

LEGEND

	SUBJECT PROPERTY LINE	APPROX. B.S.	APPROXIMATE BASEMENT SLAB
	ABUTTER LINE	CMP	CORRUGATED METAL PIPE
	EX-STONEWALL	CONC.	CONCRETE
	IRON PIN	ELEV.	ELEVATION
	BOUND	EX.	EXISTING
	DRILL HOLE	FES	FLARED END SECTION
	UTILITY POLE	HDPE	HIGH-DENSITY POLYETHYLENE
	EX. CONTOUR	LOC.	LOCATION
	FLAGGED WETLAND EDGE	MAX.	MAXIMUM
	APPROX. WETLAND EDGE	MIN.	MINIMUM
	50' PERIMETER WETLANDS	PRO.	PROPOSED
	75' PERIMETER WETLANDS	RCP	REINFORCED CONCRETE PIPE
	150' PERIMETER WETLANDS	REQ'D	REQUIRED
	DEM JURISDICTION LINE	SF	SQUARE FOOT
	STREAM	T.O.F.	TOP OF FOUNDATION
	SOIL EVALUATION HOLE	WF	WETLAND FLAG
	EXISTING WELL		
	PROPOSED WELL		
	EROSION CONTROL FENCE		
	LIMIT OF DISTURBANCE		
	PRO. CONTOUR		
	PRO. OVERHEAD UTILITIES (ELECTRIC, CABLE, COMMUNICATIONS)		
	PRO. STORMWATER DRAIN		
	PRO. SEWER LINE		
	PRO. BOULDER RETAINING WALL		

REFERENCES & NOTES:

- PROPERTY LINES INFORMATION OBTAINED FROM SURVEY PERFORMED BY NATIONAL LAND SURVEYORS-DEVELOPERS, INC. SEE PLAN TITLED "PETER F. & CHRISTINE D. MATHIEU ASSESSORS PLAT 16 LOT 150 208 LONG ENTRY ROAD DAHLQUIST FAMILY TRUST ASSESSORS PLAT 16 LOT 141 224 LONG ENTRY ROAD PETER F. MATHIEU ASSESSORS PLAT 16 LOT 9 LONG ENTRY ROAD GLOCESTER, RHODE ISLAND ADMINISTRATIVE SUBDIVISION", DATED JULY 2021, PRODUCED BY NATIONAL SURVEYORS-DEVELOPERS, INC.
- FLAGGED WETLAND AREAS DELINEATED BY MCCUE ENVIRONMENTAL, LLC
- NON-FLAGGED WETLAND AREAS ARE APPROXIMATE AND OBTAINED FROM THE RHODE ISLAND DEPT. OF ENVIRONMENTAL RESOURCE MAP.
- SITE TOPOGRAPHY OBTAINED PARTIALLY FROM ONSITE MEASUREMENT AND RIGIS LIDAR DATA.
- FEMA FLOOD INSURANCE RATE MAP NUMBER 44007C0165G, PANEL 165 OF 451 IN PROVIDENCE COUNTY, RHODE ISLAND, EFFECTIVE DATE MARCH 2, 2009
- NO EASEMENTS EXIST WITHIN SUBJECT PROPERTY.
- NO KNOWN CEMETERIES EXIST WITHIN SUBJECT PROPERTY.
- THERE IS NO OPEN SPACE PROPOSED.
- THIS PLAN IS PREPARED FOR PERMIT APPLICATION USE ONLY AND IS NOT FOR CONSTRUCTION.

AGRICULTURAL RESIDENTIAL - 4 ACRES (A-4)
SINGLE-FAMILY DWELLING ZONING TABLE

MIN. LOT SIZE (AC)	MIN. LOT WIDTH (FT)	MIN. FRONT YARD DEPTH (FT)	MIN. REAR YARD DEPTH (FT)	MIN. SIDE YARD WIDTH (FT)	MAX. BLD. COVERAGE	MAIN STRUCTURE MAX. HEIGHT (FT)	ACCESSORY STRUCTURE MAX. HEIGHT (FT)
4	350	75'	100'	50'	4%	35	25

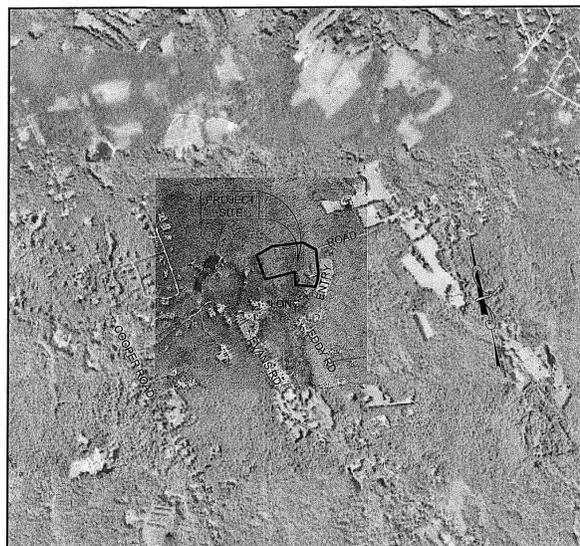
1. LOT WIDTH MAY BE MEASURED AT THE MINIMUM REQUIRED FRONT YARD SETBACK LINE. THE LOT WIDTH AT THE STREET LINE SHALL NOT BE LESS THAN 90% OF THE REQUIRED WIDTH; EXCEPT IN THE INSTANCE OF A CUL-DE-SAC WHERE SUCH LOT WIDTH AT THE STREET LINE SHALL NOT BE LESS THAN 1/2 OF THE REQUIRED LOT WIDTH AT THE MINIMUM SETBACK LINE. IN NO INSTANCE SHALL THE DISTANCE BETWEEN SIDE LOT LINES BE LESS THAN 100 FEET.

2. CORNER LOT SHALL BE REQUIRED TO PROVIDE THE MINIMUM FRONT DEPTH YARD ALONG ALL STREETS. IN NO CASE SHALL FRONT YARD DEPTH BE LESS THAN 100 FEET FROM THE CENTER LINE OF A ROAD.

