

# RIDEM WETLAND PERMIT MODIFICATION PLAN FOR SPENCER'S CORNER ESTATES

## SUBDIVISION LOTS #3 & #4

AP 14 LOT 273 (LOT #3)  
AP 14 LOT 274 (LOT #4)

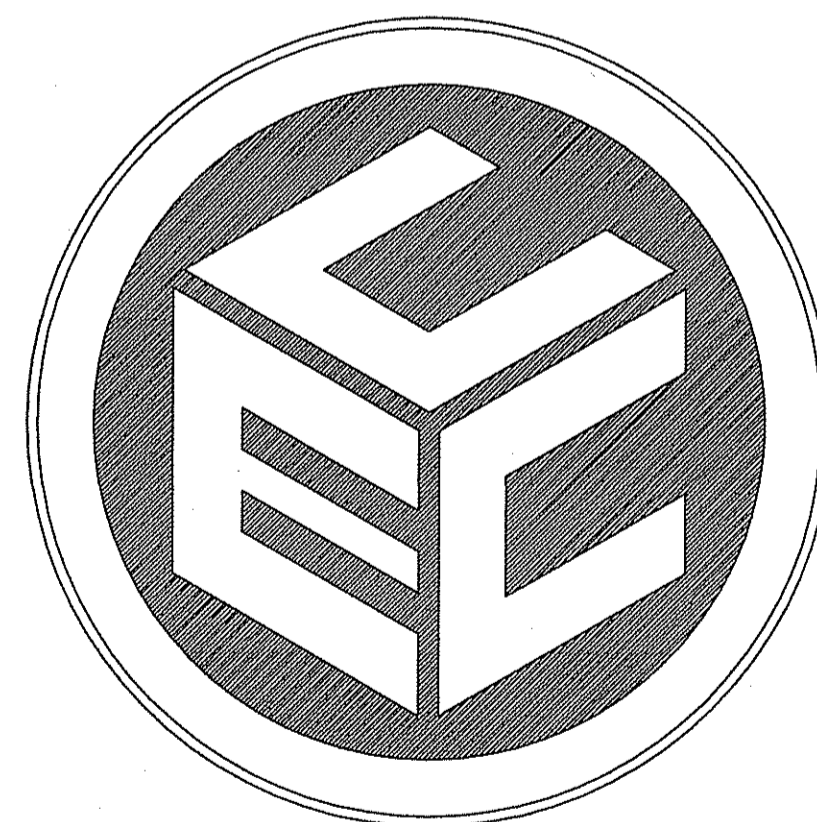
on

## DIVISION ROAD & SHIPPEETOWN ROAD

in

## EAST GREENWICH, RHODE ISLAND

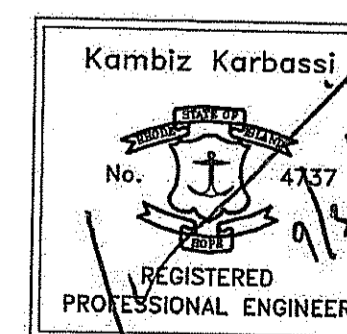
**OWNER/APPLICANT**  
GASHY DOWLATSHAHI  
1150 OAKLAWN AVENUE  
CRANSTON, RI 02910  
TEL.: (401) 463-8588



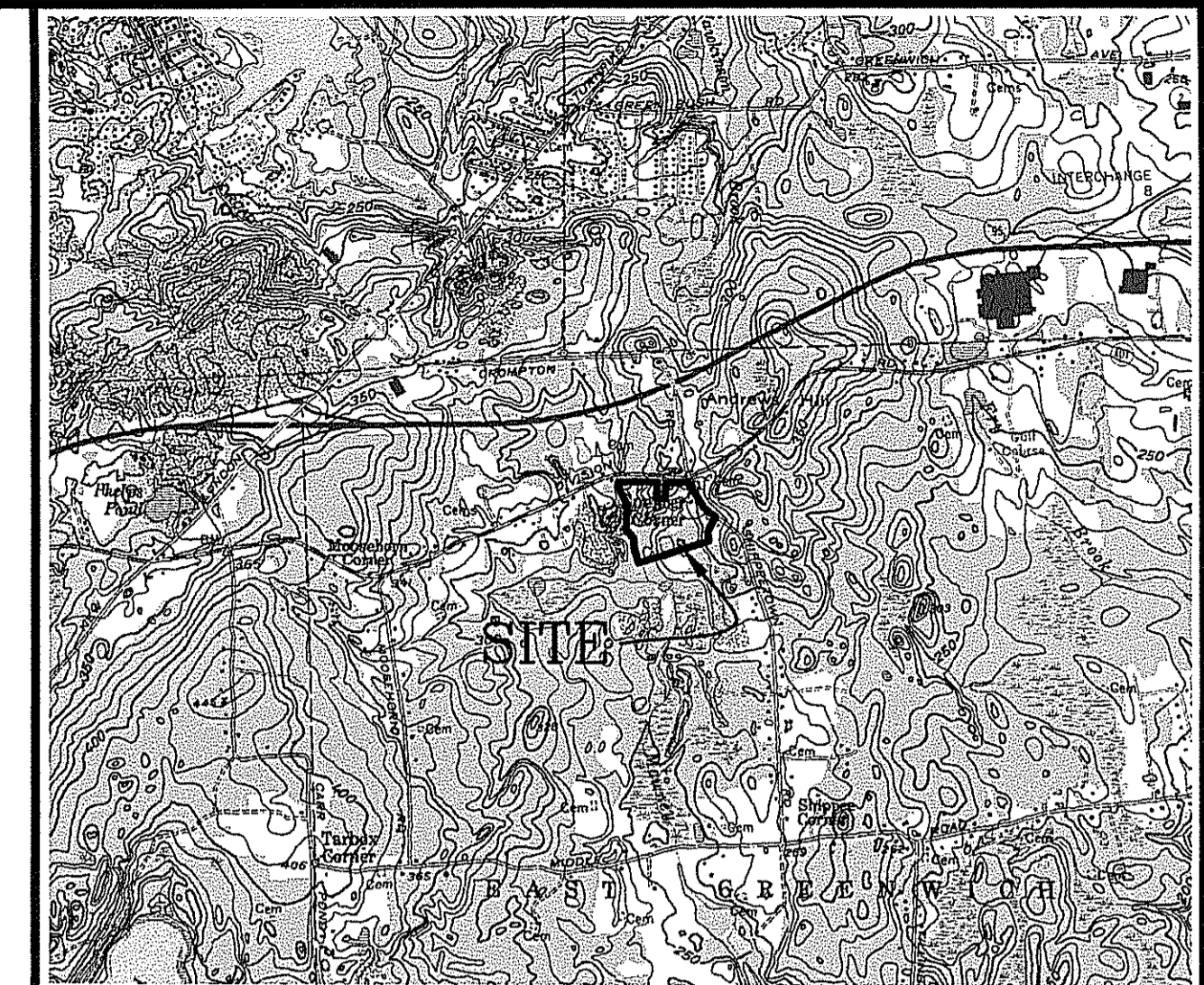
**PREPARED BY:**  
**COMMONWEALTH**  
ENGINEERS & CONSULTANTS, INC.

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

MAY 31, 2013  
REVISED: SEPTEMBER 19, 2013  
JANUARY 6, 2014  
SEPTEMBER 29, 2015



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED OCT 28 2015 FILE # 15-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



**LOCUS MAP**  
SCALE: 1"=2,500'

### LIST OF DRAWINGS

- TITLE SHEET
- AERIAL OVERLAY PLAN
- EXISTING CONDITIONS & SOILS PLAN
- SITE DEVELOPMENT PLAN
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS

### ASSESSORS REFERENCE:

A.P. 14 LOT 273 (SUBDIVISION LOT #3)  
A.P. 14 LOT 274 (SUBDIVISION LOT #4)

### PARCEL DATA:

AREA=LOT #3 (2.35 ACRES)  
AREA=LOT #4 (2.31 ACRES)

### ZONING REFERENCE: F-2

MINIMUM LOT AREA = 2 ACRES (87,120 S.F.)  
MINIMUM BUILDABLE AREA = 42,750 S.F.  
MINIMUM FRONTAGE = 150'  
MINIMUM WIDTH AT THE FRONT YARD SETBACK LINE MUST BE 75% OF THE REQUIRED FRONTAGE. LOT FRONTAGES ON APPROVED CUL-DE-SACS MAY BE NO LESS THAN 60 FEET IN ALL ZONES.  
MINIMUM FRONT YARD REQUIREMENT=60'  
MINIMUM SIDE YARD REQUIREMENT=30'  
MINIMUM REAR YARD REQUIREMENT=45'

### PARCEL NOTES:

- ALL LAND LOCATED WEST OF SHIPPEETOWN ROAD AND WITHIN ONE HALF MILE OF THE SUBJECT SITE IS LOCATED WITHIN THE F-2 ZONING DISTRICT. ALL LAND LOCATED EAST OF SHIPPEETOWN ROAD AND WITHIN ONE HALF MILE OF THE SUBJECT SITE IS LOCATED WITHIN THE F/F1 ZONING DISTRICT.
- THE SITE IS LOCATED WITHIN THE HUNT RIVER DRAINAGE BASIN.
- THE SITE IS NOT LOCATED WITHIN ANY OF THE FOLLOWING: GROUNDWATER RECHARGE AREAS, GROUNDWATER RESERVOIRS, WELLHEAD PROTECTION AREAS AND NATURAL HERITAGE AREAS. IN ADDITION THERE ARE NO PUBLIC DRINKING WATER RESERVOIRS, GROUNDWATER RESERVOIRS, GROUNDWATER RECHARGE AREAS, WELLHEAD PROTECTION AREAS AND PUBLIC WELLS LOCATED WITHIN A ONE-HALF MILE RADIUS OF THE SITE AS INDICATED BY THE RHODE ISLAND GIS WEB SITE.

