

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

RIDEM SUBMISSION

FOR

AP 10E LOT 44

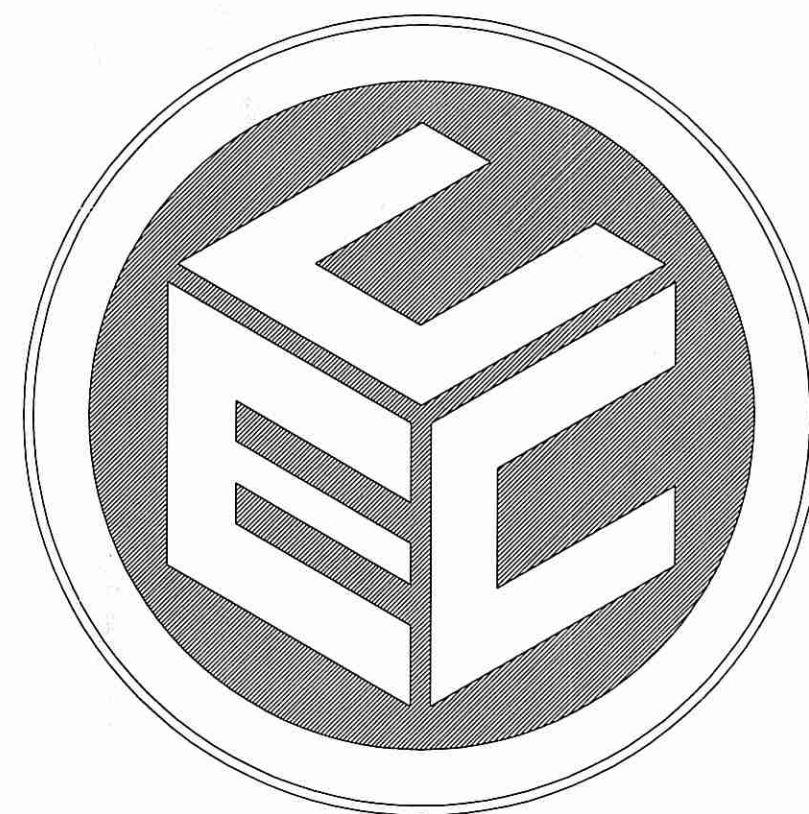
#25 KENYON SCHOOL ROAD

in

RICHMOND, RHODE ISLAND

APPLICANT/OWNER

WILLIAM BARNEY
P.O. BOX 186
PEACEDALE, RI 02883



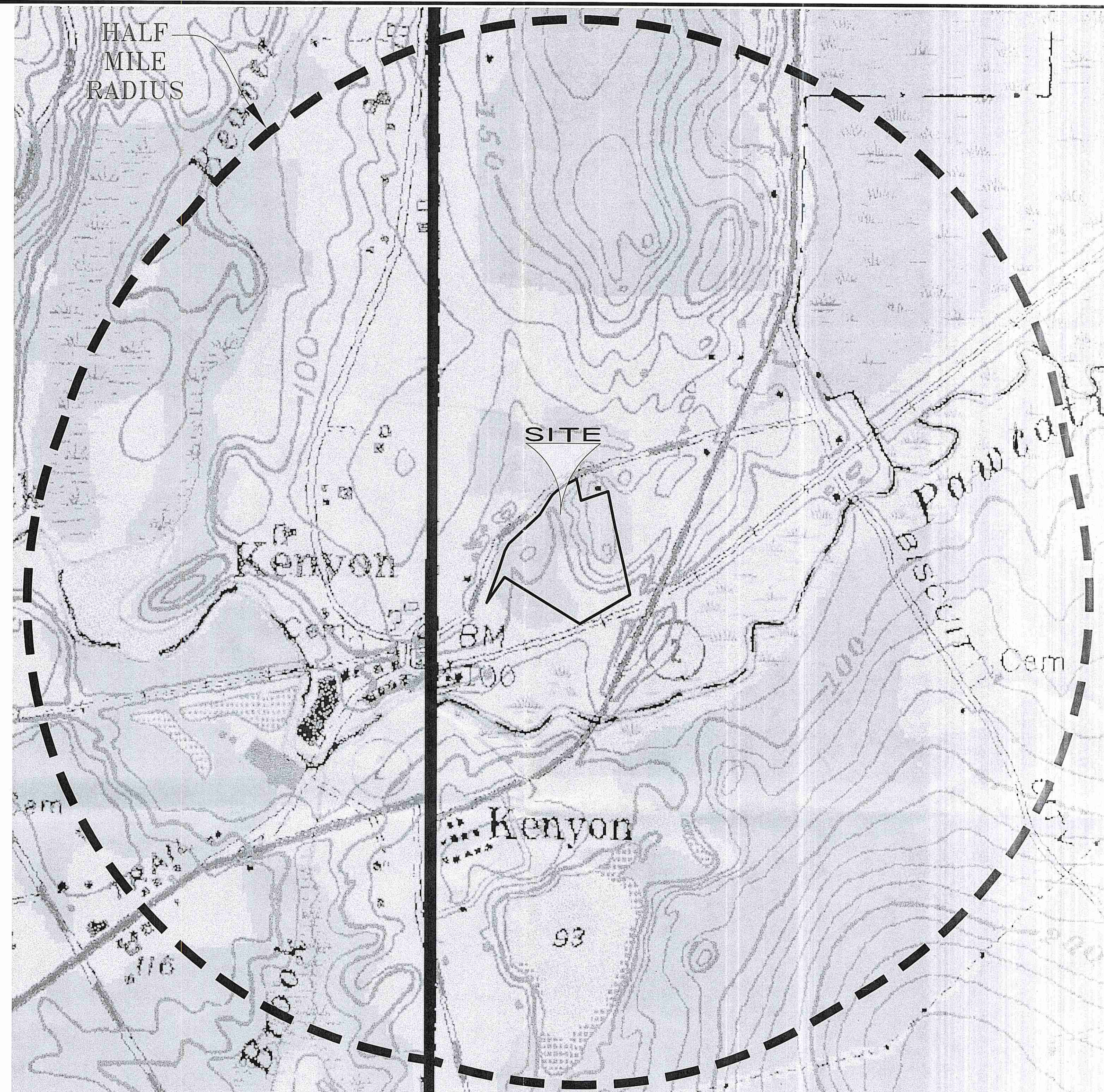
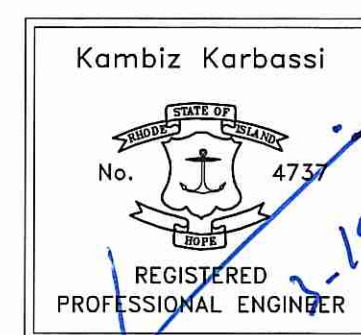
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 11 2014 FILE # 14-0066
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Michael A. Fontaine

