



LOCUS MAP
NOT TO SCALE



Permit Set
FOR
Pariseau Major Subdivision

LOCATED ON
Gardiner Road
Richmond, RI
Owner/Applicant
Ronald M. & Susan C. Pariseau
254 B Gardiner Road
Richmond, RI 02892
AP 4E, Lot 5
LOT AREA = 20.92 Acres

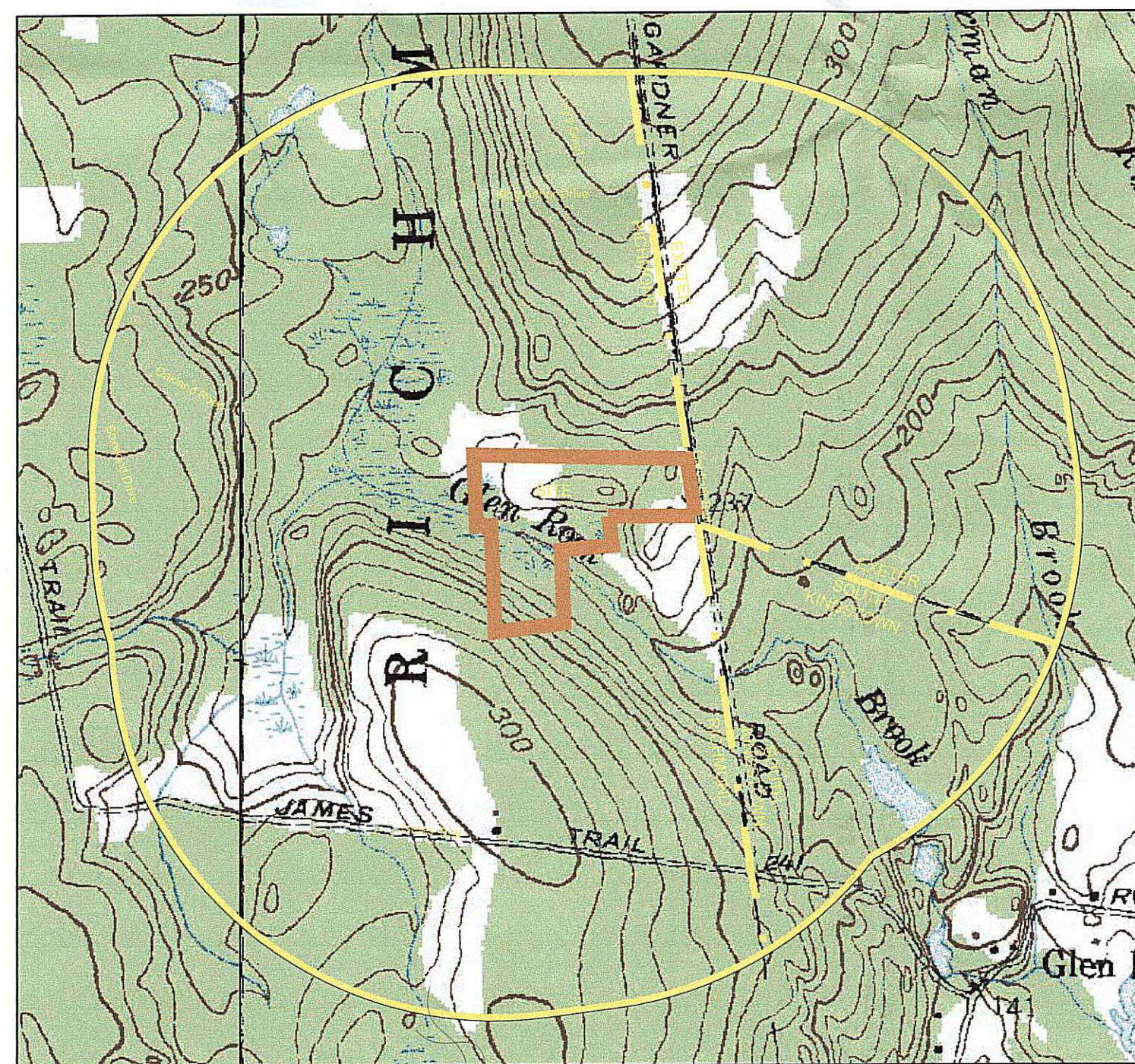
AND
Owner
Michael A. & Regina A. Maher
254 A Gardiner Road
Richmond, RI 02892
AP 4F, Lot 3-72
LOT AREA = 3.16 Acres
PROPOSED LOT AREA = 4.26 Acres

TOTAL PROJECT AREA = 24.08± Acres

PARCEL ZONING: R-2
MINIMUM LOT SIZE - 2 ACRES
MINIMUM STREET FRONTAGE - 200'
MINIMUM FRONT SETBACK - 50'
MINIMUM SIDE SETBACK - 35'
MINIMUM REAR SETBACK - 100'

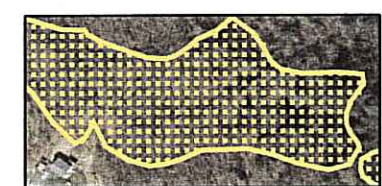
NOTES:

1. THERE ARE 2 EXISTING LOTS, EACH WITH A DWELLING.
2. THERE IS ONE ADDITIONAL LOT PROPOSED FOR A TOTAL OF 3 LOTS.
3. THE 2 EXISTING LOTS ARE PARTIALLY DEVELOPED WITH LANDSCAPED LAWNS AND THE PROPOSED ADDITIONAL LOT IS UNDEVELOPED AND PRIMARILY WOODED.
4. THERE ARE NO AREAS OF AGRICULTURAL USE.
5. EACH LOT WILL BE SERVED BY PRIVATE WELL.
6. EACH LOT WILL HAVE AN ONSITE WASTEWATER TREATMENT SYSTEM.
7. THIS PROPOSED SUBDIVISION IS NOT LOCATED WITHIN THE FOLLOWING AREA:
-GROUNDWATER PROTECTION OVERLAY DISTRICT.
8. THIS PROPOSED SUBDIVISION IS LOCATED WITHIN THE FOLLOWING AREA:
-NATURAL HERITAGE DISTRICT (Partially)
9. NO HISTORIC CEMETERIES HAVE BEEN OBSERVED ON THIS SITE.



USGS OVERALL VIEW
SCALE: 1" = 1000'

LEGEND

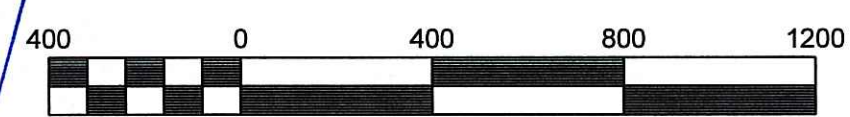


RIDEM Wetland Areas



1/2 MILE RADIUS - SITE CONTEXT MAP

FEMA DETERMINATION
ZONE "C" - AREA OF MINIMAL FLOODING
PANEL NO. - 440031 0010 B
REVISED - November 5, 1980



Scale 1" = 400'

OFFICE OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 10-0208
DATED DEC - 2 2010
SEE LETTER OF SAME DATE.

Sheet Index: *W. Joseph Conroy*

1. Site Context Map
2. Existing Conditions Map
3. Subdivision Plan
4. Overall Proposed Conditions Plan
5. Detailed Proposed Conditions Plan
6. Soil and Erosion Control Plan

SITE CONTEXT MAP

FOR
Pariseau Major Subdivision
LOCATED AT
254 B Gardiner Road
Richmond, RI

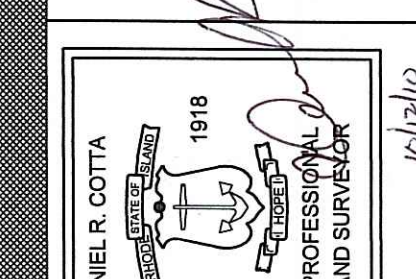
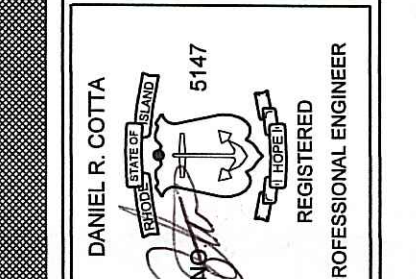
Checked By: DrC

Date: 9/16/2010

Drawn By: ERM

Scale: 1" = 400'

NO.	REVISION	BY	DATE



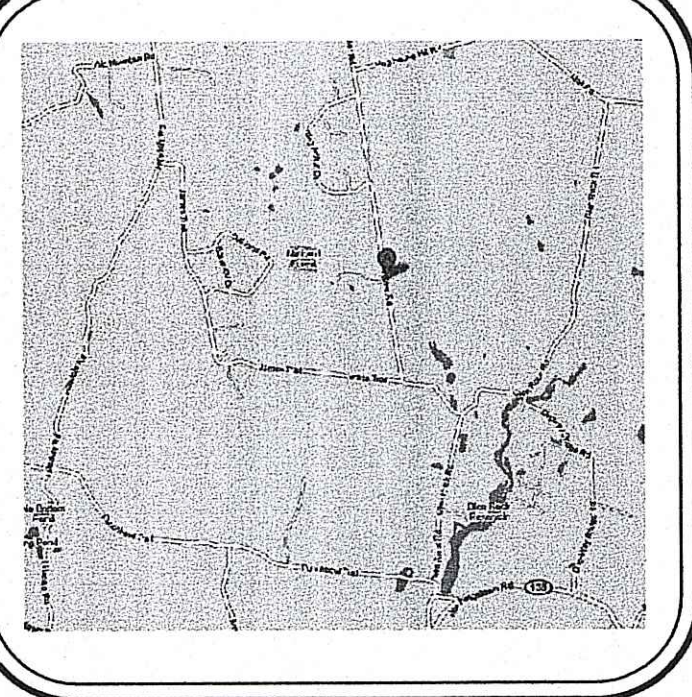
AMERICAN ENGINEERING, INC.

