

GENERAL NOTES:

1. WETLANDS SHOWN HEREIN WERE DELINEATED BY MASON & ASSOCIATES, INC. 771 PLAINFIELD PIKE, NORTH SCITUATE, RI ON MARCH 25, 2016.
2. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, SILVICULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.
3. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL UNLESS OTHERWISE SHOWN.
4. THE CONTOURS SHOWN HEREIN ARE BASED UPON ASSUMED DATUM.
5. THERE ARE NO KNOWN HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.
6. SOIL EVALUATION TEST HOLES DUG ON MAY 4, 2016. APPLICATION NUMBER 1613-0409.
7. WETLAND VERIFICATION RIDEM#18-0039.

REFERENCES:

1. PLAN ENTITLED "SUBDIVISION OF ASSESSORS PLAT 12 LOT 71 FOR MAJORIE M. LAWTON SNAKE HILL ROAD GLOCESTER RHODE ISLAND SCALE 1"=100' DATED FEBRUARY 16, 1988 REVISED JANUARY 9, 1990" BY ROBERT OLIVER JR.
2. RHODE ISLAND STATE HIGHWAY PLAT NUMBER 1316.

LEGEND
NOT TO SCALE

	BOUNDARY
	BOUNDARY PROPOSED
	ABUTTER
	MAJOR CONTOUR
	MINOR CONTOUR
	STONEWALL
	TREELINE
	WETLANDS EDGE
	50' PERIMETER WETLAND
	100' RIVERBANK WETLAND
	STREAM
	BUILDING ENVELOPE
	DRAINAGE LINE
	WATER LINE
	OVERHEAD ELECTRIC WIRE
	SOIL EVALUATION HOLE
	IRON PIN
	BOUND
	DRILL HOLE
	WELL
	UTILITY POLE
	SOIL TYPE LIMITS
	LIMITS OF DISTURBANCE & EROSION CONTROL

ZONING CRITERIA

ZONING DISTRICT	A3
MINIMUM LOT AREA	3 ACRES
MINIMUM LOT FRONTAGE	300'
MINIMUM FRONT YARD SETBACK	75'
MINIMUM SIDE YARD SETBACK	50'
MINIMUM REAR YARD SETBACK	100'
MAXIMUM BUILDING COVERAGE	4%
MAXIMUM BUILDING HEIGHT	35'

NORBERT A. THERIEN
No. 1739
PROFESSIONAL LAND SURVEYOR

NATIONAL Surveyors-Developers Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

PRINCIPE COMPANY, INC. ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401-265-1090
PRINCIPEENGINEERING@GMAIL.COM

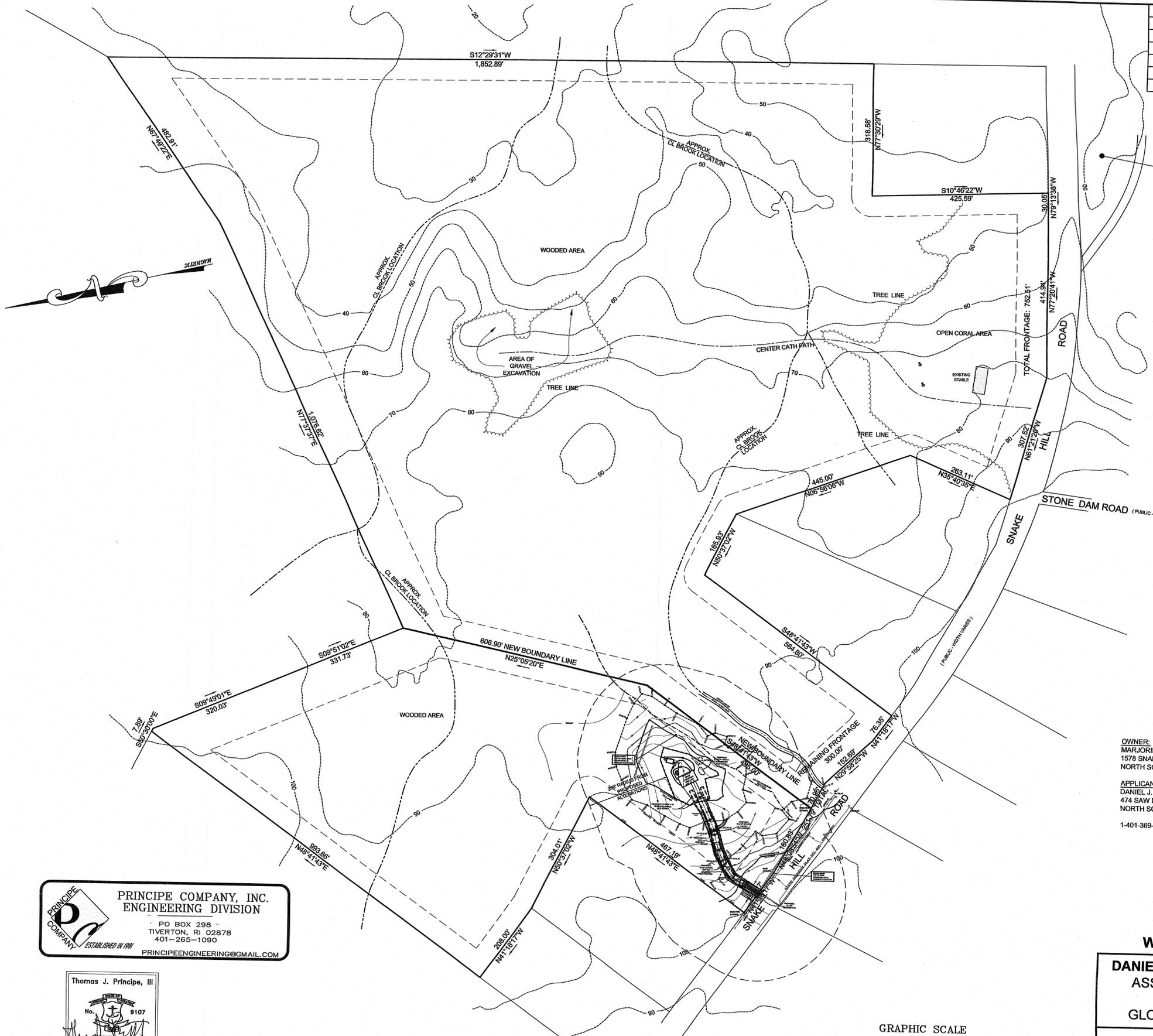
Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER

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 REGISTRATIONS FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:

TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS 1 STANDARD

PURPOSE OF SURVEY: PRELIMINARY MINOR SUBDIVISION

BY: *Norbert A. Therien* DATE: 12/2/19
NORBERT A. THERIEN, PLS NO. 1739



NO.	DATE	DESCRIPTION	BY
9	12/03/2019	REVISIONS AS PER DEM COMMENTS	WCR
8	11/01/2019	REVISIONS AS PER DEM COMMENTS	WCR
7	8/08/2019	REVISIONS AS PER DEM COMMENTS	WCR
6	5/21/2019	DRAINAGE & CRITTER CROSSING	WCR
5	4/30/2019	REVISIONS AS PER DEM COMMENTS	WCR
4	1/7/2018	ADDED RADIUS PLAN	WCR

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 01 2020 FILE # 18-0342
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OWNER:
MARJORIE M. LAWTON
1578 SNAKE HILL ROAD
NORTH SCITUATE, RHODE ISLAND 02857

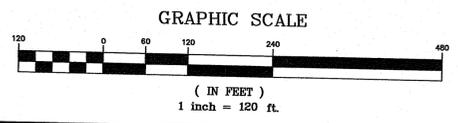
APPLICANT:
DANIEL J. & GRACE K. PELLETIER
474 SAW MILL ROAD
NORTH SCITUATE, RHODE ISLAND 02857
1-401-369-1529