PREPARED BY:
COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
(401) 273-6600

DATE: MARCH 12, 2014



USGS MAP
SCALE: 1"=400'±

LIST OF DRAWINGS

- TITLE SHEET
- EXISTING CONDITIONS AND SOILS PLAN
- SITE PLAN
- CONSTRUCTION DETAILS

PROJECT DATA:

STREET INDEX: KENYON SCHOOL ROAD
SOUTH COUNTY TRAIL (RI RTE. 2)

ASSESSORS REFERENCE

A.P. 10E LOT 44 - AREA=383,876± S.F. (8.81± ACRES)

ZONING REFERENCE: R2

TOWN OF RICHMOND ZONING ORDINANCE
TABLE 18.20.010 - DIMENSIONAL REGULATIONS FOR R2

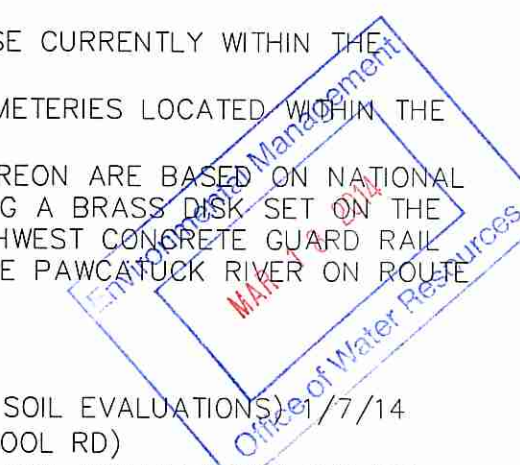
MINIMUM LOT SIZE (SINGLE-FAMILY)	2 ACRES
MINIMUM LOT SIZE (TWO-FAMILY)	3 ACRES
LOT FRONTAGE (SINGLE-FAMILY)	200'
LOT FRONTAGE (TWO-FAMILY)	250'
FRONT YARD	50'
REAR YARD	100'
SIDE YARD	35'
MAX. BUILDING COVERAGE	10%
MAX. BUILDING HEIGHT	35'

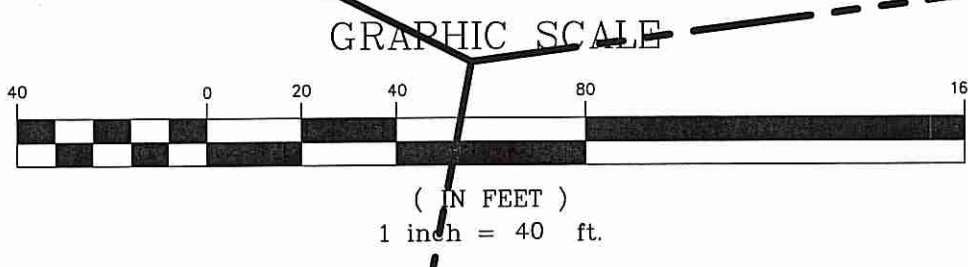
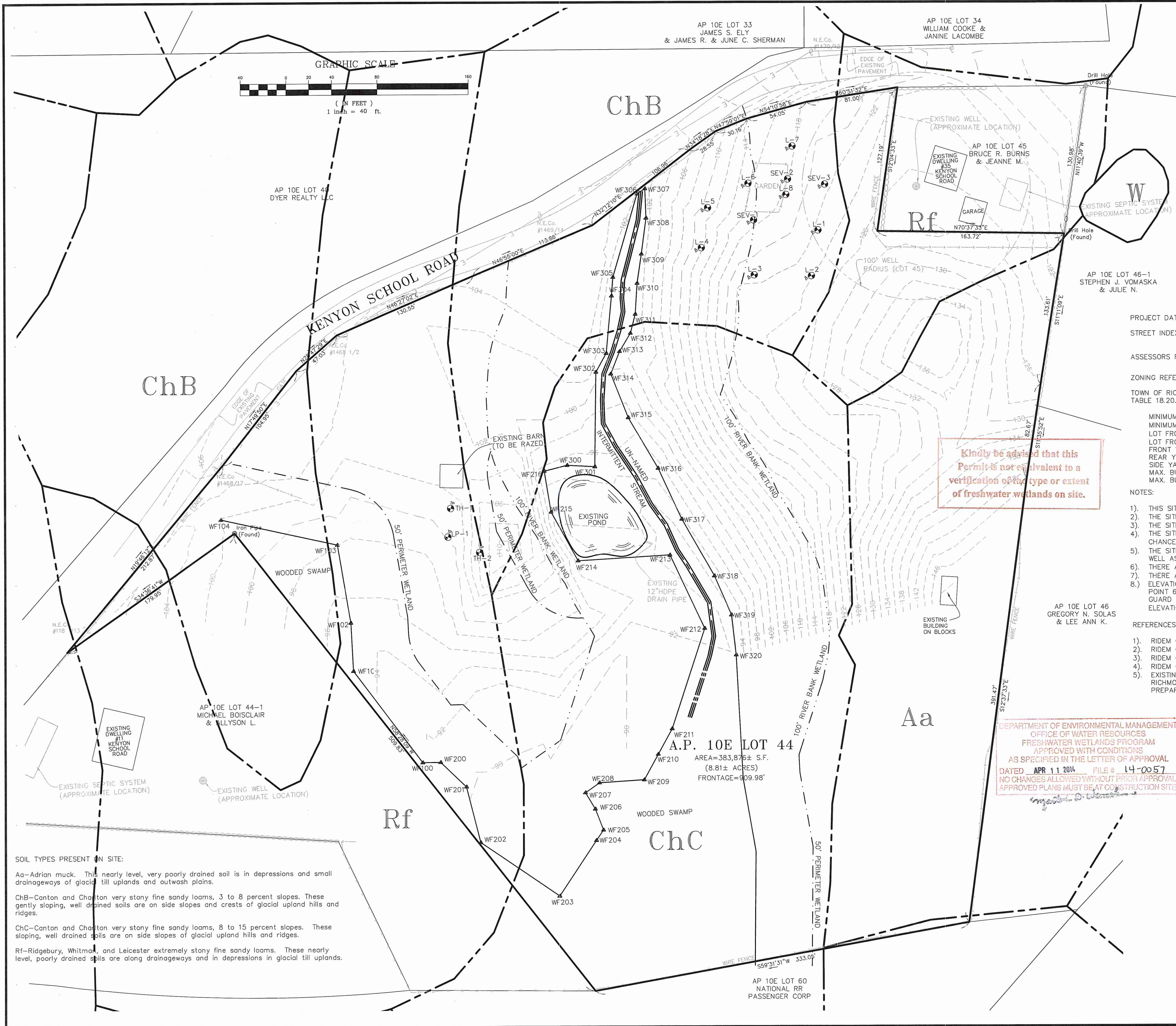
NOTES:

- THIS SITE IS PARTIALLY LOCATED WITHIN A TOWN OF RICHMOND AQUIFER OVERLAY DISTRICT.
- THE SITE IS PARTIALLY LOCATED WITHIN A TOWN OF RICHMOND COMMUNITY WELLHEAD PROTECTION AREA.
- THE SITE IS PARTIALLY LOCATED WITHIN A TOWN OF RICHMOND GROUNDWATER RECHARGE AREA.
- THE SITE IS LOCATED WITHIN FLOOD ZONE X - AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN AS SHOWN ON FIRM 44009C0178H EFFECTIVE DATE: 10/19/10.
- THE SITE GROUND COVER CONSISTS OF OVERGROWN PASTURE, ISOLATED DECIDUOUS FOREST AREAS AS WELL AS A POND AND INTERMITTENT STREAM THROUGH THE PROPERTY.
- THERE ARE NO AREAS OF AGRICULTURAL USE CURRENTLY WITHIN THE PROPERTY LIMITS.
- THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES LOCATED WITHIN THE PROPERTY LIMITS.
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- REFERENCES:
- RIDEM OWTS #1329-1576 (LOT 44 (SOUTH) SOIL EVALUATIONS) 7/7/14
 - RIDEM OWTS #1129-1362 (#35 KENYON SCHOOL RD)
 - RIDEM OWTS #0429-0164 (LOT 44 (NORTH) SOIL EVALUATIONS) 2/4/04 & 4/12/06
 - RIDEM OWTS #0429-0164 (#11 KENYON SCHOOL RD)
 - EXISTING CONDITIONS SURVEY A.P. "10E", LOT 44 KENYON SCHOOL ROAD RICHMOND, RHODE ISLAND PREPARED FOR MR. WILLIAM R. BARNEY DATE: 01-14-14 PREPARED BY MICHAEL A. FONTAINE, P.L.S.

CE&C PROJECT NO. 13035.00





PROJECT DATA:
STREET INDEX: KENYON SCHOOL ROAD
SOUTH COUNTY TRAIL (RI RTE. 2)

LOCUS MAP
SCALE: 1"=2,000'

ASSESSORS REFERENCE:
A.P. 10E LOT 44

ZONING REFERENCE: R2

TOWN OF RICHMOND ZONING ORDINANCE
TABLE 18.20.010 - DIMENSIONAL REGULATIONS FOR R2

LEGEND

- EXISTING PROPERTY PERIMETER
- EXISTING STONE WALL
- x-x- EXISTING FENCE LINE
- - - EXISTING CONTOUR LINE
- EXISTING SOIL TYPE
- EXISTING WETLAND
- WF100 EXISTING ABUTTER LINE
- EXISTING TEST HOLE
- EXISTING UTILITY POLE
- - - EXISTING OVERHEAD WIRES

MINIMUM LOT SIZE (SINGLE-FAMILY)	2 ACRES
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LOT FRONTAGE (SINGLE-FAMILY)	200'
LOT FRONTAGE (TWO-FAMILY)	250'
FRONT YARD	50'
REAR YARD	100'
SIDE YARD	35'
MAX. BUILDING COVERAGE	10%
MAX. BUILDING HEIGHT	35'

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- REFERENCES:**
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OWNER/APPLICANT:
WILLIAM BARNEY
PO BOX 186
PEACE DALE, RI 02883

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 11 2014 FILE # 14-0057
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EXISTING CONDITIONS & SOILS PLAN

Kambiz Karbassi
No. 4737
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-6600

REVISIONS

No.	DATE	DRWN	CHKD

RIDEM SUBMISSION
for
A.P. 10E LOT 44
25 KENYON SCHOOL ROAD
in
RICHMOND, RHODE ISLAND

SCALE: 1"=40'	SHEET NO: 2 OF 4
DRAWN BY: JP	DESIGN BY: JP
DATE: 03/12/14	CHECKED BY: KK
PROJECT NO.: 13035.00	

SOIL TYPES PRESENT ON SITE:

Aa-Adrian muck. This nearly level, very poorly drained soil is in depressions and small dragaways of glacial till uplands and outwash plains.