DANIEL R. COTTA Professional Engineer / Professional Land Surveyor

400 South County Trail - Suite A 201
Exeter, Rhode Island 02822

Phone (401) 294-4090 / Fax (401) 294-3625

Sheet
1
of 6 sheets
Drawing No. _____
Dr. _____ Sh. _____



LOCUS MAP
NOT TO SCALE

SOILS:

Aa - Adrian muck.
This nearly level, very poorly drained soil is in depressions and small drainage ways of glacial till uplands and outwash plains. Most areas are oval and range from 2 to 20 acres. Slopes are dominantly less than 2 percent. The permeability of this soil is rapid. Available water capacity is high. Runoff is very slow, and water is ponded on some areas. A few areas adjacent to streams are subject to flooding. The surface layer is strongly acid through slightly acid. This soil has a high water table at or near the surface most of the year. Most areas of this soil are in woodland or have a marsh grass and sedge plant cover. The high water table, ponding, and the low strength of the surface layer make this soil unsuitable for community development. If the soil is drained, the organic material in the surface layer shrinks and subsides, lowering the soil surface. Slopes of excavated areas are unstable. This soil is not suited to cultivated crops. It is limited mainly by wetness, and many areas do not have suitable drainage outlets. This soil is suited to wetland wildlife habitat, but wetness makes the soil poorly suited to woodland wildlife habitat or open-land wildlife habitat.

ChB - Canton and Charlton very stony fine sandy loams, 3 to 8 percent slopes.
These gently sloping, well drained soils are on side slopes of glacial upland hills and ridges. Stones and boulders cover 2 to 10 percent of the surface. Areas are irregular in shape and mostly range from 10 to 150 acres. The permeability of the Canton soils is moderately rapid in the surface layer and subsoil and rapid in the substratum. Available water capacity is moderate, and runoff is slow. This soil is extremely acid through strongly acid. The permeability of the Charlton soils is moderate to moderately rapid. Available water capacity is moderate and runoff is slow. This soil is very strongly acid through medium acid. Most areas of these soils are cleared and used for farming. A small acreage is cleared and used for pasture. These soils are suitable for community development. Quickly establishing plant cover and the use of siltation basins help to control erosion during construction. These soils are suited to cultivated crops. The use of cover crops and the return of crop residue to the soil help to maintain till and organic matter content. The soils are suitable for trees, woodland wildlife habitat, and openland wildlife habitat. They are too dry to provide wetland wildlife habitat.

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. Stones and boulders cover 2 to 10 percent of the surface. Areas are irregular in shape and mostly range from 15 to 250 acres. The permeability of the Canton soils is moderately rapid in the surface layer and subsoil and rapid in the substratum. Available water capacity is moderate, and runoff is medium. This soil is extremely acid through strongly acid. The permeability of the Charlton soils is moderate to moderately rapid. Available water capacity is moderate, and runoff is medium. This soil is very strongly acid through medium acid. Most areas of these soils are in woodland, and the soils are suited to trees. A small acreage is cleared and used for pasture. These soils are suitable for community development. Surface stoniness and slope are main limitations, and onsite sewage disposal systems need careful design and installation to prevent effluent from seeping to the surface. The hazard of erosion is severe. These soils are suited to woodland wildlife habitat. Stoniness limits suitability for openland wildlife habitat. The soils are too dry to provide wetland wildlife habitat.

Rf - Ridgebury, Whitman, and Leicester extremely stony fine sandy loams.
These nearly level, poorly drained and very poorly drained soils are along drainageways and in depressions in glacial till uplands. Stones and boulders cover 10 to 35 percent of the surface of the unit. Slopes range from 0 to 3 percent but are dominantly less than 2 percent. Areas are long and narrow and range mostly from 10 to 150 acres. The permeability of the Ridgebury and Whitman soils is moderate or moderately rapid in the surface layer and subsoil and slow or very slow in the substratum. The permeability of the Leicester soils is moderate or moderately rapid in the surface layer and subsoil and moderate to rapid in the substratum. Available water capacity in all three soils is moderate, and runoff is slow to medium. These soils are very strongly acid through medium acid. The high water table and the slow or very slow permeability in the Ridgebury and Whitman soils make this unit poorly suited to community development. The use of onsite septic systems is not feasible without extensive filling.

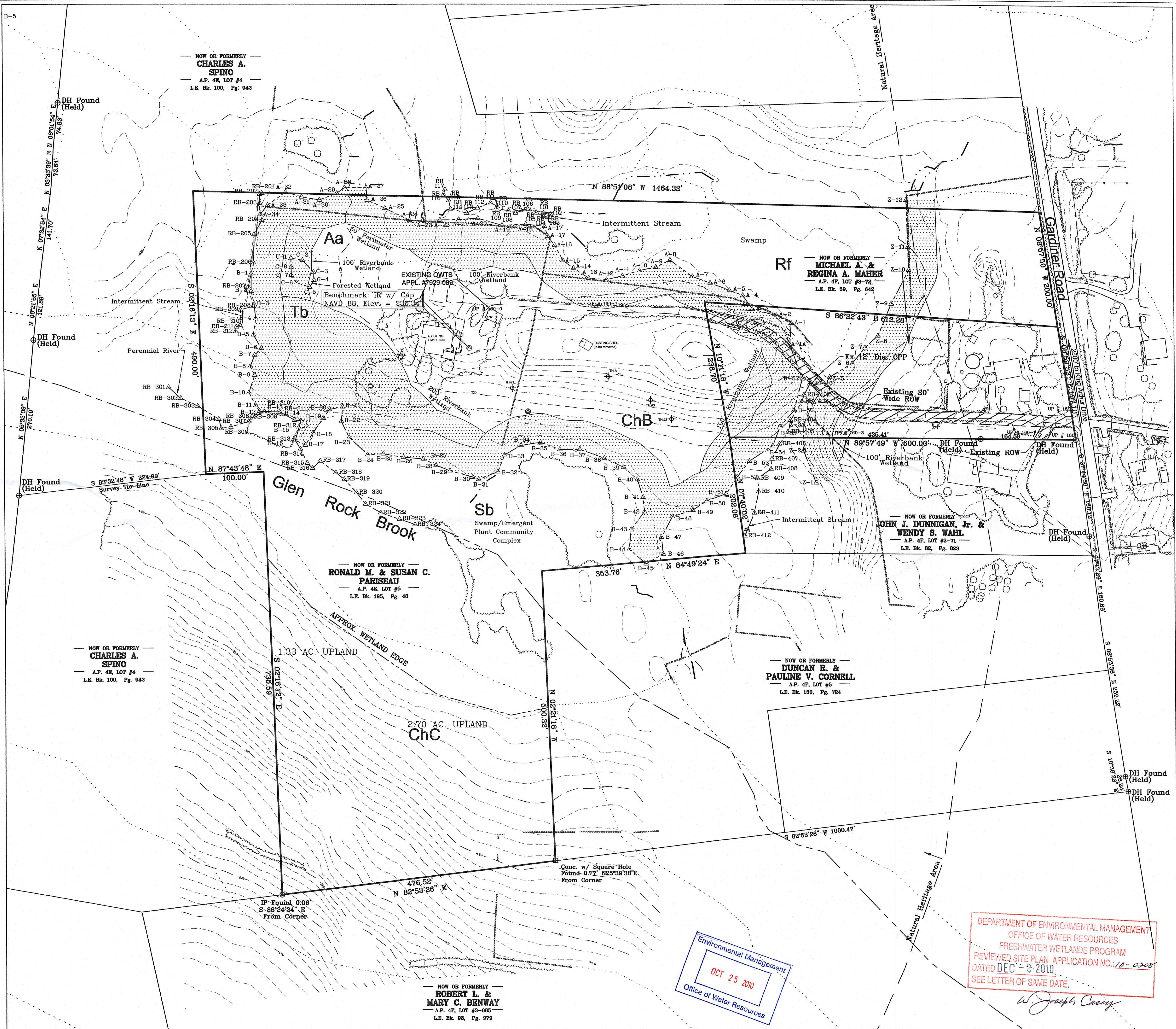
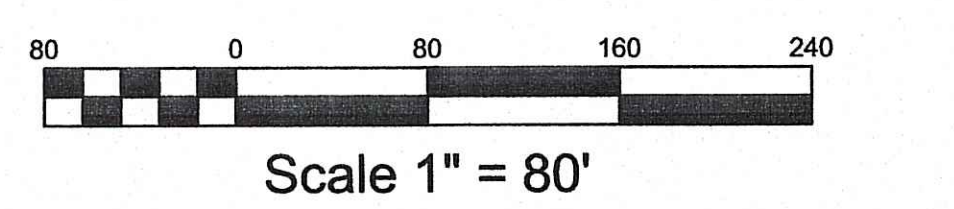
Sb - Scarborough mucky sandy loam.
This nearly level, very poorly drained soil is in depressions and drainageways of terraces and outwash plains. Slopes range from 0 to 3 percent but are dominantly less than 1 percent. Areas are irregular in shape and range mostly from 2 to 50 acres. The permeability of this soil is moderately rapid in the surface layer and rapid or very rapid in the substratum. Available water capacity is moderate, and runoff is slow. This soil has a seasonal high water table at or near the surface from late fall through midsummer. A few small areas are subject to flooding. The soil is very strongly acid through medium acid. The seasonal high water table makes this soil unsuitable for community development or cultivated crops. The soil is poorly suited to trees, but most areas are in woodland or waterolerant shrubs. The major limitation for woodland is wetness. Tree windthrow is common, and the use of equipment is difficult in wet seasons. This soil is poorly suited to woodland wildlife habitat and is not suited to openland wildlife habitat. The soil, however, is suited to wetland wildlife habitat.