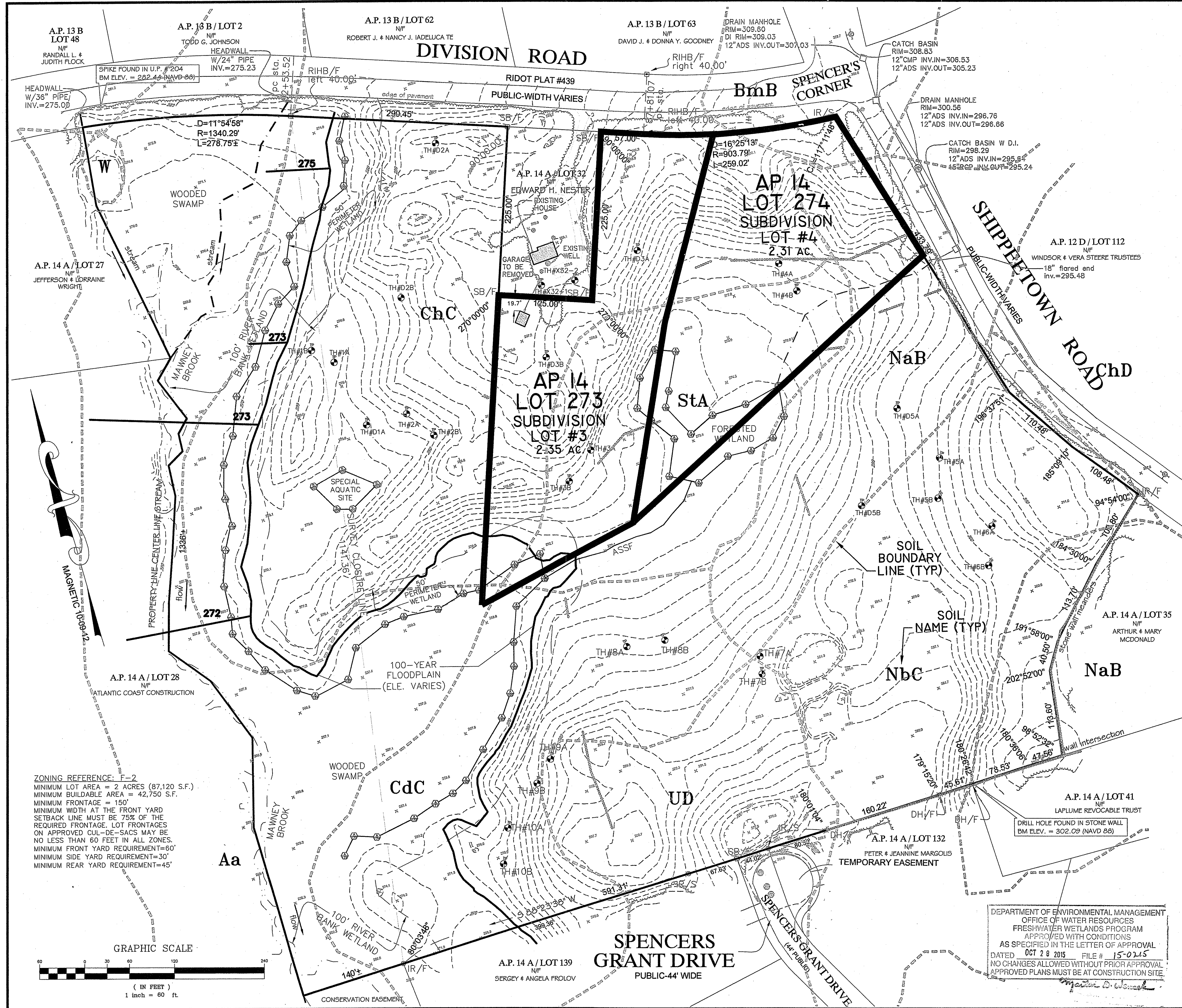
### FLOOD PLAIN NOTE:

THIS PROPERTY CONTAINS LAND AREA WITHIN FLOOD ZONE AE ASSOCIATED WITH THE MAWNEY BROOK IDENTIFIED WITH 100 YEAR FLOOD ELEVATIONS RANGING FROM 284' ALONG THE NORTHERLY EDGE OF THE DIVISION STREET TO APPROX. ELEVATION 271' AT THE SOUTHWESTERLY PROPERTY LIMITS AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM), TOWN OF EAST GREENWICH RHODE ISLAND, KENT COUNTY, MAP 44003C0117G & 44003C0119G EFFECTIVE DATE: DECEMBER 3, 2010.

### REFERENCES:

- SURVEY PLAN A.P. 68 - 14A/LOT 16 DIVISION STREET & SHIPPEETOWN ROAD EAST GREENWICH, R.I. SCALE: 1"=60' DATE: OCTOBER 11, 2012 PREPARED FOR: JAG CONSTRUCTION PREPARED BY: OCEAN STATE PLANNERS, INC.
- TOPOGRAPHIC SURVEY A.P. 68 - 14A/LOT 16 DIVISION STREET & SHIPPEETOWN ROAD, EAST GREENWICH, R.I. SCALE: 1"=60' DATE: JANUARY 4, 2013 PREPARED FOR: JAG CONSTRUCTION PREPARED BY: OCEAN STATE PLANNERS, INC.
- RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT FRESHWATER WETLAND PROGRAM VERIFICATION OF WETLAND EDGE APPLICATION No. 12-0211 DATED: JANUARY 31, 2013.
- RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT ON-SITE WATER TREATMENT PROGRAM SUBDIVISION SUITABILITY No. S09-137 DATED: 2/18/13.





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**LEGEND**

- SOIL DESIGNATION & BOUNDARY** NaB
- SITE PERIMETER
  - WETLAND FLAGGING
  - RIVER BANK/WETLAND BUFFER
  - STONEWALL
  - FENCE LINE
  - TREE LINE
  - SPOT GRADE
  - CONTOUR LINE
  - IRON ROD SET
  - IRON ROD FOUND
  - DRILL HOLE FOUND
  - STONE BOUND FOUND
  - RI HIGHWAY BOUND FOUND
  - GRANITE BOUND FOUND
  - TEST HOLE
  - 100-YR FLOOD ELEVATION

**SOIL DESCRIPTIONS**

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

**BmB**-Bridgeman silt loam, till substratum, 3 to 8 percent slopes. This gently sloping, well drained to moderately well drained soil is on side slopes and crests of upland hills.

**CdC**-Canton and Charlton fine sandy loams, 8 to 15 percent slopes. These sloping, well drained soils are on the crests and side slopes 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. Stones and boulders cover 2 to 10 percent of the surface.

**NaB**-Narragansett silt loam, 3 to 8 percent slopes. This gently sloping, well drained soil is on the crests and side slopes of glacial till uplands and till plains.

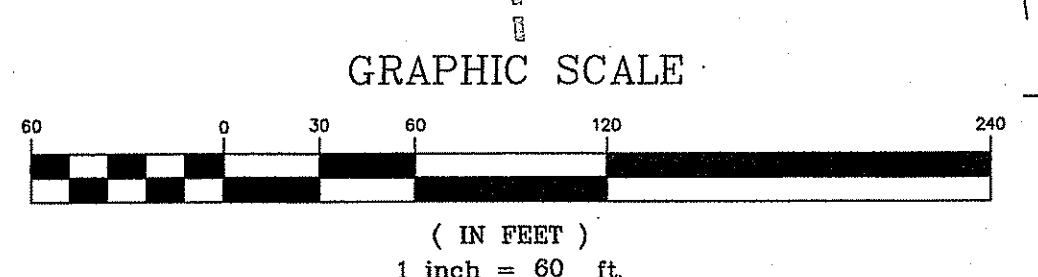
**NbC**-Narragansett very stony silt loam, 8 to 15 percent slopes. This sloping, well drained soil is on side slopes of glacial till uplands. Stones and boulders cover 2 to 15 percent of the surface.

**StA**-Sutton fine sandy loam, 0 to 3 percent slopes. This nearly level, moderately well drained soil is in depressions of glacial uplands and in low areas that border the uplands.

**UD**-Udorthents-Urban land complex. This complex consists of moderately well drained to excessively drained soils that have been disturbed by cutting or filling, and areas that are covered by buildings and pavement.