SUBLOT CALCULATIONS

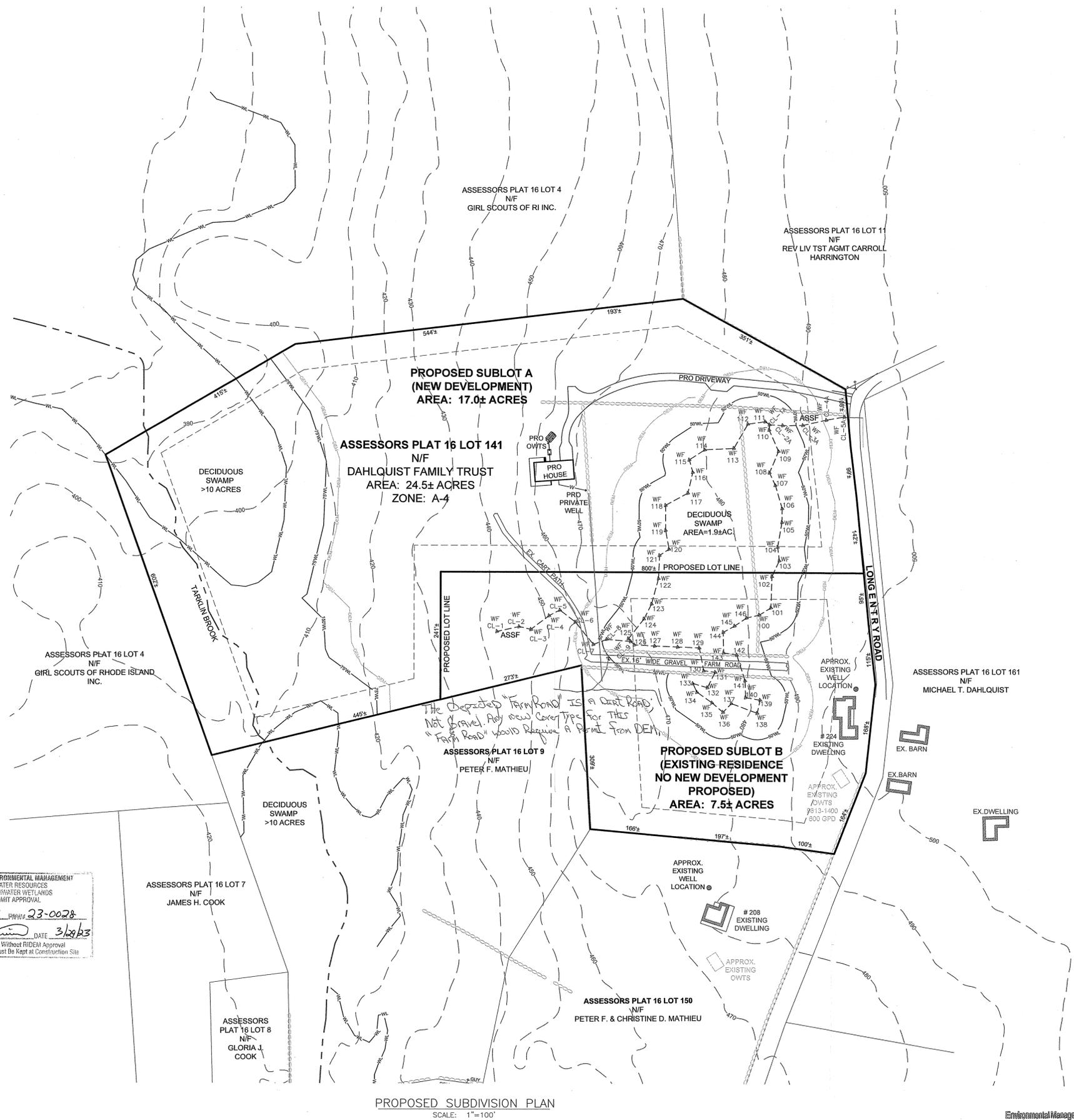
SUBLOT	TOTAL AREA (SF)	FRESHWATER WETLANDS & BUFFERS (SF)	STREETS OR ROWS	SURFACE WATERS (SF)	EASEMENTS (SF)	CEMETERIES (SF)	STEEP SLOPE AREAS (SF)	FLOOD HAZARD AREAS (SF)	TOTAL CONTIGUOUS 'LAND SUITABLE FOR DEVELOPMENT' (SF)
A	743,364±	305,569±	0.0	0.0	0.0	0.0	45,137±	0.0	366,524± ^B
B	325,276±	83,689±	0.0	0.0	0.0	0.0	15,448±	0.0	178,210± ^C

^A 2,326 SF OF STEEP SLOPE AREA WITHIN PROPOSED SUBLOT A RESIDES WITHIN A FRESHWATER WETLAND/BUFFER AREA
^B 28,460 SF OF 'LAND SUITABLE FOR DEVELOPMENT' IS NOT CONTIGUOUS.
^C 47,929 SF OF 'LAND SUITABLE FOR DEVELOPMENT' IS NOT CONTIGUOUS.



LOCUS MAP
1"=200'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
DWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL
DWTS# 2013-0597 PWW# 23-0028
APPROVED: [Signature] DATE: 3/29/23
No Changes Allowed Without RIDEM Approval
Approved Plans/Permits Must Be Kept at Construction Site



PROPOSED SUBDIVISION PLAN
SCALE: 1"=100'



Environmental Management
MAR 16 2023
Office of Water Resources

RIDEM APPLICATION PLAN
MATHIEU MINOR SUBDIVISION
PROPOSED LOT LINE PLAN

A.P. 16 LOT 141
LONG ENTRY ROAD
GLOCESTER, RHODE ISLAND 02814
SCALE: AS SHOWN DATE: 01/18/23 SHEET 1 of 4

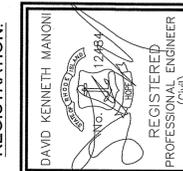
OWNER/APPLICANT
PETER MATHIEU & RAYMOND FOGARY
TRUSTEES & DAHLQUIST FAMILY TRUST
208 LONG ENTRY ROAD
GLOCESTER, RI 02814

