

RAIN GARDEN CALCULATION:

- PROPOSED IMPERVIOUS AREA (ROOFS) = 1070 SF
- REQ. AREA FOR 8" DEEP RAIN GARDEN FOR SANDY SOILS = 80 SF/1,000 SF OF IMPERVIOUS AREA
- 1070 SF ÷ 1,000 SF x 80 SF = 85.6 SF OF RAIN GARDEN AREA REQUIRED
- PROPOSED (2) RAIN GARDENS = 9' X 5' = 90 SF OF RAIN GARDEN PROPOSED

FEMA DESIGNATIONS:

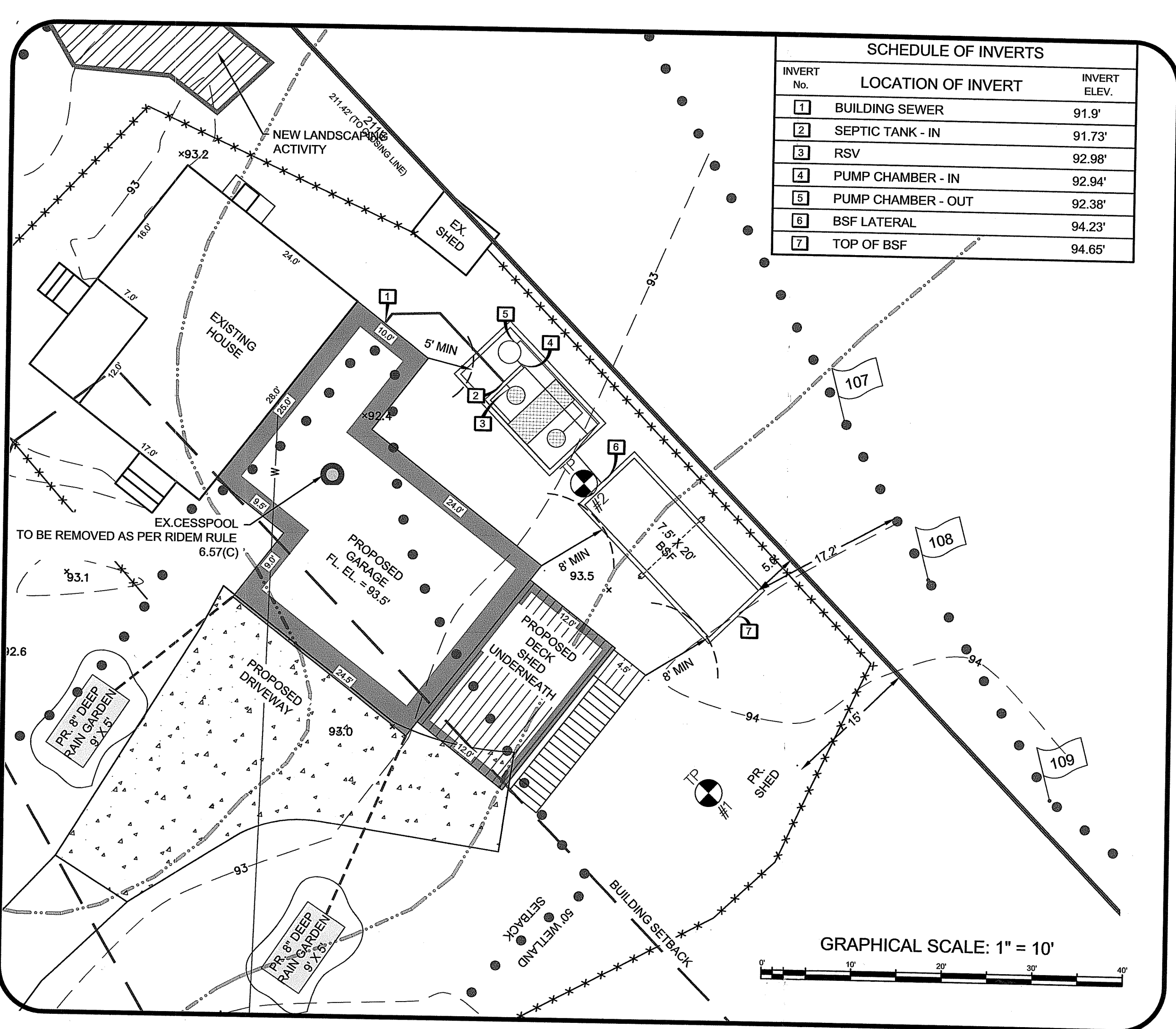
THE SUBJECT PROPERTY DEPICTED HEREON APPEARS TO BE WITHIN ZONES AE WITH A BFE OF 92.3' AND ZONE X (SHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44090C0167J, DATED APRIL 3, 2020.

LEGEND

—	PROPERTY LINE	⊙	TEST PIT
⊙	UTILITY POLE	□	BOUND
x97.5	SPOT GRADE	○	IRON PIN
102	EXISTING CONTOUR	—	TREE/BRUSH LINE
—	WATER LINE	—	FENCE LINE
⊗	WATER VALVE	— x — x —	SILT FENCE

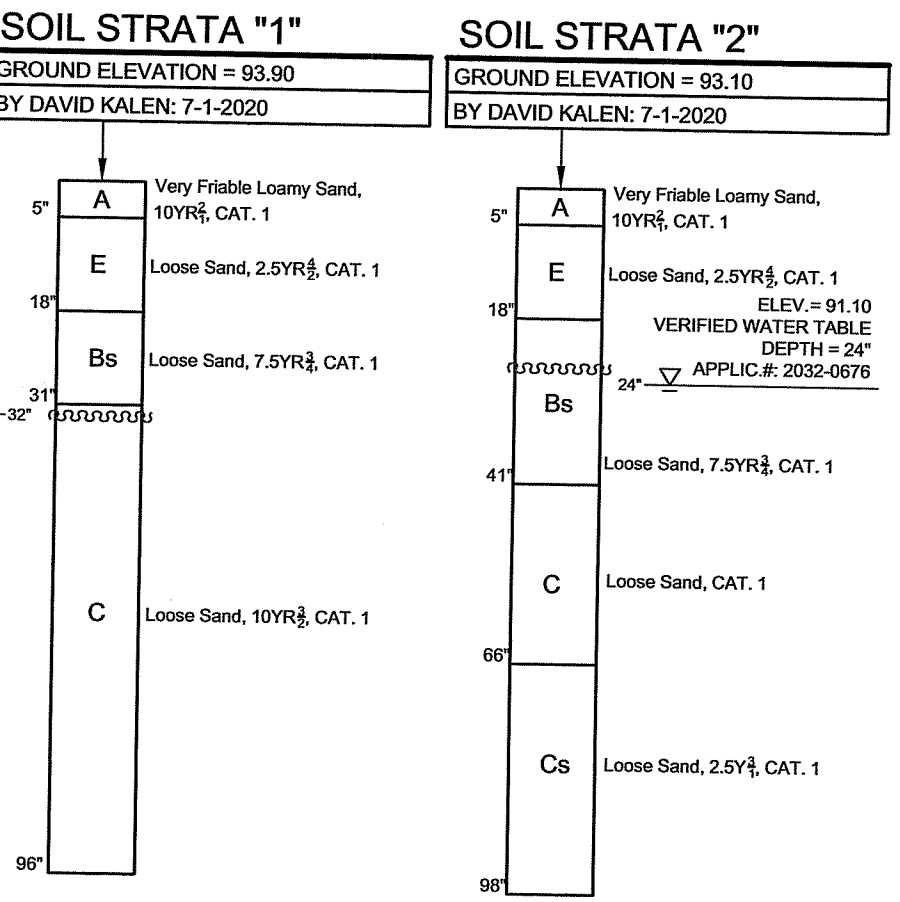
- GENERAL NOTES:**
- ACCORDING TO THE TOWN OF SOUTH KINGSTOWN, THE SITE IS LOCATED IN SPECIAL FLOOD HAZARD OVERLAY.
 - ACCORDING TO THE RIDEM ENVIRONMENTAL RESOURCE MAP, THE SITE IS LOCATED IN THE DEM FRESHWATER WETLANDS OVERLAY DISTRICT.
 - ACCORDING TO THE RIDEM ENVIRONMENTAL RESOURCE MAP, THE SITE IS LOCATED IN GROUNDWATER CWHPA OVERLAY DISTRICT.
 - THIS SITE IS NOT LOCATED WITHIN A CRITICAL RESOURCE AREA.
 - THIS SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA.
 - THE CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION AREA IN A SAFE MANNER AND ALL CONSTRUCTION ACTIVITY ON THE SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
 - SYSTEM SHALL BE INSTALLED AS PER THE CURRENT RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS...
 - GARBAGE DISPOSALS ARE NOT ALLOWED.
 - D.E.M. REQUIRES THE REMOVAL OF ALL TREES AND BRUSH WITHIN 10 FEET OF THE PROPOSED LEACH FIELD.
 - NO VEHICULAR TRAFFIC IS PERMITTED OVER THE PROPOSED LEACH FIELD.
 - NO DRAINS, INCLUDING FOUNDATION DRAINS, SHALL BE WITHIN 25' OF THE PROPOSED LEACH FIELD, UNLESS, SHOWN THERE ARE NO KNOWN DRAINS WITHIN 200' OF THE PROPOSED LEACH FIELD.
 - THERE ARE NO KNOWN PRIVATE WELLS WITHIN 100' OF PROPERTY LINE OR WELLS WITHIN 200' OF LEACHFIELD UNLESS SHOWN.
 - THERE ARE NO KNOWN PUBLIC WELLS WITHIN 500' OF LEACHFIELD UNLESS SHOWN.
 - THERE ARE NO KNOWN OWTS WITHIN 100' OF PROPERTY LINE UNLESS SHOWN.
 - THE CONTRACTOR SHALL PROVIDE A UNIT PRICE COST FOR LEDGE AND/OR BOULDER REMOVAL. UNIT PRICE COST WILL USE CUBIC YARD MEASURE. LEDGE AND/OR BOULDERS LESS THAN 1 CUBIC YARD BASED ON AVERAGE DIMENSIONS WILL NOT BE CONSIDERED PAYABLE ROCK. UNIT PRICE SHALL BE GIVEN FOR OFF SITE DISPOSAL. COST OF REPLACEMENT MATERIAL SHALL BE INCLUDED IF ADDITIONAL FILL MATERIAL IS REQUIRED. ANY MEASURING OF LEDGE OR BOULDERS OVER ONE CUBIC YARD SHALL BE WITNESSED BY A REPRESENTATIVE OF FRISELLA-BALCH AND ASSOCIATES.

