

# FINAL SUBDIVISION PLANS

FOR PROPOSED:

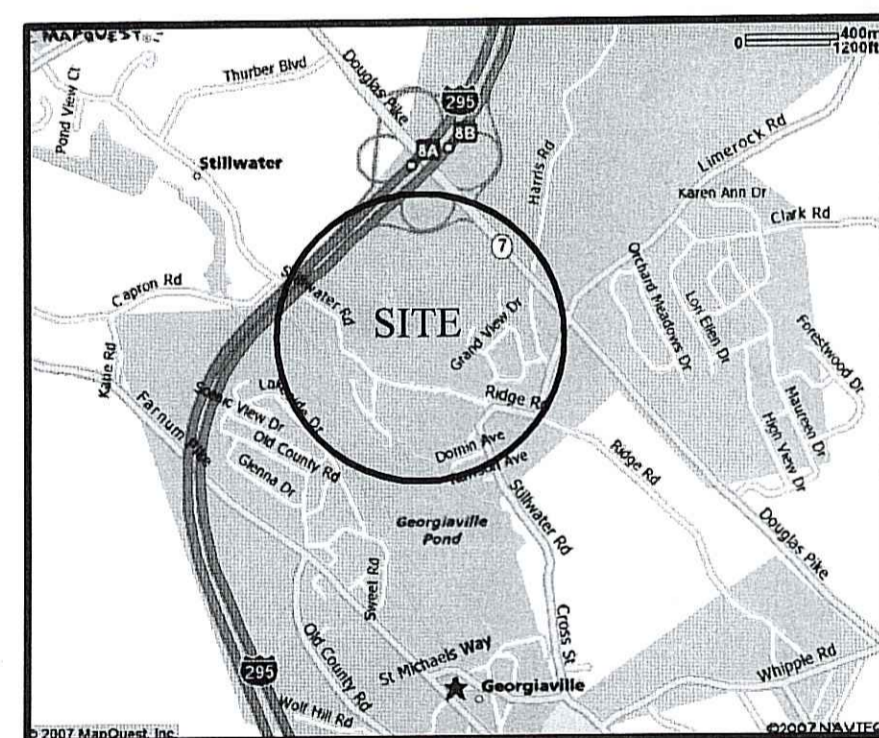
# SLEEPY ACRES SUBDIVISION

SITUATED AT:

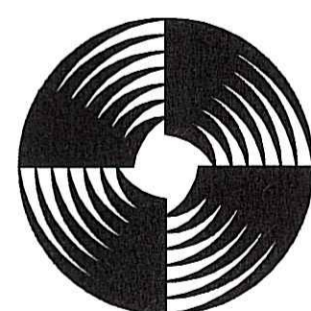
**A.P. 46, LOTS 83 AND 83A**

**STILLWATER ROAD**  
**SMITHFIELD, RHODE ISLAND**

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



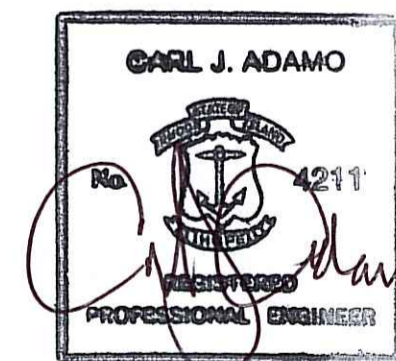
LOCUS MAP  
NOT TO SCALE



PREPARED BY:

**GAROFALO**

GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS  
 85 CORLISS STREET, P.O. BOX 6145 PROVIDENCE, RI 02940  
 401-273-6000



**INTERNATIONAL MAPPING & SURVEYING CORP.**

19 INDUSTRIAL DRIVE SMITHFIELD, RI 02917  
 REVISED MARCH 4, 1991

PREPARED FOR:

**SLEEPY ACRES, LLC.**  
 37 PLEASANT VIEW AVENUE  
 GREENVILLE, RI 02828

MARCH 13, 2007  
 JOB NO. 6438

**SHEET INDEX**

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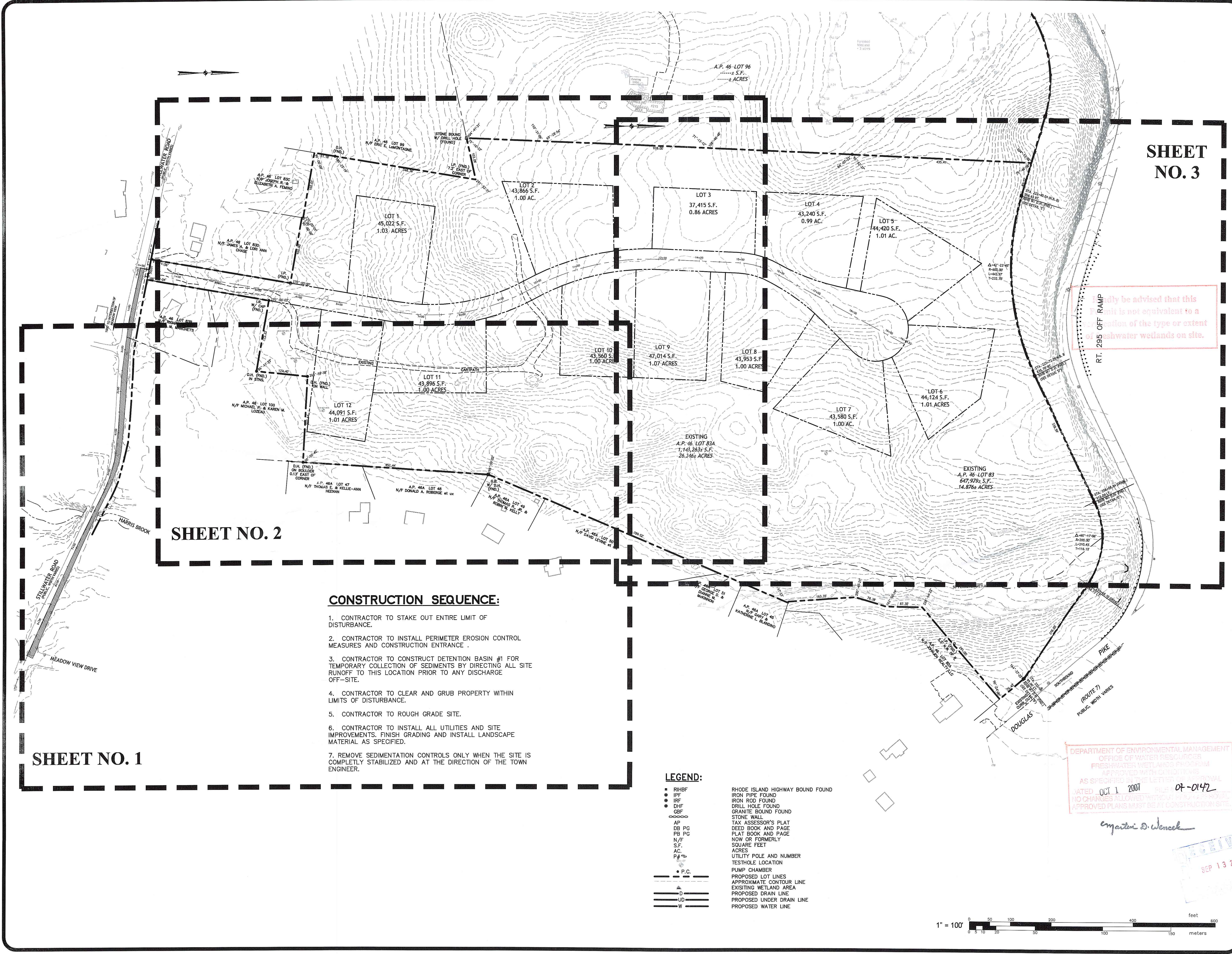
MASTER PLAN APPROVED ON NOVEMBER 16, 2006  
 PRELIMINARY APPROVED ON JULY 26, 2007

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED OCT 1 2007 FILE # 09-0142  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.



*Signature*

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**SHEET NO. 3**

**SHEET NO. 2**

**SHEET NO. 1**

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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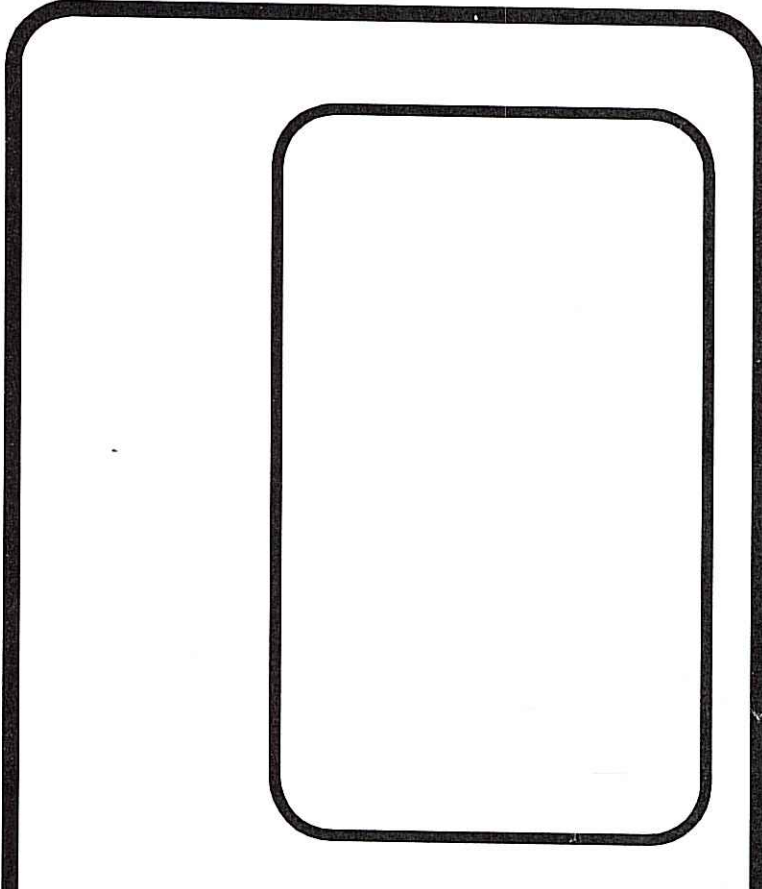
*Ernest S. Wencel*