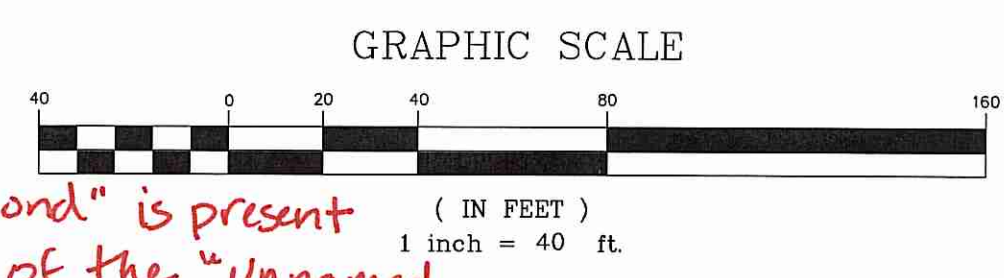
ChB-Canton and Charlton very stony fine sandy loams, 3 to 8 percent slopes. These gently sloping, well drained soils are on side slopes and crests of glacial upland hills and ridges.

ChC-Canton and Charlton very stony fine sandy loams, 8 to 15 percent slopes. These sloping, well drained soils are on side slopes of glacial upland hills and ridges.

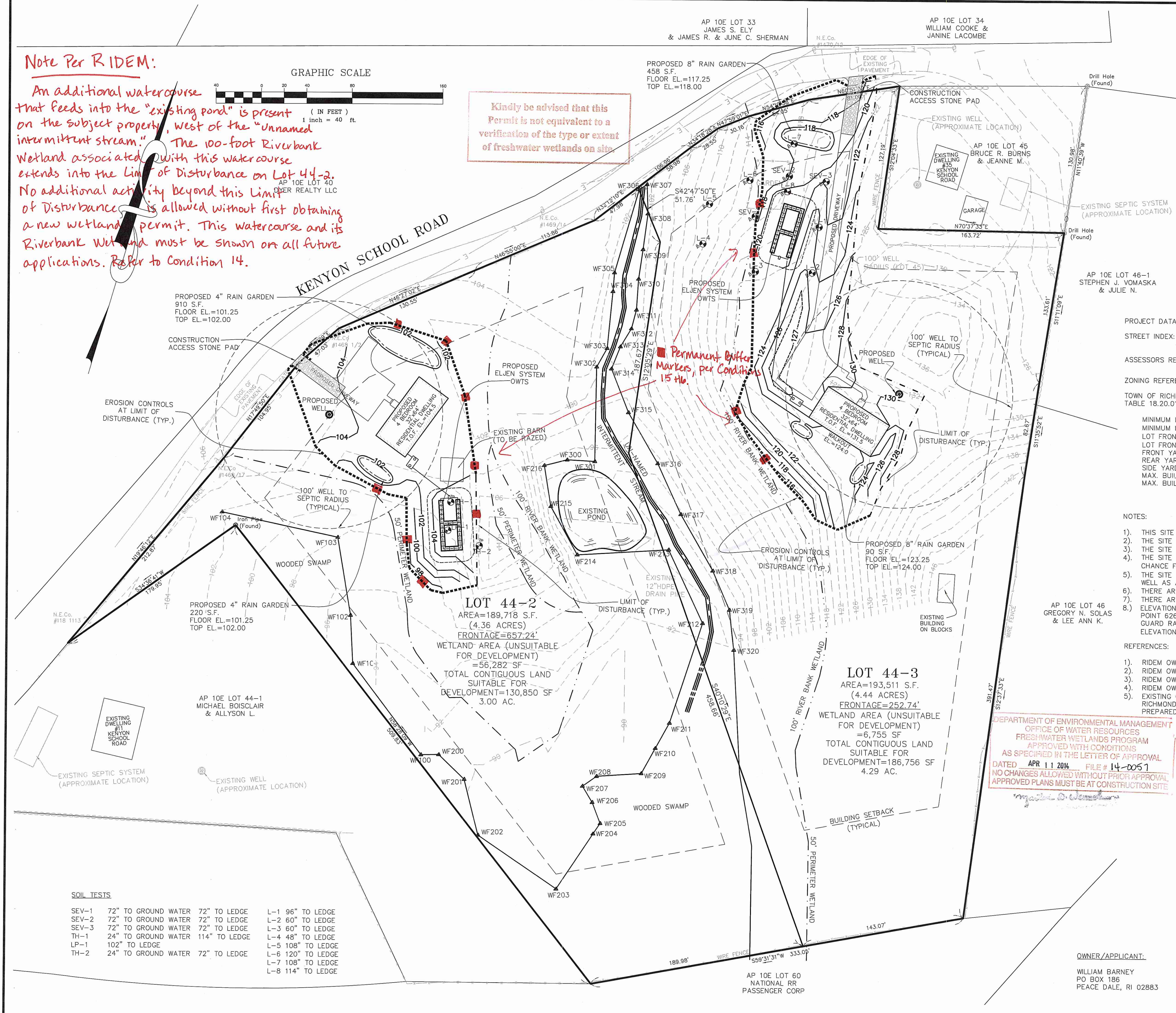
Rf-Ridgebury, Whitman, and Leicester extremely stony fine sandy loams. These nearly level, poorly drained soils are along dragaways and in depressions in glacial till uplands.