**OWNER/APPLICANT**  
 GASHY DOWLATSHAHI  
 1150 OAKLANW AVENUE  
 CRANSTON, RI 02910  
 TEL.: (401) 463-8588

**ZONING REFERENCE: F-2**  
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 MINIMUM REAR YARD REQUIREMENT=45'



**RIDEM WETLAND PERMIT MODIFICATION PLAN**

Kambiz Karbassi  
 No. 4737  
 REGISTERED PROFESSIONAL ENGINEER

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

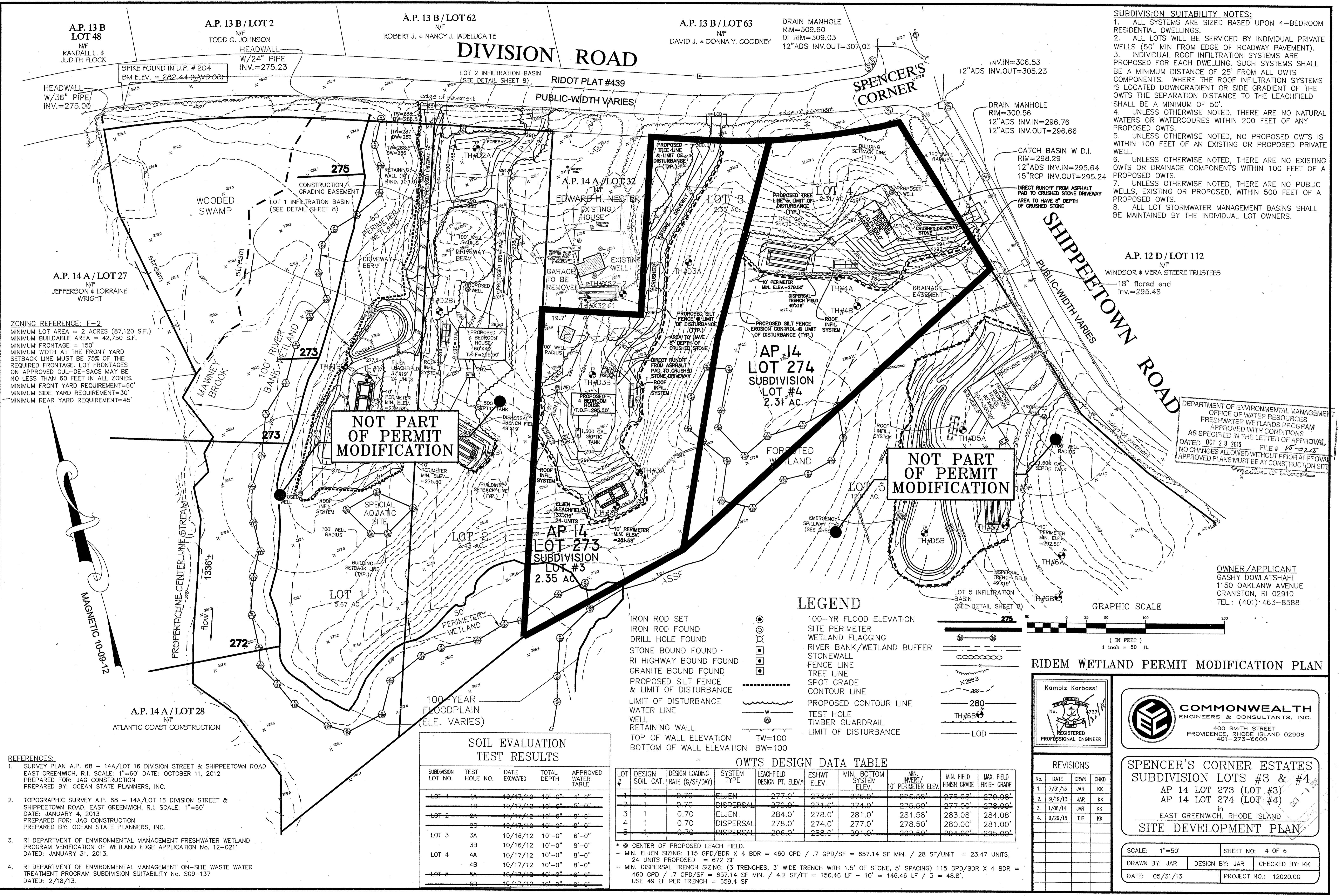
**REVISIONS**

No.	DATE	DRWN	CHKD
1.	7/31/13	JAR	KK
2.	9/19/13	JAR	KK
3.	1/06/14	JAR	KK
4.	9/29/15	TJB	KK

**SPENCER'S CORNER ESTATES SUBDIVISION LOTS #3 & #4**  
 AP 14 LOT 273 (LOT #3)  
 AP 14 LOT 274 (LOT #4)  
 in  
 EAST GREENWICH, RHODE ISLAND  
 EXISTING CONDITIONS PLAN

SCALE: 1"=60'	SHEET NO: 3 OF 6
DRAWN BY: JAR	DESIGN BY: JAR
DATE: 05/31/13	CHECKED BY: KK
	PROJECT NO.: 12020.00

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED OCT 28 2015 FILE # 15-0215  
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**SUBDIVISION SUITABILITY NOTES:**

- ALL SYSTEMS ARE SIZED BASED UPON 4-BEDROOM RESIDENTIAL DWELLINGS.
- ALL LOTS WILL BE SERVICED BY INDIVIDUAL PRIVATE WELLS (50' MIN FROM EDGE OF ROADWAY PAVEMENT).
- INDIVIDUAL ROOF INFILTRATION SYSTEMS ARE PROPOSED FOR EACH DWELLING. SUCH SYSTEMS SHALL BE A MINIMUM DISTANCE OF 25' FROM ALL OWTS COMPONENTS. WHERE THE ROOF INFILTRATION SYSTEMS IS LOCATED DOWNGRADIENT OR SIDE GRADIENT OF THE OWTS THE SEPARATION DISTANCE TO THE LEACHFIELD SHALL BE A MINIMUM OF 50'.
- UNLESS OTHERWISE NOTED, THERE ARE NO NATURAL WATERS OR WATERCOURSES WITHIN 200 FEET OF ANY PROPOSED OWTS.
- UNLESS OTHERWISE NOTED, NO PROPOSED OWTS IS WITHIN 100 FEET OF AN EXISTING OR PROPOSED PRIVATE WELL.
- UNLESS OTHERWISE NOTED, THERE ARE NO EXISTING OWTS OR DRAINAGE COMPONENTS WITHIN 100 FEET OF A PROPOSED OWTS.
- UNLESS OTHERWISE NOTED, THERE ARE NO PUBLIC WELLS, EXISTING OR PROPOSED, WITHIN 500 FEET OF A PROPOSED OWTS.
- ALL LOT STORMWATER MANAGEMENT BASINS SHALL BE MAINTAINED BY THE INDIVIDUAL LOT OWNERS.

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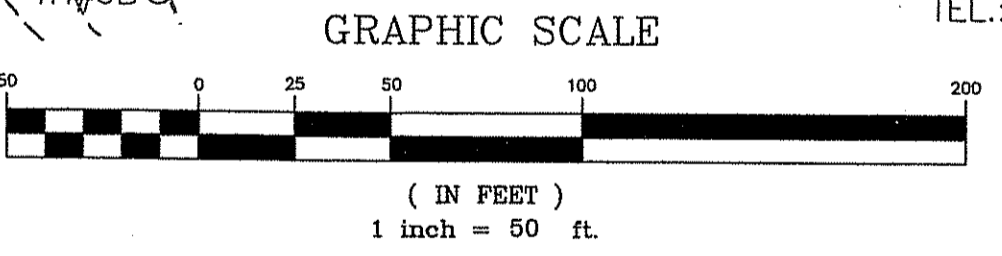
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 CRANSTON, RI 02910  
 TEL.: (401) 463-8588

**NOT PART OF PERMIT MODIFICATION**

**NOT PART OF PERMIT MODIFICATION**

**LEGEND**

- IRON ROD SET
- IRON ROD FOUND
- DRILL HOLE FOUND
- STONE BOUND FOUND
- RI HIGHWAY BOUND FOUND
- GRANITE BOUND FOUND
- PROPOSED SILT FENCE & LIMIT OF DISTURBANCE
- LIMIT OF DISTURBANCE
- WATER LINE
- WELL
- RETAINING WALL
- TOP OF WALL ELEVATION
- BOTTOM OF WALL ELEVATION
- 100-YR FLOOD ELEVATION
- SITE PERIMETER
- WETLAND FLAGGING
- RIVER BANK/WETLAND BUFFER
- STONEWALL
- FENCE LINE
- TREE LINE
- SPOT GRADE
- CONTOUR LINE
- PROPOSED CONTOUR LINE
- TEST HOLE
- TIMBER GUARDRAIL
- LIMIT OF DISTURBANCE



**SOIL EVALUATION TEST RESULTS**

SUBDIVISION LOT NO.	TEST HOLE NO.	DATE EXCAVATED	TOTAL DEPTH	APPROVED WATER TABLE
LOT 1	1A	10/17/12	10'-0"	4'-0"
	1B	10/17/12	10'-0"	5'-0"
LOT 2	2A	10/17/12	10'-0"	8'-0"
	2B	10/17/12	10'-0"	8'-0"
LOT 3	3A	10/16/12	10'-0"	6'-0"
	3B	10/16/12	10'-0"	8'-0"
LOT 4	4A	10/17/12	10'-0"	8'-0"
	4B	10/17/12	10'-0"	8'-0"
LOT 5	5A	10/17/12	10'-0"	8'-0"
	5B	10/17/12	10'-0"	8'-0"