NO.	DATE	DESCRIPTION	BY
1.	3-14-23	DEM COMMENTS	DKM

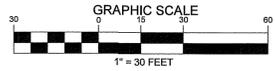
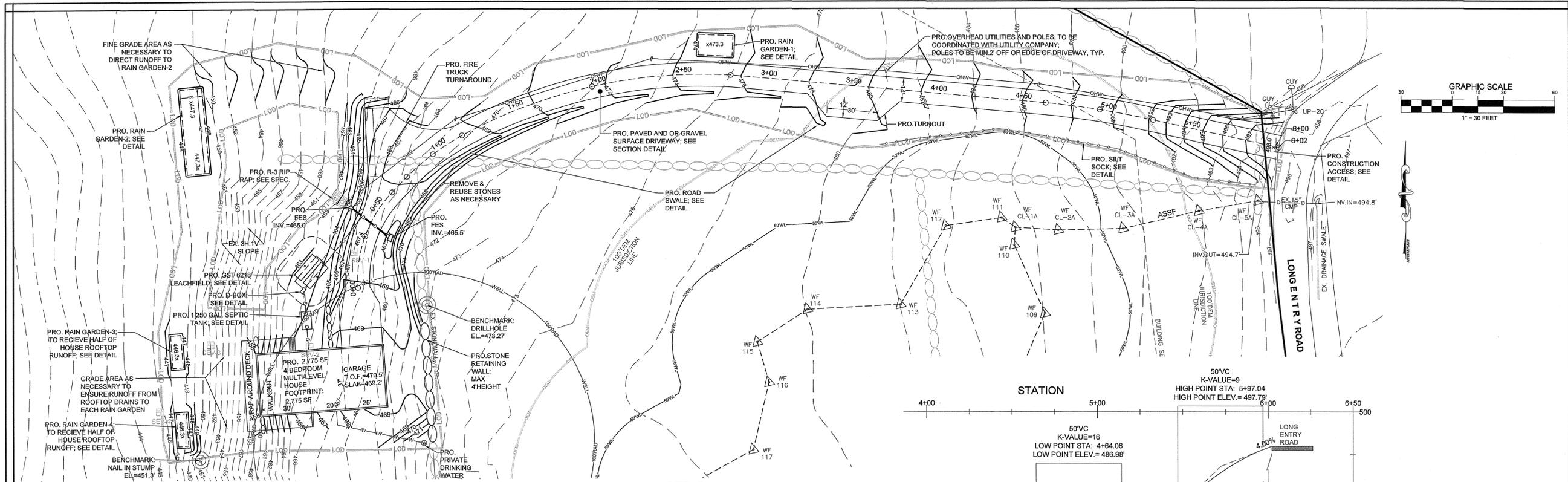
REVISIONS:

JOB NO.: 22.02

REGISTRATION:



**GROUND BREAKING
DESIGNS, LLC**
CIVIL ENGINEERING SOLUTIONS
90 HIGHLAND AVE., SOUTH KINGSTOWN, RI 02879 ☎ PHONE: (401) 622-2932



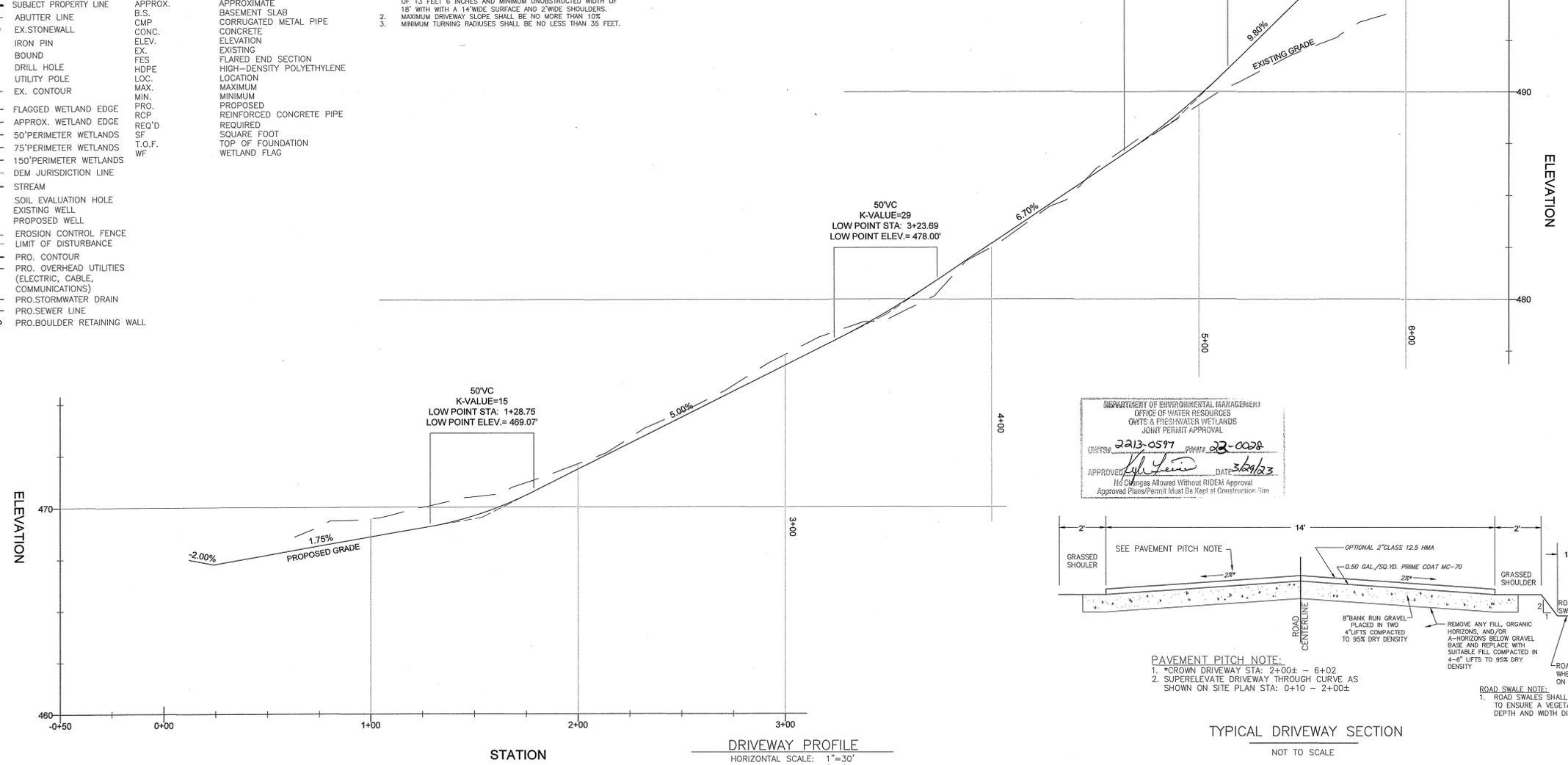
LEGEND

	SUBJECT PROPERTY LINE		APPROX. B.S. ABUTTER LINE		APPROXIMATE CORRUGATED METAL PIPE
	IRON PIN		CONC. ELEV.		EXISTING HIGH-DENSITY POLYETHYLENE
	BOUND		LOC.		PROPOSED REINFORCED CONCRETE PIPE
	DRILL HOLE		REQ'D SF		TOP OF FOUNDATION
	UTILITY POLE		WF		WETLAND FLAG
	EX. CONTOUR		50' PERIMETER WETLANDS		75' PERIMETER WETLANDS
	FLAGGED WETLAND EDGE		150' PERIMETER WETLANDS		STREAM
	APPROX. WETLAND EDGE		SOIL EVALUATION HOLE		EXISTING WELL
	50' PERIMETER WETLANDS		PROPOSED WELL		EROSION CONTROL FENCE
	75' PERIMETER WETLANDS		LIMIT OF DISTURBANCE		PRO. CONTOUR
	150' PERIMETER WETLANDS		PRO. OVERHEAD UTILITIES (ELECTRIC, CABLE, COMMUNICATIONS)		PRO. STORMWATER DRAIN
	DEM JURISDICTION LINE		PRO. SEWER LINE		PRO. BOULDER RETAINING WALL
	STREAM				

DRIVEWAY NOTES:

- DRIVEWAY SHALL PROVIDE A MINIMUM UNOBSTRUCTED HEIGHT OF 13 FEET 6 INCHES AND MINIMUM UNOBSTRUCTED WIDTH OF 18' WITH A 14" WIDE SURFACE AND 2" WIDE SHOULDERS.
- MAXIMUM DRIVEWAY SLOPE SHALL BE NO MORE THAN 10%.
- MINIMUM TURNING RADIUS SHALL BE NO LESS THAN 35 FEET.