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SEP 13 2007



**SHEET INDEX PLAN**  
OF  
**STILLWATER SUBDIVISION**  
A.P. 46, LOTS 83 AND 83A  
SITUATED ON  
**STILLWATER ROAD**  
SMITHFIELD, RHODE ISLAND  
PREPARED FOR  
**SLEEPY ACRES, LLC.**

NO.	REVISION	BY	DATE

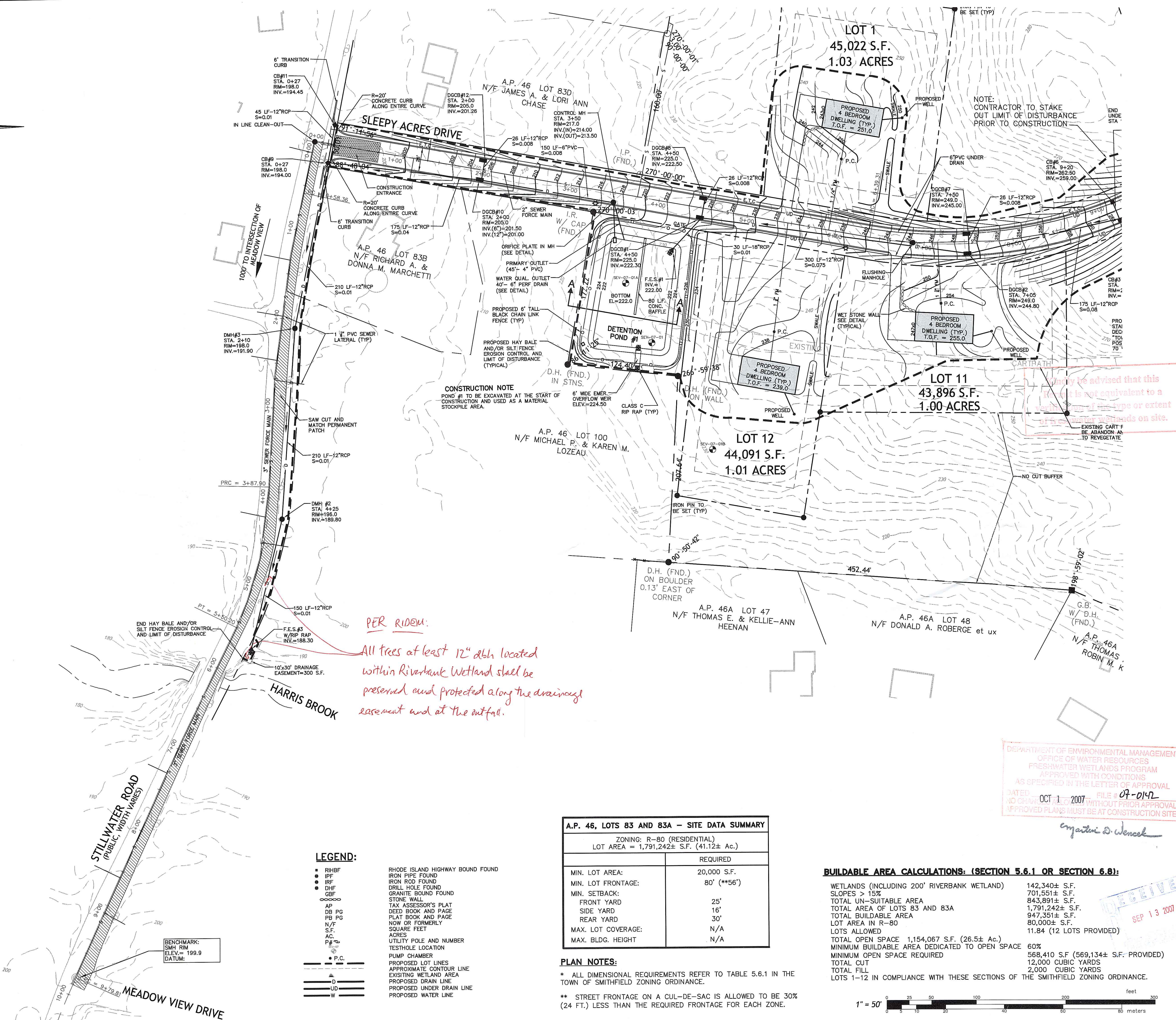


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PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

JOB NO. 6438-00	DRAWN BY: R.R.D.
DWG. NO. 6438\CURRENT\6438-BASE	CHECKED: N.J.P.
SCALE: 1" = 100'	APPROVED: N.J.P.
SHEET	DATE: 02-26-07

**C1**



*PER RIDEM:*  
 All trees at least 12" dbh located within Riverbank Wetland shall be preserved and protected along the drainage easement and at the outfall.

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*Angela D. Wenczel*

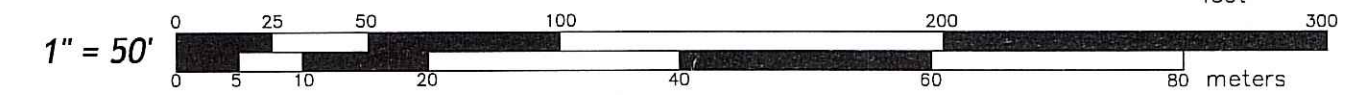
**A.P. 46, LOTS 83 AND 83A - SITE DATA SUMMARY**

ZONING: R-80 (RESIDENTIAL)	
LOT AREA = 1,791,242± S.F. (41.12± Ac.)	
	REQUIRED
MIN. LOT AREA:	20,000 S.F.
MIN. LOT FRONTAGE:	80' (**56')
MIN. SETBACK:	
FRONT YARD:	25'
SIDE YARD:	16'
REAR YARD:	30'
MAX. LOT COVERAGE:	N/A
MAX. BLDG. HEIGHT:	N/A

**BUILDABLE AREA CALCULATIONS: (SECTION 5.6.1 OR SECTION 6.8):**

WETLANDS (INCLUDING 200' RIVERBANK WETLAND)	142,340± S.F.
SLOPES > 15%	701,551± S.F.
TOTAL UN-SUITABLE AREA	843,891± S.F.
TOTAL AREA OF LOTS 83 AND 83A	1,791,242± S.F.
TOTAL BUILDABLE AREA	947,351± S.F.
LOT AREA IN R-80	80,000± S.F.
LOTS ALLOWED	11.84 (12 LOTS PROVIDED)
TOTAL OPEN SPACE	1,154,067 S.F. (26.5± Ac.)
MINIMUM BUILDABLE AREA DEDICATED TO OPEN SPACE	60%
MINIMUM OPEN SPACE REQUIRED	568,410 S.F. (569,134± S.F. PROVIDED)
TOTAL CUT	12,000 CUBIC YARDS
TOTAL FILL	2,000 CUBIC YARDS
LOTS 1-12 IN COMPLIANCE WITH THESE SECTIONS OF THE SMITHFIELD ZONING ORDINANCE.	

**PLAN NOTES:**  
 \* ALL DIMENSIONAL REQUIREMENTS REFER TO TABLE 5.6.1 IN THE TOWN OF SMITHFIELD ZONING ORDINANCE.  
 \*\* STREET FRONTAGE ON A CUL-DE-SAC IS ALLOWED TO BE 30% (24 FT.) LESS THAN THE REQUIRED FRONTAGE FOR EACH ZONE.



**SITE PLAN 1**  
 OF  
**STILLWATER SUBDIVISION**  
 A.P. 46, LOTS 83 AND 83A  
 SITUATED ON  
 STILLWATER ROAD  
 SMITHFIELD, RHODE ISLAND  
 PREPARED FOR  
 SLEEPY ACRES, LLC.

NO.	REVISION	BY	DATE
1	REVISIONS PER TOWN	RRD	4/19/07
2	REVISIONS PER TOWN & DEM	RRD	7/27/07
3	POND 1 BAFFLE PER RIDEM	SSH	9/12/07

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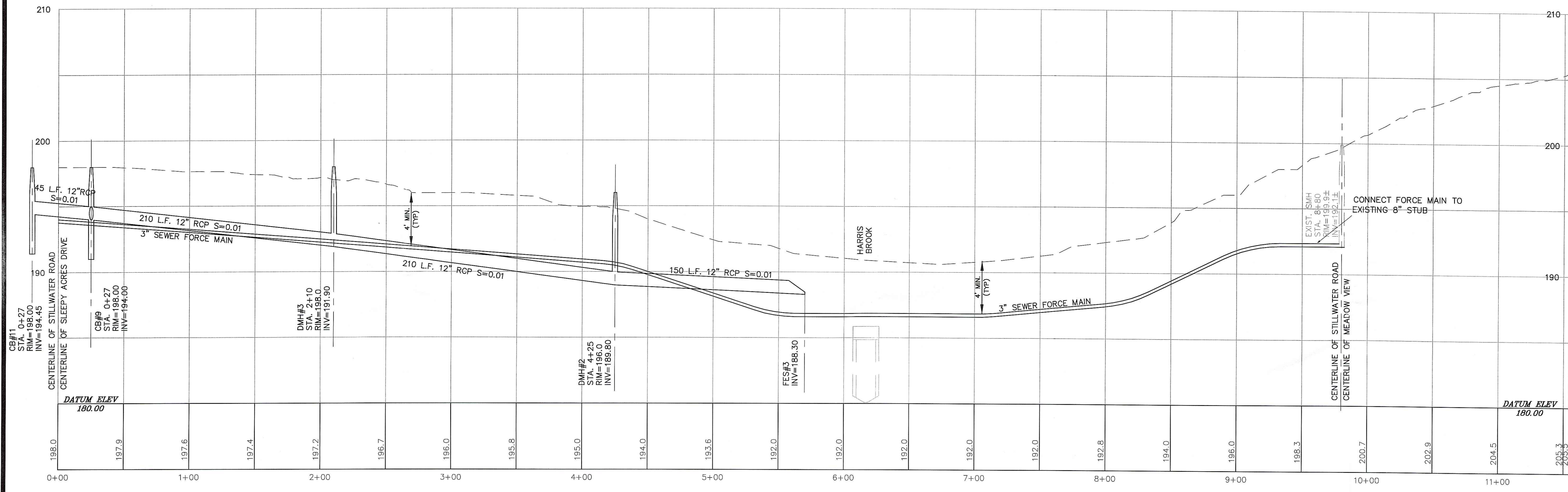
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DWG. NO. 6438/CURRENT/6438-BASE	CHECKED: N.J.P.
SCALE: 1" = 50'	APPROVED: N.J.P.
	DATE: 02-26-07