**OWTS DESIGN DATA TABLE**

LOT #	DESIGN SOIL CAT.	DESIGN LOADING RATE (G/SF/DAY)	SYSTEM TYPE	LEACHFIELD DESIGN PT. ELEV.*	ESHWT ELEV.	MIN. BOTTOM SYSTEM ELEV.	MIN. INVERT/PERIMETER ELEV.	MIN. FIELD FINISH GRADE	MAX. FIELD FINISH GRADE
1	1	0.70	ELJEN	277.0'	273.0'	276.0'	276.58'	278.08'	279.08'
2	1	0.70	DISPERSAL	279.0'	271.0'	274.0'	275.50'	277.00'	278.00'
3	1	0.70	ELJEN	284.0'	278.0'	281.0'	281.58'	283.08'	284.08'
4	1	0.70	DISPERSAL	278.0'	274.0'	277.0'	278.50'	280.00'	281.00'
5	1	0.70	DISPERSAL	206.0'	288.0'	291.0'	292.50'	294.00'	295.00'

\* @ CENTER OF PROPOSED LEACH FIELD.  
 - MIN. ELJEN SIZING: 115 GPD/BDR X 4 BDR = 460 GPD / .7 GPD/SF = 657.14 SF MIN. / 28 SF/UNIT = 23.47 UNITS, 24 UNITS PROPOSED = 672 SF  
 - MIN. DISPERSAL TRENCH SIZING: (3 TRENCHES, 3' WIDE TRENCH WITH 1.5' OF STONE, 5' SPACING) 115 GPD/BDR X 4 BDR = 460 GPD / .7 GPD/SF = 657.14 SF MIN. / 4.2 SF/FT = 156.46 LF - 10' = 146.46 LF / 3 = 48.8', USE 49 LF PER TRENCH = 659.4 SF

- REFERENCES:**
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**RIDEM WETLAND PERMIT MODIFICATION PLAN**

Kambiz Korbassi  
 No. 1737  
 REGISTERED PROFESSIONAL ENGINEER

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

**REVISIONS**

No.	DATE	DRWN	CHKD
1.	7/31/13	JAR	KK
2.	9/19/13	JAR	KK
3.	1/06/14	JAR	KK
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 SUBDIVISION LOTS #3 & #4  
 AP 14 LOT 273 (LOT #3)  
 AP 14 LOT 274 (LOT #4)  
 in  
 EAST GREENWICH, RHODE ISLAND  
**SITE DEVELOPMENT PLAN**

SCALE: 1"=50' SHEET NO: 4 OF 6  
 DRAWN BY: JAR DESIGN BY: JAR CHECKED BY: KK  
 DATE: 05/31/13 PROJECT NO.: 12020.00

**GENERAL NOTES:**

1. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD SPECIFICATIONS FOR WATERWAY CONSTRUCTION, 2004 EDITION, SHALL BE FULLY AND COMPLETELY AS ATTACHED HERETO. THE 2004 STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION WEB PAGE. THESE SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
2. ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. IN NO CASE SHALL THE INSTALLATION OF ANY IMPROVEMENTS BE STARTED UNTIL PRIOR NOTIFICATION IS GIVEN TO THE TOWN ENGINEER. AT LEAST A 48-HOUR NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL AGREEMENT WITH THE APPROVED FINAL CONSTRUCTION DRAWING AND THE TOWN SPECIFICATIONS.
3. LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-800-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
4. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY, BUT NOT LIMITED TO, THE STATE OF RHODE ISLAND, THE FEDERAL GOVERNMENT, THE TOWN OF EAST GREENWICH AND ALL INDIVIDUAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
6. THE INSTALLATION OF THE WATER UTILITY IMPROVEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THE KENT COUNTY WATER DEPARTMENT AND THE AMERICAN WATER WORKS STANDARDS.
7. ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.
8. VERTICAL DATUM: MEAN SEA LEVEL (NAVD 88).
9. FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR TEST).

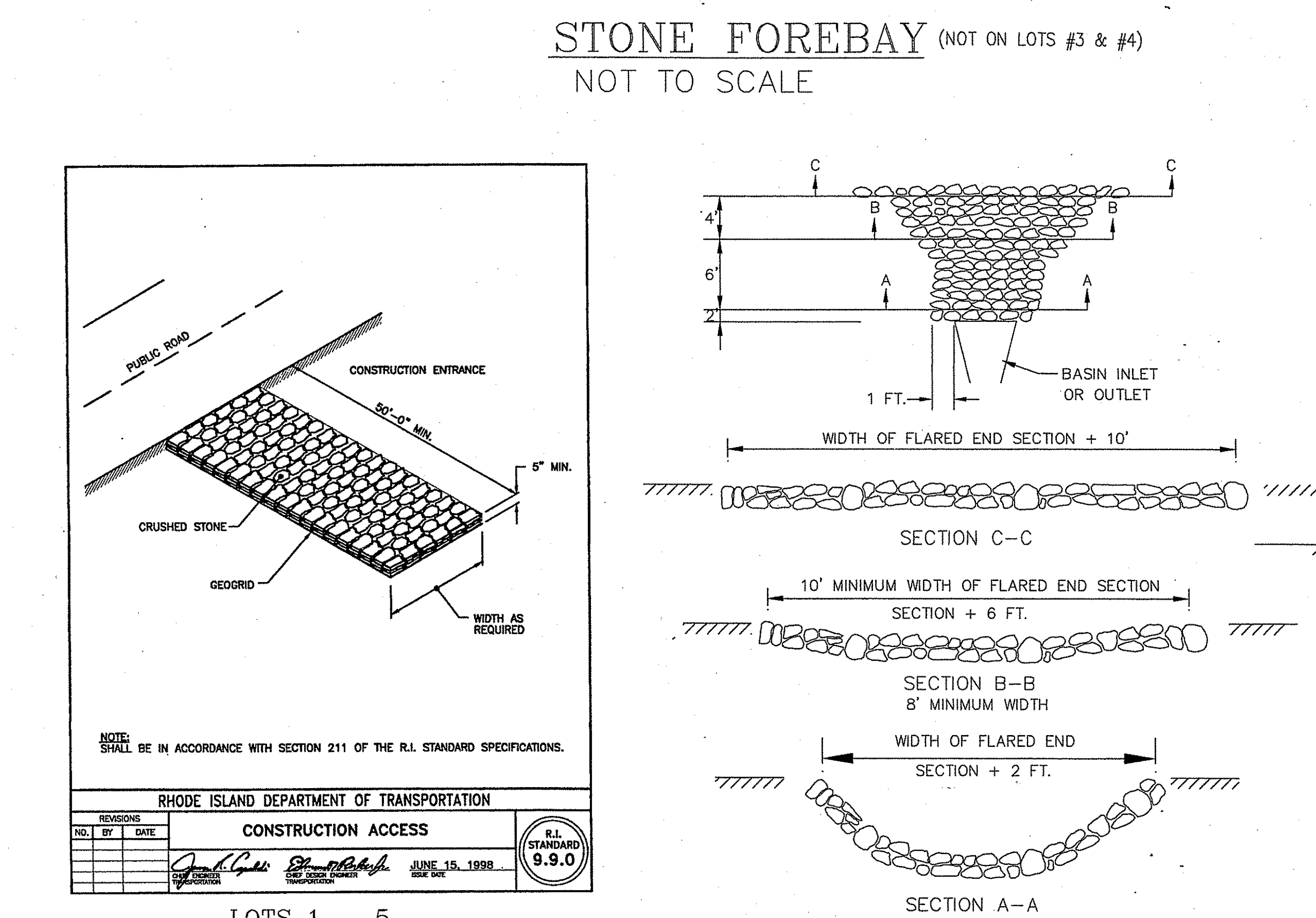
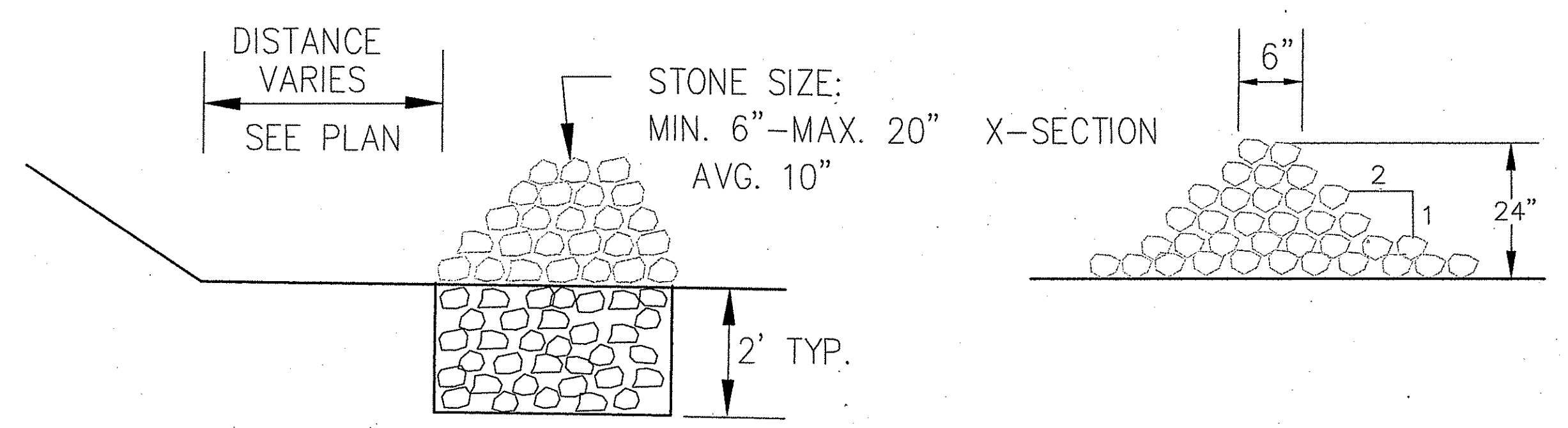
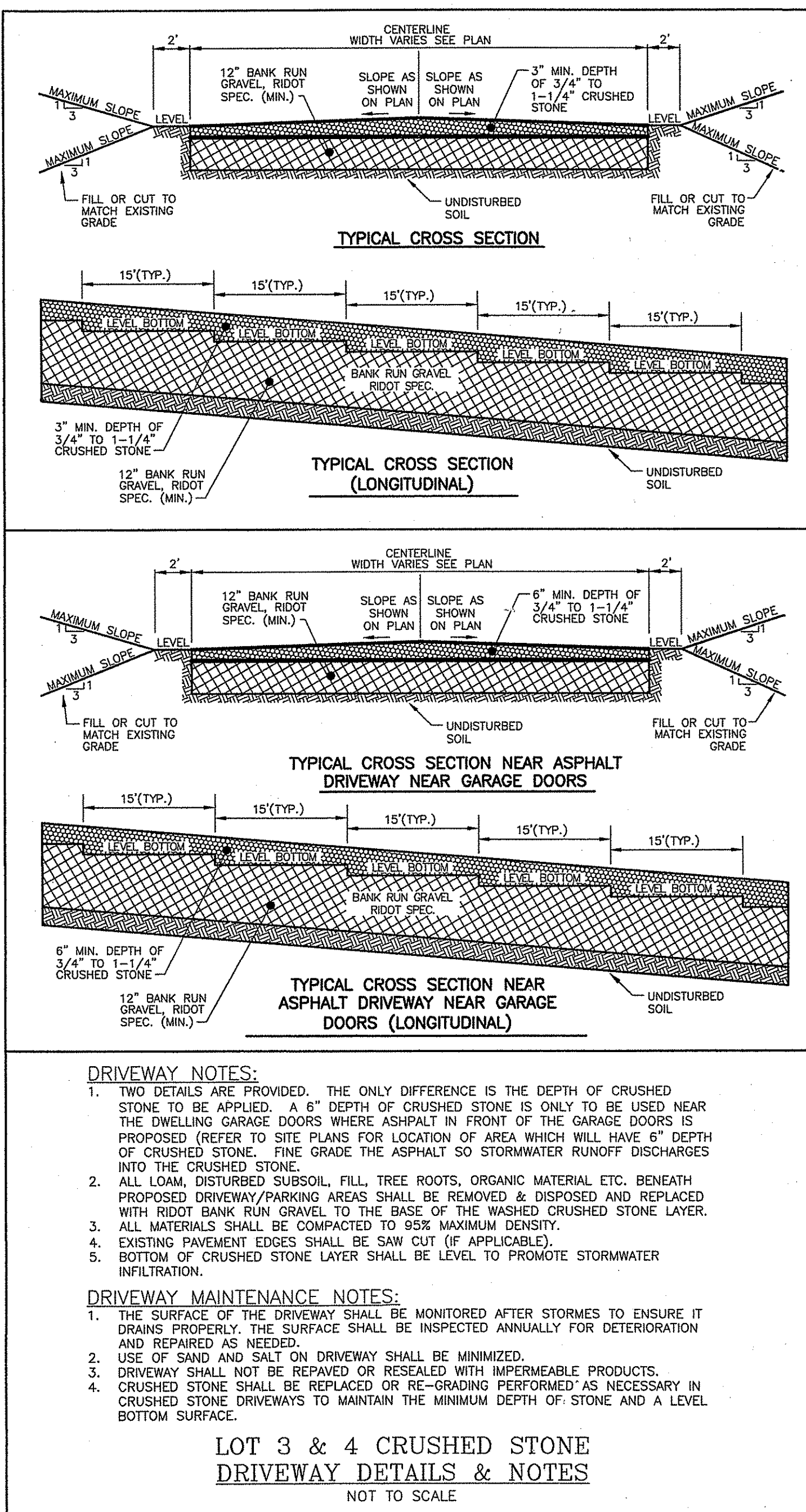
**EROSION CONTROL AND SOIL STABILIZATION PROGRAM:**