SITE PLAN
SCALE: 1"=30'

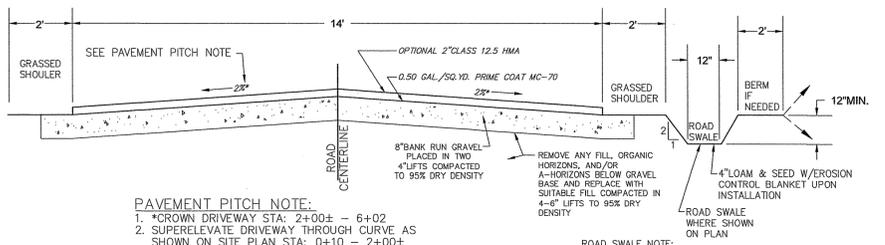


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWRIS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL

DATE: 2/13/23 PERMIT: 03-0028

APPROVED: [Signature] DATE: 3/21/23

No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site



PAVEMENT PITCH NOTE:

- *CROWN DRIVEWAY STA: 2+00± - 6+02
- SUPERELEVATE DRIVEWAY THROUGH CURVE AS SHOWN ON SITE PLAN STA: 6+10 - 2+00±

ROAD SWALE NOTE:

- ROAD SWALES SHALL BE RESEDED AND REGRADED AS NECESSARY TO ENSURE A VEGETATED SURFACE AND TO MAINTAIN THE DESIGN DEPTH AND WIDTH DIMENSIONS OF THE SWALES.

DRIVEWAY PROFILE
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'

TYPICAL DRIVEWAY SECTION
NOT TO SCALE

RIDEM APPLICATION PLAN
MATHIEU MINOR SUBDIVISION
PROPOSED SITE PLAN

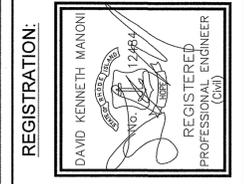
A.P. 16 LOT 141
LONG ENTRY ROAD
GLOCESTER, RHODE ISLAND 02814
SCALE: AS SHOWN DATE: 01/18/23 SHEET 2 of 4

OWNER/APPLICANT
PETER MATHIEU & RAYMOND FOGARTY
TRUSTEES & DAHLQUIST FAMILY TRUST
208 LONG ENTRY ROAD
GLOCESTER, RI 02814

REVISIONS:

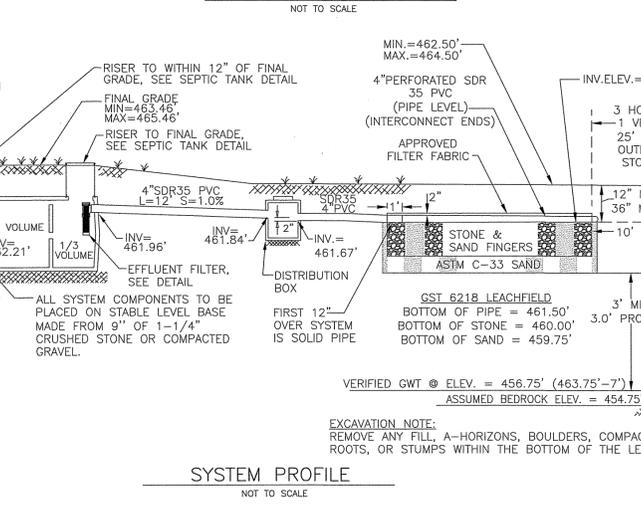
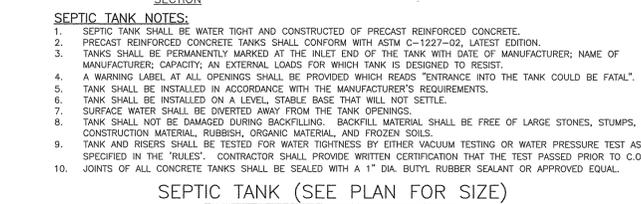
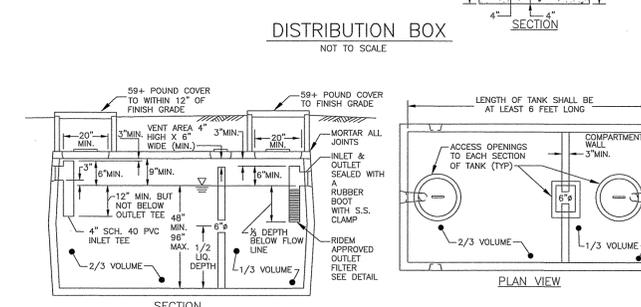
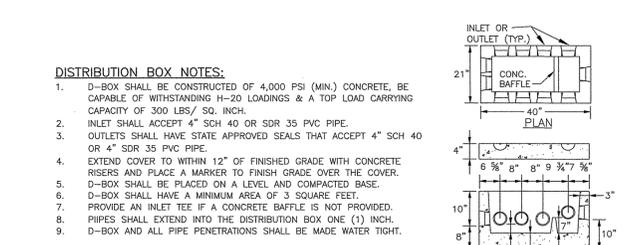
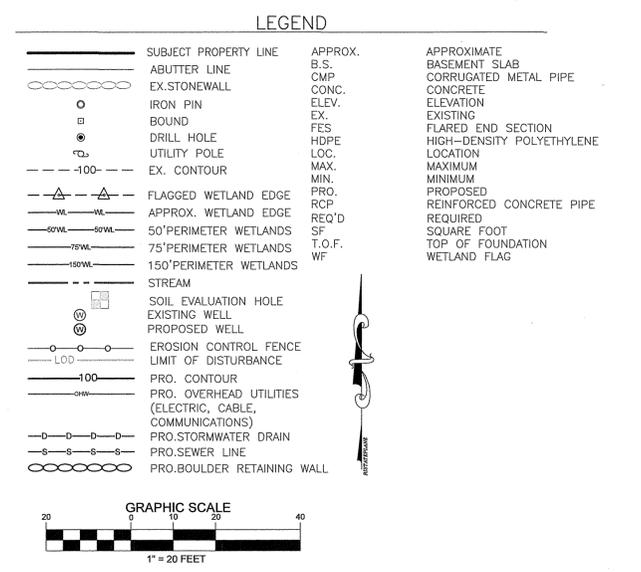
NO.	DATE	DESCRIPTION	BY
1.	3-14-23	DEM COMMENTS	DKM