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



SCHEDULE OF INVERTS

INVERT No.	LOCATION OF INVERT	INVERT ELEV.
1	BUILDING SEWER	91.9'
2	SEPTIC TANK - IN	91.73'
3	RSV	92.98'
4	PUMP CHAMBER - IN	92.94'
5	PUMP CHAMBER - OUT	92.38'
6	BSF LATERAL	94.23'
7	TOP OF BSF	94.65'



BOTTOMLESS SAND FILTER DESIGN:

GIVEN:

SOIL CATEGORY: 1
LOADING RATE: 2.3 GAL/SF/DAY

STRUCTURE: 2 BEDROOMS EXISTING

DESIGN FLOW: 115 GAL/DAY/BEDROOM

TOTAL DAILY FLOW:
2 BEDROOMS x 115 GPD = 230 GPD
230 GPD / 2.3 GAL/SF/DAY = 100 SF REQ'D

FILTER PROVIDED:
7.5' LONG x 20' WIDE = 150 SF PROVIDED

REFERENCES:

- Plan called "Administrative Subdivision in the Town of South Kingstown, Rhode Island", Prepared by Steven M. Finch P.L.S., Dated December 2014
- Plan called "Plat of Land at Wordens Pond in the Town of South Kingstown, R.I.", Prepared by Leon L. Holland, Surveyor, Dated December 24th, 1935

STREET INDEX:

This plan, if recorded in the land evidence records of the local municipality shall be indexed under the following streets:

- WORDENS POND

CERTIFICATION:

This survey has been conducted on December 12, 2019 and January 15, 2020 and the plan has been prepared pursuant to 435-RICR-00-01-19 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS on November 25, 2015, as follows:

RIDEM VARIANCES

Type of Boundary Survey:	REQD	PRVD
LEACHFIELD TO PROPERTY LINE (RIDEM OWTS RULE 6.23(B))	10LF	5LF
AX-20 TO PROPERTY LINE (RIDEM OWTS RULE 6.23(B))	10LF	5LF
OWTS TO WELL (RIDEM OWTS RULE 6.19(B))	100LF	83.9LF
OWTS TO WETLANDS (6.23(C))	50LF	17.1LF
TREE CLEARING (RIDEM OWTS RULE 6.23(B))	10LF	5LF

Type of Boundary Survey:
Limited Content Boundary Survey

Measurement Specification:
I

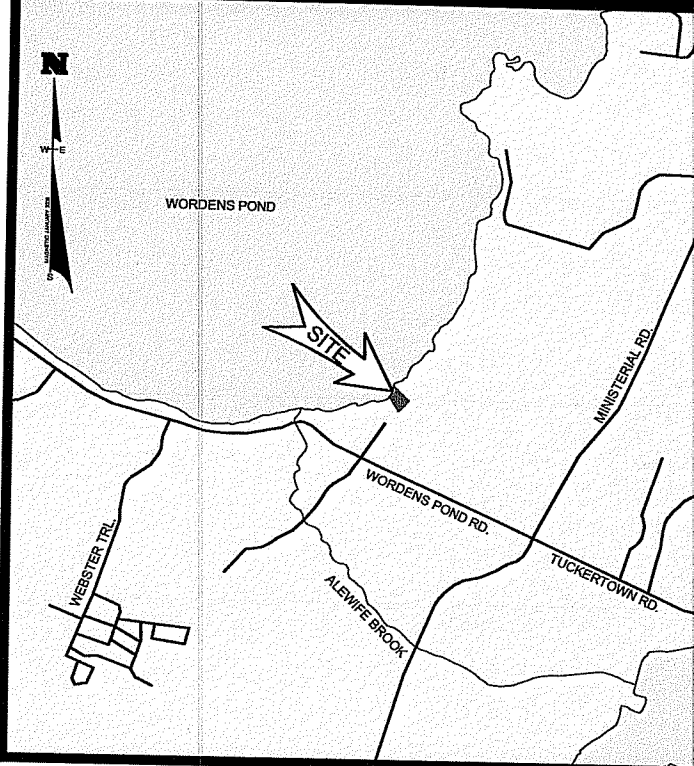
Topographic Standard:
T-2

Vertical Control Standard:
V-3

The purpose for the conduct of the survey and the preparation of the plan is as follows:
This plan is intended for the design and permitting of an Onsite Wastewater Treatment System for the subject parcel shown hereon.

BY: *Jeffrey K. Balch* DATE: 12/16/2021

JEFFREY K. BALCH, RI PROFESSIONAL LAND SURVEYOR #1839
CERTIFICATE OF AUTHORIZATION #A535.



LOCATION PLAN
SCALE: 1" = 2000'

SITE INFORMATION

LOT: 54
ASSESSOR'S MAP: 61
LOT AREA: 22,300 SF ±
ZONING DISTRICT: R-80

TOWN REQUIREMENTS

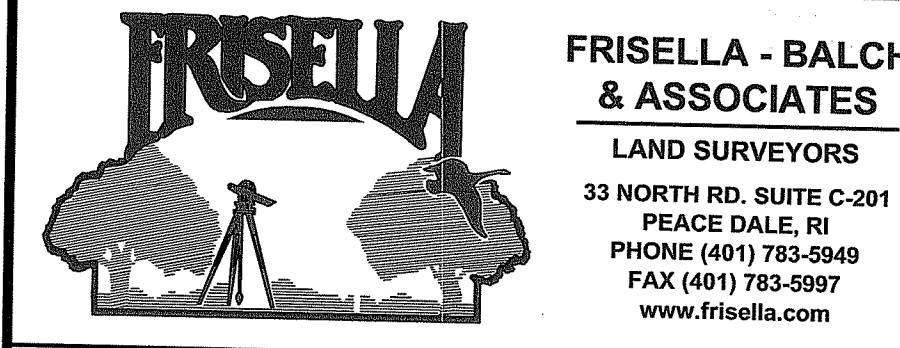
TOWN REQUIREMENTS	REQUIRED
LOT AREA	80,000 SF
LOT WIDTH	200 FEET
FRONT SETBACK	40 FEET*
SIDE SETBACK	34 FEET*
REAR SETBACK	40 FEET*
SITE COVERAGE:	20%
BUILDING HEIGHT:	35 FEET
*NONCONFORMING LOT OF RECORD	
TOWN REQUIREMENTS ACCESSORY	
FRONT SETBACK	58 FEET*
REAR SETBACK	20 FEET*
SIDE SETBACK	15 FEET*
*NONCONFORMING LOT OF RECORD	

EXISTING

EXISTING HOUSE: 672 SF
EXISTING SHED: 45 SF
TOTAL EXISTING COVERAGE AREA: 717 SF
EXISTING SITE COVERAGE: 3.2%

PROPOSED

EXISTING HOUSE: 672 SF
EXISTING SHED: 45 SF
PROPOSED SHED: 42
PROPOSED GARAGE AND SHED: 1070
TOTAL PROPOSED COVERAGE AREA: 1829 SF
TOTAL SITE COVERAGE: 8.2%
* AS PER BUILDING OFFICIAL