1. DENUDE SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASONS.
2. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELISOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
3. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
4. ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
5. 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 RHODE ISLAND STANDARD SPECIFICATION M.20.01.
6. THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
7. THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDING SHALL BE COMPRISED OF THE FOLLOWING:
 

TYPE	% BY WEIGHT	SEEDING DATE
CREeping RED FESCUE	70	APRIL 1 - JUNE 15
ASTORIA BENTGRASS	5	AUGUST 15 - OCTOBER
BIRDFOOT TREFOIL	15	
PERENNIAL RYEGRASS	10	
8. APPLICATION RATE 100 LBS/ACRE  
LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.
9. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR, AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
11. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
12. STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILE SHALL ALSO BE SEEDING AND/OR STABILIZED.
13. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
14. TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
15. ALL PROPOSED PLANTINGS MUST BE ACCOMPLISHED AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION, AND AT LEAST PRIOR TO ANY ON-SITE OCCUPANCY.
16. ALL PROPOSED PLANTINGS MUST BE MAINTAINED BY THE PROPERTY OWNER TO ENSURE SURVIVAL.
17. SHOULD ANY OR ALL OF THE PROPOSED PLANTS FAIL TO SURVIVE AT LEAST ONE (1) FULL GROWING SEASON FROM THE TIME THEY HAVE BEEN PLANTED, THE OWNER SHALL BE FULLY RESPONSIBLE FOR REPLACING AND MAINTAINING THE SAME PLANT SPECIES FOR ONE (1) ADDITIONAL GROWING SEASON.
18. ALL DISTURBED AREAS MUST BE SEEDING OR PLANTED WITHIN THE CONSTRUCTION SEASON.
19. TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.
20. ALL DISTURBED AREAS MUST BE PERMANENTLY SEEDING OR PLANTED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEEDING.
21. SLOPES CONSTRUCTED AT, OR STEEPER THAN, 15% SHALL HAVE TEMPORARY EROSION CONTROL MATTING UTILIZED AS A SUPPORTIVE METHOD IN ADDITION TO THE METHODS DESCRIBED ABOVE.
22. ALL PROPOSED INLETS AND OUTLETS SHALL BE PROTECTED WITH RIPRAP BOTH TEMPORARILY AND PERMANENTLY. SEE DETAIL THIS SHEET.