SHEET  
**C2**  
 4 OF 13 SHEETS





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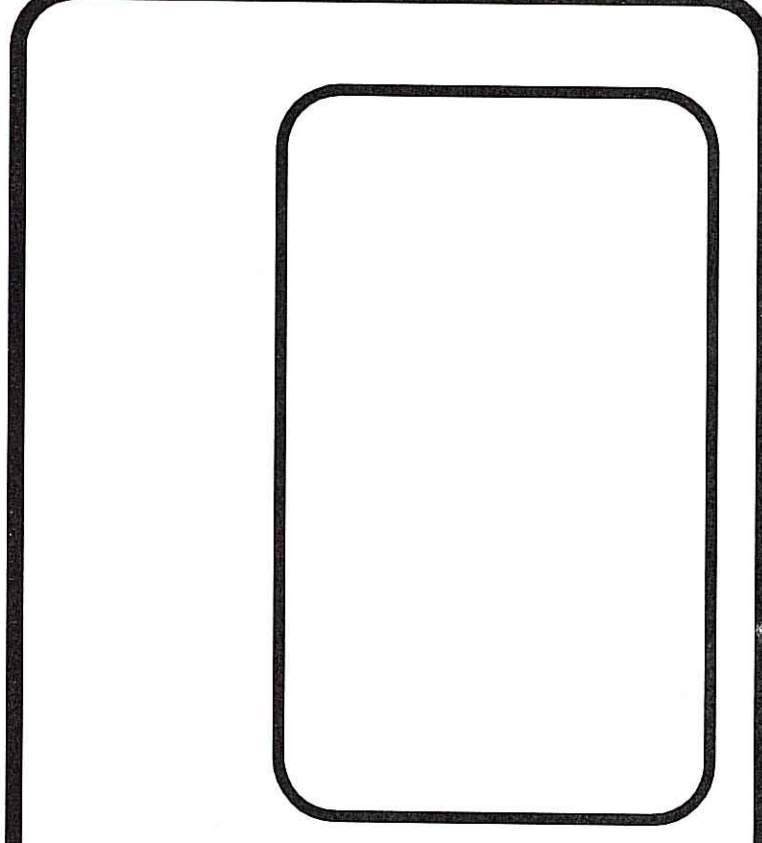
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

**STILLWATER ROAD**  
 HORIZONTAL SCALE: 1"=40'  
 VERTICAL SCALE: 1"=4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 OCT 1 2007 FILE # 07-0142  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 CONTACT THE WETLANDS SECTION AT CONSTRUCTION SITE  
*Martina D. Wencel*

**STILLWATER ROAD PROFILE 1**  
 OF  
**STILLWATER SUBDIVISION**  
 A.P. 46, LOTS 83 AND 83A  
 SITUATED ON  
 STILLWATER ROAD  
 SMITHFIELD, RHODE ISLAND  
 PREPARED FOR  
**SLEEPY ACRES, LLC.**

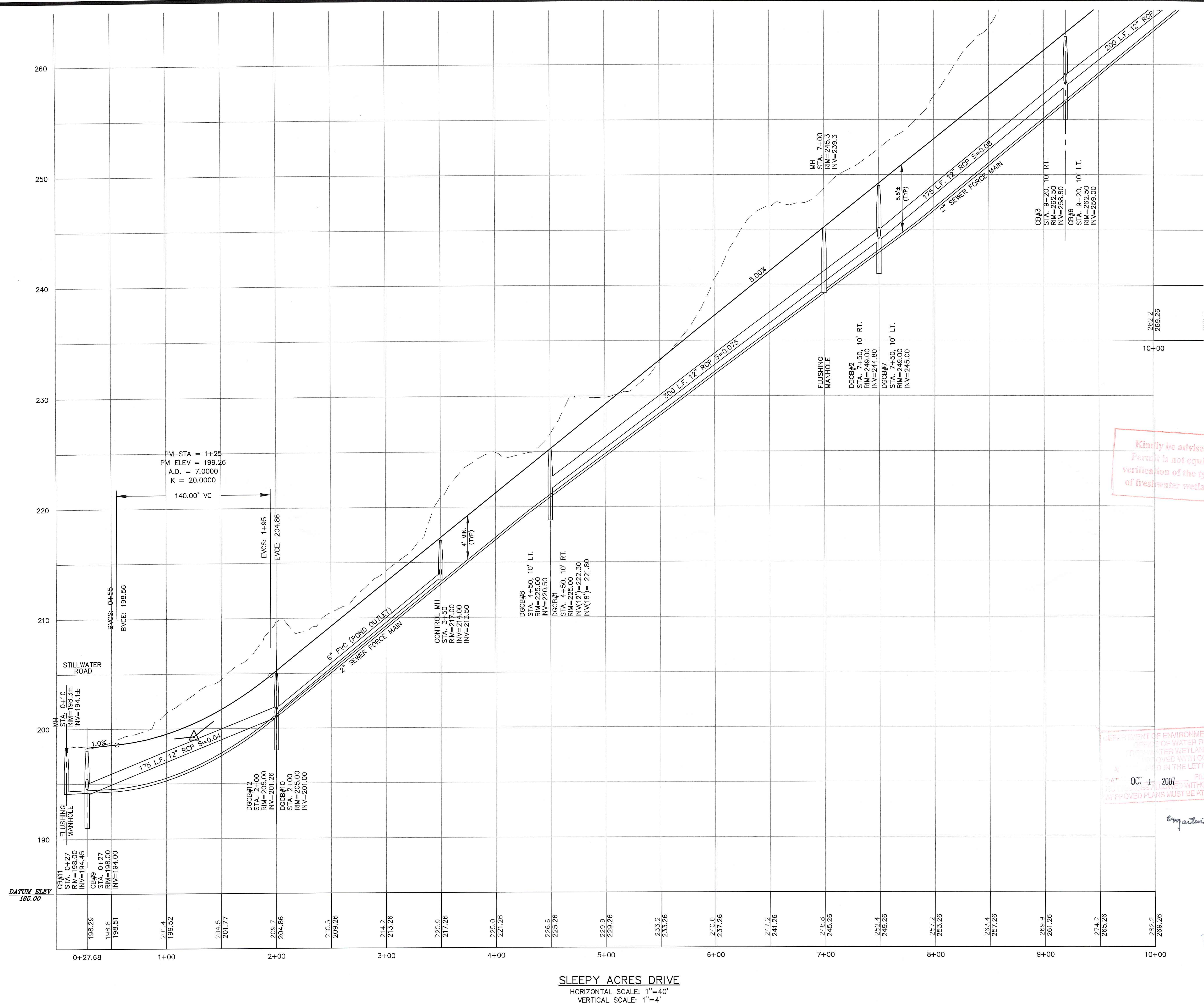
NO.	REVISION	BY	DATE
1	REVISIONS PER TOWN	RRD	4/19/07



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 TEL. 401-273-6000

JOB NO. 6438-00	DRAWN BY: R.R.D.
DWG. NO. 6438\CURRENT\6438-BASE	CHECKED: N.J.P.
SCALE: (HOR): 1" = 40' (VERT): 1" = 4'	APPROVED: N.J.P.
	DATE: 02-26-07

SHEET  
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**C5**  
 7 OF 13 SHEETS



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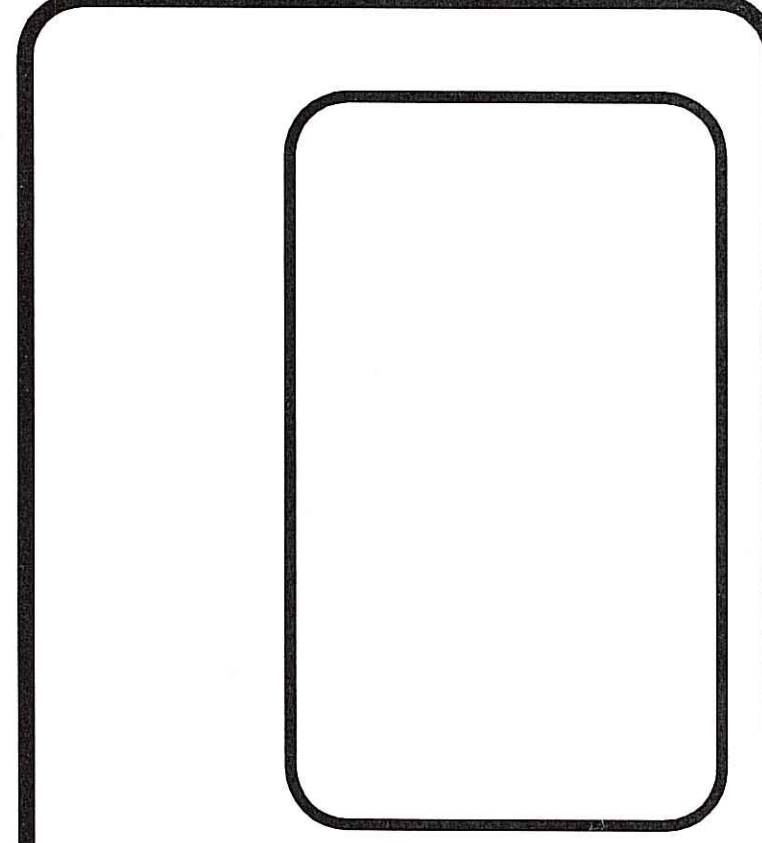
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 STATE OF NEW JERSEY  
 PERMITTING DIVISION  
 WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SHOWN IN THE LETTER OF APPROVAL  
 FILE # 07-0142  
 OCT 1 2007  
 APPROVED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Myatani D. Wencel*