WETLANDS APPLICATION

DANIEL J. & GRACE K. PELLETIER
ASSESSORS PLAT 12 LOT 71
SNAKE HILL ROAD
GLOCESTER, RHODE ISLAND

PRELIMINARY MINOR SUBDIVISION

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: J.N.,R.C.
JUNE 2019	JOB No. 2016-32	SHEET 1 OF 6



ZONING CRITERIA	
ZONING DISTRICT	A3
MINIMUM LOT AREA	3 ACRES
MINIMUM LOT FRONTAGE	300'
MINIMUM FRONT YARD SETBACK	75'
MINIMUM SIDE YARD SETBACK	50'
MINIMUM REAR YARD SETBACK	100'
MAXIMUM BUILDING COVERAGE	4%
MAXIMUM BUILDING HEIGHT	35'

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5	4/30/2019	REVISIONS AS PER DEM COMMENTS	WCR
4	1/7/2018	ADDED RADIUS PLAN	WCR

ASSESSORS PLAT 12 LOT 71
N/F
MARJORIE M. LAWTON
DEED BOOK 709 PAGE 84

TOTAL AREA BEING:
3,023,889 SQ. FT.
69.4189 ACRES

NEW AREA BEING:
2,350,574 SQ. FT.
53.9618 ACRES

WOODED AREA

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6. TEST HOLES DUG ON MAY 4, 2016 UNDER APPLICATION NUMBER 1613-0409.

REFERENCES:

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2. RHODE ISLAND STATE HIGHWAY PLAT NUMBER 1316.

NEW LOT "A" BEING:
673,284 SQ. FT.
15.4565 ACRES

UPLAND AREA BEING:
66,865 SQ. FT. ±
1.54 ACRES ±

LEGEND

- NOT TO SCALE
- BOUNDARY
 - - - BOUNDARY PROPOSED
 - - - ABUTTER
 - - - MAJOR CONTOUR
 - - - MINOR CONTOUR
 - ○ ○ ○ ○ STONEWALL
 - TREELINE
 - - - WETLANDS EDGE
 - - - 50' PERIMETER WETLAND
 - - - 100' RIVERBANK WETLAND
 - STREAM
 - - - BUILDING ENVELOPE
 - - - DRAINAGE LINE
 - - - WATER LINE
 - - - OHW OVERHEAD ELECTRIC WIRE
 - SOIL EVALUATION HOLE
 - IRON PIN
 - BOUND
 - DRILL HOLE
 - WELL
 - UTILITY POLE
 - - - SOIL TYPE LIMITS
 - - - LIMITS OF DISTURBANCE & EROSION CONTROL

ASSESSORS PLAT 12 LOT 226
N/F
JOHNNY A. & ISLANNDIA D.
ARELLANO
DEED BOOK 689 PAGE 108

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 01 2020 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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James D. Small

OWNER:
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NORTH SCITUATE, RHODE ISLAND 02857

APPLICANT:
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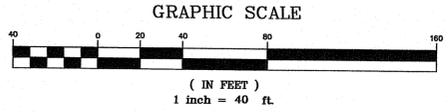
Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER
ESTABLISHED IN 1961

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 REGISTRATIONS FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:
TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS II STANDARD
PURPOSE OF SURVEY: WETLANDS APPLICATION
BY: *Norbert A. Therien* DATE: 12/3/19
NORBERT A. THERIEN, PLS NO. 1739

WETLANDS APPLICATION
DANIEL J. & GRACE K. PELLETIER
PORTION OF
ASSESSORS PLAT 12 LOT 71
LOT "A"
SNAKE HILL ROAD
GLOCESTER, RHODE ISLAND

EXISTING CONDITIONS PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: J.N.,R.C.
JUNE 2019	JOB No. 2016-32	SHEET 2 OF 6



ZONING CRITERIA

ZONING DISTRICT	A3
MINIMUM LOT AREA	3 ACRES
MINIMUM LOT FRONTAGE	300'
MINIMUM FRONT YARD SETBACK	75'
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MAXIMUM BUILDING COVERAGE	4%
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200' RADIUS FROM PROPOSED ALTERATIONS

DRIVEWAY WATER QUALITY CALCULATIONS:

TOTAL DRIVEWAY SURFACE AREA = 3,780 S.F.
BASED ON SAND, LOAMY SANDS AND SANDY LOAM SUBSOIL
3,780 S.F. AT 24" DEEP TRENCH (0.096 x 3,780 S.F.) = 363 S.F.
LENGTH OF SWALE = 60'
363 S.F. / 60 FT = 6.05' WIDE TRENCH REQUIRED
6.5' WIDE TRENCH PROVIDED

PROPOSED ROOF DRAINAGE TO COMPLY WITH RI DEM STORMWATER DESIGN AND INSTALLATION MANUAL

AREA OF DISTURBANCE WITHIN WETLANDS = 2,415± S.F.
AREA OF DISTURBANCE WITHIN 50 FOOT PERIMETER WETLAND = 2,210± S.F.

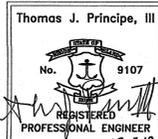
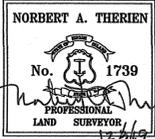
OWNER:
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ENGINEERING DIVISION

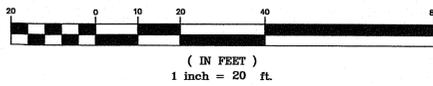
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LEGEND
NOT TO SCALE

- BOUNDARY
- BOUNDARY PROPOSED
- ABUTTER
- MAJOR CONTOUR
- MINOR CONTOUR
- STONEWALL
- TREELINE
- WETLANDS EDGE
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- STREAM
- BUILDING ENVELOPE
- DRAINAGE LINE
- WATER LINE
- OVERHEAD ELECTRIC WIRE
- SOIL EVALUATION HOLE
- IRON PIN
- BOUND
- DRILL HOLE
- WELL
- UTILITY POLE
- SOIL TYPE LIMITS
- LIMITS OF DISTURBANCE & EROSION CONTROL

GRAPHIC SCALE



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TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS I STANDARD

PURPOSE OF SURVEY: WETLANDS APPLICATION

BY: *Norbert A. Therien* DATE: 12/2/19
NORBERT A. THERIEN, PLS NO. 1739

WETLANDS APPLICATION

DANIEL J. & GRACE K. PELLETIER
PORTION OF
ASSESSORS PLAT 12 LOT 71
LOT "A"
SNAKE HILL ROAD
GLOCESTER, RHODE ISLAND

PROPOSED CONDITIONS PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: J.N.R.C.
JUNE 2019	JOB No. 2016-32	SHEET 3 OF 6

NO.	DATE	DESCRIPTION	BY
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6	5/21/2019	DRAINAGE & CRITTER CROSSING	WCR
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4	1/7/2018	ADDED RADIUS PLAN	WCR

LANDSCAPING NOTES:

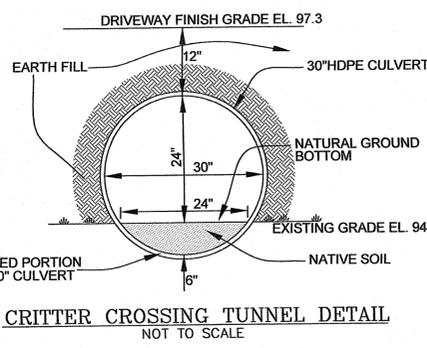
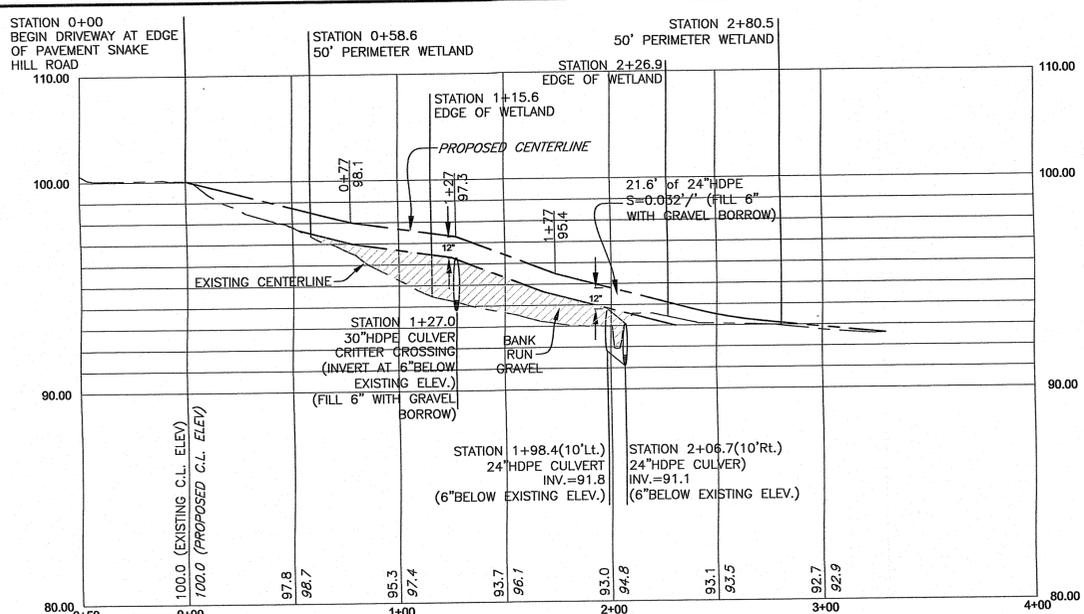
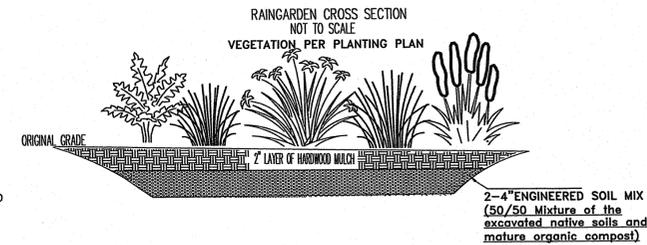
1. ALL PLANT MATERIAL SHALL CONFORM TO AAN STANDARDS
2. ALL PLANT MATERIALS TO RECEIVE THREE INCHES OF SHREDDED PINE BARK MULCH.
3. ALL PLANT MATERIALS TO BE GUARANTEED TO SURVIVE AT LEAST ONE FULL YEAR FROM DATE OF PLANTING.
4. ALL PLANT MATERIAL SUBJECT TO FIELD VERIFICATION OF LOCATION AND SPECIES.
5. DISTURBED SOILS WITHIN THE PROJECT LIMITS ARE TO BE LOADED AND SEEDED WITH A MINIMUM MIXTURE OF 6" OF LOAM AND APPLICABLE SEEDING MIXTURE.

PLANTING DATES
 SPRING - MARCH 15 TO JUNE 15
 FALL - SEPT. 1 TO OCTOBER 31

SEEDING DATES
 SPRING - APRIL 1 TO JUNE 15
 FALL - AUGUST 15 TO SEPT 30

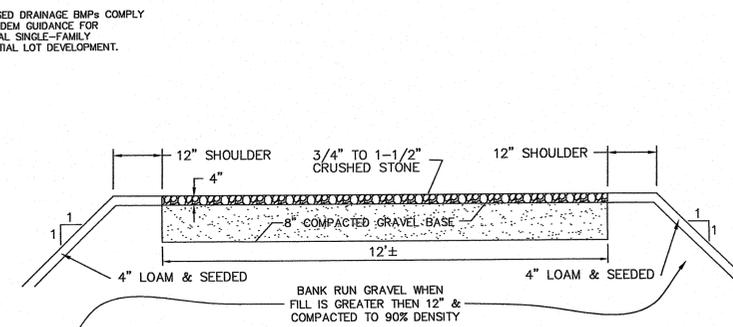
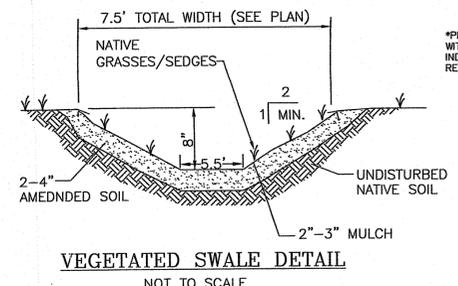
RAIN GARDEN REQUIRED MAINTENANCE:

1. INSPECT FOLLOWING THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE PROPER FUNCTIONING. INSPECT PERIODICALLY THEREAFTER TO ENSURE PROPER FUNCTIONING AND PLANT GROWTH/SURVIVAL.
2. SILT/SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION EXCEEDS ONE INCH, OR WHEN WATER PONDS ON THE SURFACE FOR MORE THAN 48 HOURS. TOP FEW INCHES SHALL BE REMOVED AND REPLACED WITH FRESH SOIL MIXTURE AND MULCH.
3. PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
4. SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
5. FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.
6. PERENNIAL PLANTS AND GROUND COVERS SHALL BE REPLACED AS NECESSARY TO MAINTAIN AN ADEQUATE VEGETATED GROUND COVER.



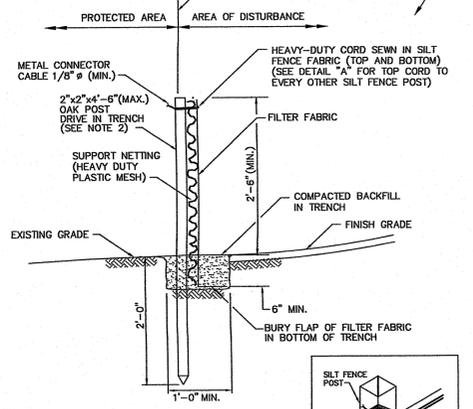
DRIVEWAY WATER QUALITY CALCULATIONS:

TOTAL DRIVEWAY SURFACE AREA= 3,780 S.F.
 BASED ON SAND, LOAMY SANDS AND SANDY LOAM SUBSOIL
 VEGETATED SWALE SIZING
 3,780 S.F. @ 80 SF OF 8" SWALE PER 1,000 SF OF DRIVEWAY= 302 S.F. OF BOTTOM SURFACE AREA REQUIRED.
 TOTAL LENGTH OF SWALE = 60'
 302 S.F. / 60 FT = 5.03" WIDE SWALE REQUIRED (SEE DETAIL "A" FOR TOP CORD TO BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.)
 2 SWALES PROVIDED (NORTH AND SOUTH SIDE OF DRIVEWAY)
 5.5' WIDE (BOTTOM SURFACE WIDTH) SWALES PROVIDED
 2 SWALES PROVIDED AT 30' LONG EACH



VEGETATED SWALE REQUIRED MAINTENANCE:

1. INSPECT ANNUALLY AND AFTER LARGE STORM EVENTS.
2. ERODED SIDE SLOPES AND CHANNEL BOTTOMS SHALL BE STABILIZED AS NECESSARY.
3. IF THE SURFACE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEDED.
4. VEGETATION IN DRY SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-6 INCH RANGE.
5. EVERY FIVE YEARS, THE CHANNEL BOTTOM OF DRY SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEEDED TO RESTORE GROUND COVER, WHERE NECESSARY.