Tb - Tisbury silt loam.
This nearly level, moderately well drained soil is in depressions in terraces and outwash plains. Slopes range from 0 to 3 percent but are dominantly less than 2 percent. Areas are irregular in shape and range mostly from 5 to 50 acres. The permeability of this soil is moderate in the surface layer and subsoil and rapid or very rapid in the substratum. Available water capacity is moderate, and runoff is slow. This soil has a seasonal high water table at a depth of about 20 inches from late fall through midspring. The soil is very strongly acid through medium acid. This soil is suitable for community development but is limited by the seasonal high water table. Onsite sewage disposal systems need special design and installation to prevent pollution of ground water. If suitable outlets are available, subsurface drains can be used to help prevent wet basements. Roads and streets need careful design to prevent frost heaving. This soil is suited to woodland wildlife habitat and openland wildlife habitat. It is poorly suited to wetland wildlife habitat because of a lack of adequate water in the summer.

LEGEND

Concrete Monument	Locus Property Line
Iron Pipe Found	Abutting Property Line
Drill Hole Found	Index Contour
Wetland Flag	Intermediate Contour
Utility Pole	Siltfence
Deciduous Tree	Limit of Disturbance
50' Perimeter Wetland	Wetland Edge
	Fence Line
	Stone Wall
	Treeline
	Soils Line And Type

NOTE:
THE SITE IS PARTIALLY LOCATED WITHIN THE NATURAL HERITAGE AREA.
THE SITE IS NOT LOCATED WITHIN THE GROUNDWATER PROTECTION OVERLAY DISTRICT.



Existing Conditions Map
FOR
Pariseau Major Subdivision
LOCATED AT
254 B Gardiner Road
Richmond, RI

Drawn By: **ERM** Checked By: **DrC**
Date: 9/16/2010
Scale: 1" = 80'
REVISIONS

NO.	REVISION	BY	DATE

DANIEL R. COTTA 5147
REGISTERED PROFESSIONAL ENGINEER

DANIEL R. COTTA 1918
REGISTERED PROFESSIONAL LAND SURVEYOR

AMERICAN ENGINEERING, INC.
Professional Engineer / Professional Land Surveyor
DANIEL R. COTTA
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

Sheet
2
of 6 sheets
Drawing No. _____
Dr. _____ Sh. _____

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 10-0208
DATED DEC - 2- 2010
SEE LETTER OF SAME DATE.

Environmental Management
OCT 25 2010
Office of Water Resources

NOW OR FORMERLY
ROBERT L. & MARY C. BENWAY
A.P. 4F, LOT #3-655
L.E. Bk. 93, Pg. 979

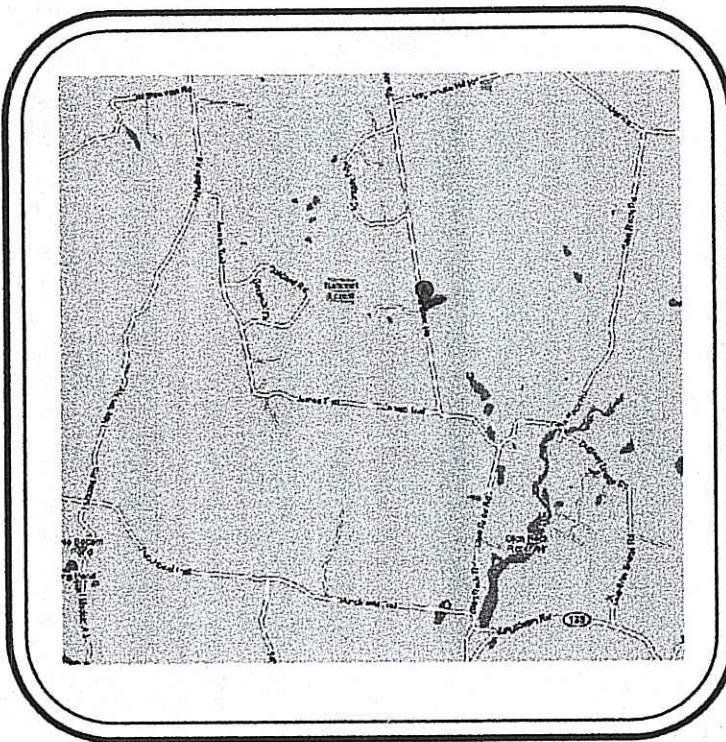
NOW OR FORMERLY
DUNCAN R. & PAULINE V. CORNELL
A.P. 4F, LOT #5
L.E. Bk. 130, Pg. 724

NOW OR FORMERLY
RONALD M. & SUSAN C. PARISEAU
A.P. 4E, LOT #5
L.E. Bk. 195, Pg. 48

NOW OR FORMERLY
MICHAEL A. & REGINA A. MAHER
A.P. 4F, LOT #3-72
L.E. Bk. 39, Pg. 642

NOW OR FORMERLY
CHARLES A. SPINO
A.P. 4E, LOT #4
L.E. Bk. 100, Pg. 942

NOW OR FORMERLY
CHARLES A. SPINO
A.P. 4E, LOT #4
L.E. Bk. 100, Pg. 942



LOCUS MAP
NOT TO SCALE

LEGEND

Concrete Monument	Locus Property Line
Iron Pipe Found	Abutting Property Line
Drill Hole Found	Index Contour
B-16 Wetland Flag	Intermediate Contour
Utility Pole	Siltfence
Deciduous Tree	Limit of Disturbance
50' Perimeter Wetland	Wetland Edge
	Fence Line
	Stone Wall
	Treeline
	Soils Line And Type

Subdivision Plan
FOR
Pariseau Major Subdivision

LOCATED ON
**Gardiner Road
Richmond, RI**
Owner/Applicant
**Ronald M. & Susan C. Pariseau
254 B Gardiner Road
Richmond, RI 02892**
AND
Owner
**Michael A. & Regina A. Maher
254 A Gardiner Road
Richmond, RI 02892**

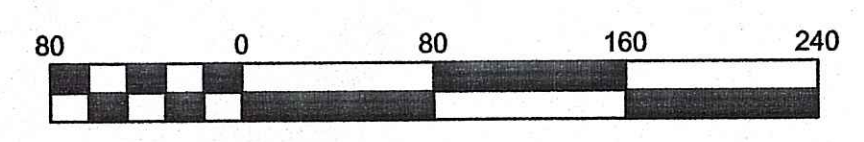
Proposed Parcel A = 9.56 ac. w/ 4.62 ac. uplands and 1.33 ac. additional uplands to the south
Proposed Parcel B = 9.51 ac. w/ 2.90 ac. uplands and 2.70 ac. additional uplands to the south
Proposed Parcel C, Private Road 30' wide = 0.75 ac.
Proposed Parcel D, AP 4F, Lot 3-72 = 4.26 ac.

PARCEL ZONING: R-2
MINIMUM LOT SIZE - 2 ACRES
MINIMUM STREET FRONTAGE - 200'
MINIMUM FRONT SETBACK - 50'
MINIMUM SIDE SETBACK - 35'
MINIMUM REAR SETBACK - 100'

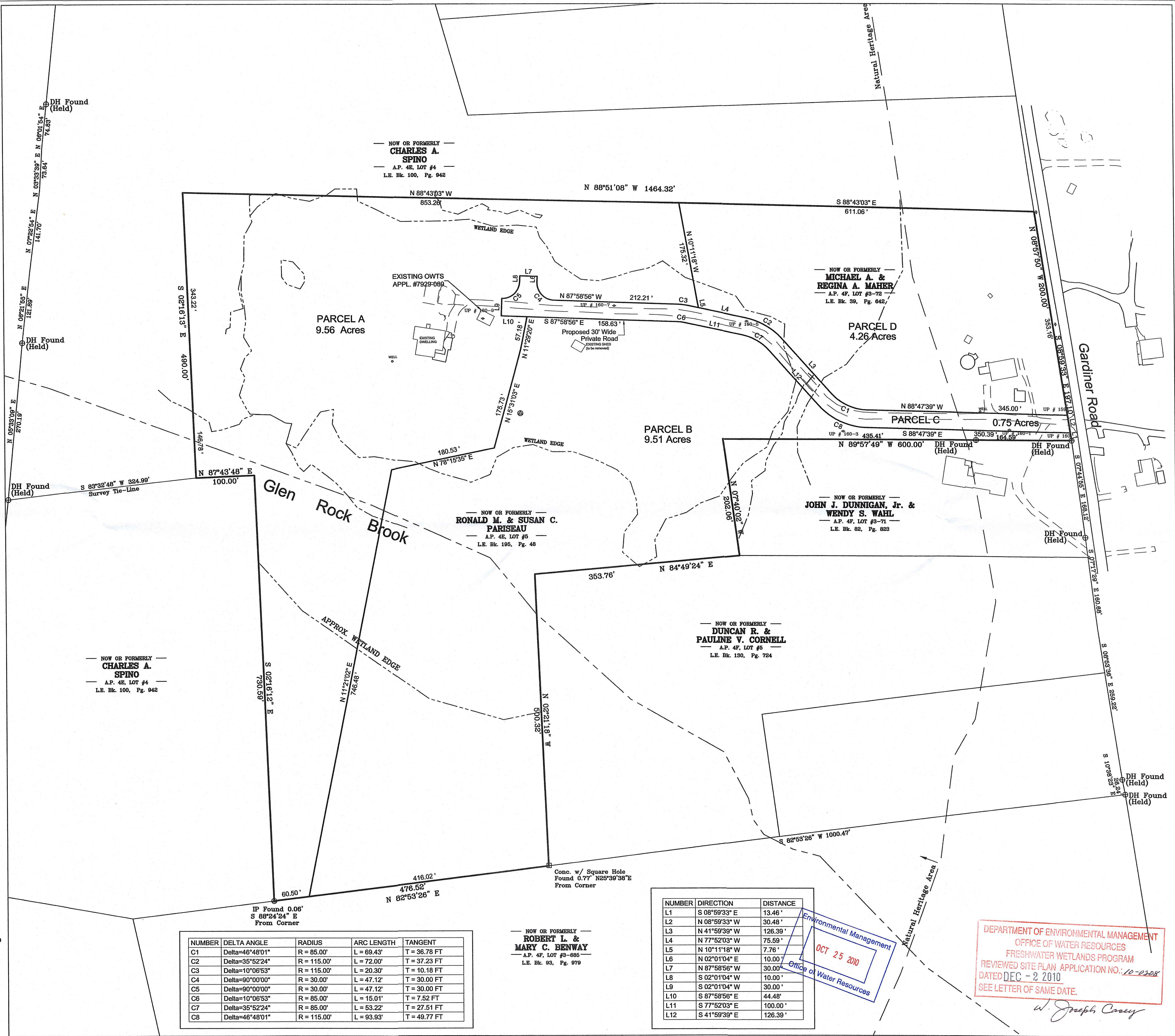
2 LOT CONFIGURATION SHOWN
ROADWAY - 1,035 L.F.