Note Per RIDEM:

An additional watercourse that feeds into the "existing pond" is present on the subject property, west of the "unnamed intermittent stream." The 100-foot Riverbank Wetland associated with this watercourse extends into the Limit of Disturbance on Lot 44-2. No additional activity beyond this Limit of Disturbance is allowed without first obtaining a new wetland permit. This watercourse and its Riverbank Wetland must be shown on all future applications. Refer to Condition 14.



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 A.P. 10E LOT 44
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TOWN OF RICHMOND ZONING ORDINANCE:
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LEGEND

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- EXISTING STONE WALL
- EXISTING FENCE LINE
- EXISTING CONTOUR LINE
- EXISTING SOIL TYPE
- WF100
- EXISTING ABUTTER LINE
- EXISTING TEST HOLE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD WIRES
- 116
- PROPOSED CONTOUR
- MAXIMUM LIMIT OF DISTURBANCE
- EROSION CONTROL LINE

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SOIL TESTS

SEV-1	72" TO GROUND WATER	72" TO LEDGE	L-1	96" TO LEDGE
SEV-2	72" TO GROUND WATER	72" TO LEDGE	L-2	60" TO LEDGE
SEV-3	72" TO GROUND WATER	72" TO LEDGE	L-3	60" TO LEDGE
TH-1	24" TO GROUND WATER	114" TO LEDGE	L-4	48" TO LEDGE
LP-1	102" TO LEDGE		L-5	108" TO LEDGE
TH-2	24" TO GROUND WATER	72" TO LEDGE	L-6	120" TO LEDGE
			L-7	108" TO LEDGE
			L-8	114" TO LEDGE

Kambiz Karbassi
 No. 4737
 REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
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RIDEM SUBMISSION
 for
A.P. 10E LOT 44
25 KENYON SCHOOL ROAD
 in
 RICHMOND, RHODE ISLAND