NO.	DATE	DESCRIPTION	BY

PROPOSED BUILDING AND DRAINAGE SITE PLAN

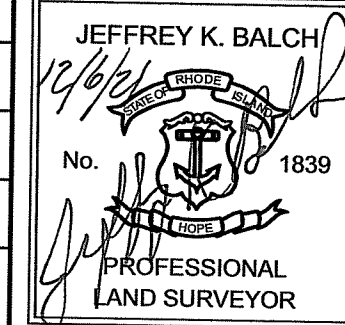
LOCATED ON:
LOT 54 OF ASSESSORS MAP 61

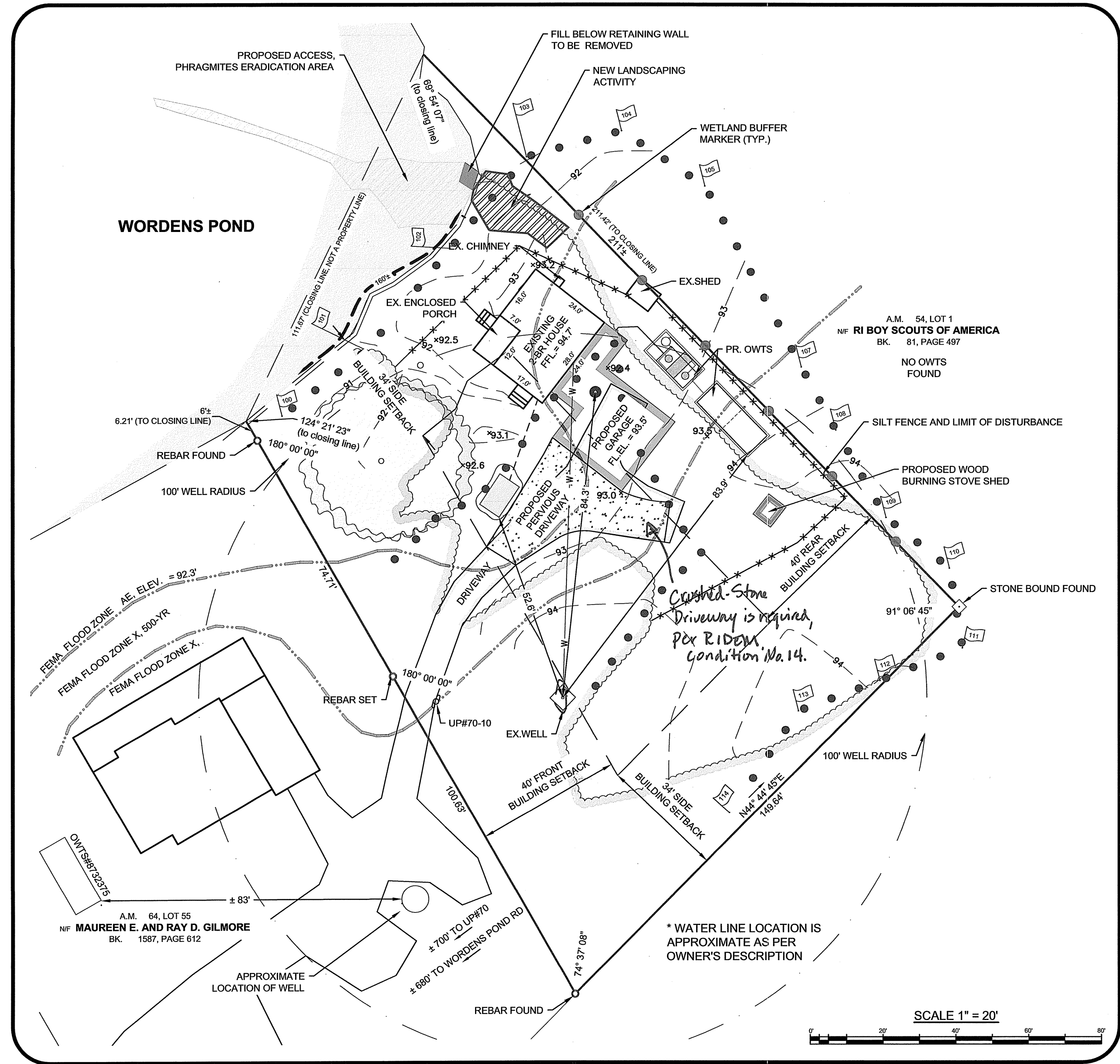
OWNED BY:
Marianna Zotos and Gregory Raso

ADDRESS:
191B Wordens Pond Rd.
IN THE TOWN OF SOUTH KINGSTOWN, RI

DECEMBER 3, 2021
DESIGNED BY:
JEFFREY K. BALCH, P.L.S.

DRAWN BY: IVB
CHECKED BY: JKB
DRAWING NO.:
SHEET 1 OF 1





RAIN GARDEN CALCULATION:

- PROPOSED IMPERVIOUS AREA (ROOFS) = 768 SF
- REQ. AREA FOR 8" DEEP RAIN GARDEN FOR SANDY SOILS = 80 SF/1,000 SF OF IMPERVIOUS AREA
- 768 SF ÷ 1,000 SF x 80 SF = 61.44 SF OF RAIN GARDEN AREA REQUIRED

• PROPOSED RAIN GARDEN = 10' X 6.4' = 64 SF OF RAIN GARDEN PROPOSED

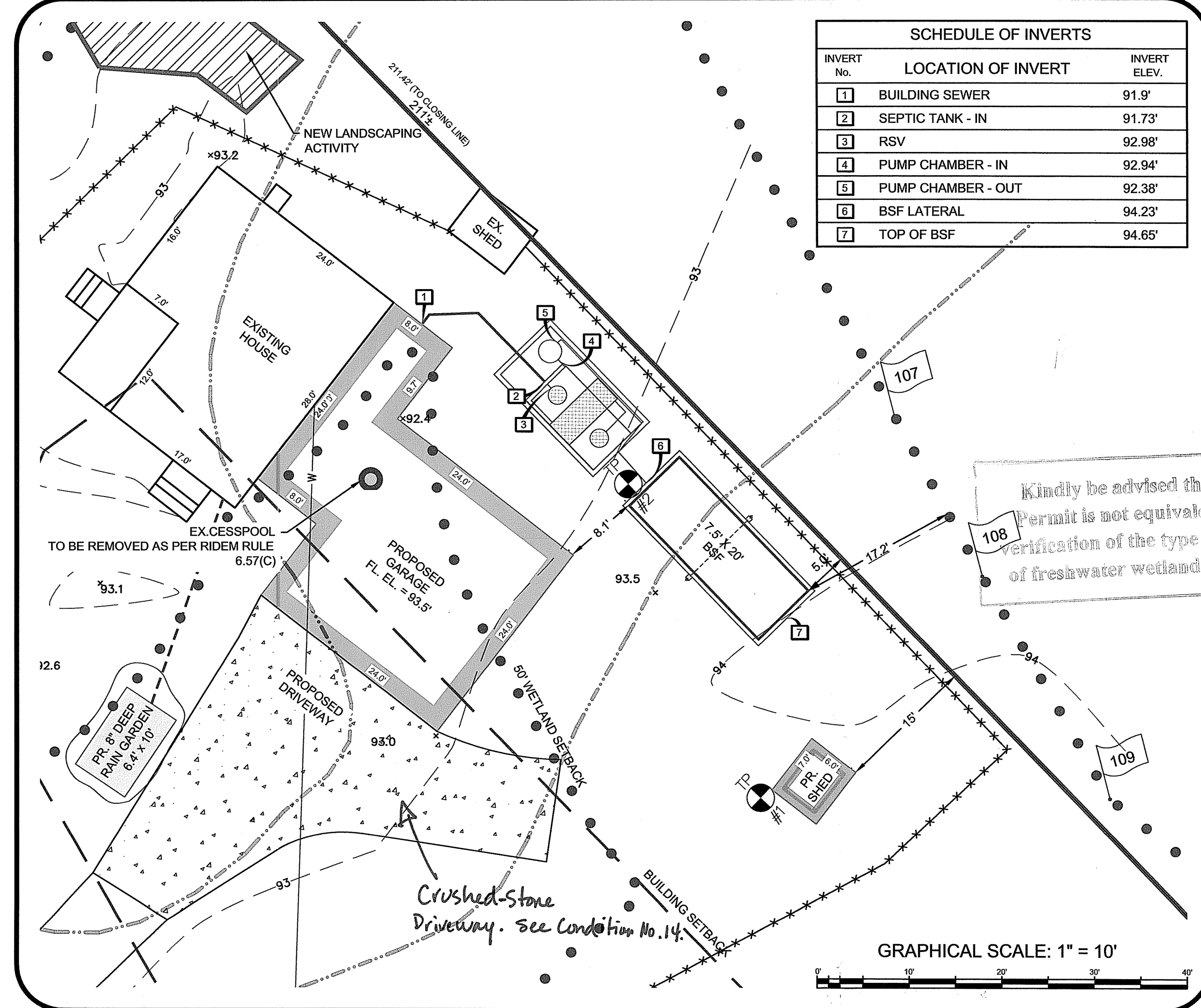
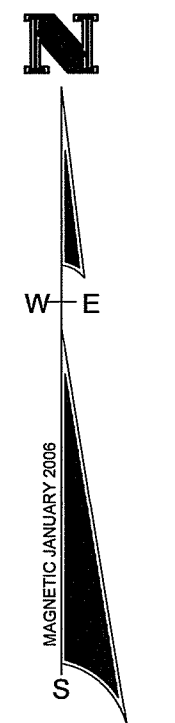
FEMA DESIGNATIONS:

THE SUBJECT PROPERTY DEPICTED HEREON APPEARS TO BE WITHIN ZONES AE WITH A BFE OF 92.3' AND ZONE X (SHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0187J, DATED APRIL 3, 2020.

