min. Front Yard-Acc. Bldg. | Min. Side Yard-Acc. Bldg. | Min. Rear Yard-Acc. Bldg. | Max. Hgt. of Princ. Bldg. | Max. Hgt. of Acc. Bldg. | Max. % Imperv. Surf. | Min. Lot Frontage |
|--------------------|---|----------------|-----------------------|----------------------|----------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|----------------------|-------------------|
| RB - Residential B | Single Family Dwelling or Other Permitted Use | 60,000 Sq. Ft. | 50 feet               | 25 feet              | 50 feet              | 50 feet                    | 10 feet                   | 15 feet                   | 32 feet                   | 25 feet                 | 16%                  | 150 feet          |

**CERTIFICATION:**

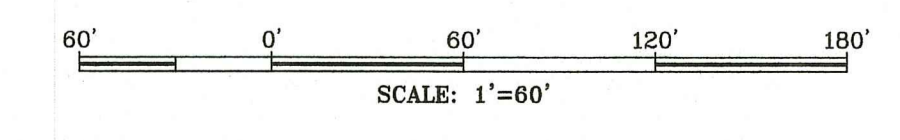
This survey has been conducted and the plan has been prepared pursuant to Section 9 of the Rules and Regulations adopted by the Rhode Island State Board of Registration for Professional Land Surveyors, effective November 25, 2015, as follows:

**TYPE OF SURVEY:** Limited Content Perimeter Boundary  
 Data Accumulation - Planimetrics  
 Topography

**MEASUREMENT SPECIFICATION:**  
 CLASS I  
 CLASS III  
 CLASS T-2/T-4 (See note 5)

The purpose for the conduct of the survey and for the preparation of this plan is as follows: to prepare a Survey Plan to show the existing conditions of the proposed project area.

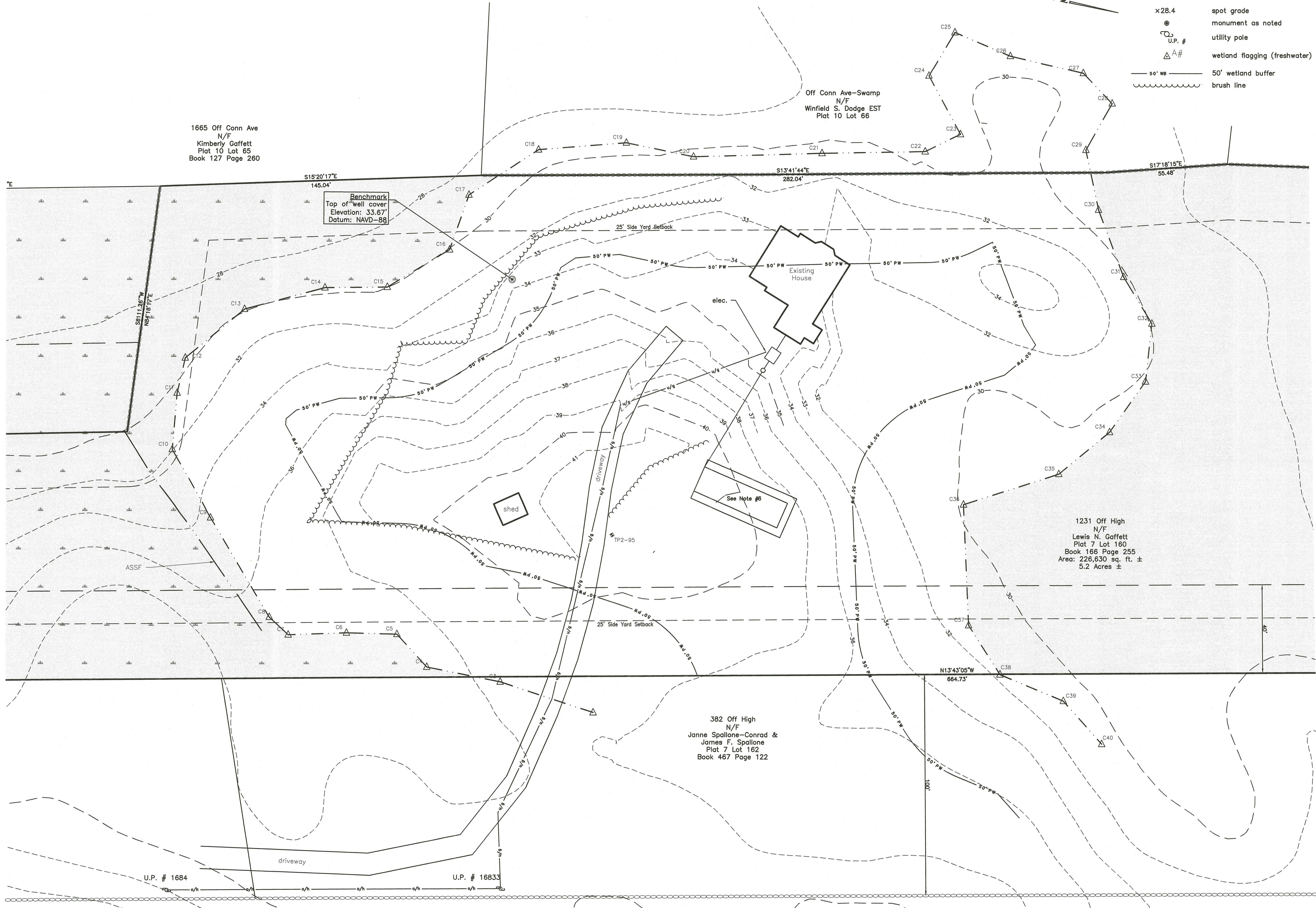
By: *MAC*  
 PLS Signature  
 Mark A. Castellanos PLS #2511  
 Printed PLS Name & License No.  
 LS.000A133-COA  
 COA No.



**STREET INDEX  
 OFF HIGH**

**LEGEND**

- N/F Now or Formerly
- F.Y.S. Front Yard Setback
- R.Y.S. Rear Yard Setback
- x28.4 spot grade
- ⊙ monument as noted
- U.P. # utility pole
- △ A# wetland flagging (freshwater)
- 50' WB 50' wetland buffer
- brush line



RI Environmental Management  
 MAR 20 2023  
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: MAR 28 2023 FILE #: 22-0349  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

**PLAN REVISIONS**

| REV. NO. | DATE | DESCRIPTION | DWN BY | CHK BY |
|----------|------|-------------|--------|--------|
|          |      |             | RAY    | SFC    |

SCALE: 1"=20'  
 CA JOB # 220014  
 JUNE 24, 2022

DRAWN BY: TWC  
 CHECK BY: MAC

**LIMITED CONTENT BOUNDARY & TOPOGRAPHY SURVEY**

**SANDRA GAFFETT & LEWIS GAFFETT**  
 384 & 1231 OFF HIGH  
 PLAT 7 LOT 160  
 NEW SHOREHAM, RHODE ISLAND

PREPARED FOR  
**PAIGE GAFFETT**

MARK A. CASTELLANOS  
 No. 2511  
 PROFESSIONAL LAND SURVEYOR

**S-2**  
 SHEET 4 OF 4  
 CHERENZIA & ASSOCIATES, LTD.