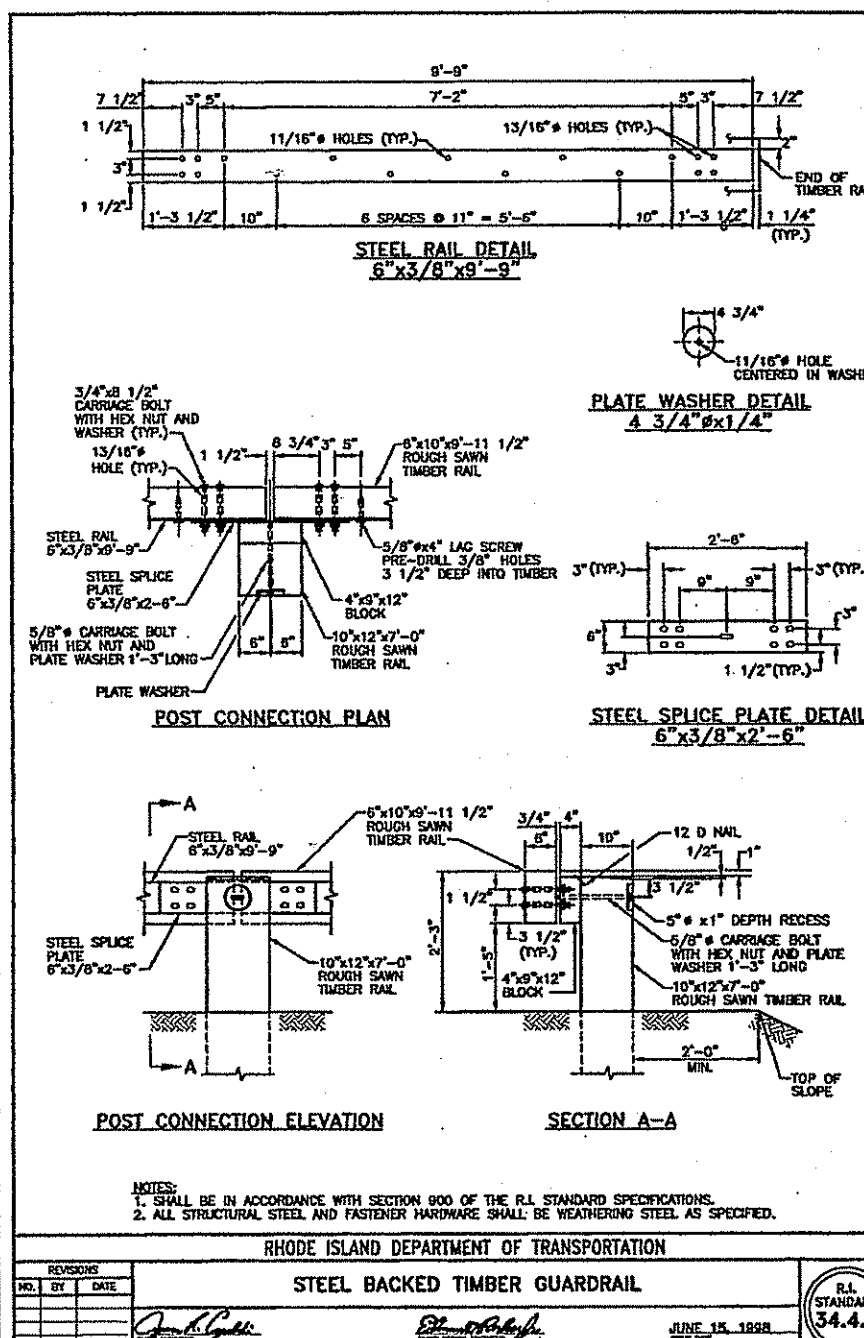
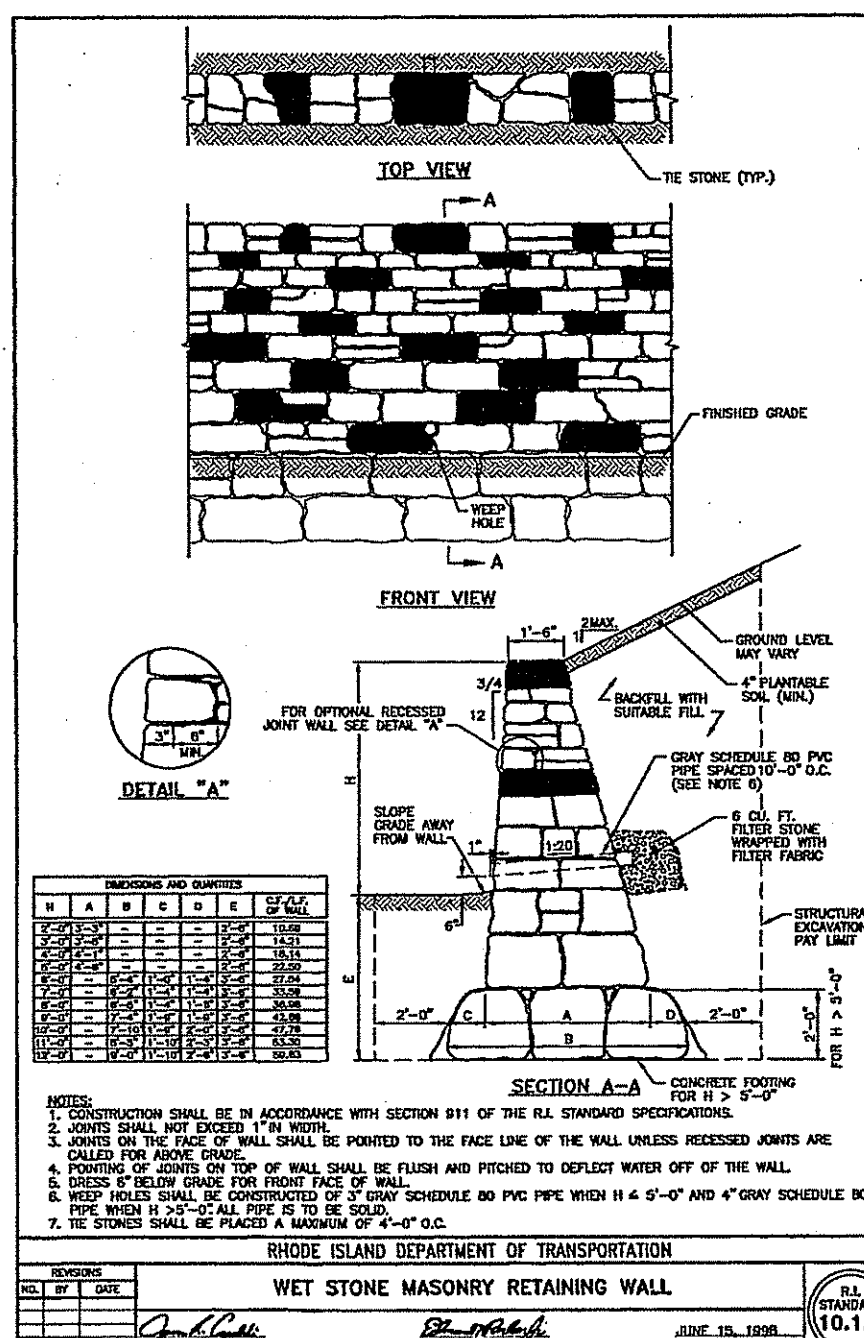
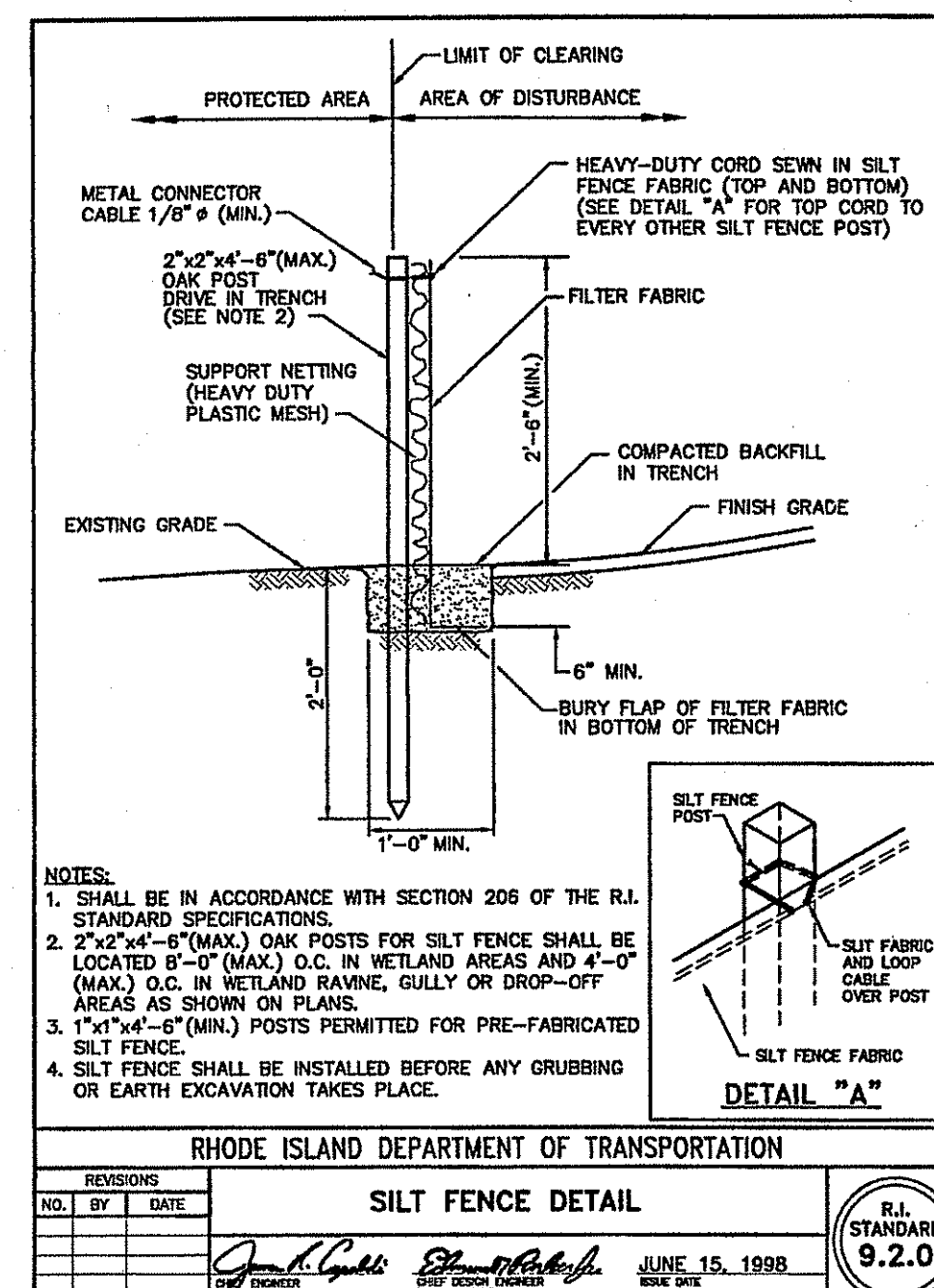
**SEDIMENTATION CONTROL PROGRAM:**