THE PERIMETER SURVEY AND PLAN CONFORMS TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: *[Signature]* 10/12/10 DATE
REGISTERED PROFESSIONAL LAND SURVEYOR



Scale 1" = 80'



NUMBER	DELTA ANGLE	RADIUS	ARC LENGTH	TANGENT
C1	Delta=46°48'01"	R = 85.00'	L = 69.43'	T = 36.78 FT
C2	Delta=35°52'24"	R = 115.00'	L = 72.00'	T = 37.23 FT
C3	Delta=10°06'53"	R = 115.00'	L = 20.30'	T = 10.18 FT
C4	Delta=90°00'00"	R = 30.00'	L = 47.12'	T = 30.00 FT
C5	Delta=90°00'00"	R = 30.00'	L = 47.12'	T = 30.00 FT
C6	Delta=10°06'53"	R = 85.00'	L = 15.01'	T = 7.52 FT
C7	Delta=35°52'24"	R = 85.00'	L = 53.22'	T = 27.51 FT
C8	Delta=46°48'01"	R = 115.00'	L = 93.93'	T = 49.77 FT

NUMBER	DIRECTION	DISTANCE
L1	S 08°59'33" E	13.46'
L2	N 08°59'33" W	30.48'
L3	N 41°59'39" W	126.39'
L4	N 77°52'03" W	75.59'
L5	N 10°11'18" W	7.76'
L6	N 02°01'04" E	10.00'
L7	N 87°58'56" W	30.00'
L8	S 02°01'04" W	10.00'
L9	S 02°01'04" W	30.00'
L10	S 87°58'56" E	44.48'
L11	S 77°52'03" E	100.00'
L12	S 41°59'39" E	126.39'

NOW OR FORMERLY
ROBERT L. & MARY C. BENWAY
A.P. 4F, LOT #3-685
L.E. Bk. 93, Pg. 979

Environmental Management
Office of Water Resources
OCT 25 2010

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 12-2328
DATED DEC - 2 2010
SEE LETTER OF SAME DATE.
W. Joseph Conroy

Subdivision Plan
FOR
Pariseau Major Subdivision
LOCATED AT
**254 B Gardiner Road
Richmond, RI**

Drawn By: **ERM** Checked By: **DrC**
Scale: **1" = 80'** Date: **9/16/2010**

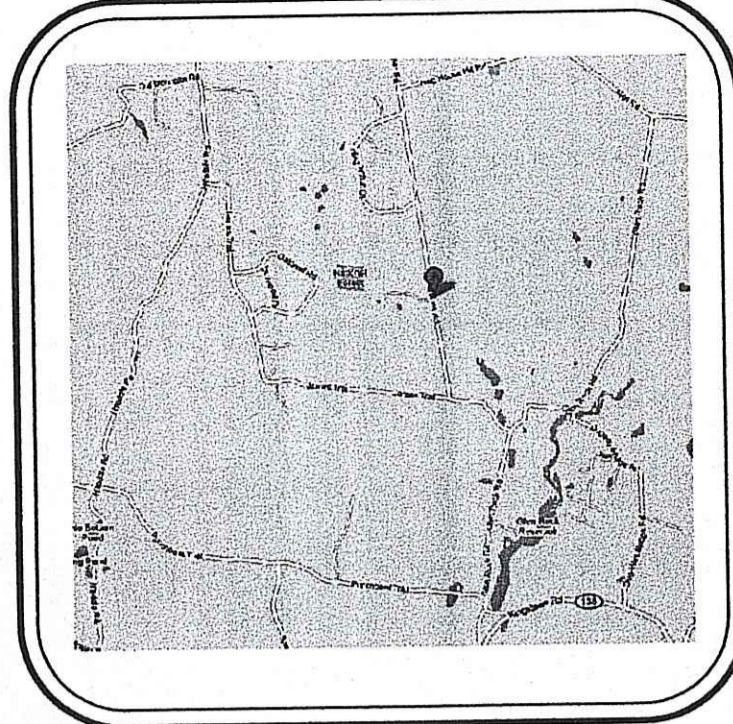
NO.	REVISION	BY	DATE

DANIEL R. COTTA
1918
REGISTERED PROFESSIONAL LAND SURVEYOR
6147

AMERICAN ENGINEERING, INC.
DANIEL R. COTTA
Professional Engineer / Professional Land Surveyor
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4080 / Fax (401) 294-3625

Sheet
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of 6 sheets
Drawing No. _____
Dr. _____ Sh. _____

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LOCUS MAP
NOT TO SCALE

SYSTEM

All lots utilize a shallow concrete chamber OWTS system.

WATER TABLES & PERCOLATION RATE

DESCRIPTION	TESTHOLE#	WT DEPTH	SOIL CATEGORY
LOT A	"TH-1"	7'	5 = 0.52 GAL/SF/DAY
LOT B	"TH-2"	31'	5 = 0.52 GAL/SF/DAY
LOT B	"TH-3"	7'	5 = 0.52 GAL/SF/DAY

OWTS ELEVATIONS (FLOWDIFFUSORS)

DESCRIPTION	EXISTING GRADE	FLOWDIFFUSOR PIPE INVERT	BOTTOM OF FLOWDIFFUSOR	BOTTOM OF STONE	WATER TABLE
LOT B	227.00	225.00	224.00	223.00	220.00

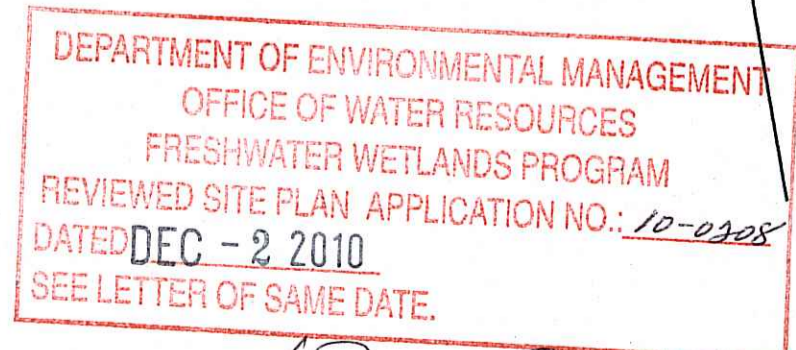
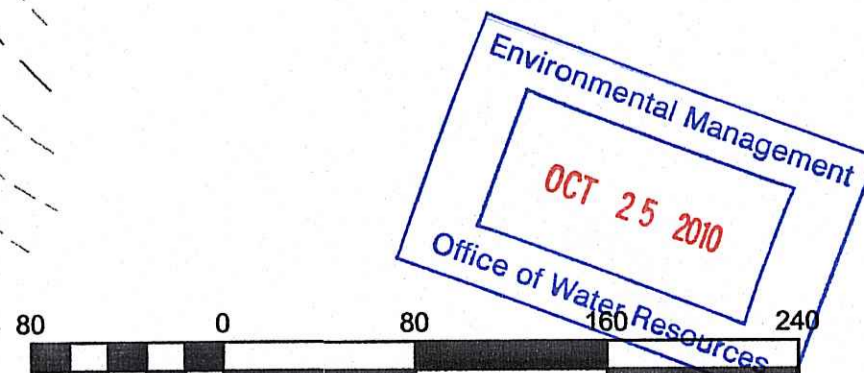
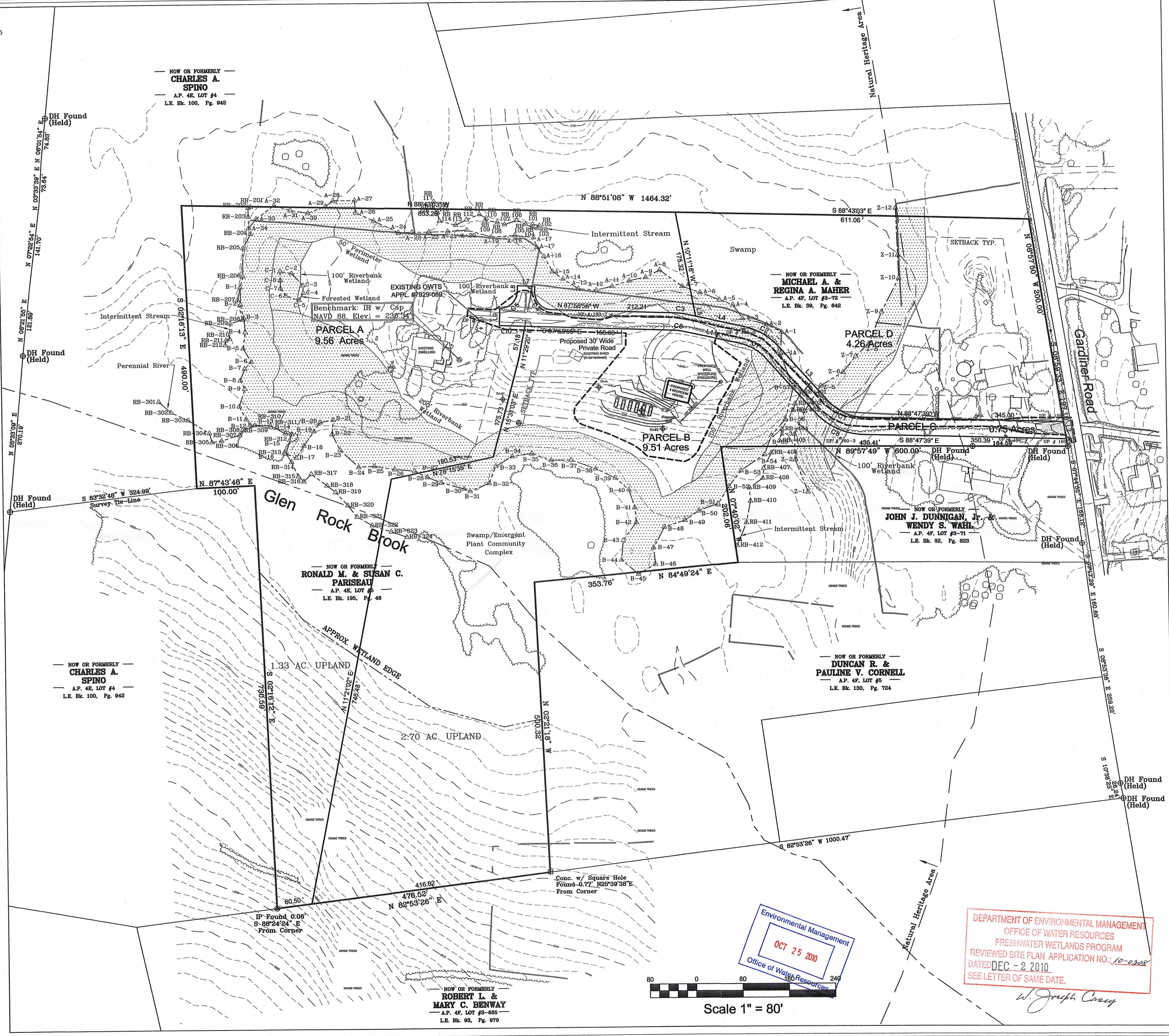
Notes:

- There are 2 existing lots, each with a dwelling.
- There is 1 additional lot proposed for a total of 3 lots.
- The 2 existing lots are partially developed with landscaped lawns and the proposed additional lot is undeveloped and primarily wooded.
- There are no areas of agricultural use.
- Each lot will be served by a private well.
- Each lot will have an Onsite Wastewater Treatment System.
- This proposed subdivision is not located within the following area:
-Groundwater Protection Overlay District.
- This proposed subdivision is located within the following area:
-Natural Heritage Area (Partially)
- No historic cemeteries have been observed on this site.
- An estimation of the proposed population is 8.
- An estimation of the proposed school-aged population is 3.
- Wetland flag delineation was performed by ECOSYSTEM SOLUTIONS, INC.
- Wetland flag location was done by AMERICAN ENGINEERING, INC. using GPS RTK methods.
- Existing buildings, contours and land features were taken from aerial photography, March 7, 2008. Photogrammetry was processed and interpreted by COL-EAST, INC.
- Boundary Survey and Aerial Control were done by AMERICAN ENGINEERING, INC. using a combination of conventional and GPS methods. All elevations are based on NAVD 88 and were located by AMERICAN ENGINEERING, INC. using GPS Static methods.
- The perimeter survey was performed to conform to the accuracy of a Class 1 Standard.
- Benchmarks shall be set within 150' of each system prior to construction.
- The location of all proposed utilities shall be determined by the respective utility company.
- A primary access point has been selected for the site and shall be protected with a construction entrance to prevent the tracking of soils on existing roads.
- The location of all utilities shown are approximate and shall be field verified by the contractor at the time of construction.
- All disturbed areas shall be protected as necessary from erosion and siltation, in compliance with the Erosion Control Plan.
- All fills and trenches are to be properly compacted in lifts as necessary.
- There are no existing Onsite Wastewater Treatment Systems within 100' of the Limit of Disturbance, except as shown on plan.
- There are no existing drains within 100' of the Limit of Disturbance, except as shown on plan.
- There are no existing or proposed private wells within 200' of the Limit of Disturbance, except as shown on plan.
- There are no existing or proposed public wells within 500' of the Limit of Disturbance, except as shown on plan.

LEGEND

■ Concrete Monument	— Locus Property Line
⊙ Iron Pipe Found	— Abutting Property Line
⊕ Drill Hole Found	--- 260 --- Index Contour
B-16 Δ Wetland Flag	- - - Intermediate Contour
○ Utility Pole	- - - Siltence
○ Deciduous Tree	- - - Limit of Disturbance
○ 50' Perimeter Wetland	- - - Wetland Edge
	- - - Fence Line
	○ Stone Wall
	- - - Treeline
	- - - Soils Line And Type

NOTES:
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THE SITE IS NOT LOCATED WITHIN THE GROUNDWATER PROTECTION OVERLAY DISTRICT.



Scale 1" = 80'

Overall Proposed Conditions Plan
FOR
Pariseau Major Subdivision
LOCATED AT
254 B Gardiner Road
Richmond, RI

Drawn By: **ERM** Checked By: **DrC**
Scale: 1" = 80' Date: 9/16/2010

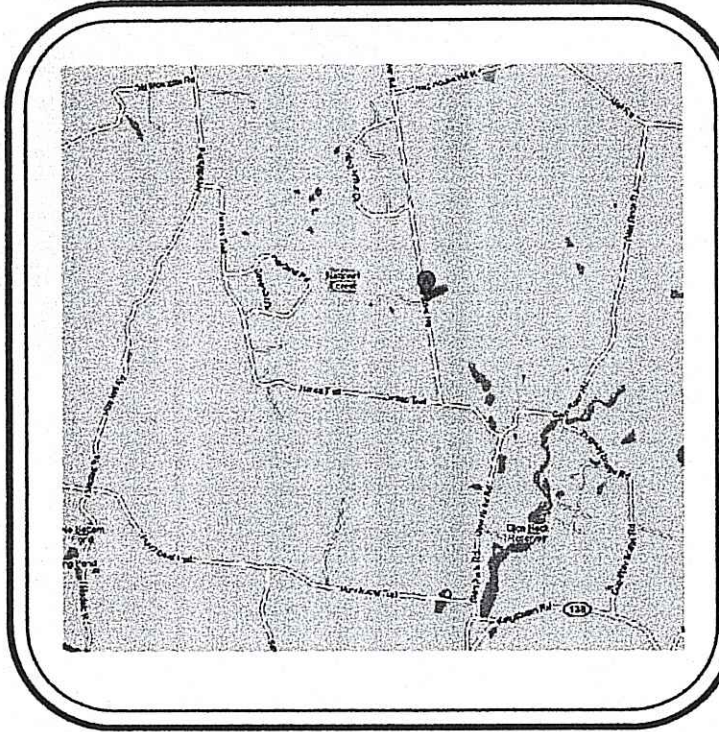
NO.	REVISION	DATE

DANIEL R. COTTA
REGISTERED PROFESSIONAL ENGINEER
5147

DANIEL R. COTTA
REGISTERED PROFESSIONAL LAND SURVEYOR
1918
10/11/10

AMERICAN ENGINEERING, INC.
Professional Engineer / Professional Land Surveyor
DANIEL R. COTTA
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

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LOCUS MAP
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PARCEL ZONING: R-2
 MINIMUM LOT SIZE - 2 ACRES
 MINIMUM STREET FRONTAGE - 200'
 MINIMUM FRONT SETBACK - 50'
 MINIMUM SIDE SETBACK - 35'
 MINIMUM REAR SETBACK - 100'

2 LOT CONFIGURATION SHOWN
 ROADWAY - 1,035 L.F.

Proposed Parcel A = 9.56 ac. w/ 4.62 ac. uplands
 and 1.33 ac. additional uplands to the south
 Proposed Parcel B = 9.51 ac. w/ 2.90 ac. uplands
 and 2.70 ac. additional uplands to the south
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NOTE:
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 OVERLAY DISTRICT.

SYSTEM

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WATER TABLES & PERCOLATION RATE