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**SLEEPY ACRES DRIVE PROFILE 2**  
 OF  
**STILLWATER SUBDIVISION**  
 A.P. 46, LOTS 83 AND 83A  
 SITUATED ON  
 STILLWATER ROAD  
 SMITHFIELD, RHODE ISLAND  
 PREPARED FOR  
**SLEEPY ACRES, LLC.**

NO.	REVISION	BY	DATE
1	REVISIONS PER TOWN	RRD	4/19/07
2	REVISIONS PER TOWN & DEM	RRD	7/27/07

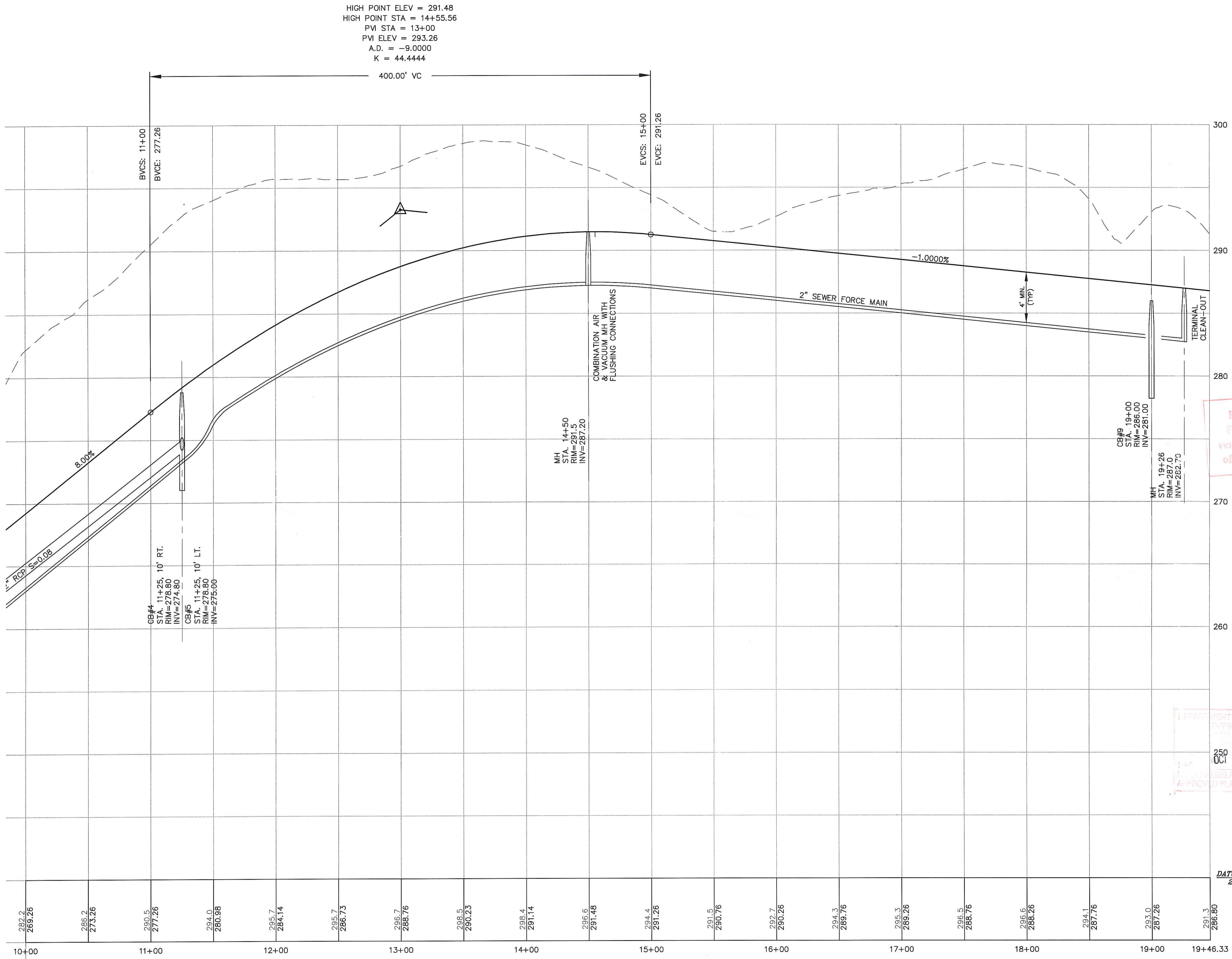


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JOB NO. 6438-00	DRAWN BY: R.R.D.
DWG. NO. 6438-CURRENT/6438-BASE	CHECKED: N.J.P.
SCALE: (HOR): 1" = 40' (VERT): 1" = 4'	APPROVED: N.J.P.
	DATE: 02-26-07

SHEET  
**C6**  
 8 OF 13 SHEETS

**SLEEPY ACRES DRIVE**  
 HORIZONTAL SCALE: 1"=40'  
 VERTICAL SCALE: 1"=4'



**STILLWATER SUBDIVISION**  
HORIZONTAL SCALE: 1"=40'  
VERTICAL SCALE: 1"=4'

**SLEEPY ACRES DRIVE PROFILE 3**  
OF  
**STILLWATER SUBDIVISION**  
A.P. 46, LOTS 83 AND 83A  
SITUATED ON  
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SMITHFIELD, RHODE ISLAND  
PREPARED FOR  
**SLEEPY ACRES, LLC.**

NO.	REVISION	BY	DATE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
DATE: OCT 1 2007 FILE # 07-0142  
ALL WORKS ALLOWED WITHOUT PRIOR APPROVAL  
AS PROVIDED PLANS MUST BE AT CONSTRUCTION SITE.

*Anthony D. Wenczek*

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LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

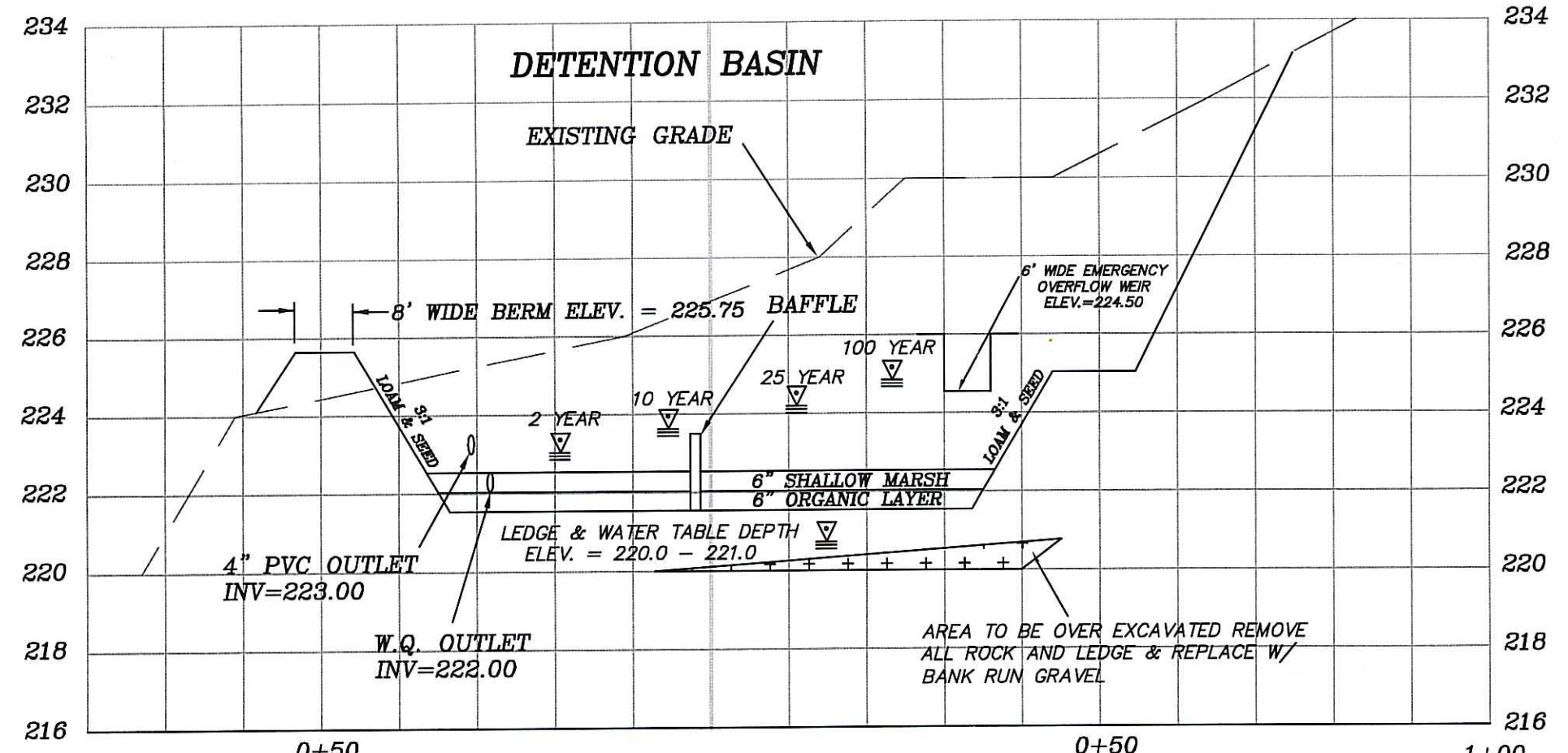
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DWG. NO. 6438\CURRENT\6438-BASE	CHECKED: N.J.P.
SCALE: (HOR): 1" = 40' (VERT): 1" = 4'	APPROVED: N.J.P.
	DATE: 02-26-07