LEGEND	
	PROPERTY LINE
	TEST PIT
	BOUND
	IRON PIN
	TREE/BRUSH LINE
	WATER LINE
	WATER VALVE
	SILT FENCE

GENERAL NOTES:

- ACCORDING TO THE TOWN OF SOUTH KINGSTOWN, THE SITE IS LOCATED IN SPECIAL FLOOD HAZARD OVERLAY
- ACCORDING TO THE RIDEM ENVIRONMENTAL RESOURCE MAP, THE SITE IS LOCATED IN THE DEM FRESHWATER WETLANDS OVERLAY DISTRICT.
- ACCORDING TO THE RIDEM ENVIRONMENTAL RESOURCE MAP, THE SITE IS LOCATED IN GROUNDWATER CWHFA OVERLAY DISTRICT.
- THIS SITE IS NOT LOCATED WITHIN A CRITICAL RESOURCE AREA.
- THIS SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA
- THE CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION AREA IN A SAFE MANNER AND ALL CONSTRUCTION ACTIVITY ON THE SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- SYSTEM SHALL BE INSTALLED AS PER THE CURRENT RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS...
- GARBAGE DISPOSALS ARE NOT ALLOWED.
- D.E.M. REQUIRES THE REMOVAL OF ALL TREES AND BRUSH WITHIN 10 FEET OF THE PROPOSED LEACH FIELD
- NO VEHICULAR TRAFFIC IS PERMITTED OVER THE PROPOSED LEACH FIELD
- NO DRAINS, INCLUDING FOUNDATION DRAINS, SHALL BE WITHIN 25' OF THE PROPOSED LEACH FIELD. UNLESS, SHOWN THERE ARE NO KNOWN DRAINS WITHIN 200' OF THE PROPOSED LEACH FIELD.
- THERE ARE NO KNOWN PRIVATE WELLS WITHIN 100' OF PROPERTY LINE OR WELLS WITHIN 200' OF LEACHFIELD UNLESS SHOWN.
- THERE ARE NO KNOWN PUBLIC WELLS WITHIN 500' OF LEACHFIELD UNLESS SHOWN.
- THERE ARE NO KNOWN OWTS WITHIN 100' OF PROPERTY LINE UNLESS SHOWN.
- THE CONTRACTOR SHALL PROVIDE A UNIT PRICE COST FOR LEDGE AND/OR BOULDER REMOVAL. UNIT PRICE COST WILL USE CUBIC YARD MEASURE. LEDGE AND/OR BOULDERS LESS THAN 1 CUBIC YARD BASED ON AVERAGE DIMENSIONS WILL NOT BE CONSIDERED PAYABLE ROCK. UNIT PRICE SHALL BE GIVEN FOR OFF SITE DISPOSAL. COST OF REPLACEMENT MATERIAL SHALL BE INCLUDED IF ADDITIONAL FILL MATERIAL IS REQUIRED. ANY MEASURING OF LEDGE OR BOULDERS OVER ONE CUBIC YARD SHALL BE WITNESSED BY A REPRESENTATIVE OF FRISELLA-BALCH AND ASSOCIATES.



SCHEDULE OF INVERTS		
INVERT No.	LOCATION OF INVERT	INVERT ELEV.
1	BUILDING SEWER	91.9'
2	SEPTIC TANK - IN	91.73'
3	RSV	92.98'
4	PUMP CHAMBER - IN	92.94'
5	PUMP CHAMBER - OUT	92.38'
6	BSF LATERAL	94.23'
7	TOP OF BSF	94.65'

SOIL STRATA "1"		SOIL STRATA "2"	
GROUND ELEVATION = 93.90		GROUND ELEVATION = 93.10	
BY DAVID KALEN: 7-1-2020		BY DAVID KALEN: 7-1-2020	
5'	A Very Friable Loamy Sand, 10YR5 CAT. 1	5'	A Very Friable Loamy Sand, 10YR5 CAT. 1
15'	E Loose Sand, 2.5YR5 CAT. 1	15'	E Loose Sand, 2.5YR5 CAT. 1
15'	Bs Loose Sand, 7.5YR5 CAT. 1	15'	Bs Loose Sand, 7.5YR5 CAT. 1
60'	C Loose Sand, CAT. 1	60'	C Loose Sand, CAT. 1
96'	Cs Loose Sand, 2.5Y5 CAT. 1	96'	Cs Loose Sand, 2.5Y5 CAT. 1

BOTTOMLESS SAND FILTER DESIGN:

GIVEN:
 SOIL CATEGORY: 1
 LOADING RATE: 2.3 GAL/SF/DAY
 STRUCTURE: 2 BEDROOMS EXISTING
 DESIGN FLOW: 115 GAL/DAY/BEDROOM
 TOTAL DAILY FLOW:
 2 BEDROOMS x 115 GPD = 230 GPD
 230 GPD / 2.3 GAL/SF/DAY = 100 SF REQ'D
 FILTER PROVIDED:
 7.5' LONG x 20' WIDE = 150 SF PROVIDED

REFERENCES:

- Plan called "Administrative Subdivision in the Town of South Kingstown, Rhode Island", Prepared by Steven M. Pinch P.L.S., Dated December 2014
- Plan called "Flat of Land at Wordens Pond in the Town South Kingstown, R.I.", Prepared by Leon L. Holland, Surveyor, Dated December 24th, 1935

STREET INDEX:

This plan, if recorded in the land evidence records of the local municipality shall be indexed under the following streets:
 • WORDENS POND

CERTIFICATION:

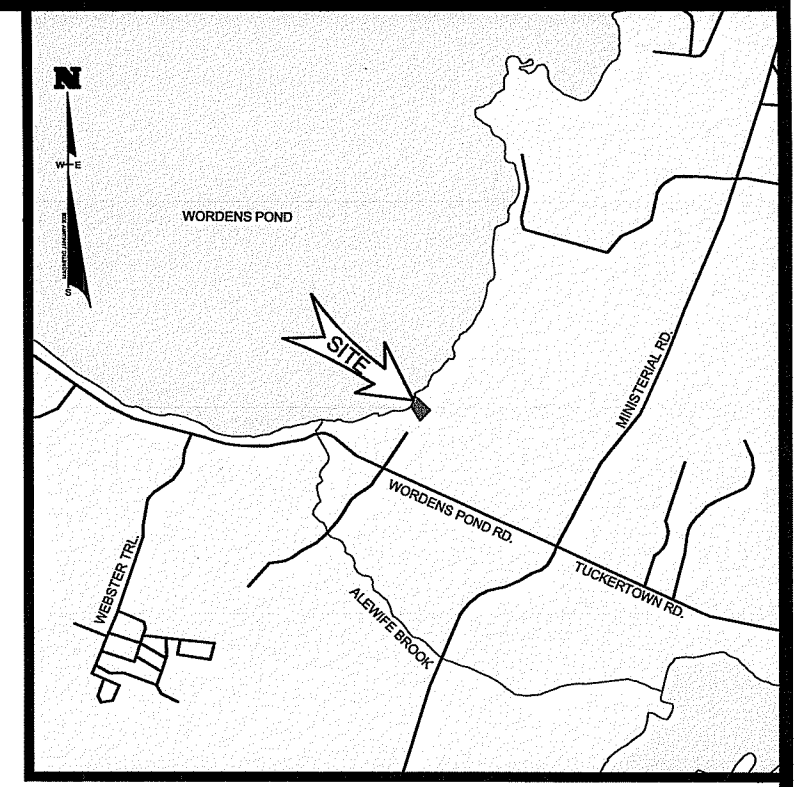
This survey has been conducted on December 12, 2019 and January 15, 2020 and the plan has been prepared pursuant to 435-RICR-00-01.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS on November 25, 2015, as follows:

RIDEM VARIANCES		
	REQD	PRVD
LEACHFIELD TO PROPERTY LINE (RIDEM OWTS RULE 6.23(B))	10LF	6LF
AX-20 TO PROPERTY LINE (RIDEM OWTS RULE 6.23(B))	10LF	6LF
OWTS TO WELLS (RIDEM OWTS RULE 6.19(B))	100LF	83.9LF
OWTS TO WETLANDS (6.23(C))	50LF	17.1LF
TREE CLEARING (RIDEM OWTS RULE 6.23(B))	10LF	6LF

Type of Boundary Survey: Limited Content Boundary Survey
 Topographic Standard: T-2
 Vertical Control Standard: V-3

The purpose for the conduct of the survey and the preparation of the plan is as follows: This plan is intended for the design and permitting of an Onsite Wastewater Treatment System for the subject parcel shown hereon.

BY: *Jeffrey K. Balch* DATE: 3/10/2021
 JEFFREY K. BALCH, RI PROFESSIONAL LAND SURVEYOR #1839
 CERTIFICATE OF AUTHORIZATION #A535.