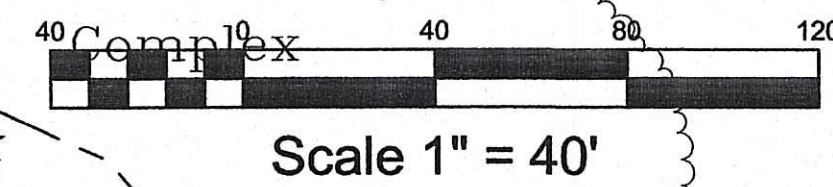
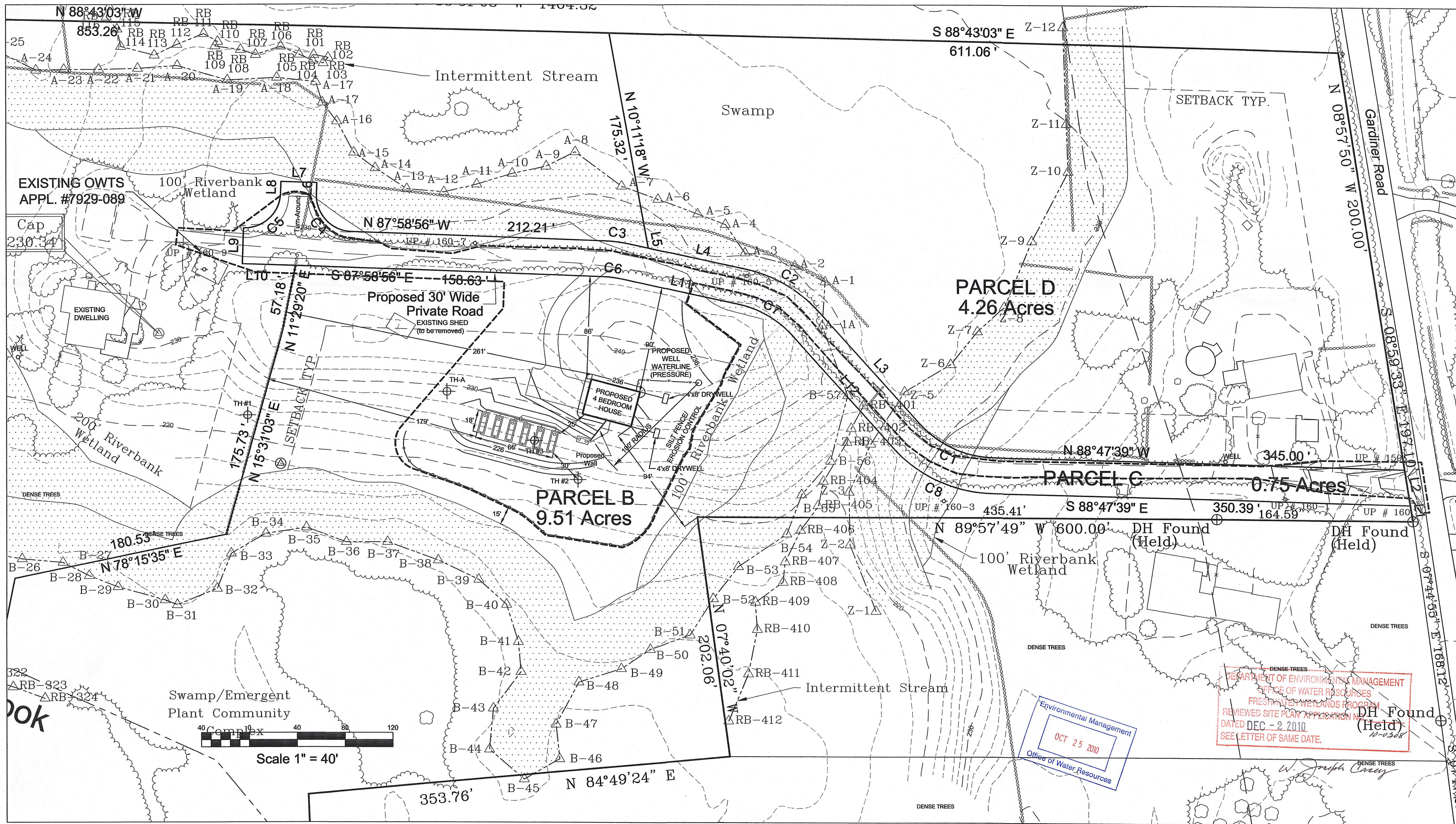
SUBDIVISION				
DESCRIPTION	TESTHOLE#	WT DEPTH	SOIL CATEGORY	
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OWTS ELEVATIONS (FLOWDIFFUSORS)

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LOT B	227.00	225.00	224.00	223.00	220.00

LEGEND

- Concrete Monument
- Iron Pipe Found
- Drill Hole Found
- Wetland Flag
- Utility Pole
- Deciduous Tree
- 50' Perimeter Wetland
- Locus Property Line
- Abutting Property Line
- Index Contour
- Intermediate Contour
- Siltfence
- Limit of Disturbance
- Wetland Edge
- Fence Line
- Stone Wall
- Treeline
- ChB Soils Line And Type



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION
 DATED DEC - 2 2010
 SEE LETTER OF SAME DATE.

Environmental Management
 OCT 25 2010
 Office of Water Resources

Detailed Proposed Conditions Plan
 FOR
Pariseau Major Subdivision
 LOCATED AT
 254 B Gardiner Road
 Richmond, RI

Checked By: DrC
 Date: 9/16/2010

NO.	REVISION	BY	DATE

DANIEL R. COTTA
 5147
 REGISTERED PROFESSIONAL ENGINEER

DANIEL R. COTTA
 1918
 REGISTERED PROFESSIONAL LAND SURVEYOR

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EROSION CONTROL & SOIL STABILIZATION PROGRAM

1. DENuded SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. 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 PERIOD.
3. 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. STANDARD SPECIFICATION M. 20.
4. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

PERMANENT SEEDING MIXTURES:
 A - MOWED AREA: ALL FLAT OR SLOPES LESS THAN 3:1

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	75	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	5	
TOTAL 100#ACRE		

PERMANENT SEEDING MIXTURES:
 B - UNMOWED AREA OR INFREQUENTLY MOWED: FLAT OR SLOPES GREATER THAN 3:1

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	75	APRIL 1 - JUNE 15
PERENNIAL RYEGRASS	5	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
BIRDFOOT TREFLOIL	15	
TOTAL 100#ACRE		

6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS 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.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3000-4000 LBS/AC.
8. 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 BE USED TO HELP MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

SPECIES	LBS/ACRE	LBS/1,000 SQ. FT.	SEEDING DATES
ANNUAL RYEGRASS	60	1.5	MAR. 15 - JUNE 15
PERENNIAL SUDAN GRASS	40	1.0	MAY 15 - AUGUST 15
MILLET	40	1.0	MAY 15 - AUGUST 15
WINTER RYE	120	3.0	AUGUST 15 - JUNE 15
ORNS	120	3.0	MAR. 15 - JUNE 15
WEEPING LOVEGRASS	20	0.5	MAY 1 - JUNE 30

9. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THRU OCT. 15TH.
11. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STANDARD SPECIFICATIONS SECTION 202.
12. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
13. STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
14. ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
15. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

SEDIMENTATION CONTROL PROGRAM

1. ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY ARE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SUITABLE SLOPE PROTECTION.
2. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
3. CARE SHALL BE TAKEN SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING EITHER EXISTING OR PROPOSED DRAINAGE OR SEWER STRUCTURES.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY AND AFTER PERIODS OF RAINFALL. SUCH DEVICES SHALL BE REPAIRED OR REPLACED AS NEEDED.
5. CARE SHALL 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 SUBJECT TO STORM WATER FLOW.
6. ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
7. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, WITH ANY AMENDMENTS, AS A GUIDE.

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND AND THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR SHALL ALSO OBTAIN THE MOST RECENT MUNICIPAL AND RIDOT STANDARDS BEFORE PROCEEDING WITH CONSTRUCTION.
2. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MUNICIPAL ENGINEERING DEPARTMENT AND ALL UTILITY INSTALLATIONS AND INSPECTIONS WITH THE APPROPRIATE UTILITY CO.. A 48 HOUR ADVANCE NOTICE IS REQUIRED BEFORE WORK COMMENCEMENT.
4. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY MUNICIPALITY REGULATIONS AND "RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1971)", WITH ALL CORRECTIONS AND ADDENDA AND THE 1974 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE OFF IN COMPUTING ANY ESTIMATES.
6. EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEED. SEE EROSION CONTROL PROGRAM DETAILS.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE PLANS. THAT INCLUDES ANY CONSTRUCTION TO BRING UTILITIES TO THE SITE, ANY REPAIRS, ANY TRENCHING REQUIRED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND SOIL EROSION CONTROL MEASURES.
9. THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANIES. CALL DIG-SAFE (800)225-4377
10. IN ALL EXCAVATION AND PLACEMENT OF FILL THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.

MAINTENANCE AND RESPONSIBILITY

1. THE CONSTRUCTION SUPERINTENDANT SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN IMPLEMENTATION. HE SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION WORKERS AND SUB-CONTRACTORS ARE AWARE OF THE PROVISIONS OF THE PLAN AND THE ENGINEER'S REPORT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ASPECTS OF THE DESIGN PRIOR TO FINAL APPROVAL BY THE TOWN. DURING THAT TIME, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOULD BE CHECKED ON A WEEKLY BASIS AS WELL AS AFTER EACH SIGNIFICANT RAINFALL. ALL SUCH MEASURES SHOULD BE CLEANED OR REPLACED AS NECESSARY.
3. REPAINTING, REGRADING OR OTHER REPAIRS NEEDED AS A RESULT OF EROSION AND SEDIMENTATION SHOULD BE DONE PROMPTLY.
4. ALL VEGETATION NOT SURVIVING AT LEAST ONE FULL GROWING SEASON SHALL BE REPLACED AT THE OWNERS EXPENSE.
5. UPON PROJECT COMPLETION, THE SITE OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE RECOMMENDATIONS:

A. MOWING:

THE MOWING OF GRASS IN AND AROUND THE BASIN SHOULD BE DONE AT LEAST ONCE PER GROWING SEASON, PREFERABLY AFTER AUGUST 15 TO PROTECT GROUND NESTING BIRDS AND OTHER ANIMALS. MORE FREQUENT MOWINGS WILL BE REQUIRED FOR BASINS MAINTAINED AS RECREATIONAL OR OPEN SPACE FACILITIES. TRASH AND LITTER MUST BE REMOVED DURING MOWING OPERATIONS.

B. INSPECTIONS:

THE STRUCTURAL INTEGRITY OF THE BASIN, ESPECIALLY ANY IMPOUNDING STRUCTURES, SHOULD BE INSPECTED ON AN ANNUAL BASIS. IN ADDITION, THE INLETS FOR THE BASIN SHOULD ALSO BE INSPECTED ANNUALLY. ANY DEFICIENCIES MUST BE CORRECTED IMMEDIATELY AFTER OBSERVATION. THE BASIN AND ALL STRUCTURES SHOULD BE INSPECTED MORE OFTEN DURING THE FIRST YEAR OF OPERATION, ESPECIALLY AFTER LARGE STORMS, TO ENSURE PROPER STABILIZATION AND FUNCTION.

- EMBANKMENT SUBSIDENCE
- EROSION
- CRACKING
- TREE GROWTH
- OUTLET & SPILLWAY CONDITION
- SEDIMENT ACCUMULATION
- SLOPE STABILITY

ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED. IF ENCOUNTERED, TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM THE DRAINAGE SYSTEM AT LEAST TWICE A YEAR.