ROOF DRAINAGE CALCULATIONS:

RAIN GARDEN DESIGN BASIS:
 >180 SF PROVIDED
 *CONTRACTOR TO STRICTLY ADHERE TO THE INSTALLATION MANUAL FOR THE RAIN GARDEN.
 *OWNER SHALL ALSO STRICTLY ADHERE TO THE RAIN GARDEN MAINTENANCE SCHEDULE SET FORTH BY RI DEM IN ORDER TO ASSURE ITS PROPER FUNCTION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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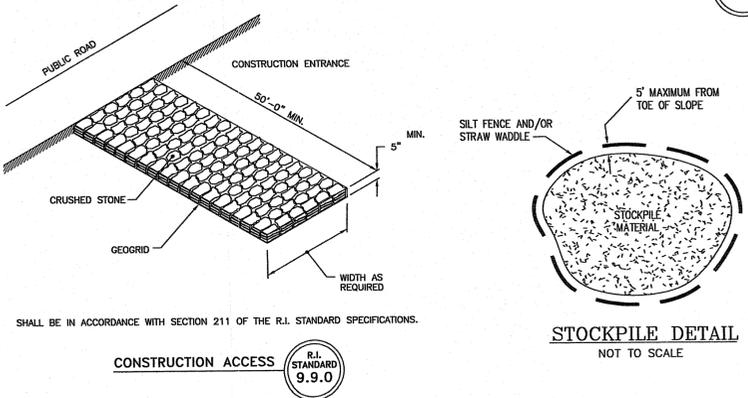
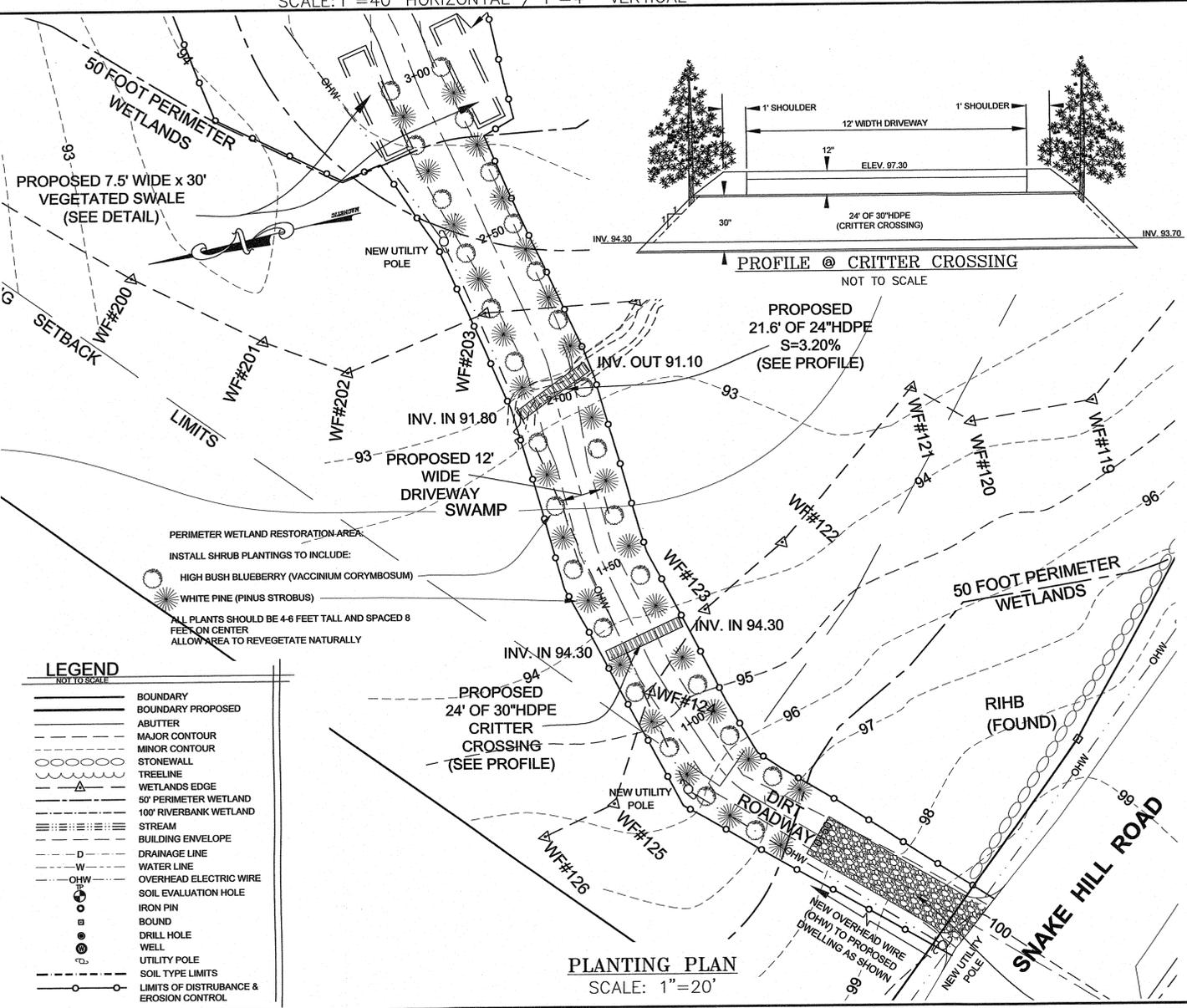
PRINCIPE COMPANY, INC.
 ENGINEERING DIVISION
 PO BOX 298
 TIVERTON, RI 02878
 401-265-1090
 ESTABLISHED IN 1941
 PRINCIPEENGINEERING@GMAIL.COM