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SHEET  
**C7**  
9 OF 13 SHEETS

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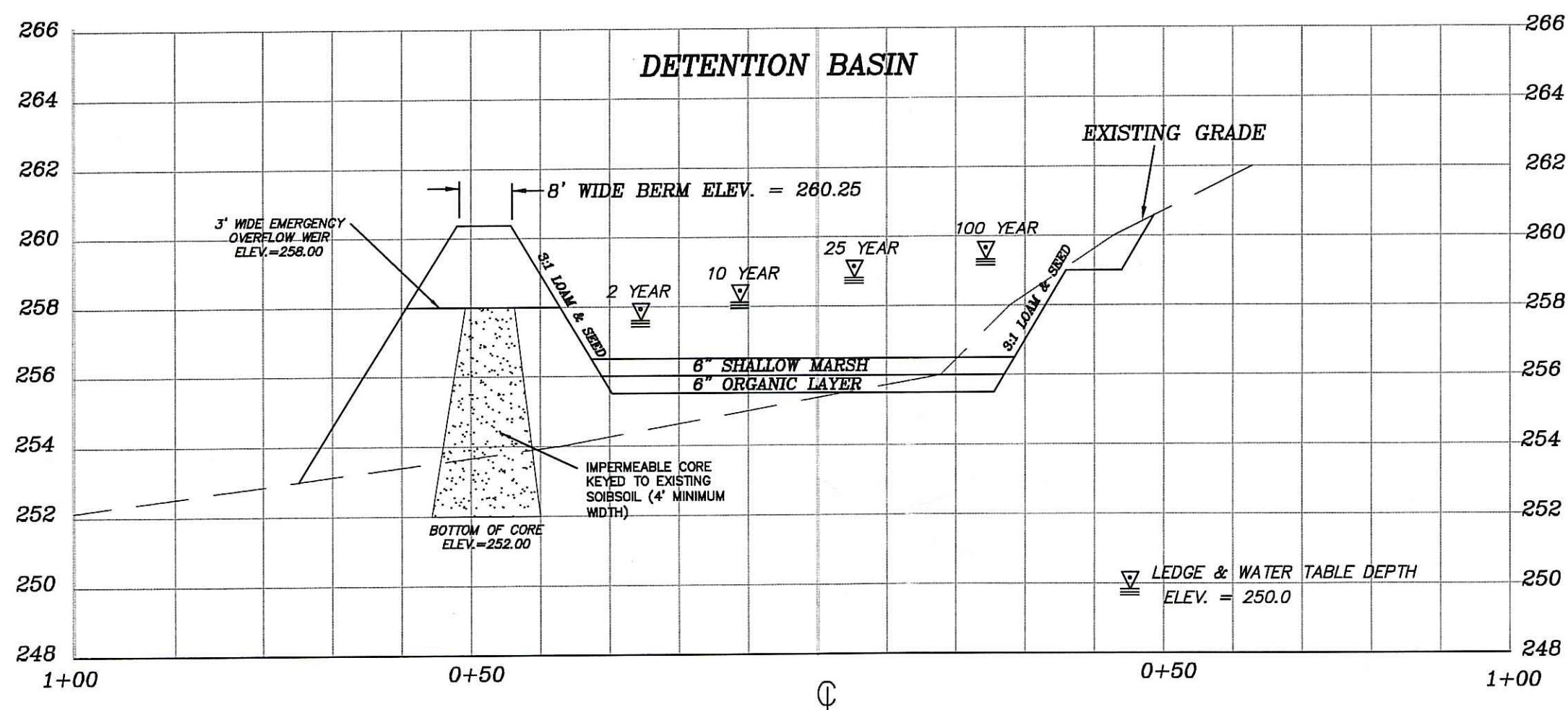


**DETENTION BASIN DATA (POND #1)**

2 YEAR STORM ELEVATION = 223.14  
STORAGE VOLUME = 0.242 AC.FT.  
10 YEAR STORM ELEVATION = 223.76  
STORAGE VOLUME = 0.393 AC.FT.  
25 YEAR STORM ELEVATION = 224.28  
STORAGE VOLUME = 0.524 AC.FT.  
100 YEAR STORM ELEVATION = 224.70  
STORAGE VOLUME = 0.635 AC.FT.

**EXTENDED DETENTION BASIN (POND 1) SECTION A-A**

SCALE: 1" = 4' (VERT.)  
1" = 20' (HOR.)

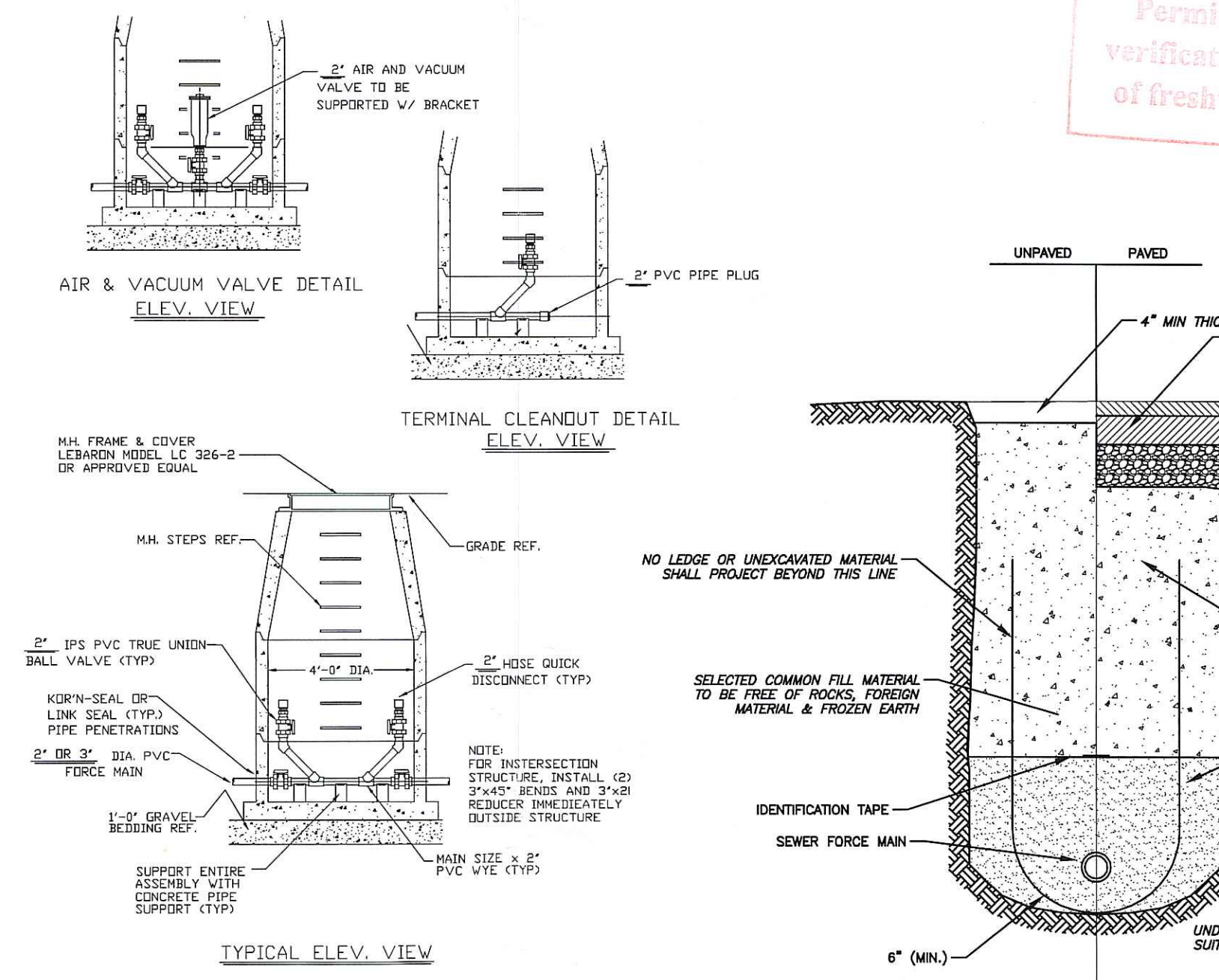
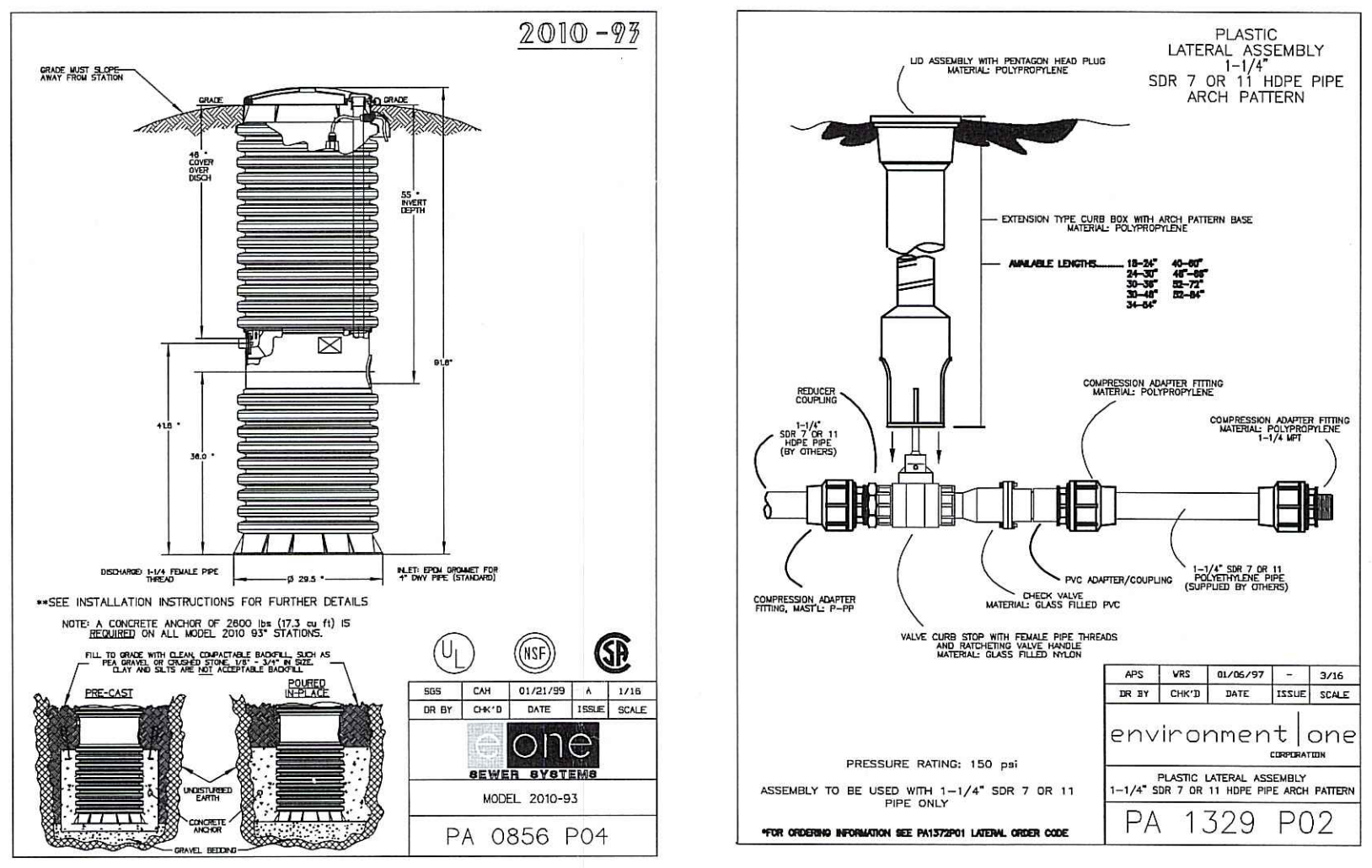