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
2. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS AND PERIODS OF
3. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL. 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 SUBJECTED TO STORMWATER FLOWAGE.
4. ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
5. SEDIMENTATION TRAPS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION.
6. EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED INCLUDING:
  - A) THE INSTALLATION OF A CONTINUOUS LINE OF STAKED HAYBALES IN ALL LOCATIONS SHOWN ON THE APPROVED SITE PLANS AND WHERE OTHERWISE NECESSARY TO PREVENT SEDIMENTS FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
  - B) ALL DISTURBED AREAS ARE TO BE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH SPREAD HAY MULCH.
  - C) CATCH BASINS WILL BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS ARE TO BE CLEANED IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
  - D) OUTFALLS ARE TO BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER.
  - E) ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
7. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
8. UPON COMPLETION OF CONSTRUCTION OF SITE IMPROVEMENTS AND THE STORMWATER DRAINAGE SYSTEM, ALL CATCH BASINS AND STORM DRAIN PIPING SHALL BE CLEANED OF SEDIMENT. DETENTION BASINS SHALL BE CLEANED OF SEDIMENT TO THE DESIGN INDICATIONS.
9. AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE SITE BE SUCH THAT SURFACE RUNOFF WILL BE PERMITTED TO DIRECTLY ENTER ANY DRAINAGE STRUCTURE. A TEMPORARY DEPRESSED AREA AROUND THE STRUCTURE SHALL BE INCORPORATED AS A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH HAYBALES AROUND THE COMPLETE PERIMETER. DURING ALL PRELIMINARY STAGES, THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
10. HAYBALE EROSION CHECKS SHALL BE MAINTAINED AROUND ALL CATCH BASINS UNTIL ALL UPGRADIENT DISTURBED AREAS ARE STABILIZED BY PAVEMENT OR VEGETATION.
11. ALL COMPONENTS OF THE DRAINAGE SYSTEM MUST BE CLEANED OF SEDIMENT BY THE APPLICANT OR HIS REPRESENTATIVE IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.
12. INSPECT TEMPORARY DIVERSIONS AND THEIR COMPONENTS ONCE A WEEK AND AFTER EVERY RAINFALL. DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY SHOULD BE REPAIRED BEFORE THE END OF EACH WORKING DAY. A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH HAYBALES AROUND THE COMPLETE PERIMETER. DURING ALL PRELIMINARY STAGES, THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
13. CHECK DAMS SHALL BE INSTALLED EVERY 300 FEET FOR SLOPES OF 1% OR LESS, EVERY 200 FEET FOR SLOPES OF 2%, EVERY 150 FEET FOR SLOPES OF 3% TO 5%, AND EVERY 100 FEET FOR SLOPES OF 5% OR GREATER.
14. SEDIMENTS SHOULD BE REMOVED FROM THE CHECK DAM WHEN IT REACHES ONE-HALF THE DAM HEIGHT.



**RIP-RAP & BEDDING SPECIFICATIONS (NOT ON LOTS #3 & #4)**

LOCATION	NSA SIZE MODIFIED NO.(RIP-RAP, BEDDING)	DEPTH(RIP-RAP, BEDDING)
PIPE INLETS/OUTLETS	R-3, FS-2	12", 6"
EMERGENCY SPILLWAYS	R-2, FS-1	6", 3"



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED OCT 28 2015 FILE # 15-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**RIDEM WETLAND PERMIT MODIFICATION PLAN**

Kambiz Karbassi  
REGISTERED PROFESSIONAL ENGINEER

**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**  
400 SMITH STREET  
PROVIDENCE, RHODE ISLAND 02908  
401-273-6800

**REVISIONS**

No.	DATE	DRWN	CHKD
1.	7/31/13	JAR	KK
2.	9/19/13	JAR	KK
3.	1/06/14	JAR	KK
4.	9/29/15	TJB	KK

**SPENCER'S CORNER ESTATES**  
SUBDIVISION LOTS #3 & #4  
AP 14 LOT 273 (LOT #3)  
AP 14 LOT 274 (LOT #4)  
in  
EAST GREENWICH, RHODE ISLAND  
CONSTRUCTION DETAILS

SCALE: AS NOTED	SHEET NO: 5 OF 6
DRAWN BY: JAR	DESIGN BY: JAR
CHECKED BY: KK	
DATE: 05/31/13	PROJECT NO.: 12020.00

OWNER/APPLICANT  
GASHY DOWLATSHAH  
1150 OAKLAN AVENUE  
CRANSTON, RI 02910  
TEL.: (401) 463-8588

(NOT ON LOTS #3 & #4)

ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT

85.4" [2169 mm] INSTALLED

OVERLAP NEXT CHAMBER HERE (OVER SMALL CORRUGATION)

BUILD ROW IN THIS DIRECTION

90.7" [2304 mm] ACTUAL

51" [1295 mm]

30" [762 mm]

51" x 30" x 85.4" [1295 mm x 762 mm x 2169 mm]

45.0 CUBIC FEET [1.30 m<sup>3</sup>]

74.9 CUBIC FEET [2.12 m<sup>3</sup>]

75 lbs. [33.6 kg]

NOMINAL CHAMBER SPECIFICATIONS

PART#	STUB	B	C
SC740EP007	8" (150 mm)	10.50" (277 mm)	18.50" (470 mm)
SC740EP008	8" (150 mm)	10.50" (277 mm)	N/A
SC740EP009	8" (150 mm)	10.50" (277 mm)	0.50" (13 mm)
SC740EP010	8" (150 mm)	12.20" (310 mm)	16.50" (419 mm)
SC740EP011	8" (150 mm)	12.20" (310 mm)	N/A
SC740EP012	8" (150 mm)	12.20" (310 mm)	0.60" (15 mm)
SC740EP013	10" (250 mm)	13.40" (340 mm)	14.50" (368 mm)
SC740EP014	10" (250 mm)	13.40" (340 mm)	N/A
SC740EP015	10" (250 mm)	13.40" (340 mm)	0.70" (18 mm)
SC740EP016	12" (300 mm)	14.70" (373 mm)	12.50" (318 mm)
SC740EP017	12" (300 mm)	14.70" (373 mm)	N/A
SC740EP018	12" (300 mm)	14.70" (373 mm)	1.20" (30 mm)
SC740EP019	15" (375 mm)	18.40" (467 mm)	9.00" (229 mm)
SC740EP020	15" (375 mm)	18.40" (467 mm)	N/A
SC740EP021	15" (375 mm)	18.40" (467 mm)	1.30" (33 mm)
SC740EP022	18" (450 mm)	19.70" (500 mm)	5.00" (127 mm)
SC740EP023	18" (450 mm)	19.70" (500 mm)	N/A
SC740EP024	24" (600 mm)	18.50" (470 mm)	0.10" (3 mm)

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

DESIGN ENGINEER RESPONSIBLE FOR ENSURING THE REQUIRED BEARING CAPACITY OF SUBGRADE SOILS

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.

SCALE: NTS  
DATE: 01/15/11  
DRAWN BY: KJL  
CHECKED:

CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS TESTED USING ASTM STANDARDS.

NOMINAL 3/4" - 2" (19 mm - 51 mm) CLEAN, CRUSHED, ANGULAR STONE ADS 601 (STONE SHALL BE WASHED)

NON-WOVEN GEOTEXTILE (OR EQUAL) ALL AROUND ANGULAR STONE

GRANULAR WELL GRADED SOIL/AGGREGATE MIXTURES, <35% FINES, COMPACT IN 6" (152 mm) LIFTS TO 95% STANDARD PROCTOR DENSITY. SEE THE TABLE OF ACCEPTABLE FILL MATERIALS.

PAVEMENT

18" (457 mm) MAX.

90" (2286 mm) MAX.

8" (152 mm) MIN.

30" (762 mm)

DEPTH TO BE DETERMINED BY DESIGN ENGINEER 6" (152 mm) MIN.

SC-740 END CAP

6" (152 mm) MIN.

51" (1295 mm)

12" (305 mm) MIN.

DESIGN ENGINEER RESPONSIBLE FOR ENSURING THE REQUIRED BEARING CAPACITY OF SUBGRADE SOILS

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.

SCALE: NTS  
DATE: 01/15/11  
DRAWN BY: KJL  
CHECKED:

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 AND SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
①	FILL MATERIAL FOR LAYER 1 STARTS FROM THE TOP OF THE CLAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THIS LAYER.	NA	PREPARE PER ENGINEER'S PLANS. PAVEMENT INSTALLATIONS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
②	FILL MATERIAL FOR LAYER 2 STARTS FROM THE TOP OF THE SUBGRADE STONE (B LAYER) TO 18" (457 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THIS LAYER.	3, 3B, 4, 4B, 5, 5B, 6, 6B, 7, 7B, 8, 8B, 9, 9B, 10	BEGIN COMPACTION AFTER 12" (305 mm) OF MATERIAL OVER THE CHAMBER IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (152 mm) LIFTS TO A MIN. 80% STANDARD PROCTOR DENSITY TO 18" (457 mm) ABOVE THE CHAMBER. DYNAMIC FORCE NOT TO EXCEED 12,000 lb (53 kg). DYNAMIC FORCE NOT TO EXCEED 20,000 lb (91 kg).
③	EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE CLAYER ABOVE.	3, 3B, 4, 4B, 5, 5B, 6, 6B, 7, 7B, 8, 8B, 9, 9B, 10	NO COMPACTION REQUIRED.
④	FOUNDATION STONE BELOW CHAMBERS FROM THE SURGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	3, 3B, 4, 4B, 5, 5B, 6, 6B, 7, 7B, 8, 8B, 9, 9B, 10	PLATE COMPACT OR ROLL TO ACHIEVE A 90% STANDARD PROCTOR DENSITY.