WETLANDS APPLICATION

DANIEL J. & GRACE K. PELLETIER
 PORTION OF
 ASSESSORS PLAT 12 LOT 71
 LOT "A"
 SNAKE HILL ROAD
 GLOCESTER, RHODE ISLAND

PROFILE PLAN & DETAILS

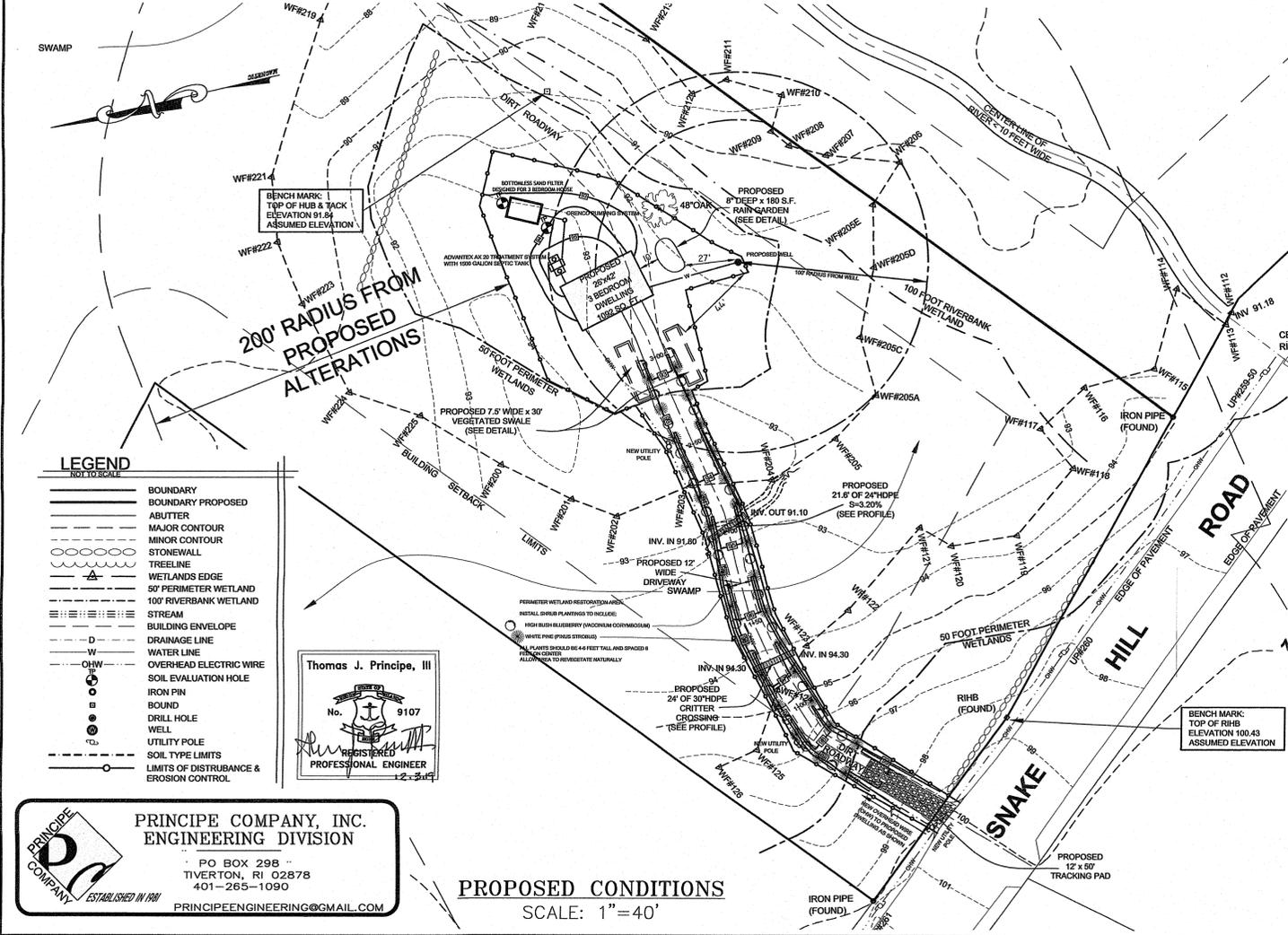
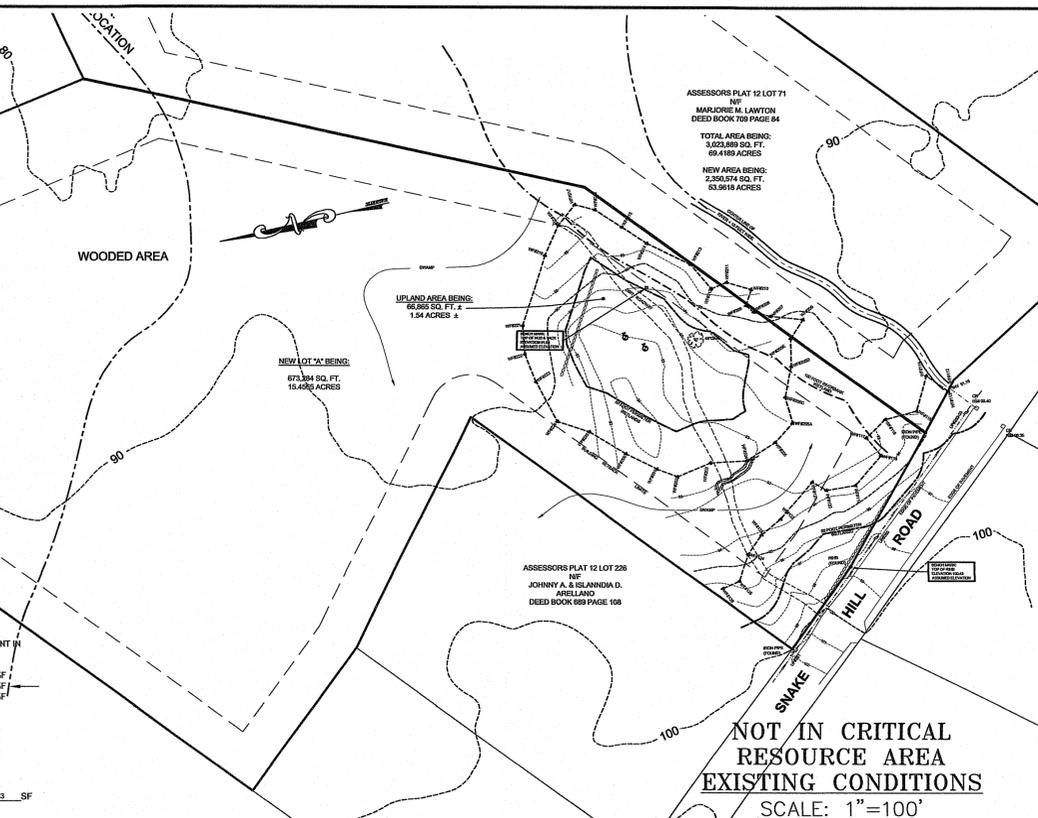
DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: J.N.,R.C.
 JUNE 2019 JOB No. 2016-32 SHEET 4 OF 6