**DETENTION BASIN DATA (POND #2)**

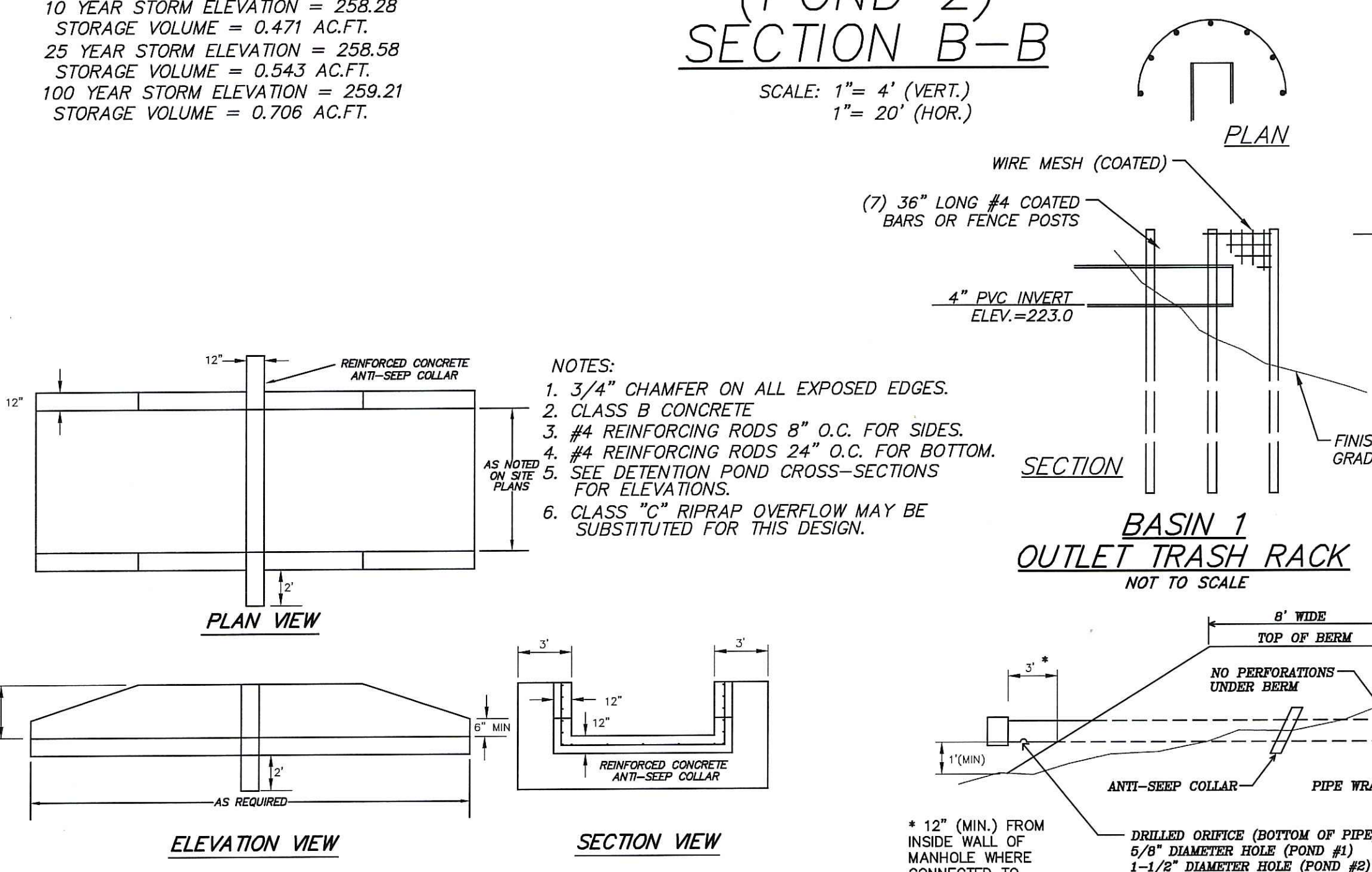
2 YEAR STORM ELEVATION = 257.62  
STORAGE VOLUME = 0.318 AC.FT.  
10 YEAR STORM ELEVATION = 258.28  
STORAGE VOLUME = 0.471 AC.FT.  
25 YEAR STORM ELEVATION = 258.58  
STORAGE VOLUME = 0.543 AC.FT.  
100 YEAR STORM ELEVATION = 259.21  
STORAGE VOLUME = 0.706 AC.FT.

**EXTENDED DETENTION BASIN (POND 2) SECTION B-B**

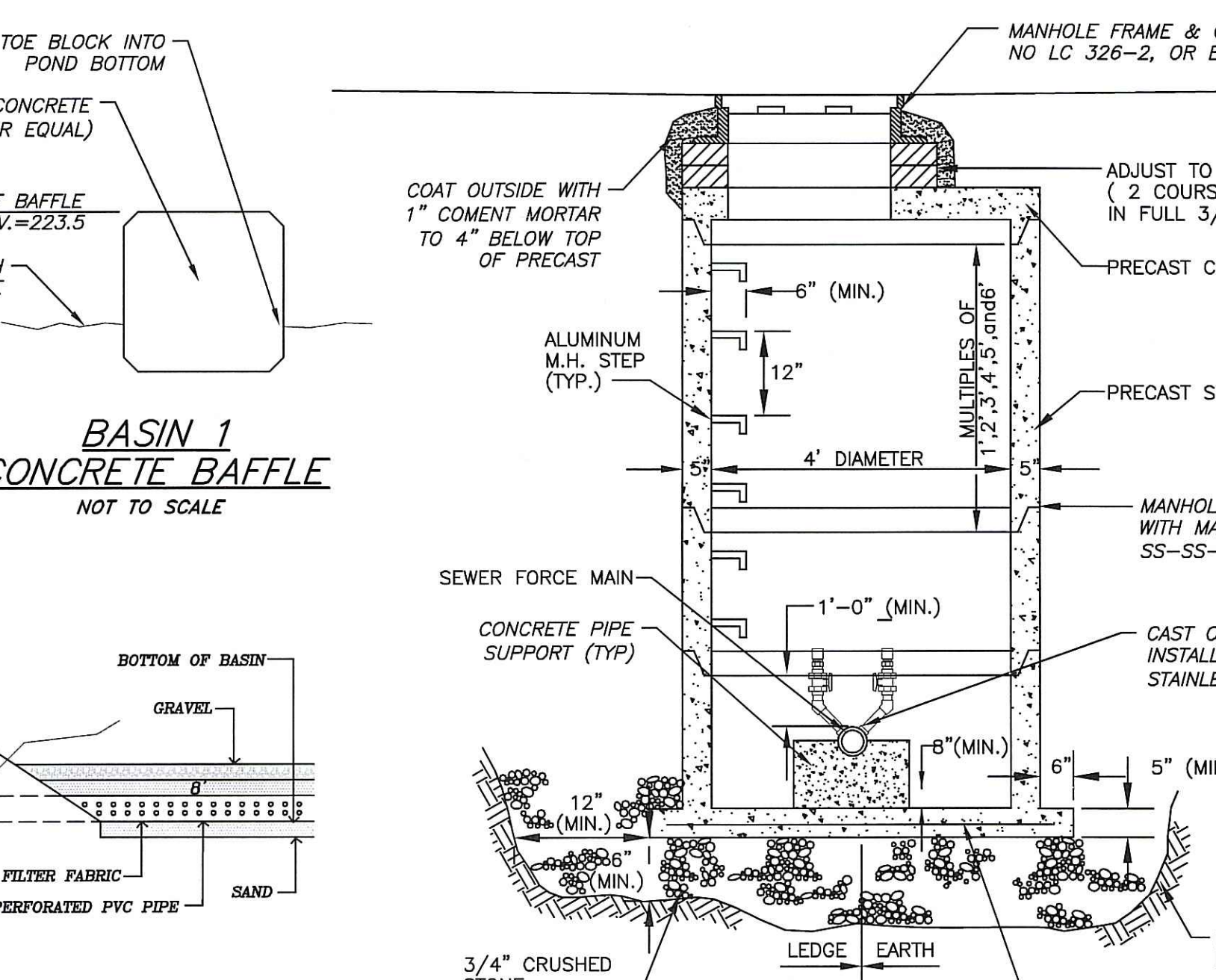
SCALE: 1" = 4' (VERT.)  
1" = 20' (HOR.)