JOB NO.: 22.02



GROUND BREAKING
DESIGNS, LLC
CIVIL ENGINEERING SOLUTIONS

90 HIGHLAND AVE., SOUTH KINGSTOWN, RI 02879 • PHONE: (401) 622-2932



LEACHFIELD SIZING CALCULATIONS:

FLOW TO LEACHFIELD = 115 GAL/BEDROOM/DAY X 4 BEDROOMS = 460 GAL/DAY
 LOADING RATE = 0.61 GAL/SF/DAY (CAT. 1M SOIL)
 SQUARE FEET REQ'D = 460 / 0.61 = 755 SF
 GST 6218 LEACHFIELD: 24.8 SF/LF
 PRO. TWO 16' TRENCHES = 32 LF PROPOSED
 TOTAL AREA OF SYSTEM = 32 LF X 24.8 SF/LF = 793 SF > 755 SF REQ'D

SEV1			SEV2		
HORIZON	DEPTH	TEXTURE	HORIZON	DEPTH	TEXTURE
Ap	0-8"	SL	Ap	0-10"	SL
Bw	8-16"	SL	Bw	10-20"	CB, SL
C	16-108"	S	C	20-108"	VOB, S
		3			1M

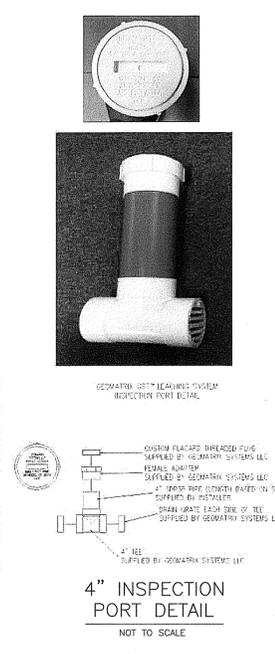
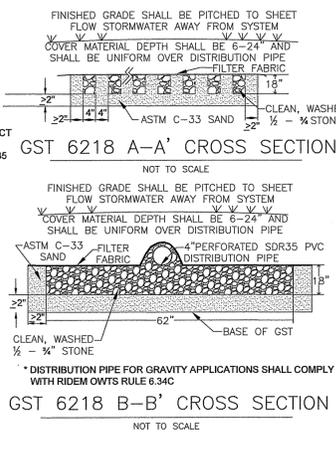
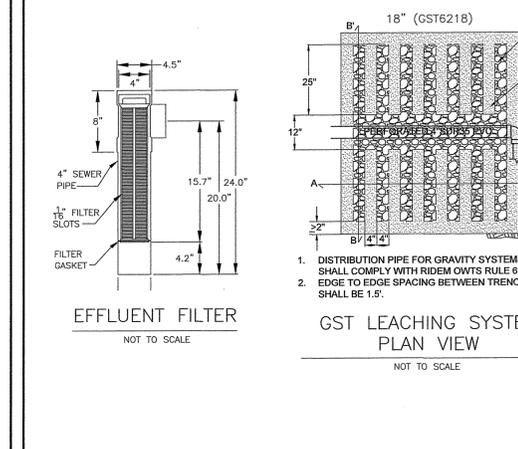
E.S.H.G.W.T. = 84" E.S.H.G.W.T. = 84"
 DESIGN LOADING RATE = 0.70 GAL/SF/DAY DESIGN LOADING RATE = 0.61 GAL/SF/DAY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 OWTS & FRESHWATER WETLANDS
 JOINT PERMIT APPROVAL

OWTS: 223-0597 PERMIT: 22-0028

APPROVED: [Signature] DATE: 3/26/23

No Changes Allowed Without RIDEM Approval
 Approved Plans/Permit Must Be Kept at Construction Site



GENERAL NOTES:

- THIS PLAN WAS PREPARED FOR RIDEM APPLICATION PERMIT ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER. THIS IS NOT THE BUILDING PERMIT PLOT PLAN.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "RULES" ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS, LATEST REVISION, AS REGULATED THROUGH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (THESE ARE REFERRED TO AS THE "RULES").
- THE PROPOSED ACTIVITIES (ARE ___) OR (ARE NOT ___) UNDER THE RHODE ISLAND COASTAL RESOURCE MANAGEMENT COUNCIL'S JURISDICTION.
- PUBLIC SEWERS (ARE ___) OR (ARE NOT ___) LOCATED WITHIN 200 FEET OF THE PROPERTY LINE.
- DRINKING WATER LINES (ARE ___) OR (ARE NOT ___) LOCATED WITHIN 50 FEET OF THE PROPOSED OWTS. ALL DRINKING WATER LINES WITHIN 50 FEET OF THE PROPOSED OWTS HAVE BEEN SHOWN, IF PRESENT.
- WATER SUPPLY IS BY PUBLIC WATER SYSTEM ___ OR PRIVATE WELL ___. THERE (ARE ___) OR (ARE NOT ___) EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS LOCATED WITHIN THE SPECIFIED SETBACK DETAILED IN TABLE 22.5 OF THE "RULES" + 100 FEET. IF WELL(S) ARE PRESENT, THEY HAVE BEEN SHOWN ON THE PLAN.
- THERE (ARE ___) OR (ARE NOT ___) EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100' OF THE OWTS. IF WELL(S) ARE PRESENT, THEY HAVE BEEN SHOWN ON THE PLAN.
- THERE (ARE ___) OR (ARE NOT ___) EXISTING AND PROPOSED PUBLIC DRINKING WATER SUPPLY WELLS WITHIN 500 FEET OF THE PROPOSED OWTS. IF WELL(S) ARE PRESENT, THEY HAVE BEEN SHOWN ON THE PLAN. THE TYPE OF PUBLIC WELL, IF PRESENT, IS NOTED NEXT TO THE WELL.
- THERE (ARE ___) OR (ARE NOT ___) WATER USES AND/OR WETLANDS WITHIN 200 FEET OF THE PROPOSED OWTS. IF PRESENT, THE LOCATIONS ARE SHOWN ON THE PLAN.
- THERE (ARE ___) OR (ARE NOT ___) STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS SAID DRAINS (DO NOT ___) OR (DO NOT ___) DISCHARGE DIRECTLY OR INDIRECTLY INTO A CRITICAL RESOURCE AREA AS IDENTIFIED IN RULE 38 OF THE "RULES".
- THE PROPOSED OWTS (IS ___) OR (IS NOT ___) LOCATED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY.
- THE PROPOSED OWTS (IS ___) OR (IS NOT ___) LOCATED WITHIN A CRITICAL RESOURCE AREA AS IDENTIFIED IN RULE 38 OF THE "RULES". THE DISTANCE TO THE NEAREST CRITICAL RESOURCE OF CONCERN IS ___/N/A___ FEET.
- THERE (ARE ___) OR (ARE NOT ___) EXISTING OWTS WITHIN 200 FEET OF ANY PROPOSED WELL. IF PRESENT, THE LOCATION AND SIZE HAS BEEN SHOWN ON THE PLAN.
- EXISTING OWTS WITH A DESIGN FLOW GREATER THAN 1,000 GAL/DAY (ARE ___) OR (ARE NOT ___) LOCATED WITHIN 400 FEET OF THE PROPOSED WELL. IF PRESENT, THE LOCATION AND SIZE HAS BEEN SHOWN ON THE PLAN.
- THERE (ARE ___) OR (ARE NOT ___) AREAS ON SUBJECT PROPERTY WHERE SOIL HAS BEEN EXCAVATED AND/OR WHERE STORM DEPOSITED MATERIAL HAS BEEN DEPOSITED.
- THE SUBJECT SITE LIES OUTSIDE OF ALL FLOODZONES AS SHOWN ON THE FLOOD INSURANCE RATE MAP NUMBER 440070165G, PANEL 165 OF 451 IN PROVIDENCE COUNTY, EFFECTIVE DATE MARCH 2, 2009.
- THE PROPOSED WELL, IF APPLICABLE, (DOES ___) OR (DOES NOT ___) MEET THE REQUIREMENTS OF RI GENERAL LAW 46-13.2-3, "DRILLING OF DRINKING WATER WELLS".
- THIS APPLICATION (IS ___) OR (IS NOT ___) PART OF A SUBDIVISION OF FIVE (5) LOTS OR LESS WITH EXISTING ROAD FRONTAGE.
- THE SUBJECT PROPERTY (IS ___) OR (IS NOT ___) SERVED WITH AN OWTS & PRIVATE WELL. THE NITROGEN LOADING RATE SHALL NOT EXCEED 345 GAL/DAY PER 20,000 SQUARE FEET OF PROPERTY WHEN SERVED WITH AN OWTS & PRIVATE WELL.
- THE CONTRACTOR SHALL STAKE AND FLAG TO PROTECT THE LEACHFIELD FROM VEHICLE TRAFFIC AND EXCESSIVE WEIGHT LOADS BEFORE AND DURING CONSTRUCTION OF THE OWTS AND THE STRUCTURE. FLAGGING SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES AT THE SITE ARE COMPLETE.

OWNER'S NOTES:

- FOOD/GARBAGE GRINDERS ARE PROHIBITED FROM BEING CONNECTED TO THE SEPTIC SYSTEM.
- VEHICLE PARKING OR TRAFFIC OVER THE SEPTIC TANK IS PROHIBITED.
- BACKWASH WATER FROM WATER TREATMENT SYSTEMS (IF INSTALLED) SHALL NOT BE DISCHARGED INTO THE SEPTIC SYSTEM.
- SEPTIC TANKS SHALL BE PUMPED OUT EVERY 24 MONTHS AND EFFLUENT FILTERS WASHED ANNUALLY UNLESS MAINTENANCE IS DETERMINED TO BE REQUIRED BY OPERATION AND MAINTENANCE PROVIDER OF THE OWTS SYSTEM.
- ONLY WASTEWATER AS DEFINED IN THE RIDEM OWTS REGULATIONS IS ALLOWED TO BE DISCHARGED INTO THE SEPTIC SYSTEM. ABSOLUTELY NO CHEMICALS, OILS, FATS, GREASE, OR PAINTS ARE ALLOWED. THIS IS NOT A GARBAGE DISPOSAL SYSTEM.
- BATTUES GREATER THAN 100 GALLONS ARE NOT ALLOWED IN THE HOUSE. NO TREES OR LARGE SHRUBS SHALL BE PLANTED WITHIN 10 FEET OF THE LEACHFIELD.
- NO SUBSURFACE DRAINS OR SUBIRRIGATORS SHALL BE INSTALLED WITHIN 50 FEET OF THE OWTS UNLESS IN ACCORDANCE WITH OWTS REGULATIONS.
- THE DESIGN INTENT IS TO MEET THE STATE STANDARDS. THE SYSTEM OPERATION IS DEPENDENT ON PROPER USAGE, AND ITS OPERATION IS NOT GUARANTEED BY THIS PLAN.

CONTRACTOR'S NOTES - CONSTRUCTION:

- NOTIFY ENGINEER 5 DAYS PRIOR TO START OF CONSTRUCTION.
- ENGINEER TO APPROVE BOTTOM OF LEACHFIELD BED PRIOR TO PLACEMENT OF SAND.
- SCAFFRY LEACHFIELD BOTTOM IMMEDIATELY PRIOR TO PLACEMENT OF SAND, NOT THE DAY BEFORE.
- ENGINEER TO INSPECT SEPTIC TANK PRIOR TO BACKFILLING. CONTRACTOR SHALL PROVIDE VACUUM TEST REPORT FROM TANK MANUFACTURER.
- ENGINEER TO INSPECT COMPLETED SYSTEM PRIOR TO BACKFILLING. FINE GRADE LEACHFIELD AND SEPTIC TANK AREA SO RUNOFF DOES NOT FLOW ONTO AREA FROM UPLAND AREAS DURING & AFTER CONSTRUCTION.
- ALL CONCRETE RISER SECTIONS SHALL BE MORTARED/SEALED WATER TIGHT TO TANK.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN FIELD AND DESIGN DATA SHOWN HERETO TO BE REPORTED TO THE ENGINEER.
- ANY DAMAGE OR DISTURBANCE OF LAND DUE TO CONSTRUCTION ACTIVITIES TO ADJUTING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR.

LEACHFIELD NOTES:

- BOTTOM OF BED ELEVATION REQUIRES FIELD APPROVAL BY ENGINEER & RIDEM.
- 5' PERIMETER STRIP: ALL ORGANIC HORIZONS AND A-HORIZONS LOCATED BELOW THE SYSTEM SHALL BE REMOVED AND REPLACED WITH SEPTIC GRAVE AS NECESSARY.
- ALL PIPING ON IN-DRAINS SHALL BE 4" DIA. SDR35 PERFORATED PVC.