RESEEDING OF ANY ERODED OR BARE SPOTS IN OR AROUND THE BASIN MUST BE DONE IMMEDIATELY FOLLOWING EXAMINATIONS TO PREVENT SUBSEQUENT SOIL EROSION. MAINTAINING A FULLY VEGETATED BASIN WITH HEALTHY GRASS IS PARAMOUNT TO A SUCCESSFULLY OPERATING FACILITY.

C. SEDIMENT REMOVAL:

FOLLOWING CONSTRUCTION, THE POND AND BASIN ARE TO BE CLEANED OF ACCUMULATED SEDIMENT ONCE EVERY TEN YEARS. THE RESULTING POND CONDITION AFTER SEDIMENT REMOVAL MUST BE THE ORIGINAL DESIGN CONDITIONS.

ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE AND FEDERAL REGULATIONS.

D. CATCH BASINS, MANHOLES AND DRAIN LINES:

AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:

- DAMAGE TO GRATE/COVER
- EVIDENCE OF STANDING WATER
- DEBRIS REMOVAL
- STRUCTURAL ALIGNMENT/INTEGRITY

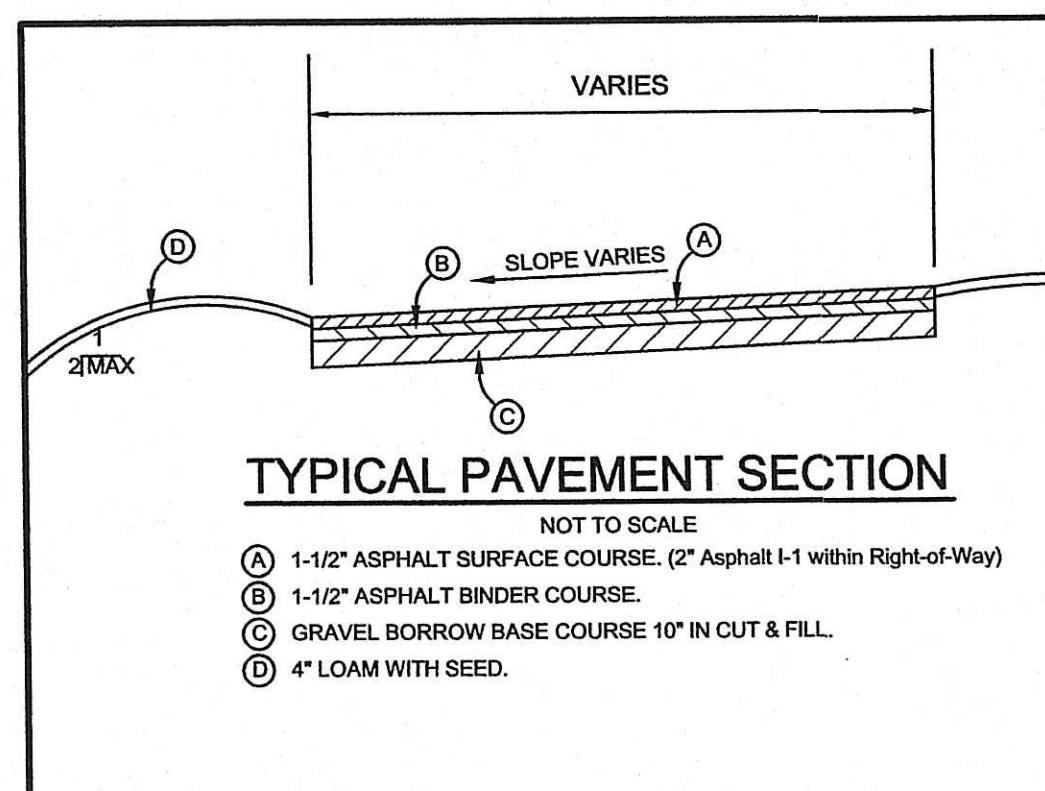
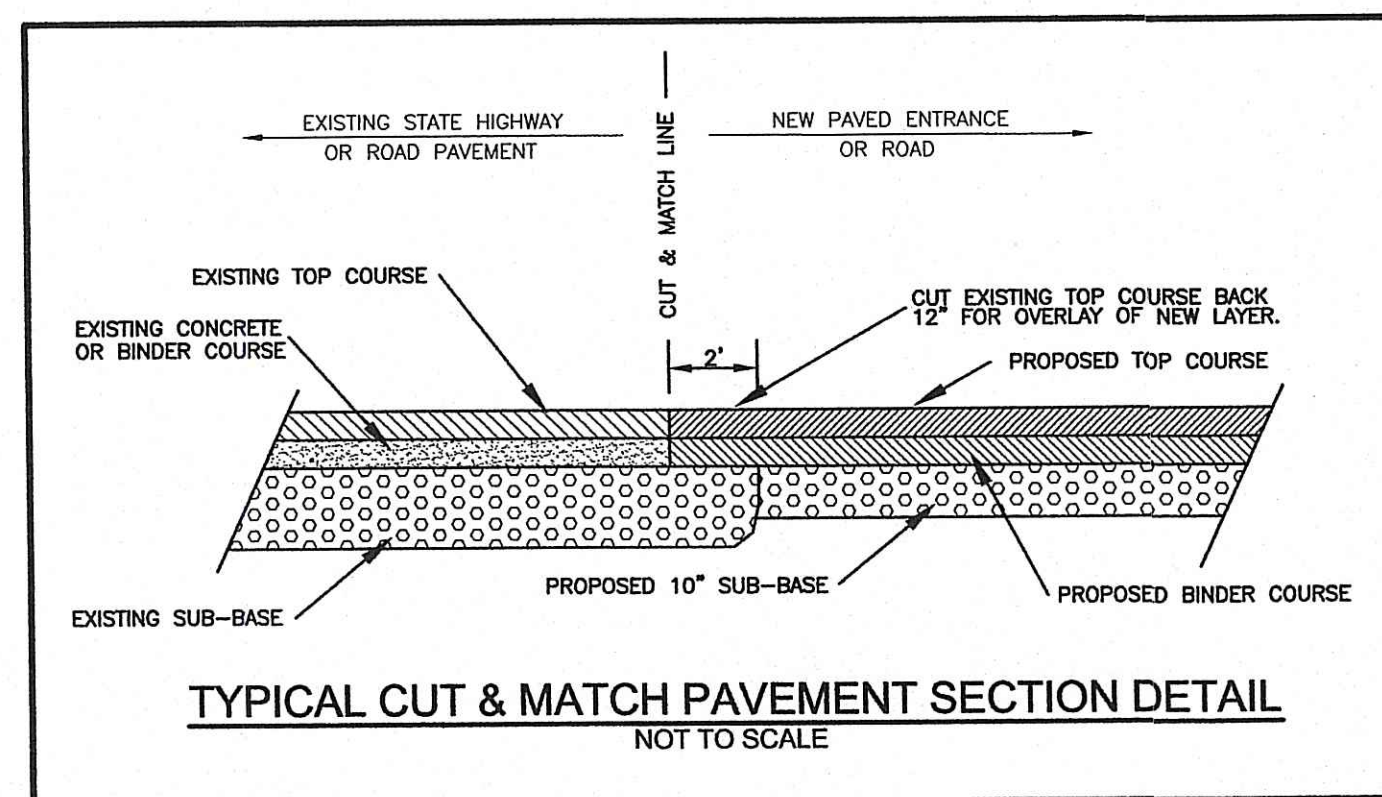
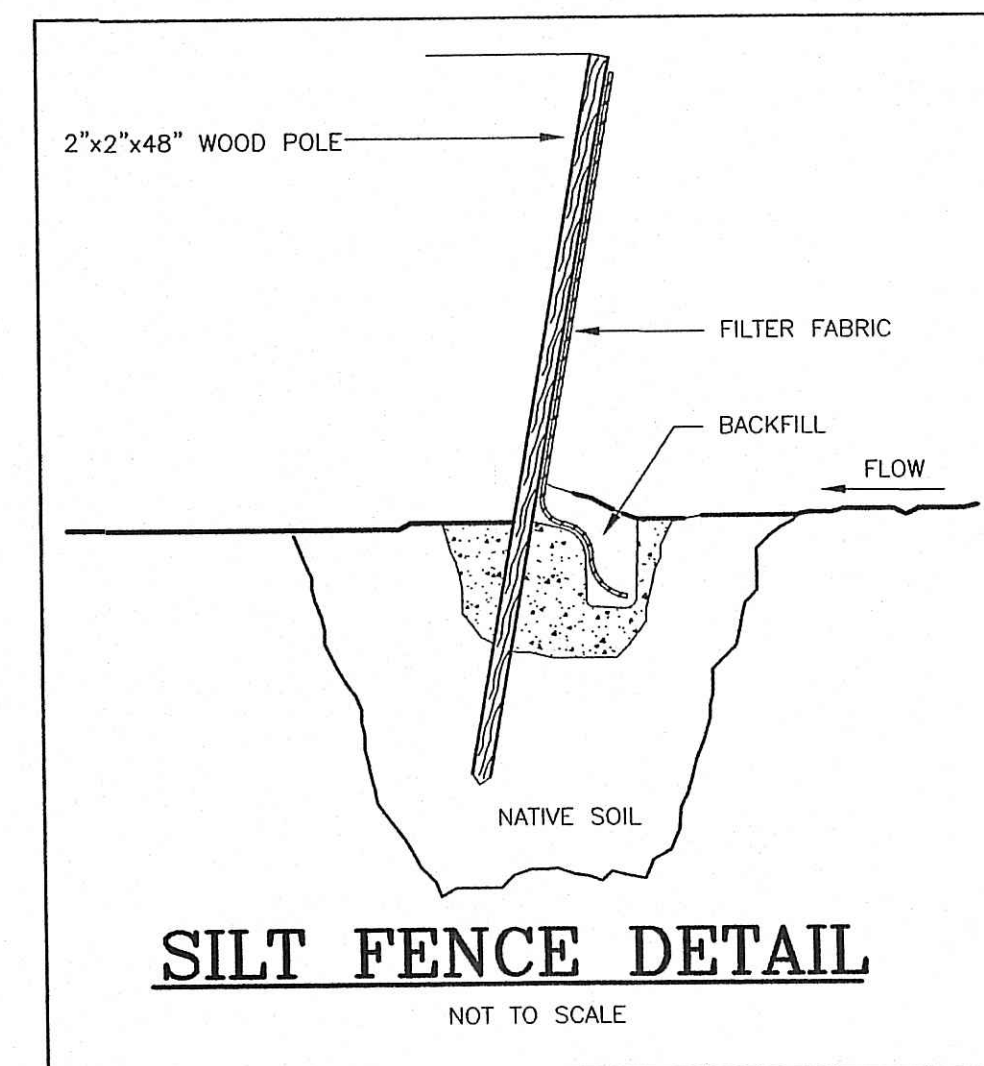
ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED.