SCALE: 1"=40' SHEET NO: 3 OF 4
 DRAWN BY: JP DESIGN BY: JP CHECKED BY: KK
 DATE: 03/12/14 PROJECT NO.: 13035.00

OWNER/APPLICANT:
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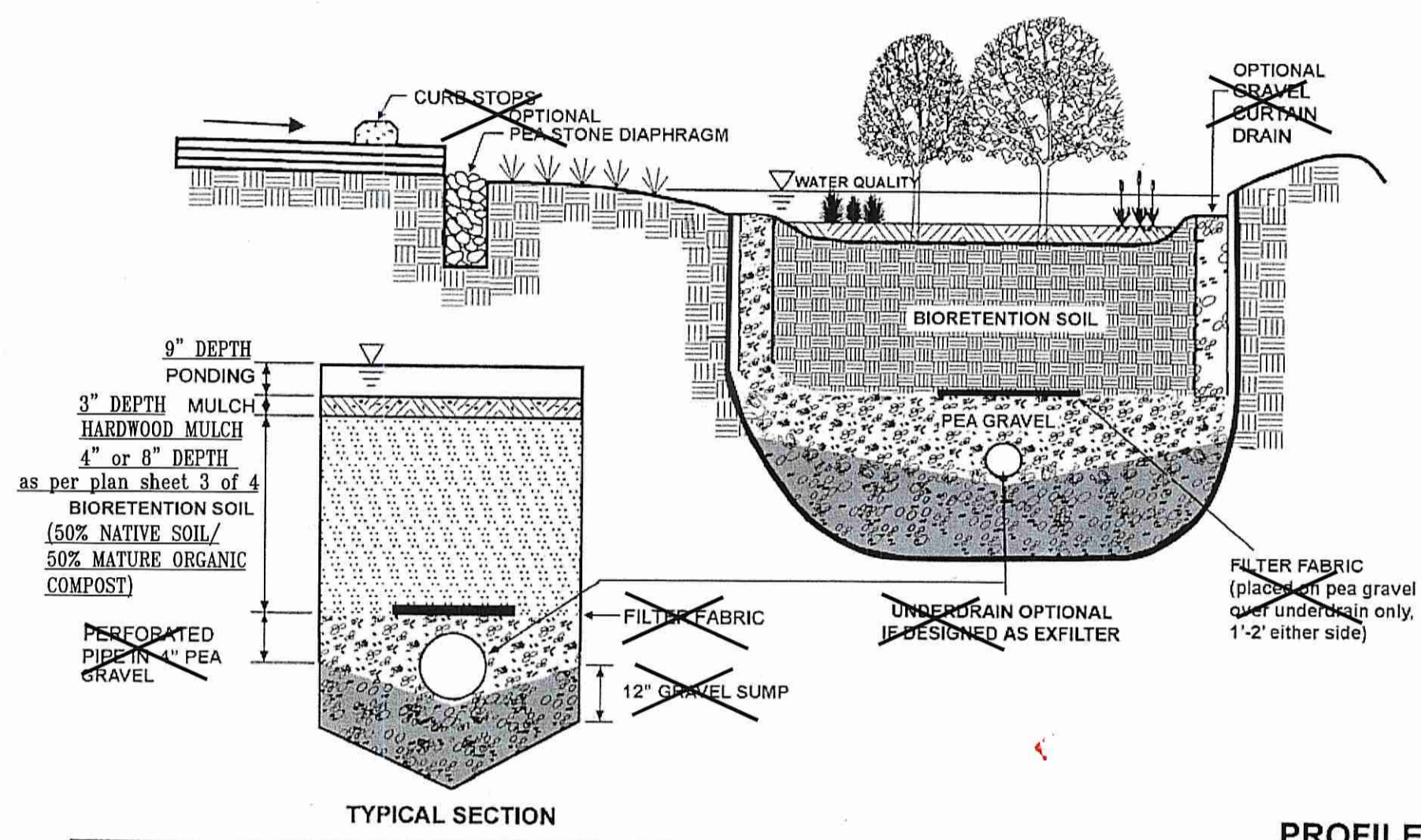
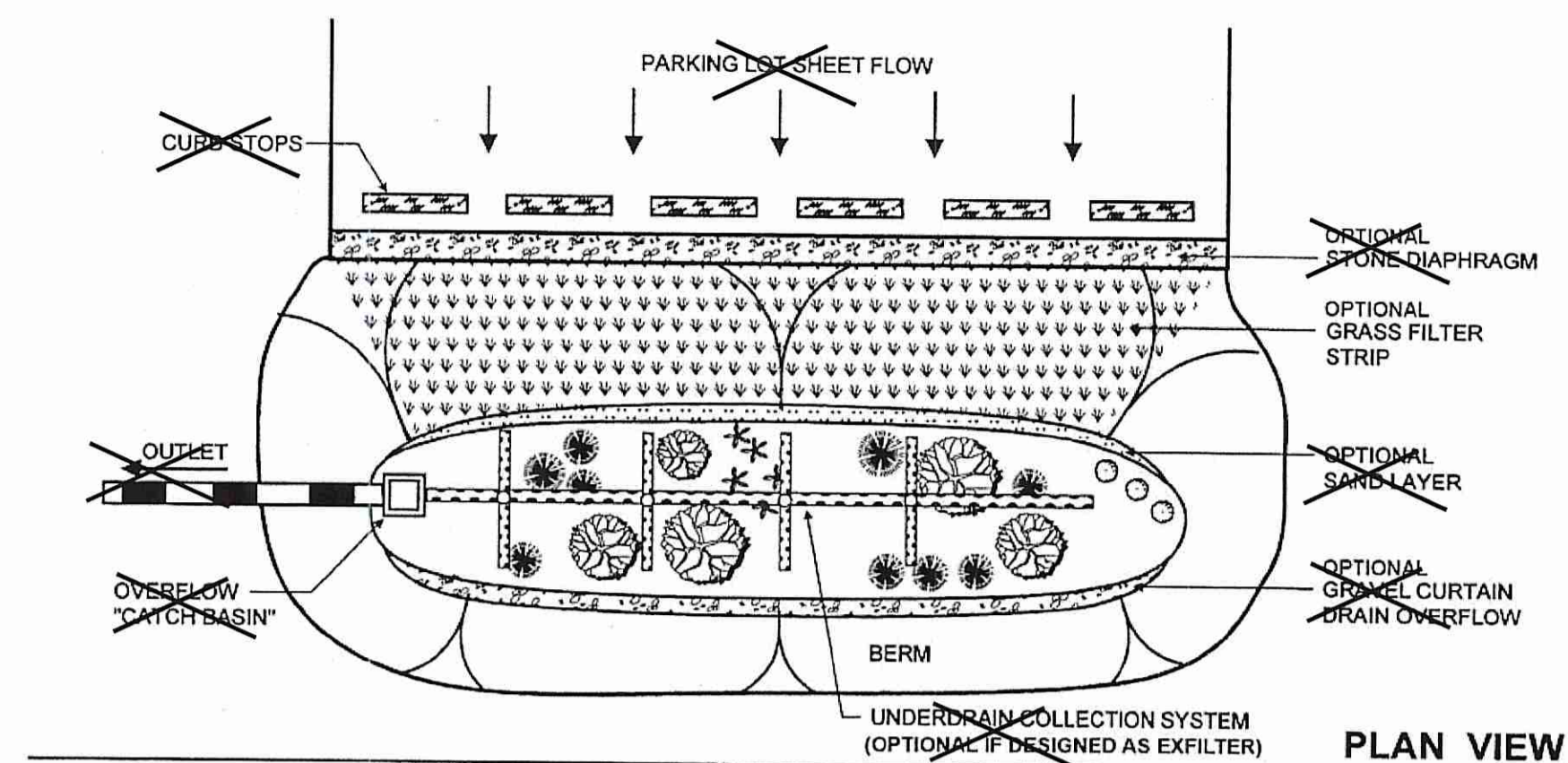
EROSION CONTROL & SOIL STABILIZATION PROGRAM

- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE, FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STD SPECIFICATION M 20.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:

MIXTURE:	% BY WEIGHT:	SEEDING DATES:
RED FESCUE	75	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUGUST 15 - OCTOBER 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	5	
TOTAL:	100 lbs./Ac.	
- UNMOWED AREA OR INFREQUENTLY MOWED (SLOPES GREATER THAN 3:1)