SYNTHETIC FILTER FABRIC SPECIFICATION:

A LAYER OF NON-WOVEN SYNTHETIC FILTER FABRIC SHALL BE PLACED OVER ALL STONE USED IN THE OWTS CONSTRUCTION BEFORE BACKFILLING. THE FILTER FABRIC SHALL HAVE ADEQUATE TENSILE STRENGTH TO PREVENT RIPPING DURING INSTALLATION AND BACKFILLING, ADEQUATE AIR PERMEABILITY TO ALLOW FREE PASSAGE OF GASES, AND ADEQUATE PARTICLE RETENTION TO PREVENT DOWNWARD MIGRATION OF SOIL PARTICLES. MIRAFI 180N OR EQUAL.

ASTM C-33 SAND SPEC:

ASTM C-33 SAND SHALL MEET ASTM C-33 REQUIREMENTS AND ALSO THE FOLLOWING:

SIZE=0.02" TO 0.04"
 % PASS 200 SIEVE < 1.0%

SEPTIC GRAVEL SPECIFICATION:

GRAVEL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 3". UP TO 10% MAY BE SIZED BETWEEN 3/4" AND 3". GRAVEL SHALL MEET THE FOLLOWING:

SIEVE SIZE	% PASSING	SIEVE SIZE	% PASSING
3/4"	100%	#40	10%-50%
#4	55%-100%	#100	0%-20%
#10	40%-100%	#200	0%-2%

GROUND BREAKING DESIGNS, LLC

CIVIL ENGINEERING SOLUTIONS

90 HIGHLAND AVE., SOUTH KINGSTOWN, RI 02879 PHONE: (401) 622-2932

RIDEM APPLICATION PLAN

MATHIEU MINOR SUBDIVISION

OWTS PLAN

A.P. 16 LOT 141
 LONG ENTRY ROAD
 GLOCESTER, RHODE ISLAND 02814
 SCALE: AS SHOWN DATE: 01/18/23 SHEET 3 of 4

OWNER/APPLICANT
 PETER MATHIEU & RAYMOND FOGARTY
 TRUSTEES & DAHLQUIST FAMILY TRUST
 208 LONG ENTRY ROAD
 GLOCESTER, RI 02814

NO.	DATE	DESCRIPTION	BY
1.	3-14-23	REV. COMMENTS	DKM

REGISTRATION:

DAVID KENNETH MANION
 REGISTERED PROFESSIONAL ENGINEER
 (Civil)

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

1. THE "LOD" LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS
2. SILT SOCKS AND/OR SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SLOPES WITHIN THE LIMIT OF DISTURBANCE WITHIN THE VICINITY OF ANY WETLAND AREA; SEE THE PLAN FOR LOCATION OF SOIL EROSION CONTROL FENCES.
3. 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 DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED AND TO REMAIN IN NATURAL CONDITION.
4. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED.
5. ALL STRAW BALES, SILT SOCKS, SILT FENCES, TEMPORARY TREATMENT (STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
6. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLAND EDGES. THEY SHALL HAVE SIDE SLOPES OF NOT GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
7. THE EROSION CONTROL FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE THE EROSION CONTROL FENCE AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE EROSION CONTROL FENCE BECOMES FILLED WITH SEDIMENTS.
8. 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 ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE.
9. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (STRAW 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.
10. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", UPDATED 2016.
11. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS. REPLANTING, REGRADING, OR OTHER REPAIRS NEEDED AS A RESULT OF SOIL EROSION AND SEDIMENTATION PROCESSES SHALL BE COMPLETED PROMPTLY.

SITE PLAN NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
2. THE SUBJECT SITE LIES WITHIN "ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" AS PER THE FEMA FLOOD INSURANCE RATE MAP NUMBER 44007001796 PANEL 179 OF 451 IN PROVIDENCE COUNTY, RHODE ISLAND, EFFECTIVE DATE MARCH 2, 2009.

ESTABLISHMENT OF VEGETATIVE COVER:

1. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I. STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.
2. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
3. THE TOPSOIL SHALL HAVE A SANDY LOAM - SILT LOAM TEXTURE (SEE TOPSOIL SPEC.) RELATIVELY FREE OF ORGANIC MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATION M.20.
4. THE SEED MIX TO BE USED ON SLOPE APPROACHING WETLAND SHALL BE THE NEW ENGLAND CONSERVATION/WILDLIFE MIX FROM NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL APPLIED AT A RATE OF 25 LBS. PER ACRE AND MULCHED WITH STRAW.
5. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.

STORMWATER CALCULATIONS

(AS PER THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT AND THE RHODE ISLAND STORMWATER MANAGEMENT, DESIGN, AND INSTALLATION RULES)

TOPSOIL SPEC:

TOPSOIL SHALL MEET THE REQUIREMENT OUTLINED BELOW:

1. <10% ORGANIC MATTER
2. % PASS 10 SIEVE >95%
3. % PASS 200 SIEVE >30% & <70%
4. <20% SMALLER THAN .005 MM (CLAY PARTICLES)

PROPOSED RAIN GARDEN-1 SIZING:

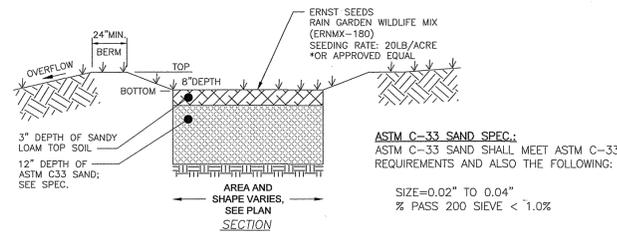
IMPERVIOUS AREA:
PART OF DRIVEWAY = 3,000 SF
PROPOSED 8"DEEP RAIN GARDEN
REQUIRED SURFACE AREA = 1000 x 80 = 240 SF
PROPOSED 15'x7.5'x8"DEEP GARDEN

PROPOSED RAIN GARDEN-2 SIZING:

IMPERVIOUS AREA:
PART OF DRIVEWAY = 8,000 SF
PROPOSED 8"DEEP RAIN GARDEN
REQUIRED SURFACE AREA = 1000 x 80 = 640 SF
PROPOSED 40'x16'x8"DEEP GARDEN

PROPOSED RAIN GARDEN-3 & 4 SIZING:

IMPERVIOUS AREA:
3 ROOF = 1,390 SF
PROPOSED 8"DEEP RAIN GARDEN
REQUIRED SURFACE AREA = 1000 x 80 = 112 SF
PROPOSED 15'x7.5'x8"DEEP GARDEN