LOCATION PLAN
SCALE: 1" = 2000'

SITE INFORMATION

LOT:	54
ASSESSOR'S MAP:	61
LOT AREA:	22,300 SF ±
ZONING DISTRICT:	R-80
TOWN REQUIREMENTS	REQUIRED
LOT AREA	80,000 SF
LOT WIDTH	200 FEET
FRONT SETBACK:	40 FEET*
SIDE SETBACK:	34 FEET*
REAR SETBACK:	40 FEET*
SITE COVERAGE:	20%
BUILDING HEIGHT:	35 FEET
*NONCONFORMING LOT OF RECORD	
TOWN REQUIREMENTS ACCESSORY	
FRONT SETBACK	58 FEET*
REAR SETBACK	20 FEET*
SIDE SETBACK	15 FEET*
*NONCONFORMING LOT OF RECORD	
EXISTING	
EXISTING HOUSE	672 SF
EXISTING SHED	45 SF
TOTAL EXISTING COVERAGE AREA	717 SF
EXISTING SITE COVERAGE	3.2%
PROPOSED	
EXISTING HOUSE	672 SF
EXISTING SHED	45 SF
PROPOSED SHED	42
PROPOSED GARAGE	768
TOTAL PROPOSED COVERAGE AREA	1527 SF
TOTAL SITE COVERAGE	6.8%
* AS PER BUILDING OFFICIAL	

FRISELLA - BALCH & ASSOCIATES
 LAND SURVEYORS
 33 NORTH RD, SUITE C-201
 PEACE DALE, RI
 PHONE (401) 783-5949
 FAX (401) 783-5997
 www.frisella.com

NO.	DATE	DESCRIPTION	BY
1	3-10-21	REV. AS PER BIOLOGIST REVIEW COMMENTS	IB

PROPOSED OWTS and DRAINAGE SITE PLAN

LOCATED ON:
 LOT 54 OF ASSESSORS MAP 61

OWNED BY:
Marianna Zotos and Gregory Raso

ADDRESS:
 191B Wordens Pond Rd.
 IN THE TOWN OF SOUTH KINGSTOWN, RI

JUNE 29, 2020
 DESIGNED BY:
 JEFFREY K. BALCH, P.L.S.

DRAWN BY:
 IVB
 CHECKED BY:
 JKB

SHEET 1 OF 3

JEFFREY K. BALCH
 No. 1839
 PROFESSIONAL LAND SURVEYOR

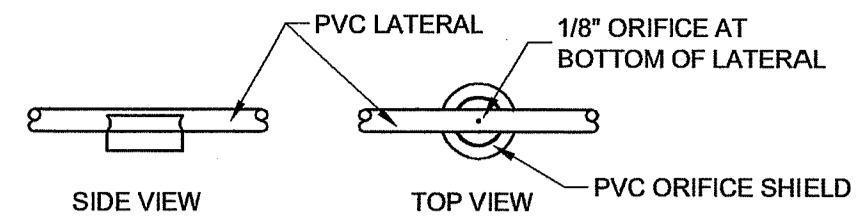
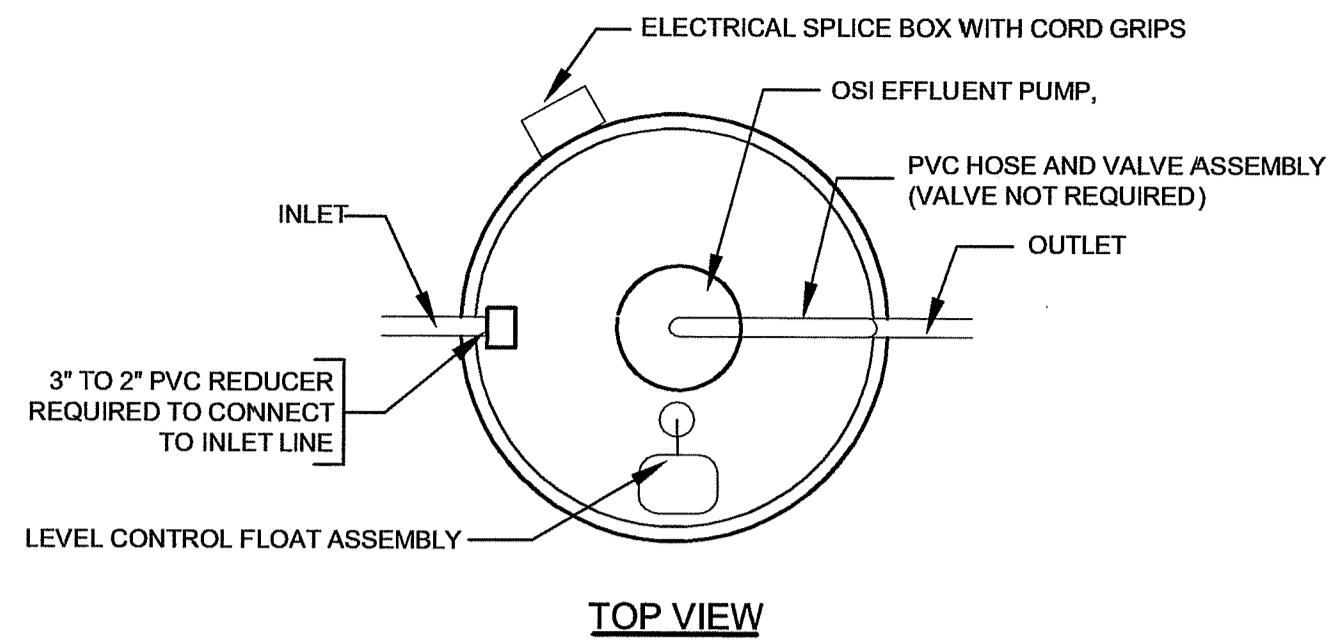
WATER-TIGHTNESS:

CONTRACTOR SHALL TEST THE SEPTIC TANK(S) FOR WATER TIGHTNESS (IN THE PRESENCE OF FRISELLA-BALCH AND ASSOCIATES) PRIOR TO BACK FILLING THE EXCAVATION. TESTING MAY INCLUDE FILLING THE TANK FULL OF WATER AND LET STAND FOR 24 HOURS, (SIDE OF TANK MUST BE EXPOSED), OR ON-SITE VACUUM TESTING, OR A CERTIFICATION OF WATER TIGHTNESS BY MANUFACTURER IS ACCEPTABLE WHEN VACUUM TESTED AS PER ASTM C 1227-05. ALL INLETS AND OUTLETS SHALL HAVE PRESS SEALS PRECASTED.

ADVANTEKX UNITS:

THE ADVANTEKX UNITS SHALL BE A MODEL AX-20 (MOD E 38) BY ORENCO SYSTEMS, INC. THE UNITS SHALL BE ORDERED WITH 2" OF INSULATION ATTACHED TO THE BOTTOM OF THE LID. THE ADVANTEKX UNIT PACKAGE COMES WITH THE PVC SPLICE BOXES, SIMPLEX BIOTUBE PUMP VALVE, PVC PUMP BASIN, FLOAT SWITCH ASSEMBLY, ORENCO PUMP (MODEL PAK), VERICOMM AXB CONTROL PANEL, RECIRCULATING SP-LITTER VALVE ASSEMBLY AND ADVANTEKX AX-20 FILTER.

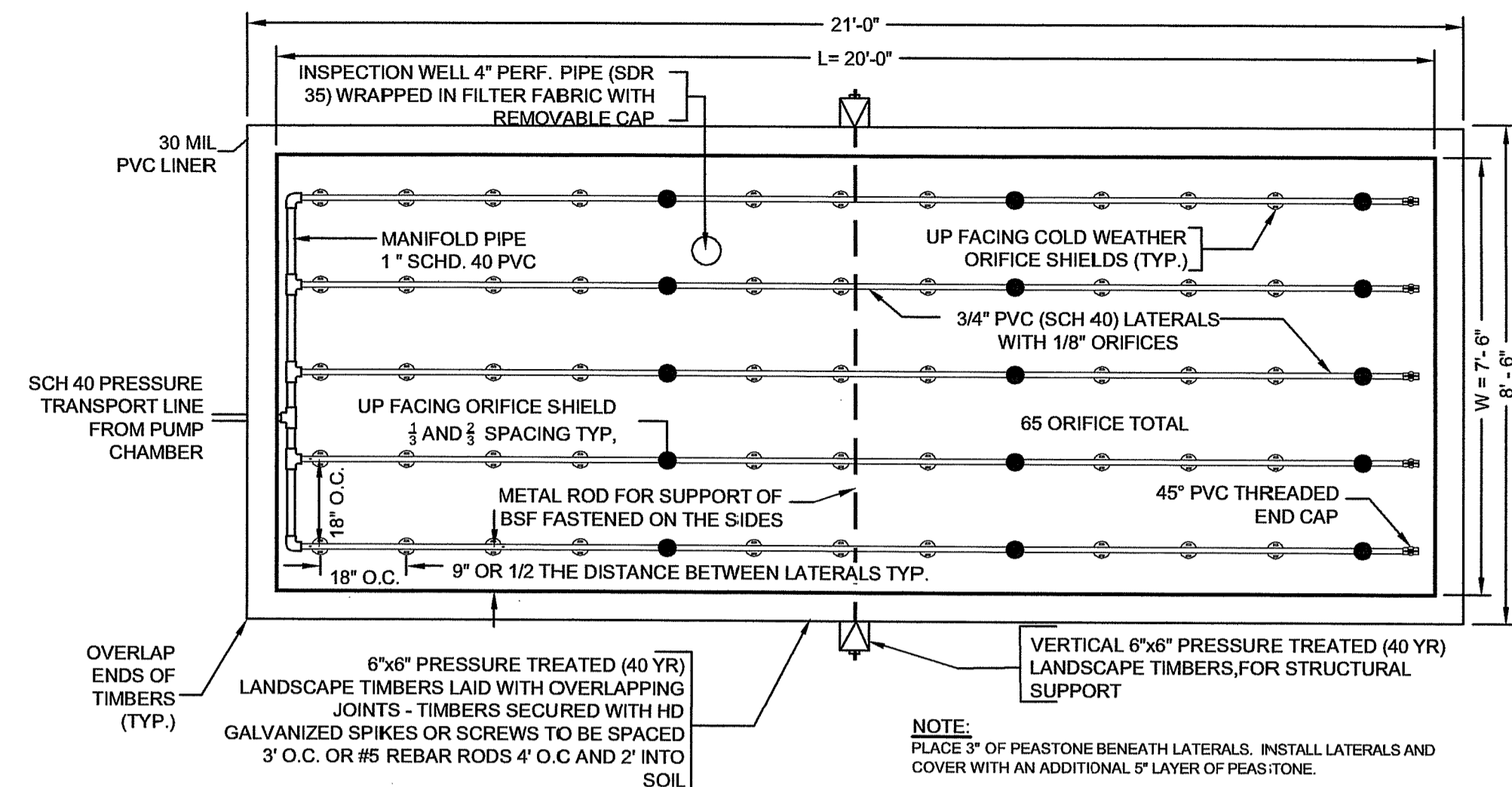
INSTALLATION SHALL FOLLOW THE LATEST "INSTALLATION GUIDE FOR ADVANTEKX AX TREATMENT SYSTEMS" PROVIDED BY ORENCO SYSTEMS, INC. TEL: 1-800-348-0843.