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NO.	DATE	DESCRIPTION	BY

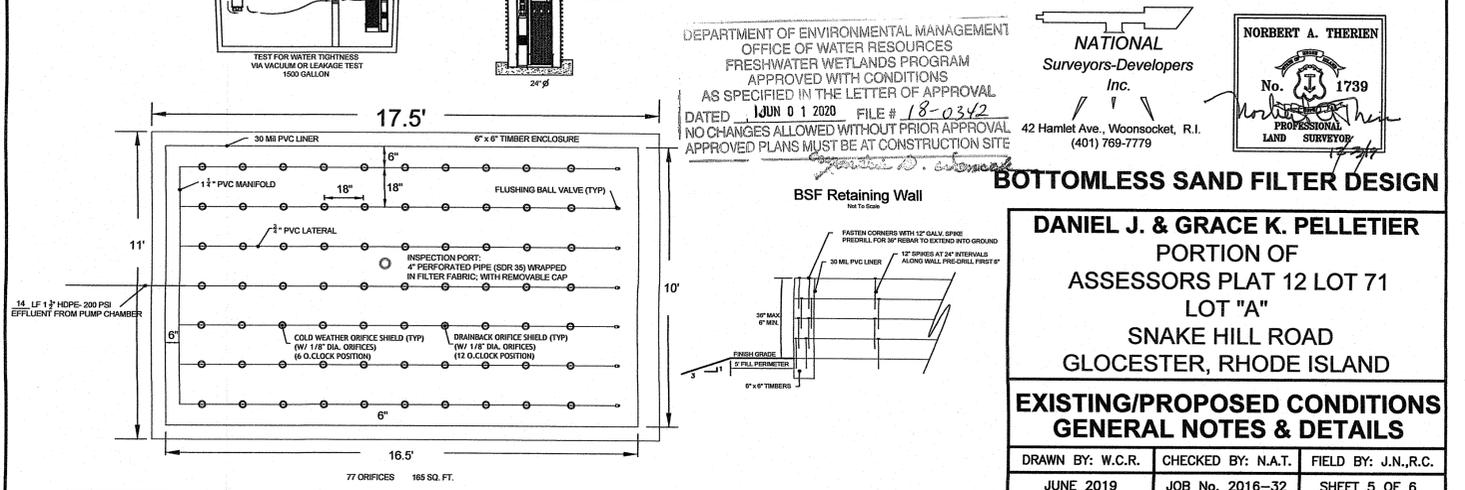
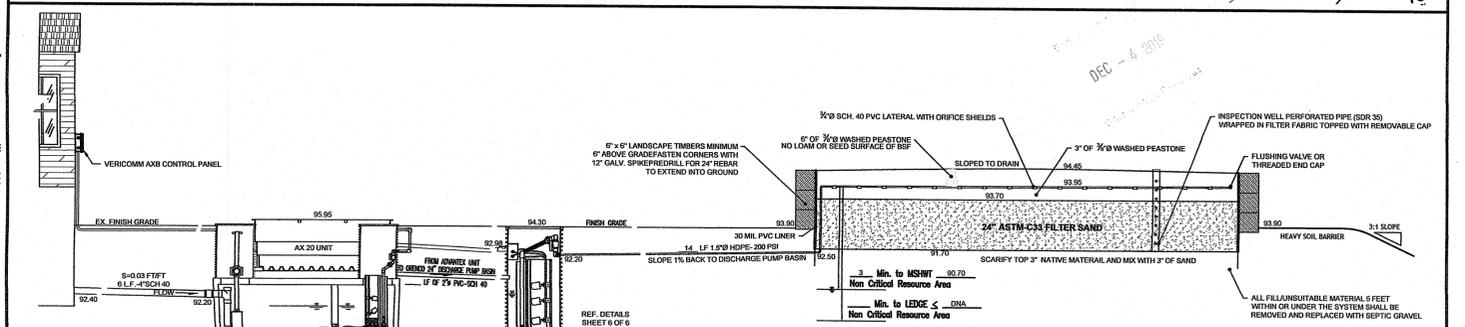
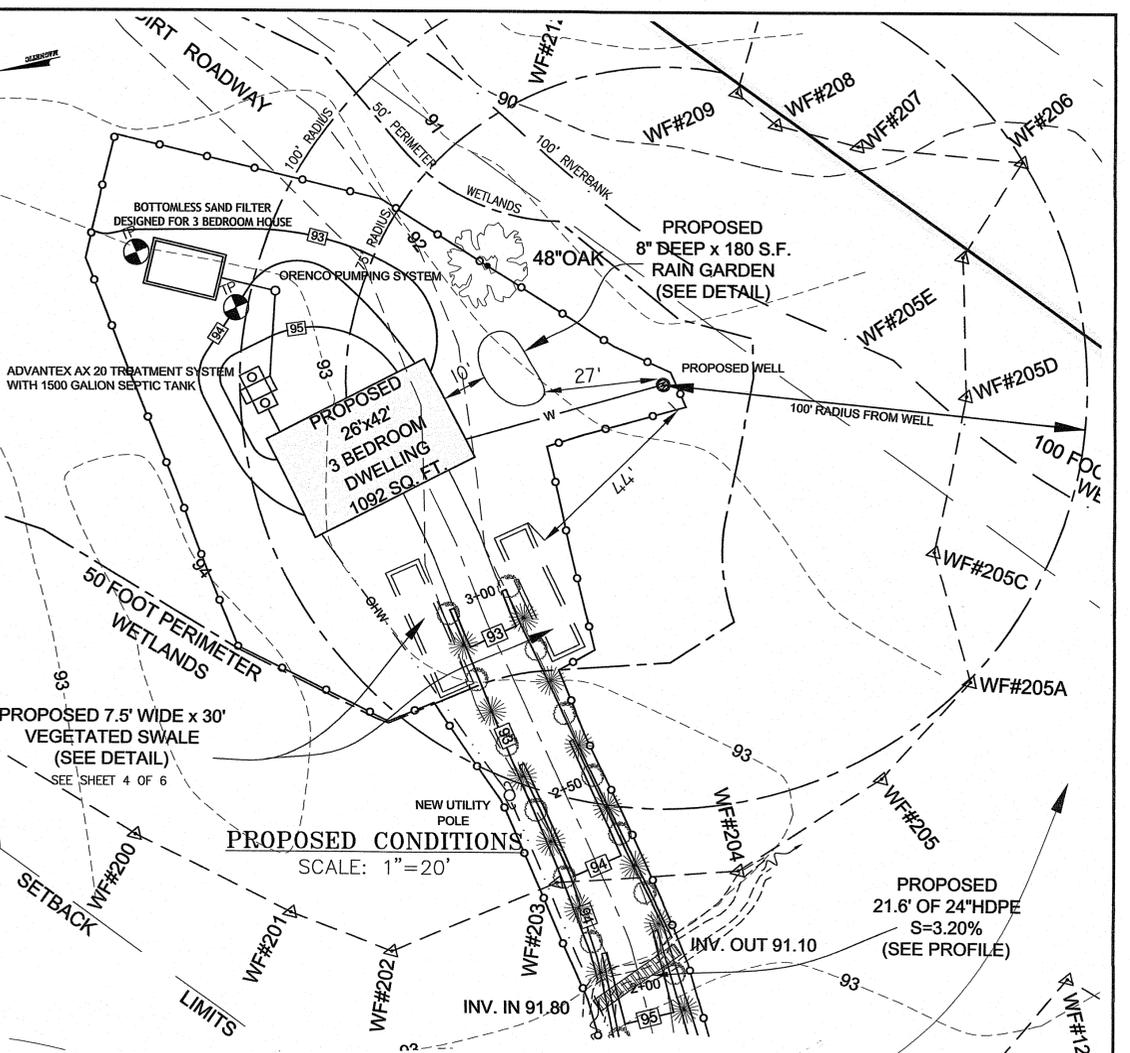
*** PLEASE NOTE :**
 INSPECTIONS ARE REQUIRED, AND THE SYSTEM MUST BE INSTALLED AS DESIGNED. ANY CHANGES MAY REQUIRE EITHER AN AS-BUILT PLAN OR A RE-DESIGN APPLICATION TO BE REVIEWED AND APPROVED BY D.E.M. (OWTS) AT AN ADDITIONAL COST TO THE OWNER AND A POSSIBLE TIME DELAY.
 THE DESIGNER MUST RECEIVE ALL PURCHASE SLIPS OF COMPONENTS AND MATERIALS PRIOR TO SCHEDULING FINAL INSPECTIONS.

TEST HOLE RESULTS		DESIGN DATA	
TEST HOLE #	1	SOIL CATEGORY	4.7.7a.6m PRESENT IN TESTHOLES
DATE OF TEST	5-4-18	SOIL CATEGORY	4 = 3.1 GAL/SF
W.T. CABD #	1513-0409	SOIL CATEGORY	7 = 2.1 GAL/SF
SEE SITE INSPECTION REPORT		SOIL CATEGORY	6m = 2.3 GAL/SF
SOIL DESCRIPTION BY STRATA		LOADING RATE =	GAL/SF/DAY
WATER TABLE	30"		
LEDGE AT	+106'		
TEST HOLE #	2		
DATE OF TEST	5-4-18		
W.T. CABD #	1513-0409		
SEE SITE INSPECTION REPORT			
SOIL DESCRIPTION BY STRATA			
WATER TABLE	30"		
LEDGE AT	+111'		



OWTS DESIGN

SYSTEM ELEVATIONS	
INV. OUT BLDG.	92.40
INV. IN 1,500 GAL. SEPTIC TANK	92.20
INV. IN DOSING CHAMBER	92.98
DISCHARGE PUMP BASIN	
HIGH WATER ALARM	92.00
PUMP ON	91.50
PUMP OFF	90.97
ADVANTEK TREATMENT SYSTEM	
FINISH GRADE OVER UNIT	95.95
HIGH WATER ALARM/OVERRIDE TIMER	92.03
LOW WATER ALARM/REDUNDANT OFF	91.05
INV. RSV CAGE	
PRIMARY DOSING CONTROLLED BY TIMER, FLOWS ARE FOR CHECKING PURPOSES ONLY	
BOTTOMLESS SAND FILTER	
TOP OF FIELD	94.45
5' FILL PERIMETER MINIMUM	93.90
LAERAL OF BSF	93.95
PEA STONE / S&D FILTER MEDIA INTERFACE	93.70
SOIL / SAND INTERFACE	91.70
WATER TABLE	90.70