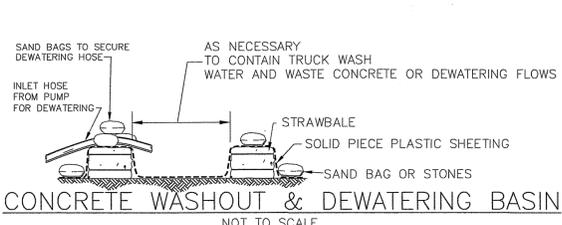
NOTES:

1. DO NOT COMPACT SOILS IN RAIN GARDEN AREA. TILL BOTTOM OF RAIN GARDEN PRIOR TO PLACEMENT OF SANDY LOAM TOPSOIL AND BIORETENTION SOIL TO PROMOTE GOOD INFILTRATION RATES.
2. FINE GRADE RAIN GARDEN SO IT HOLDS REQUIRED DEPTH OF RUNOFF PRIOR TO OVERFLOWING.
3. DIRECT IMPERVIOUS AREAS (TO THE MAXIMUM EXTENT POSSIBLE) TO FLOW INTO RAIN GARDEN.
4. PLACEMENT OF THE ASTM C33 SAND SHOULD BE IN LIFTS OF 6 INCHES, LOOSELY COMPACTED (TAMPED LIGHTLY WITH A BACKHOE BUCKET).
5. SURFACE OF RAIN GARDEN SHALL NOT BE MULCH OR ANY OTHER SURFACE PRONE TO FLOATING AWAY.

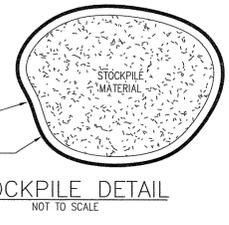
RAIN GARDEN MAINTENANCE:

1. SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDEN BED WHEN THE ACCUMULATION EXCEEDS 1".
2. WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHES SUBSTANTIALLY, THE TOP FEW INCHES OF MATERIAL SHALL BE REPLACED WITH FRESH MATERIAL.
3. DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, THE RAIN GARDEN SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0" TO ENSURE THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, INSPECTIONS SHALL BE CONDUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL TO 2.7" OF RAINFALL IN A 24-HOUR PERIOD.
4. PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
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. ANNUAL PLANTS MAY ALSO BE USED TO MAINTAIN GROUND COVER.

RAIN GARDEN DETAIL

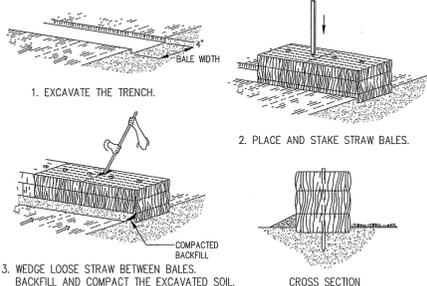


CONCRETE WASHOUT & DEWATERING BASIN
NOT TO SCALE



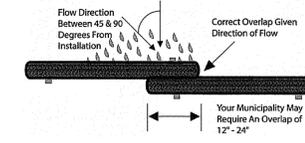
STOCKPILE DETAIL
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWRS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL
OWTS# 2213-0597 PERMIT 23-0028
APPROVED: [Signature] DATE 3/29/23
No Changes Allowed Without RIDER Approval
Approved Plans/Permit Must Be Kept at Construction Site

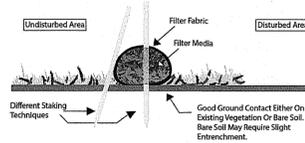


PLACEMENT AND CONSTRUCTION OF STRAWBALE EROSION CHECK
NOT TO SCALE

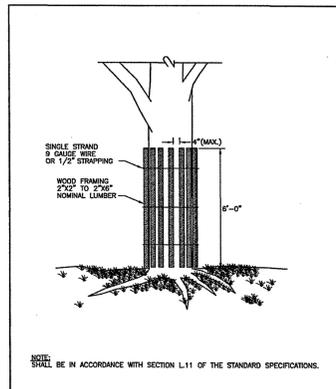
Correct Overlap Technique



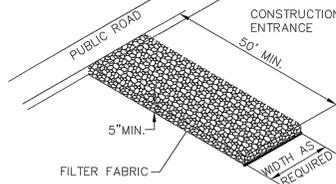
Silt Sock Installation



SILT SOCK DETAIL
NOT TO SCALE



TREE PROTECTION DEVICE
R.I. STANDARD 51.1.0



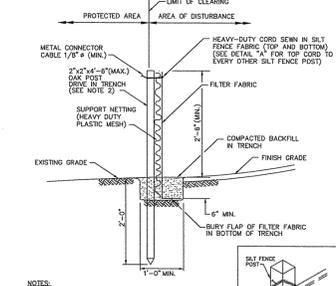
MATERIALS SIZE

SQUARE MESH SIEVES	2" CRUSHED STONE OR GRAVEL	ASTM C-33 NO. 2	ASTM C-33 NO. 3
	% FINER	% FINER	% FINER
2-1/2 INCHES	100	90-100	90-100
2 INCHES	95-100	35-70	90-100
1-1/2 INCHES	30-55	0-15	35-70
1-1/4 INCHES	0-25	-	-
1 INCH	0-5	-	0-15
3/4 INCH	-	0-5	-
1/2 INCH	-	-	-
3/8 INCH	-	-	-

NOTE: STABILIZATION PAD TO BE IN CONFORMANCE WITH STANDARDS SET FORTH IN THE "RHODE ISLAND GUIDELINES FOR SOIL & SEDIMENT CONTROL".

CONSTRUCTION ACCESS

SCALE: NOT TO SCALE



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCKED TO 1/2" (MAX.) O.C. IN WETLAND AREAS AND 4" (MAX.) O.C. IN WETLAND RAINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4" (MAX.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

SILT FENCE DETAIL
R.I. STANDARD 9.2.0

RIDEM APPLICATION PLAN
MATHIEU MINOR SUBDIVISION
DETAIL SHEET
A.P. 16 LOT 141
LONG ENTRY ROAD
GLOUCESTER, RHODE ISLAND 02814
SCALE: AS SHOWN DATE: 01/18/23 SHEET 4 of 4

OWNER/APPLICANT
PETER MATHIEU & RAYMOND FOGARTY
TRUSTEES & DAHLQUIST FAMILY TRUST
208 LONG ENTRY ROAD
GLOUCESTER, RI 02814

REVISIONS:

DATE	DESCRIPTION	BY
3-14-23	DKM	DKM

REGISTRATION:
DAVID KENNETH MANONI
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)

GROUND BREAKING
DESIGNS, LLC
CIVIL ENGINEERING SOLUTIONS
90 HIGHLAND AVE., SOUTH KINGSTOWN, RI 02879 • PHONE: (401) 622-2932