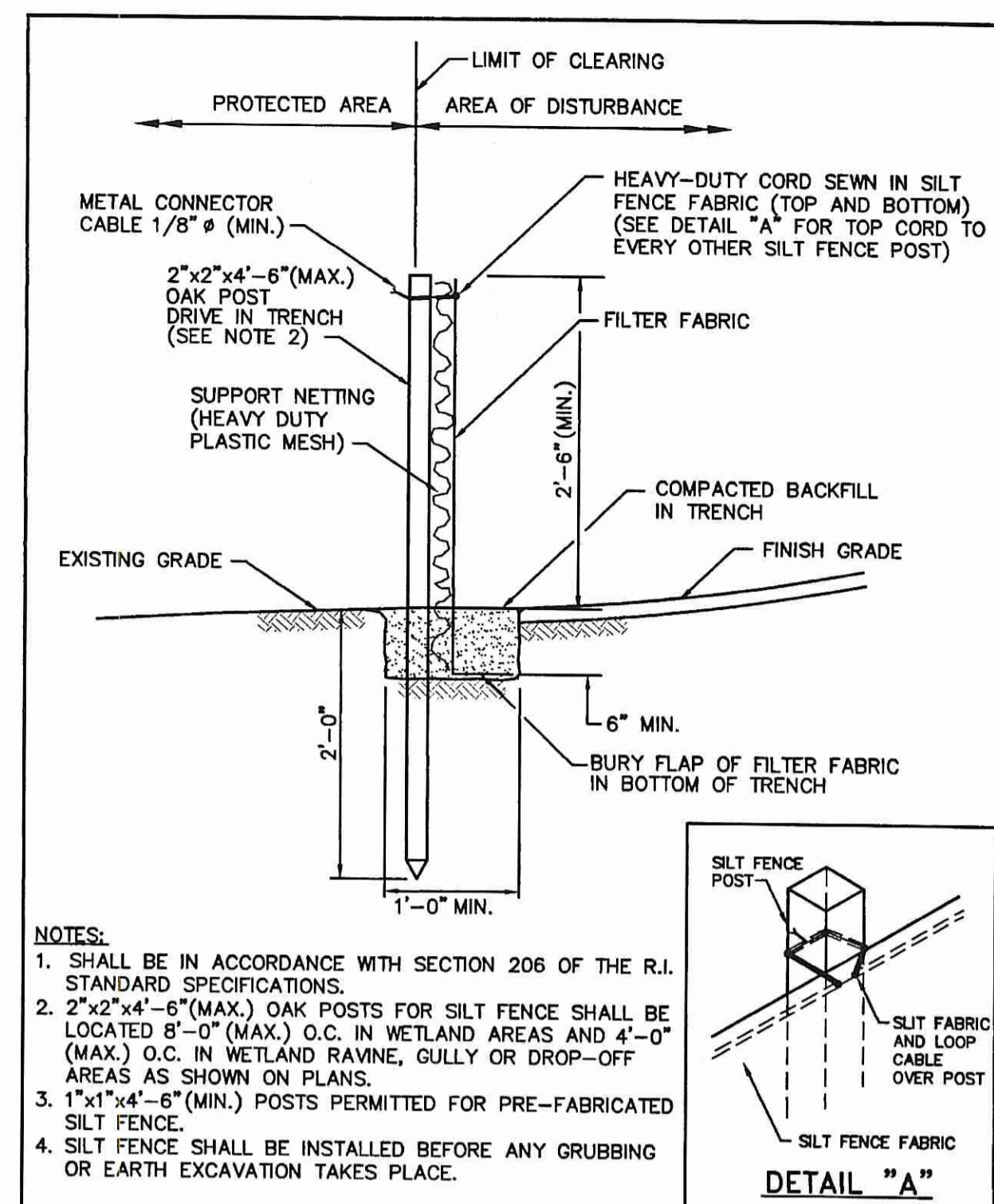
MIXTURE:	% BY WEIGHT:	SEEDING DATES:
RED FESCUE	75	APRIL 1 - JUNE 15
COLONIAL BENTGRASS	5	AUGUST 15 - OCTOBER 15
PERENNIAL RYEGRASS	5	
BIRDSFOOT TREFLOIL	15	
TOTAL:	100 lbs./Ac.	
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 lbs./Ac.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP MINIMIZE THE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

MIXTURE:	lbs./1,000 S.F.	lbs./Ac.	SEEDING DATES:
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	3.0	120	4/15 - 6/15
GATS	0.5 - 5.0	86 - 120	3/1 - 6/15
WEeping COVERGRASS	0.5 - 5.0	5 - 20	3/1 - 7/1
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOPE WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD SPECIFICATIONS SECTION 202.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS, THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
- ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHALL BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.
- THE DRAINAGE SYSTEM SHALL RECEIVE ONE FINAL CLEANING PRIOR TO ACCEPTANCE TO THE OVERALL PROJECT BY THE OWNER SEDIMENTS SHALL BE DISPOSED OF IN A PROPER MANNER.



RAINGARDEN/BIORETENTION DETAIL

(NOT TO SCALE)



- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - 2"x2"x4"-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 - 1"x1"x4"-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