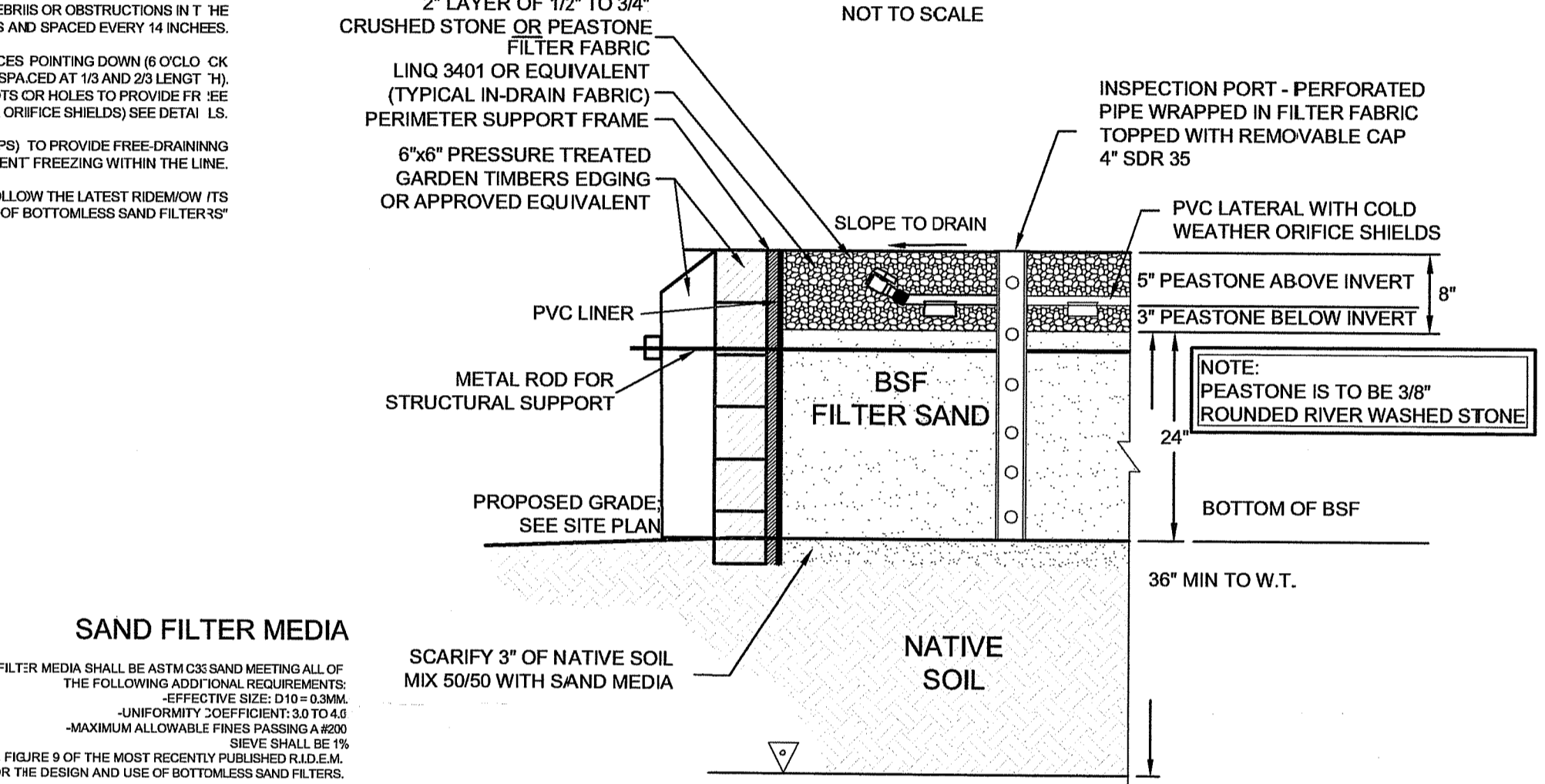
NOTE:
BSF ORIFICES SHALL BE 1/8" DIA. HOLES DRILLED IN THE DISTRIBUTION LATERALS. THESE LATERALS SHALL BE INSTALLED WITH THE ORIFICES FACING DOWN (6 O'CLOCK POSITION) COVERED BY ORIFICE SHIELDS WITH SLOTS OR HOLES TO PROVIDE FREE DRAINAGE (USUALLY REFERRED TO AS COLD WEATHER SHIELDS). TWO ORIFICES PER LATERAL (APPROXIMATELY AT 10 AND 2 O'CLOCK POSITIONS) SHALL BE FACING UP (12 O'CLOCK POSITION) AND COVERED BY ORIFICE SHIELDS TO ALLOW FOR PROPER DRAINAGE.



NOTE:
INSTALLATION OF THE BOTTOMLESS SAND FILTER SHALL FOLLOW THE LATEST PUBLISHED ITS GUIDELINES FOR THE DESIGN AND USE OF BOTTOMLESS SAND FILTERS.



TOP VIEW OF BOTTOMLESS SAND FILTER



BOTTOMLESS SAND FILTER CROSS SECTION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
APR 05 2021 FILE # 20-0246
DATED 4/5/2021
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

EROSION AND SEDIMENTATION CONTROL NOTES:

TEMPORARY AND/OR PERMANENT EROSION CONTROL DEVICES SUCH AS BAILED HAY, SILT FENCING, ETC. SHALL BE INSTALLED PRIOR TO ANY CLEARING OR EXCAVATION, HAY BALES OR SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE AND ADJOINING AREAS OF SOIL DISTURBANCE AND STOCKPILES. INSTALLATION OF ALL EROSION CONTROL DEVICES SHALL BE CONDUCTED IN ACCORDANCE TO THE FOLLOWING:

CLEARING OF EXISTING VEGETATION SHALL BE DONE IN A CONTROLLED MANNER SO AS TO AVOID EXTENSIVE AREAS OF DEFORESTED TERRAIN SUBJECT TO EROSION. AREAS SO DISTURBED SHALL BE BROUGHT TO FINAL GRADES AND STABILIZED AS SOON AS POSSIBLE.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

ALL EROSION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, ESPECIALLY AFTER EACH RAINFALL.

DUE TO CHANGING CHARACTERISTICS OF THE SITE CAUSED BY AND DURING CONSTRUCTION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE CONDITIONS WARRANT.

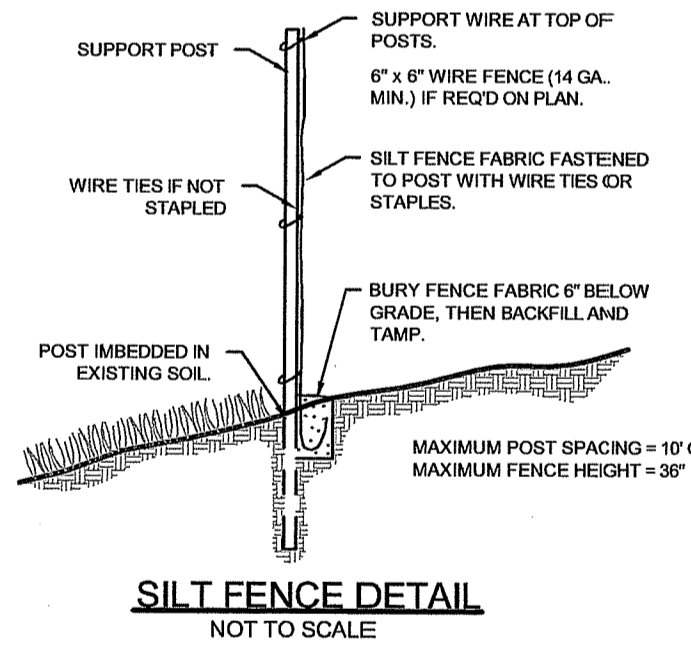
IF CONSTRUCTION IS SUSPENDED, ALL DISTURBED AREAS SHALL BE SEEDED AND ALL NECESSARY EROSION CONTROL DEVICES SHALL BE IN PLACE AND IN GOOD WORKING ORDER. IF SEEDING IS NOT POSSIBLE THEN EROSION CONTROL MATS SHALL BE PLACED OVER ALL DISTURBED SOIL.