ORDER OF PROCEDURE

1. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY GRADING, TEMPORARY HAYBALES, SILT FENCE OR SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. (I.E. ALONG NEW ROADWAYS, STREAMBANKS, CRITICAL AREAS, ETC.)
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PERIODICALLY CLEANED AND MAINTAINED AS PER THE RESPECTIVE PROGRAMS DURING THE CONSTRUCTION OR AS DIRECTED BY THE TOWN OR BY THE ENGINEER.
3. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION CONTROL PROGRAMS FOR TEMPORARY CONTROL.

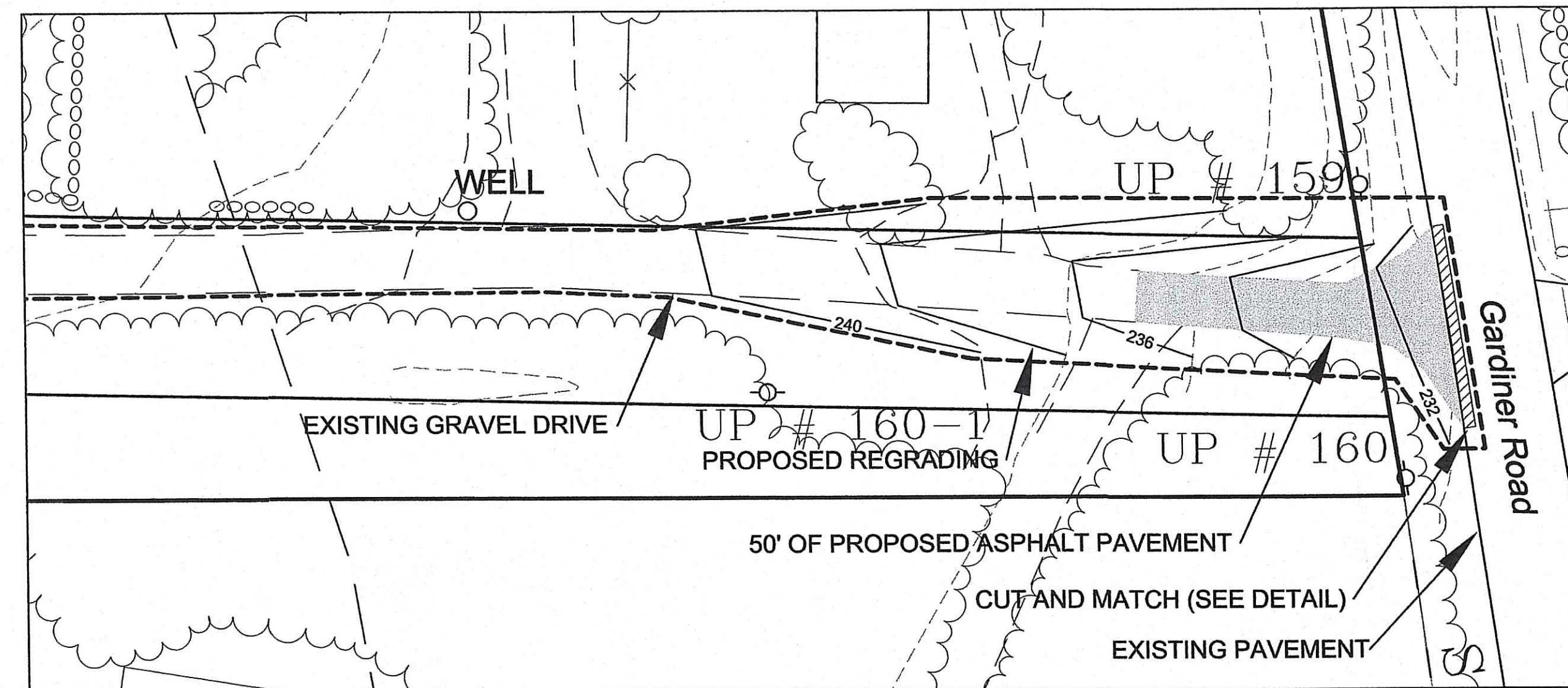
Drain Note:

1. All drains within 50' of the OWTS system shall be either above the water table or watertight and bedded in sand or bank run gravel.

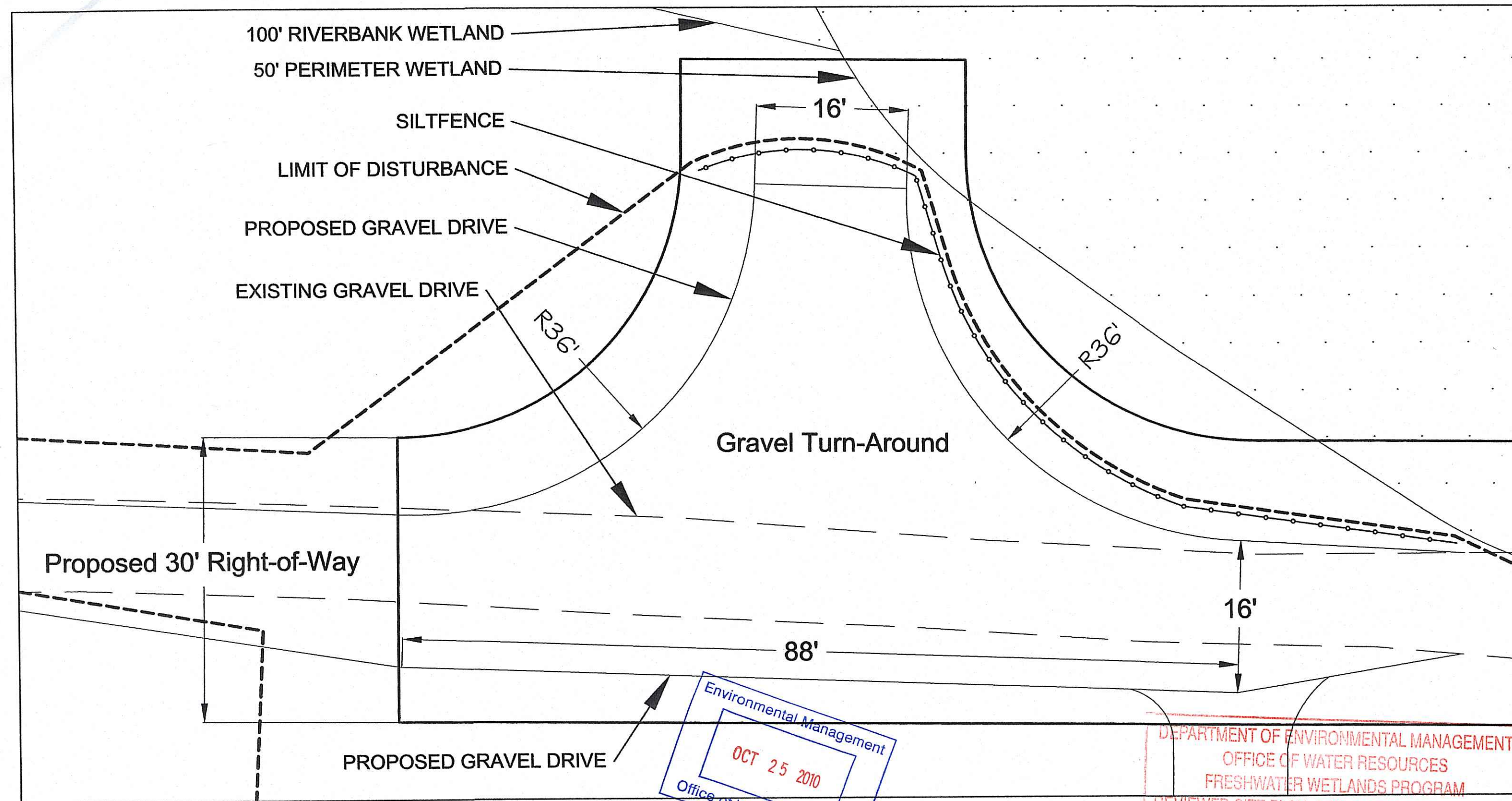


TYPICAL PAVEMENT SECTION

- A 1-1/2" ASPHALT SURFACE COURSE. (2" Asphalt 1-1 Within Right-of-Way)
- B 1-1/2" ASPHALT BINDER COURSE.
- C GRAVEL BORROW BASE COURSE 10" IN CUT & FILL.
- D 4" LOAM WITH SEED.



Private Right-of-Way Entrance Detail
 SCALE: 1"=20'



Gravel Turn-Out Detail
 SCALE: 1"=10'

Environmental Management
 OCT 25 2010
 Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 10-0905
 DATED DEC - 2 2010.
 SEE LETTER OF SAME DATE.

W. Joseph Conroy

Soil and Erosion Control Plan

FOR
Pariseau Major Subdivision
 LOCATED AT
 254 B Gardiner Road
 Richmond, RI

Checked By: DrC
 Drawn By: ERM
 Scale: As Shown
 Date: 9/16/2010

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