PLEASE NOTE:  
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR W/ LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (152 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

DEPTH OF STONE TO BE DETERMINED BY DESIGN ENGINEER 6" (152 mm) MIN.

SCALE: NTS  
DATE: 3/25/10  
DRAWN BY: KJL  
CHECKED:

NOTES:  
1. INSPECTION PORT MUST BE CONNECTED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER.  
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

NYLOPLAST 12" [300 mm] IN LINE DRAIN COVER AND FRAME (SEE NYLOPLAST DWG# 7003-110-044 FOR PAVED APPLICATIONS / SEE DWG# 7003-110-045 FOR UNPAVED APPLICATIONS)

4" (100 mm) SCHED 40 SCREW-IN CAP

CONCRETE COLLAR

PAVEMENT

4" (100 mm) SCHED 40 PVC

4" (100 mm) SCHED 40 PVC COUPLING

4" (100 mm) SCHED 40 PVC

SC-740 CHAMBER

6" (152 mm)

20" (508 mm)

NOMINAL 3/4" - 2" INCH (19 mm - 51 mm) CLEAN CRUSHED ANGULAR STONE (STONE SHALL BE WASHED)

ADS 601 NON-WOVEN GEOTEXTILE (OR EQUAL)

CORE 4.5" (114 mm) Ø HOLE IN CHAMBER (4.5" HOLE SAW REQ'D)

CONNECTION DETAIL NTS

SCALE: NTS  
DATE: 6/15/11  
DRAWN BY: KJL  
CHECKED:

INILTRATION BASIN GEOMETRY

BASIN	LENGTH (CENTERLINE)	WIDTH (MIN./MAX.)	BOTTOM AREA	FOREBAY LENGTH (CENTERLINE)
1	76 FT.	9 FT./41 FT.	1,970 S.F.	27 FT.
2	98 FT.	4 FT./72 FT.	3,481 S.F.	45 FT.
3	NONE PROPOSED ON LOT 3			
4	NONE PROPOSED ON LOT 4			
5	190 FT.	1 FT./58 FT.	8,804 S.F.	52 FT.

INILTRATION SYSTEM NOTES:  
1. ALL UPSTREAM AREAS TO THE PROPOSED INILTRATION SYSTEMS SHALL BE STABILIZED PRIOR TO DELIVERING ANY RUNOFF INTO THE RESPECTIVE SYSTEMS.  
2. PROPOSED BMPs ARE NOT ALLOWED TO SERVE AS SEDIMENTATION BASINS DURING CONSTRUCTION. BMP AREAS SHALL BE PROTECTED BY SURROUNDING THE SYSTEM WITH EROSION CONTROLS TO PREVENT SUCH USE.  
3. SNOW FENCING SHALL BE PLACED AROUND ALL INILTRATION SYSTEMS TO PREVENT CONSTRUCTION EQUIPMENT FROM COMPACTING THE AREAS.

SCALE: NTS  
DATE: 02/07/10  
DRAWN BY: KJL  
CHECKED:

CONCEPTUAL LAYOUT

7 STORMTECH SC-740 CHAMBERS INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 40% STONE VOID

INLET FROM DRAIN BASIN

24" PREFABRICATED END CAP / PART # SC740EP24B TYP OF ALL SC-740 24" AND ISOLATOR ROW CONNECTIONS

PLACE MINIMUM 12" OF AASHTO M88 CLASS 1 WOVEN GEOTEXTILE OVER BEDDING STONE FOR SLOPE PROTECTION AT ALL CHAMBER INLET ROWS

MANIFOLD NOTE:  
DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT & COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.

SCALE: NTS  
DATE: 01/15/11  
DRAWN BY: KJL  
CHECKED:

SPENCER'S CORNER ESTATES EAST GREENWICH, RI

DATE	DRAWN	CHECKED	DESCRIPTION

TO WOOD ROAD, SUITE 3 ROCKY HILL, CT 06067  
P: 860-262-2889  
WWW.STORMTECH.COM

DATE: 4/23/13  
PROJECT:  
DRAWN: SCALE: NTS  
CHECKED: PAGE: OF

LOT	LOT 2	LOT 3	LOT 3	LOT 4	LOT 5
		(3 UNIT)	(4 UNIT)		
GROUND WATER ELEVATION	284.0	276.0	282.0	283.0	276.0
BOTTOM ELEVATION (STONE)	273.0	287.0	286.0	287.0	280.0
TOP ELEVATION (STONE)	276.3	283.3	289.5	290.5	283.5
100 YEAR STORM WATER ELEVATION	275.78	282.78	288.78	289.78	282.78

SCALE: NTS  
DATE: 01/15/11  
DRAWN BY: KJL  
CHECKED:

ROOF INFILTRATION MAINTENANCE NOTES:  
1. INFILTRATION PRACTICES SHALL BE INSPECTED ANNUALLY AND REPAIRED IF NECESSARY TO ENSURE PROPER DRAINAGE.  
2. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE SURFACE OF THE INFILTRATION PRACTICE ANNUALLY.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED OCT 20 2015 FILE # 15-0215  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OWNER/APPLICANT:  
GASHY DOWLATSHAHI  
1150 OAKLAN AVENUE  
CRANSTON, RI 02910  
TEL.: (401) 463-8588

LOTS 1-5 INFILTRATION BASIN DETAIL

NOT TO SCALE

	LOT 2	N/A	LOT 1	LOT 5
GROUND WATER ELEVATION	284.0	N/A	272.0	280.0
BASIN FLOOR ELEVATION	288.0	N/A	276.0	286.0
BASIN TOP ELEVATION	290.0	N/A	277.0	285.0
100 YEAR STORM WATER ELEVATION	288.84	N/A	276.96	287.58
EMERGENCY OVERFLOW ELEVATION	289.0	N/A	266.75	287.75

RISER PIPE (IF SHOWN ON PLAN) OVERFLOW INFILTRATION BASIN ONLY (SEE DETAIL THIS SHEET)

BASIN EMERGENCY OVERFLOW LOCATED ON LOT 1, 2 & 5 INFILTRATION BASIN

6" SANDY LOAM & SEED FINISH GRADE

6" SAND LAYER

BASIN FLOOR ELEVATION

BASIN BERM

12" RISER

ANTI-VORTEX BARRIER #2

PRE-FABRICATED STEEL ROD

100 YR STORM ELEVATION

BASIN FLOOR ELEVATION

RIP-RAP OUTLET PROTECTION

FLARED END SECTION INVERT

RISER PIPE INVERT

12" HDPE DIA. PIPE LENGTH / SLOPE

SCALE: 1"=40' HORIZONTAL, 1"=4' VERTICAL

INDIVIDUAL BUILDING ROOF INFILTRATION UNITS FOR LOTS 1 - 5 (STORMTECH SC-740 UNITS OR APPROVED EQUAL)

\* SIZING FOR 2,400 SF BUILDING FOOTPRINT REQUIRES 7 SC-740 UNITS. LOTS #3 AND #4 HOUSE FOOTPRINTS ARE LESS THAN 2,400 SF

EXISTING ELEVATION

292

291

290

289

288

287

286

285

284

283

282

281

280

FILL CRITERIA TO MATCH EXISTING SOILS

PROPOSED ELEVATION

292

291

289

288

287

286

285

284

283

282

281

280

SECTION A-A  
VIEW THROUGH LOT 5 INFILTRATION BASIN  
SEE SHEET 5  
SCALE: 1"=40' HORIZONTAL, 1"=4' VERTICAL

ROOF LEADER COLLECTOR DETAIL

NOT TO SCALE

BUILDING

ROOF LEADER (4") (SEE STRUCTURE PLANS FOR BUILDING ANCHORAGE)

6" x 4" PVC WYE (SYSTEM OVERFLOW)

FINISH GRADE

BACKFILL MATERIAL SHALL BE CRUSHED STONE OR GRAVEL MATERIAL MEETING CLASS 1 OR 2 AS SPECIFIED IN ASTM D2321  
BACKFILL MATERIAL SHALL BE PLACED UNIFORMLY IN 12" LIFTS AND COMPACTED

6" HDPE

6" HDPE MITER 90° ELBOW

TO INFILTRATION SYSTEM

RIDEM WETLAND PERMIT MODIFICATION PLAN

Kambiz Karbassi  
No. 4737  
REGISTERED PROFESSIONAL ENGINEER

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

SPENCER'S CORNER ESTATES SUBDIVISION LOTS #3 & #4  
AP 14 LOT 273 (LOT #3)  
AP 14 LOT 274 (LOT #4)  
in  
EAST GREENWICH, RHODE ISLAND  
CONSTRUCTION DETAILS

SCALE: AS NOTED SHEET NO: 6 OF 6  
DRAWN BY: JAR DESIGN BY: JAR CHECKED BY: KK  
DATE: 05/31/13 PROJECT NO.: 12020.00

REVISIONS

No.	DATE	DRWN	CHKD
1.	7/31/13	JAR	KK
2.	9/19/13	JAR	KK
3.	1/06/14	JAR	KK
4.	9/29/15	TJB	KK