EROSION CONTROL BLANKETS (MATS) SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. EROSION CONTROL BLANKETS (MATS) SHALL BE MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUIVALENT AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

ALL EROSION CONTROL METHODS, MATERIALS AND MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE "ROCKE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".

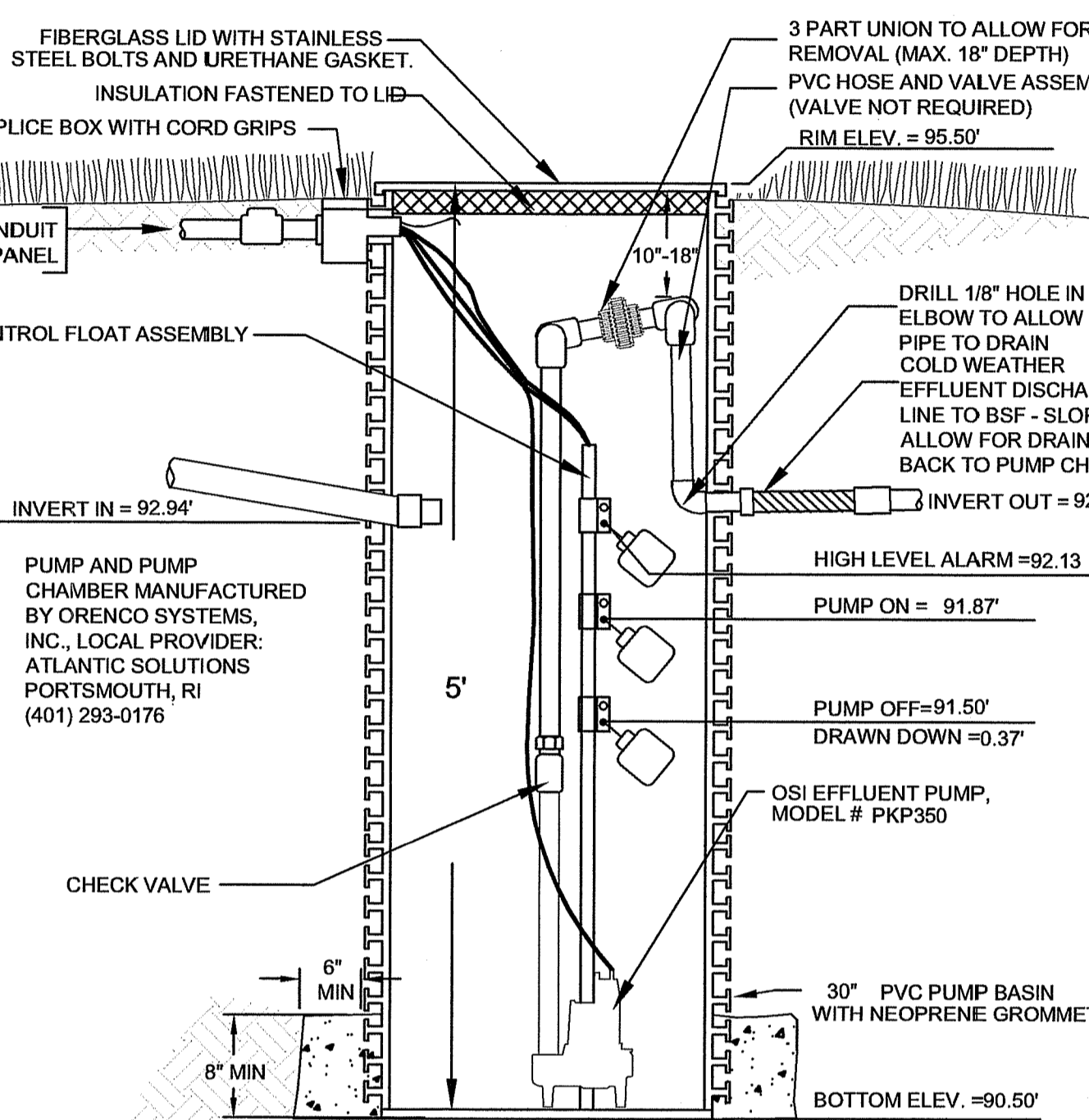
ALL AREAS WHICH ARE DISTURBED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST A MINIMUM DEPTH OF GOOD QUALITY LOAM AND ALL SOIL AMENDMENTS DEEMED NECESSARY. THE AREA SHALL BE SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS URJ22 OR APPROVED EQUIVALENT.

THE CONTRACTOR SHALL PROVIDE FOR ALL SEEDING AREAS TO BE WATERED AND IN GOOD CONDITION UNTIL A GOOD HEALTHY AND UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA.



SILT FENCE DETAIL

NOT TO SCALE



EXTERNAL PUMP BASIN DETAIL

NO SCALE

ELECTRICAL:

ALL WIRING REQUIRED FOR PUMPS, ALARMS ETC. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND MANUFACTURER'S INSTRUCTIONS. CONDUITS ENTERING THE PUMP CHAMBERS SHALL BE PROPERLY INSTALLED WITH CONDUIT SEALS TO PREVENT SEWAGE GASES FROM LEAVING THE BASIN. CONDUITS ENTERING THE PUMP CHAMBER SHALL BE PROPERLY INSTALLED WITH CONDUIT SEALS TO PREVENT WATER FROM ACCESSING THE CHAMBER.

EXTERNAL PUMP CHAMBER:

THE PUMP CHAMBER SHALL HOUSE AN EFFLUENT PUMP MANUFACTURED BY ORENCO SYSTEMS, INC. MODEL PKP350 (OR APPROVED EQUIVALENT) AND SHALL BE INSTALLED ACCORDING TO DETAILS PROVIDED AND TO MANUFACTURER'S SPECIFICATIONS. SEE TYPICAL PUMP CHAMBER DETAIL.

CONTRACTOR SHALL PROVIDE THE FOLLOWING TO FRISELLA-BALCH & ASSOCIATES:

- PRODUCT SPECIFICATION SHEETS FOR PRODUCTS USED IF DIFFERENT THAN SPECIFIED ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM FRISELLA-BALCH FOR ANY ITEM THAT IS DIFFERENT THAN SHOWN ON APPROVED DESIGN PLANS. THIS WOULD INCLUDE DIFFERENT MANUFACTURERS THAN SPECIFIED BY FRISELLA-BALCH & ASSOCIATES.
- COPY OF DELIVERY SLIPS FOR ALL MATERIALS DELIVERED TO SITE.

MAINTENANCE:

ALL COMPONENTS OF THE SYSTEM SHALL BE INSPECTED AFTER THE FIRST 6 MONTHS OF OPERATION, AND AFTER ONE YEAR OF OPERATION. THE SYSTEM SHALL BE INSPECTED TWICE A YEAR THEREAFTER UNLESS ORIGINAL INSPECTIONS DETERMINE MORE FREQUENT INSPECTIONS ARE REQUIRED. THE OWNER SHOULD BE AWARE THAT THIS ON-SITE WASTEWATER TREATMENT SYSTEM SHALL HAVE A PERMANENT ROUTINE MAINTENANCE AGREEMENT THAT SHALL BE RECORDED IN THE LAND EVIDENCE RECORDS OF THE TOWN.

SCHEDULE OF INSPECTIONS:

- 3-BUSINESS DAYS NOTICE SHALL BE GIVEN TO FRISELLA-BALCH & ASSOCIATES PRIOR TO THE START OF CONSTRUCTION.
- ALL INSPECTIONS SHALL REQUIRE AT LEAST 1 BUSINESS DAYS NOTICE TO FRISELLA-BALCH & ASSOCIATES.
- THE FOLLOWING INSPECTIONS ARE REQUIRED BY FRISELLA-BALCH & ASSOCIATES:
 - PRE-CONSTRUCTION MEETING WITH FRISELLA-BALCH & ASSOCIATES AT THIS MEETING THE START OF CONSTRUCTION WILL BE CALLED IN TO BEGIN.
 - PRIOR TO COVERING ANY COMPONENT OR PIPING.
 - FINAL GRADING AND 10' FILL PERIMETERS.
- CHECKING OF PUMP(S), CONTROL PANEL AND FLOAT ELEVATIONS (WHERE APPROPRIATE) SUPPLIER OF ORENCO PRODUCTS TO PERFORM THE START-UP IN THE PRESENCE OF A FRISELLA-BALCH & ASSOCIATES REPRESENTATIVE.