THESE DRAWING ARE DIAGRAMATIC ONLY AND HAS BEEN DEVELOPED FROM BASE INFORMATION PROVIDED BY F.R. MAHONY & ASSOCIATES, INC. (REF. DWG FRM 3 & 3B)



- NOTES:**
- 3/4" CHAMFER ON ALL EXPOSED EDGES.
  - CLASS B CONCRETE
  - #4 REINFORCING RODS 8" O.C. FOR SIDES.
  - #4 REINFORCING RODS 24" O.C. FOR BOTTOM.
  - SEE DETENTION POND CROSS-SECTIONS FOR ELEVATIONS.
  - CLASS "C" RIPRAP OVERFLOW MAY BE SUBSTITUTED FOR THIS DESIGN.



**EMERGENCY OVERFLOW WEIR (TYPICAL)**  
NOT TO SCALE

**WATER QUALITY OUTLET/PERFORATED DRAIN DETAIL**  
NOT TO SCALE

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

- GENERAL NOTES:**
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE AND THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO START OF ANY WORK.
  - IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES AND TO MAINTAIN THE INTEGRITY OF THE SAME. ANY DAMAGE TO AND THE COST OF REPAIR OF UTILITIES, ROADWAYS, STRUCTURES AND SURROUNDING PROPERTY SHALL BE FULLY BORNE BY THE CONTRACTOR.
  - ALL WORKMANSHIP AND MATERIALS SHALL MEET OR EXCEED THE LATEST STANDARDS OF THE MUNICIPALITY AND THE LATEST STATE STANDARDS AND SPECIFICATIONS PUBLISHED FOR ROAD AND BRIDGE CONSTRUCTION.
  - CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES, THE MUNICIPAL PUBLIC WORKS DEPARTMENT, FIRE DEPARTMENT AND THE DEPARTMENT OF TRANSPORTATION FOR VERIFICATION OF APPROVED LOCATIONS SHOWN HEREON PRIOR TO START OF CONSTRUCTION. IF ANY DISCREPANCIES ARE NOTED, THE CONTRACTOR SHALL CONTACT THIS ENGINEER IMMEDIATELY FOR A RESOLUTION.
  - THE LOCATION OF ALL EXISTING UTILITIES IS APPROXIMATE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
  - CONTACT DIG-SAFE AND UTILITY COMPANIES FOR EXACT ON-SITE LOCATION OF EXISTING UNDERGROUND UTILITIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.
  - CONTRACTOR SHALL OBTAIN REQUIRED INSPECTION SCHEDULE OF THE MUNICIPALITY, UTILITY COMPANIES AND ALL OTHER REQUIRED PARTIES AND SHALL STRICTLY ADHERE TO THOSE REQUIREMENTS.
  - ALL DRAINAGE PIPING SHALL BE REINFORCED CONCRETE CLASS III UNLESS OTHERWISE NOTED.
  - ALL CONTRACTORS SHALL ADHERE TO ALL CONDITIONS OF CONSTRUCTION APPROVALS, INCLUDING BUT NOT LIMITED TO THE APPROVAL FROM THE TOWN OF SMITHFIELD, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ANY OTHER AGENCY HAVING APPROVAL JURISDICTION OVER THE PROJECT. CONTRACTOR SHALL KEEP A COPY OF ALL APPROVALS ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL READ ALL APPROVALS PRIOR TO START OF CONSTRUCTION AND SHALL CLARIFY ANY QUESTIONS BEFOREHAND.
  - ALL SEWER WORK MUST CONFORM TO THE TOWN OF SMITHFIELD, RHODE ISLAND PUBLIC WORKS DEPARTMENT, SPECIFICATIONS AND DETAILS FOR THE INSTALLATION OF SEWERS AND APPURTENANCES BY PRIVATE DEVELOPERS.
  - ALL SEWER SERVICE LATERALS SHALL BE CAPPED OR PLUGGED. ENDS OF THE LATERALS SHALL BE MARKED WITH A SIX FOOT LONG NO. 2 STEEL RE-BAR WITH A 6-INCH BY 6-INCH BY 1/4-INCH PLATE WELDED TO THE TOP OF THE BAR. THE PLATE SHALL EXTEND TO 12-INCHES BELOW THE GROUND SURFACE.

**DETENTION BASIN MAINTENANCE**

- GRASSES MUST BE PLANTED AROUND AND WITHIN THE BASIN IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION.
- SIDE-SLOPES, EMBANKMENTS, AND THE UPPER STAGE OF THE BASIN MUST BE MOWED AT LEAST ONCE DURING THE GROWING SEASON BY AUGUST 15TH. ALL TRASH AND LITTER SHALL BE REMOVED FROM THE BASINS DURING MOWING OPERATIONS.
- SEDIMENTS MUST BE REMOVED FROM THE BASINS AT TEN YEAR INTERVALS AND AS NECESSARY.
- THE OUTLET STRUCTURE AND ALL OUTFLOW CHANNELS MUST BE INSPECTED ANNUALLY. EXTENDED DETENTION DEVICES MUST BE INSPECTED AT LEAST TWICE A YEAR. INSPECTIONS DURING THE FIRST SIX MONTHS OF OPERATIONS MUST BE ACCOMPLISHED OFTEN, ESPECIALLY AFTER RAINFALL EVENTS.
- THE GRASSED AREAS OF THE BASIN MUST BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION. PROBLEM AREAS MUST BE RESEEDED IMMEDIATELY.
- SIDE-SLOPES, EMBANKMENTS, AND THE UPPER STAGE OF BASINS SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON, TO PREVENT UNWANTED WOODY GROWTH.
- ALL TRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES. THIS MUST BE ACCOMPLISHED AT LEAST TWICE A YEAR, PREFERABLY SPRING AND FALL.
- INSPECTIONS OF ALL DRAINAGE STRUCTURES ON-SITE SHALL OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES MUST BE CORRECTED IMMEDIATELY.
- THE TOWN OF SMITHFIELD WILL BE RESPONSIBLE FOR MAINTAINING ALL SWALES, DETENTION BASIN, AND OTHER DRAINAGE STRUCTURES ON-SITE.
- REPAIRS OR REPLACEMENT OF INLET / OUTLET STRUCTURES, RIP-RAP CHANNELS, OR OTHER ELEMENTS OF THE FACILITY MUST BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR / REPLACEMENT MUST BE DONE IMMEDIATELY.

\*11. THE STILLWATER ROAD DRAINAGE OUTFALL (FES#3) SHALL BE INSPECTED SEMI-ANNUALLY FOR CHANNEL EROSION ADJACENT TO HARRIS BROOK. ANY SIGNIFICANT SCOUR SHALL BE REPAIRED IMMEDIATELY. IF EXCESSIVE EROSION IS NOTED, EXTENSION OF THE RIPRAP SHALL BE PERMITTED AND INSTALLED AS WARRANTED BY FIELD CONDITIONS.  
\*PER RIDER:  
Revised note 11 according to Permit 4 condition No.15.

**DETENTION BASIN CONSTRUCTION NOTES**

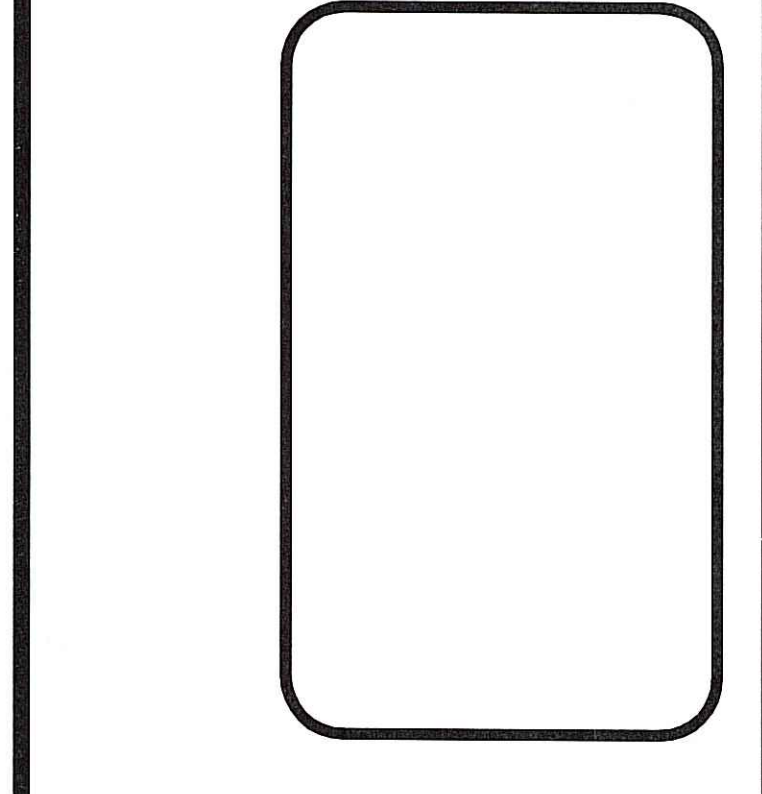
- DETENTION BASIN BERM AREAS ARE TO BE CONSTRUCTED WITH COMMON BORROW COMPACTED TO 95% AND THEN LOAMED AND SEEDED.
- TREES AND SHRUBS SHALL NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENT.
- DISTURBED AREAS ARE TO BE LOAMED A MINIMUM OF 4" AND SEEDED WITH A CONSERVATION TYPE MIXTURE.
- ALL CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".
- NO WATER SHALL BE ALLOWED TO LEAVE A DETENTION BASIN UNTIL AN APPROVED STAND OF GRASS HAS BEEN ESTABLISHED.