LEGEND	
---	BOUNDARY
---	BOUNDARY PROPOSED
---	ABUTTER
---	MAJOR CONTOUR
---	MINOR CONTOUR
---	STONEWALL
---	TREELINE
---	WETLANDS EDGE
---	50' PERIMETER WETLAND
---	100' RIVERBANK WETLAND
---	STREAM
---	BUILDING ENVELOPE
---	DRAINAGE LINE
---	WATER LINE
---	OVERHEAD ELECTRIC WIRE
---	SOIL EVALUATION HOLE
---	IRON PIN
---	BOUND
---	DRILL HOLE
---	WELL
---	UTILITY POLE
---	SOIL TYPE LIMITS
---	LIMITS OF DISTURBANCE & EROSION CONTROL

Thomas J. Principe, III
 No. 9107
 REGISTERED PROFESSIONAL ENGINEER

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 ENGINEERING DIVISION
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 401-265-1090
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUN 01 2020 FILE # 18-0342
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NATIONAL
 Surveyors-Developers
 Inc.
 42 Hamlet Ave., Woonsocket, R.I.
 (401) 769-7779

NORBERT A. THERIEN
 No. 1739
 REGISTERED PROFESSIONAL LAND SURVEYOR

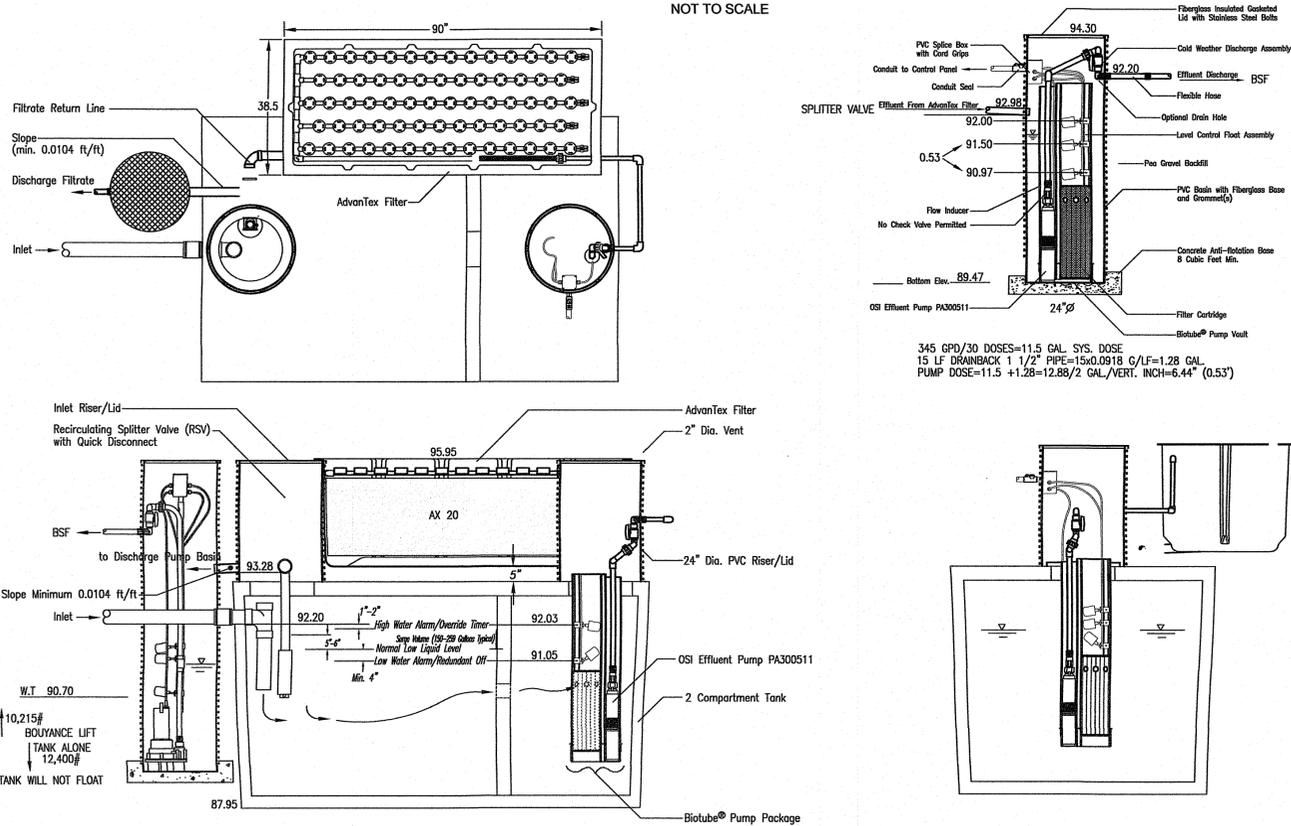
DANIEL J. & GRACE K. PELLETIER
 PORTION OF
 ASSESSORS PLAT 12 LOT 71
 LOT "A"
 SNAKE HILL ROAD
 GLOCESTER, RHODE ISLAND

EXISTING/PROPOSED CONDITIONS
GENERAL NOTES & DETAILS

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: J.N.R.C.
 JUNE 2019 JOB No. 2016-32 SHEET 5 OF 6

ADVANTECH TREATMENT SYSTEM AX 20 SERIES - MODE 3B

NOT TO SCALE



SOIL EROSION AND SEDIMENTATION CONTROL NOTES

THE HAYBALE / 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 AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS SPECIFIED 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.

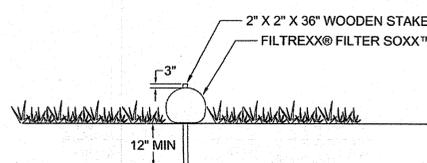
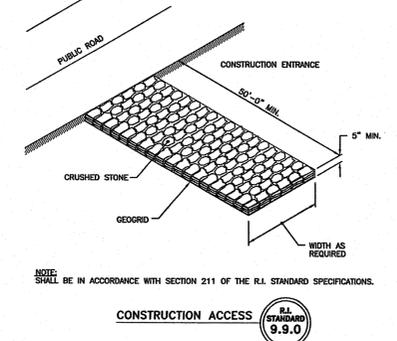
ALL HAY BALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN APPROVED STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

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.

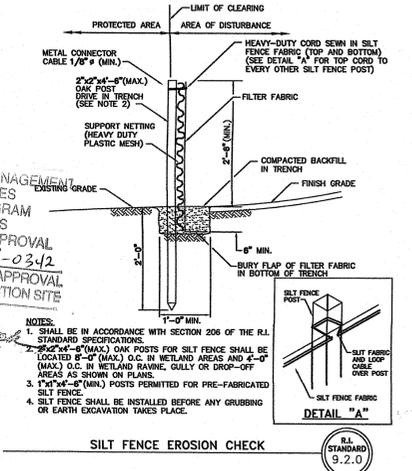
THE HAY BALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAY BALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH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



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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NO.	DATE	DESCRIPTION	BY
9	12/03/2019	REVISIONS AS PER DEM COMMENTS	WCR
8	11/01/2019	REVISIONS AS PER DEM COMMENTS	WCR
7	8/08/2019	REVISIONS AS PER DEM COMMENTS	WCR
6	5/21/2019	DRAINAGE & CRITTER CROSSING	WCR
5	4/30/2019	REVISIONS AS PER DEM COMMENTS	WCR
4	1/7/2018	ADDED RADIUS PLAN	WCR

ISDS SYSTEM NOTES

ISDS AX System Notes

THE AX SYSTEM IS AN ORENCO COMPONENT SYSTEM AND THIS DESIGN IS PREPARED UPON AN INSTALLATION IN THE SERIES 3B MODE. IN MODE 3B THE FILTRATE RECIRCULATES BACK TO THE HIGH-CARBON, LOW 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 AX20.