CONTROL PANEL:

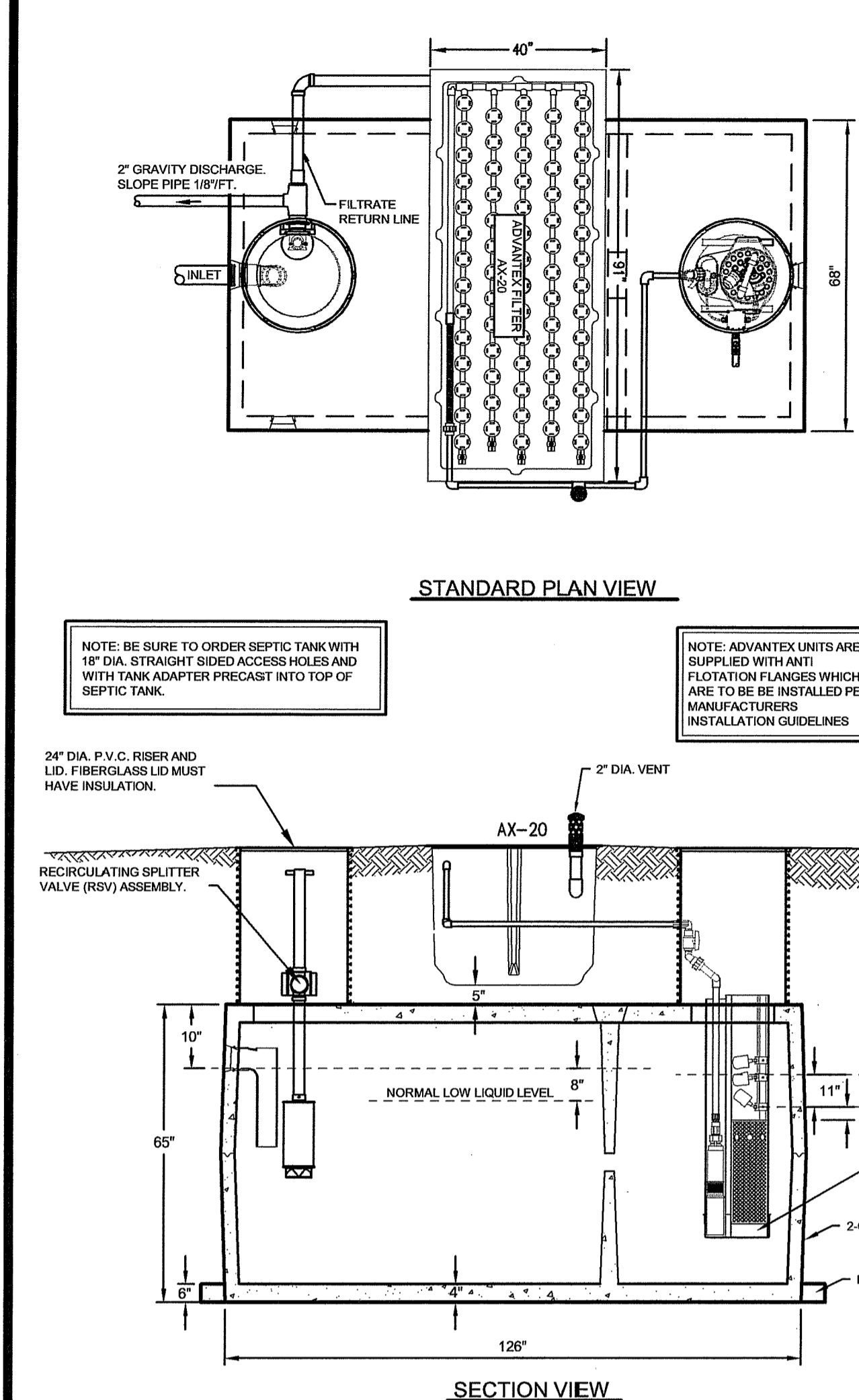
THE CONTROL PANEL SHALL BE MANUFACTURED BY ORENCO SYSTEMS, INC. MODEL VERICOMM AXB. THE PROGRAMMABLE TIMER FOR THE RECIRCULATING TANK PUMP SHALL BE SET TO THE DEFAULT SETTINGS AS SUPPLIED BY THE MANUFACTURER.

THE EXTERNAL PUMP CHAMBER SHALL BE DEMAND Dosed AND HAVE THE FLOATS SET AS SHOWN IN THE PUMP CHAMBER DETAIL.

THE HIGH AND/OR LOW LEVEL ALARMS SHALL BE IN THE CONTROL PANEL.

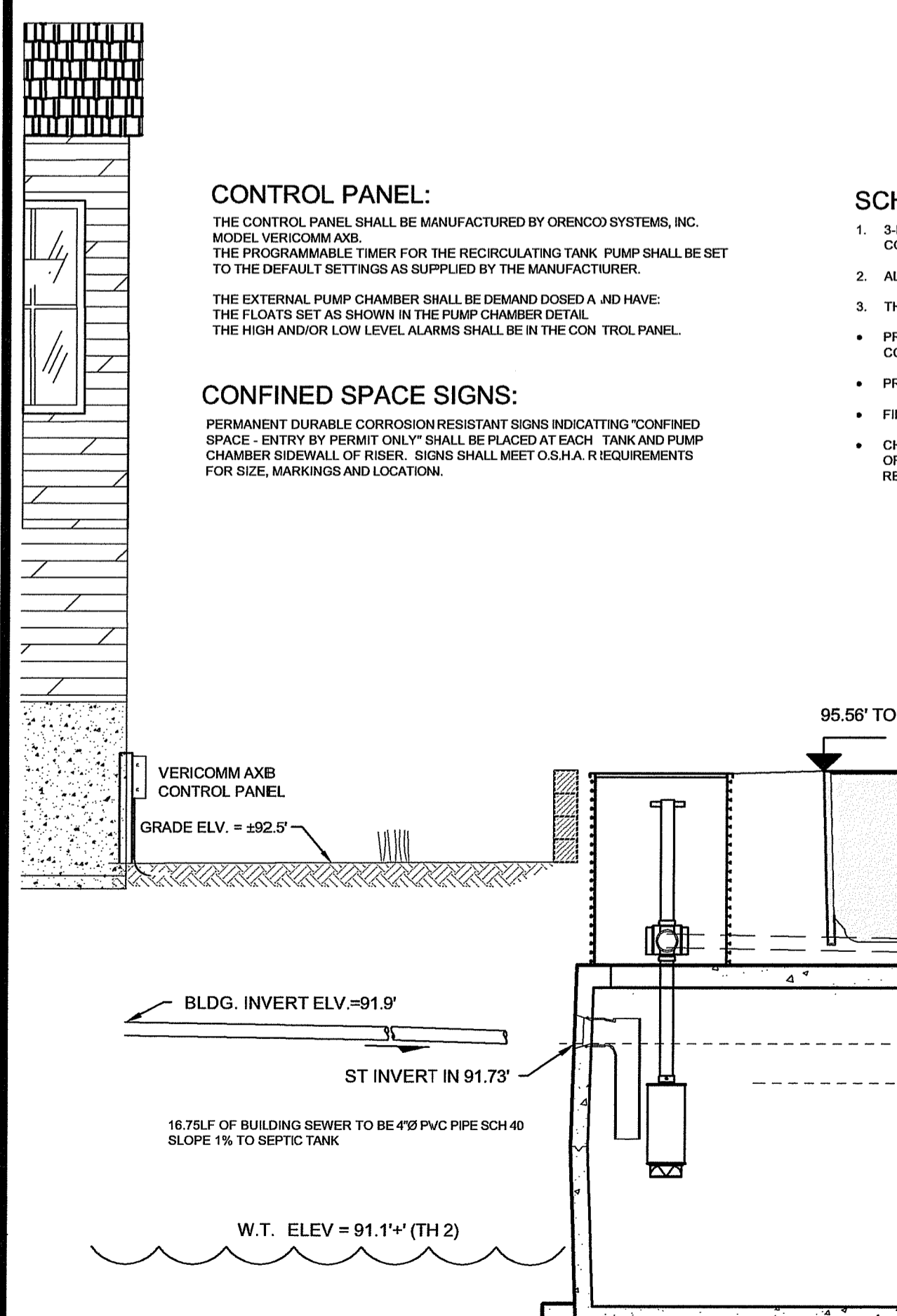
CONFINED SPACE SIGNS:

PERMANENT DURABLE CORROSION RESISTANT SIGNS INDICATING "CONFINED SPACE - ENTRY BY PERMIT ONLY" SHALL BE PLACED AT EACH TANK AND PUMP CHAMBER SIDEWALL OF RISER. SIGNS SHALL MEET OSHA REQUIREMENTS FOR SIZE, MARKINGS AND LOCATION.



TYPICAL ADVANTEKX AX-20 INSTALLATION ON 1500 GALLON 2-COMPARTMENT SEPTIC TANK

NO SCALE



SECTION VIEW

NO SCALE

FRISELLA - BALCH & ASSOCIATES
LAND SURVEYORS
33 NORTH RD, SUITE C-201
PEACE DALE, RI
PHONE (401) 783-5949
FAX (401) 783-5997
www.frisella.com

NO.	DATE	DESCRIPTION	BY

PROPOSED OWTS DETAIL SHEET

LOCATED ON:
LOT 54 OF ASSESSORS MAP 61

OWNED BY:
Marianna Zotos and Gregory Raso
MAR 12 2021

ADDRESS:
191B Wordens Pond Rd.

IN THE TOWN OF SOUTH KINGSTOWN, RI

JUNE 29, 2020
DESIGNED BY:
JEFFREY K. BALCH, P.L.S.

N.T.S.
DRAWN BY:
IVB
CHECKED BY:
JKB

DRAWING NO.
SHEET 2 OF 3

JEFFREY K. BALCH
No. 31021
1839
PROFESSIONAL LAND SURVEYOR