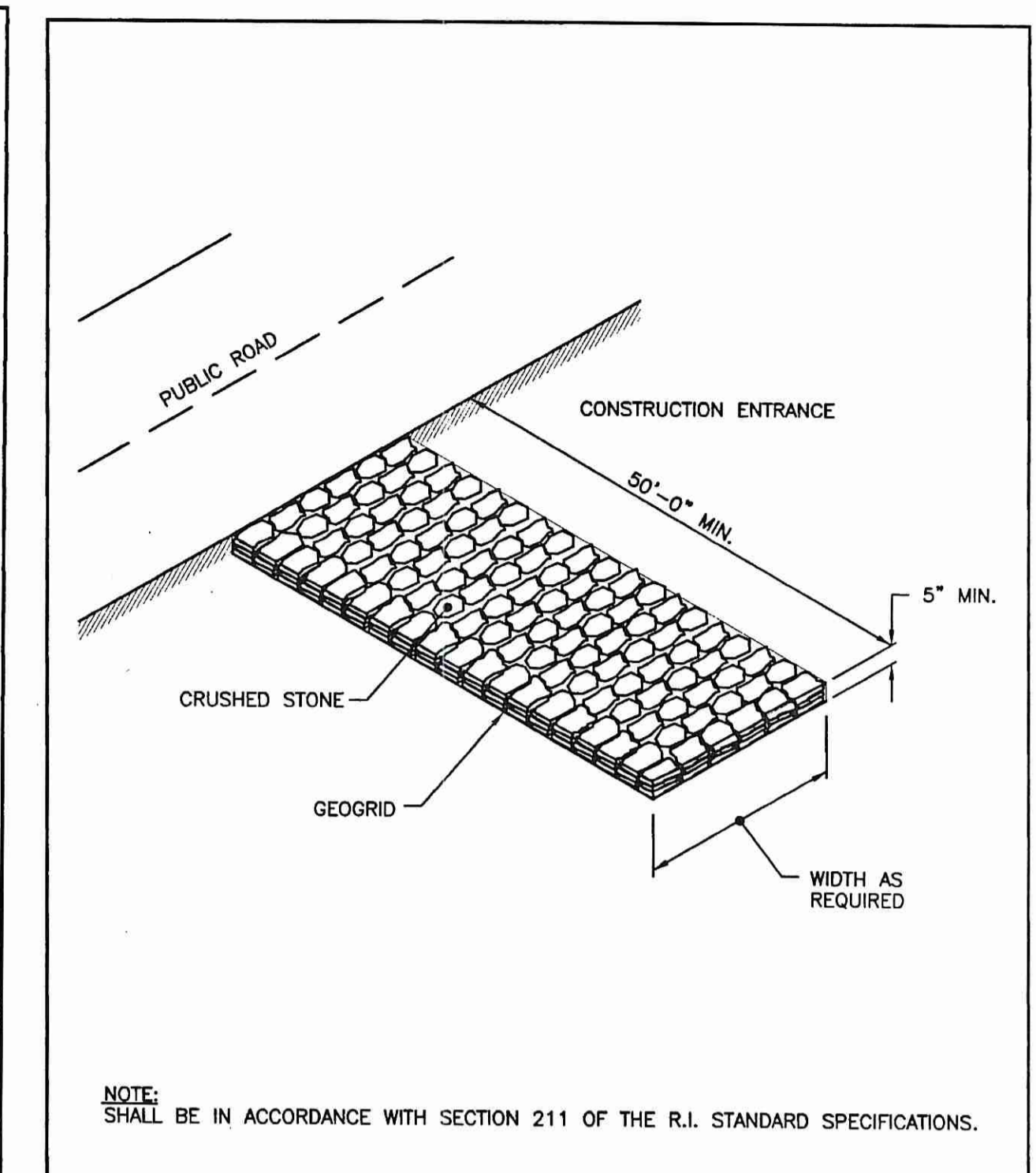
SILT FENCE DETAIL

NO. BY DATE

REVISIONS

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 9.2.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONSTRUCTION ACCESS

NO. BY DATE

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 9.9.0

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SEDIMENTATION CONTROL PROGRAM:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL ENTERING THE WETLANDS.
- ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL BE SEEDED AND PROTECTED WITH A FIBER MULCH.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHOULD BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
- ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT.
- ALL SEDIMENTS SHALL BE REMOVED FROM THE DRAINAGE AND DETENTION FACILITIES AS SCHEDULED FOR EACH FACILITY (SEE RAINGARDEN/BIORETENTION MAINTENANCE, THIS SHEET).
- REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, LATEST REVISION, AS A GUIDE.

RAINGARDEN/BIORETENTION MAINTENANCE:

- Rain gardens shall be inspected following at least the first two precipitation events of at least 1.0 inch to ensure that the system is functioning properly. Thereafter, the rain garden shall be monitored and maintained to assure proper functioning, plant growth and survival. Plants shall be replaced on an as-needed basis during the growing season.
- Silt/sediment shall be removed from the rain garden when the accumulation exceeds one inch, or when water ponds on the surface of the rain garden for more than 48 hours. The top few inches of material shall be removed and shall be replaced with fresh soil mixture and mulch.
- Pruning or replacement of woody vegetation shall occur when dead or dying vegetation is observed.
- Soil erosion gullies shall be repaired when they occur.
- Fertilizer or pesticides shall not be applied to plants within rain gardens.
- Perennial plants and ground covers shall be replaced as necessary to maintain an adequate vegetated ground cover.
- The party responsible for maintenance of the rain garden is the individual property owner.

PLANT LIST - Bioretention Seed Mix: 1,485 sf

BOTANICAL NAME	COMMON NAME	QTY.
PERENNIALS		
<i>Asclepias tuberosa</i>	Butterfly Milkweed	0.02 lb
<i>Baptisia australis</i>	Blue False Indigo	0.04 lb
<i>Echinacea purpurea</i>	Purple Cone Flower	0.10 lb
<i>Eupatoriadelphus maculatus</i>	Spotted Joe Pye Weed	0.01 lb
<i>Eupatorium perfoliatum</i>	Boneset	0.01 lb
<i>Eupatorium purpureum</i>	Purple Joe Pye Weed	0.01 lb
<i>Rudbeckia fulgida 'Goldstrum'</i>	Orange Coneflower	0.03 lb
<i>Senna hebecarpa</i>	American Senna	0.03 lb
<i>Symphotichum novae-angliae</i>	New England Aster	0.03 lb
<i>Solidago sempervirens</i>	Seaside Goldenrod	0.02 lb
GRASSES		
<i>Andropogon gerardii</i>	Big Bluestem	0.10 lb
<i>Carex stricta</i>	Tussock Sedge	0.01 lb
<i>Panicum virgatum</i>	Switchgrass	0.10 lb
<i>Schizachyrium scoparium</i>	Little Bluestem	0.49 lb

SEEDING NOTE:
Mix shall be applied at 20 lbs./acre or 0.5 lbs./1000 square feet.
A cover crop of 30 lbs/acre or 0.7 lbs/1000 square feet of grain oats if seeding is done in the spring.

DETAILS

Kambiz Korbassi
No. 14757
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-6600

RIDEM SUBMISSION
for
"KENYON SCHOOL TERRACE"
A.P. 10E LOT 44
25 KENYON SCHOOL ROAD
in
RICHMOND, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 4 OF 4
DRAWN BY: JP DESIGN BY: JAR CHECKED BY: KK
DATE: 3/12/14 PROJECT NO.: 13035.00