IT IS CONDITIONAL IN THIS DESIGN THAT THE LID OF THE AX20 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 AX20 SYSTEM WILL PROVIDE FOR A CATEGORY 1 TREATMENT SYSTEM. AN ADVANCED TREATMENT UNIT THAT IS TIME DOSED AS CLASSIFIED BY THE RIEM.

Determining RSV & Float Levels

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

FLOAT LEVELS: TYPICALLY THE BOTTOM FLOAT SHOULD BE POSITIONED AS CLOSE TO THE TOP OF THE BIOTUBE 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.

Retaining Wall Notes

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

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

SUPPORT WALLS ARE NEEDED TO PREVENT CAVING OF FILTER WALLS DURING CONSTRUCTION. THESE WALLS SHALL BE RIGID AND MADE OF PLYWOOD (OR EQUIVALENT) AND 2x4 SUPPORT BOARDS.

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

Bottomless Sand Filter Notes

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

THE "BSF" AREA IS TO BE LOCATED AND STAKED IN THE FIELD BY THE DESIGNER 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 ARWAY AVENUE, SUTHERLIN, OR 97479. LOCAL DEALER INFORMATION IS AVAILABLE AT 1-800-348-9843 OR WWW.ORENCO.COM.

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

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

THE PRESSURE DOSE EFFLUENT LINE IS DESIGNED AS A 1 1/2" HDPE PVC LINE. THE PRESSURE LINE IS TO BE SLOPED BACK TOWARDS THE PUMP CHAMBER FROM THE "BSF" FIELD TO ELIMINATE FREEZING.

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

PERMETER STRIPPING OF THE SOIL MATERIAL BELOW THE "BSF" IS PROHIBITED.

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 PHYSICAL 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 3 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 SATISFACTORILY AND WITHOUT FREEZING PROBLEMS, THE POSSIBILITY OF FREEZING MAY EXIST UNDER CERTAIN CIRCUMSTANCES. SHOULD THE OWNER WISH TO MAXIMIZE THE AVOIDANCE OF THIS POSSIBILITY, THE OWNER MAY ELECT THE OPTION OF INSTALLING AN ELECTRIC HEAT TRACING SYSTEM ON THE PIPELINES. OWNER SHOULD CONTACT MANUFACTURERS/SUPPLIERS OF SUCH EQUIPMENT FOR FURTHER INFORMATION.

Operation and Maintenance Requirements

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 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 END BELL VALVE AND CLEANING THE ENTIRE LENGTH OF THE LATERAL WITH A BOTTLE BRUSH. THE ACCUMULATED CLEANED MATERIAL MAY BE DEPOSITED IN THE INLET OF THE SEPTIC TANK. EACH LATERAL IS TO BE FLUSHED AS REQUIRED.

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

ELECTRONIC COMPONENTS OF THE ADVANTECH 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.

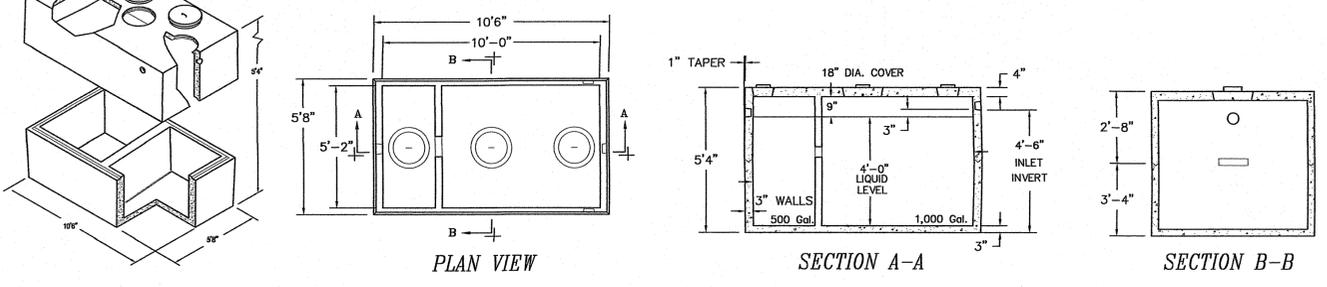
THE AREA WITHIN 10 FEET OF THE "BSF" SHALL BE KEPT CLEAR OF TREES AND SHRUBS. THE COVER OVER THE BOTTOMLESS SAND FILTER SHALL BE KEPT FREE FROM DEBRIS AND PEA STONE BROUGHT TO TOP OF FORM.

TWO TO FOUR WEEKS AFTER INSTALLATION, OR AFTER SUFFICIENT USE OF THE SYSTEM TIMER SHALL BE RESET, AS NEEDED, BASED UPON ACTUAL FLOW THROUGH THE SYSTEM.

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

1,500 GALLON SEPTIC TANK

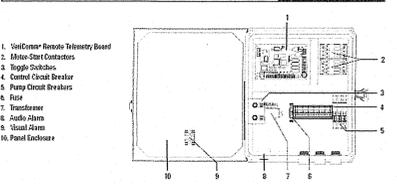
NOT TO SCALE



PUMP CURVE

CONTROL PANEL

VentiComm AXB Control Panels



Part Number	Description	Quantity
1	VentiComm Remote Telemetry Unit	1
2	Motor Start Controller	1
3	Single Switch	1
4	Control Circuit Breaker	1
5	Pump Circuit Breaker	1
6	Fuse	1
7	Transformer	1
8	Audio Alarm	1
9	Visual Alarm	1
10	Panel Enclosure	1

PUMP CONTROL PANEL BOX MUST NOT BE PLACED ON AN OUTSIDE WALL OF THE STRUCTURE THAT IT SERVES. RECOMMENDED THAT THE PANEL BOX BE WITHIN VIEW OF THE SYSTEM LOCATION.

ISDS NOTES

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

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

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

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

THERE ARE SURFACE WATER DRAINS OR TRIBUTARIES WITHIN 200 FEET OF THE SYSTEM OR ALTERNATE AREA WHICH DRAIN TO A CRITICAL RESOURCE AREA PER SD 19.00 - 19.03 AS SHOWN.

THE 1 1/2 INCH PRESSURE EFFLUENT LINE SHALL BE SLOPED TOWARDS THE PUMP CHAMBER TO PREVENT FREEZING.

NO DRIVING, PARKING OR PAVING WITHIN 10' OF LEACH FIELD.

THIS SEWERAGE DISPOSAL SYSTEM SHALL CONFORM TO ALL THE REGULATIONS UNDER SECTIONS 42-17.1-2(1), (4) (b) AND (5) 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 SCHEDULE 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 FEET BUT NO GREATER THAN 3%.

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

THIS PROPOSED DEVELOPMENT SHALL USE "LOW FLOW FIXTURES".

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

DANIEL J. & GRACE K. PELLETIER
PORTION OF
ASSESSORS PLAT 12 LOT 71
LOT "A"
SNAKE HILL ROAD
GLOCESTER, RHODE ISLAND
GENERAL NOTES & DETAILS

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