**GENERAL LANDSCAPING NOTES:**

- ALL DISTURBED AREAS ARE TO BE REVEGETATED AS SOON AS POSSIBLE. ALL BANKS AND SLOPING AREAS ARE TO RECEIVE A MINIMUM OF 4" OF CLEAN TOPSOIL. THEN SEED AND FERTILIZE. LEVEL AREAS TO RECEIVE 4" MIN. OF CLEAN TOPSOIL, SEED AND FERTILIZE.
- SEED AND SOD SHALL CONSIST OF A BLEND OF KENTUCKY BLUE GRASSES. PLANT BY SUPPLIER'S SPECIFICATIONS.
- LIME SHALL BE APPLIED AS NECESSARY.
- USE OF HAY OR STRAW MULCH DURING SLOPE STABILIZATION IN CONJUNCTION WITH TEMPORARY SEEDING. APPLY MULCH AT A RATE OF 75 TO 100 LBS. PER 1000 SQUARE FEET.
- STOCKPILE ALL STRIPPED TOPSOIL FOR LATER USE. THE LOCATION IS TO BE APPROVED BY THE TOWN ENGINEER. MULCH AND TEMPORARY SEED THE STOCKPILE.
- REMOVE ALL ROCKS 3" OR LARGER IN PLANTING AREA.
- ALL CLEARING SHALL CONFORM TO THE LIMITS AS SHOWN ON PLANS. CLEARING LIMITS ARE TO BE MARKED IN THE FIELD BY THE ENGINEER.

**CONSTRUCTION DETAILS 1**  
OF  
**STILLWATER SUBDIVISION**  
A.P. 46, LOTS 83 AND 83A  
SITUATED ON  
**STILLWATER ROAD**  
**SMITHFIELD, RHODE ISLAND**  
PREPARED FOR  
**SLEEPY ACRES, LLC.**

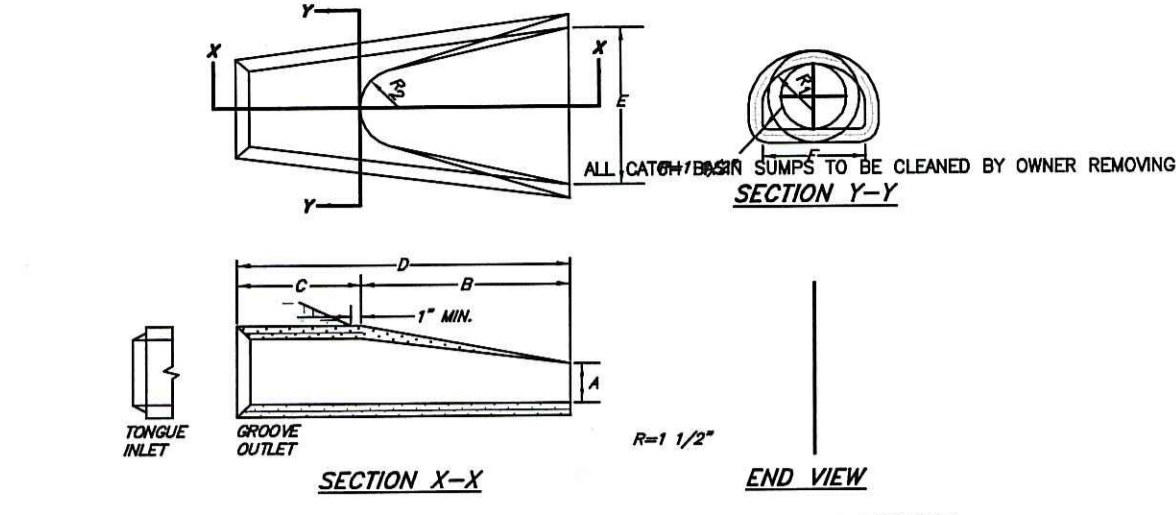
NO.	REVISION	BY	DATE
1	REVISIONS PER TOWN	RRD	4/19/07
2	POND SECTION & DETAILS PER RIDER	SSH	7/21/07
3	BASIN 1 DETAILS PER RIDER	SSH	9/12/07



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS  
P.O. BOX 6145  
85 CORLISS STREET  
PROVIDENCE, R.I. 02940  
TEL: 401-273-6000

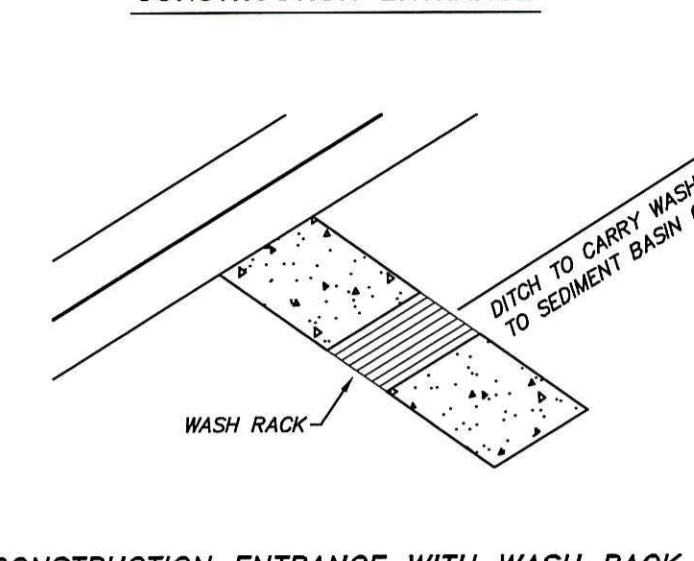
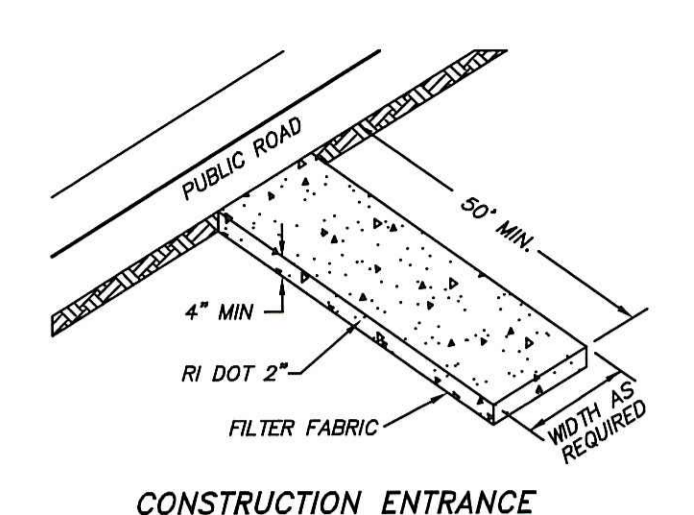
JOB NO.	6438-00	DRAWN BY:	R.R.D.
DWG. NO.	6438(CURRENT)6438-DETAILS	CHECKED:	N.J.P.
SCALE:	AS NOTED	APPROVED:	N.J.P.
SHEET		DATE:	02-26-07

**C8**  
10 OF 13 SHEETS



DIMENSIONS										
DL	A	B	C	D	E	F	G	H	I	J
12"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
15"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"
18"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"
21"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"
24"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
27"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"
30"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"
33"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"
36"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
39"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"
42"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"
45"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"
48"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"
51"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"
54"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"
57"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"
60"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
63"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"
66"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"
69"	6'-9"	6'-9"	6'-9"	6'-9"	6'-9"	6'-9"	6'-9"	6'-9"	6'-9"	6'-9"
72"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"

PRECAST CONCRETE FLARED END SECTION  
NOT TO SCALE

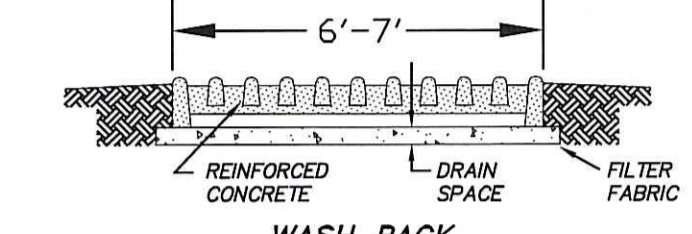


CONSTRUCTION ENTRANCE WITH WASH RACK  
NOT TO SCALE

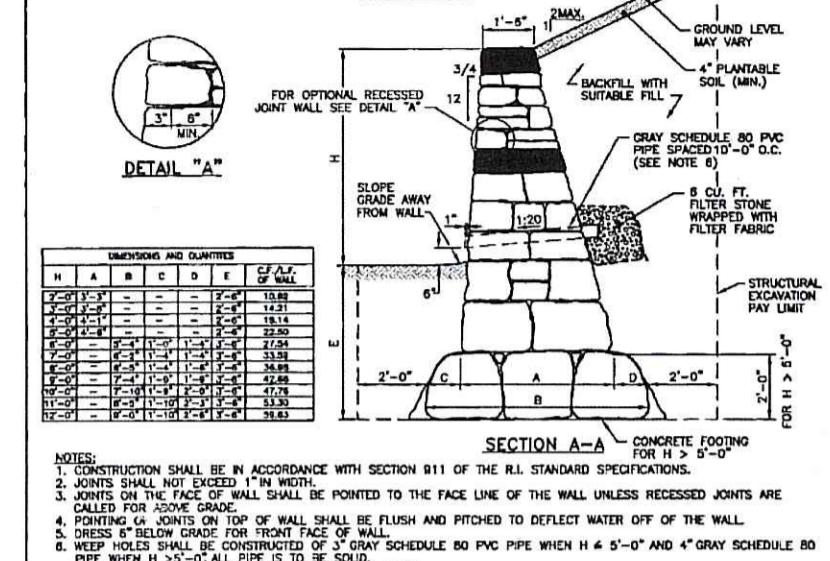
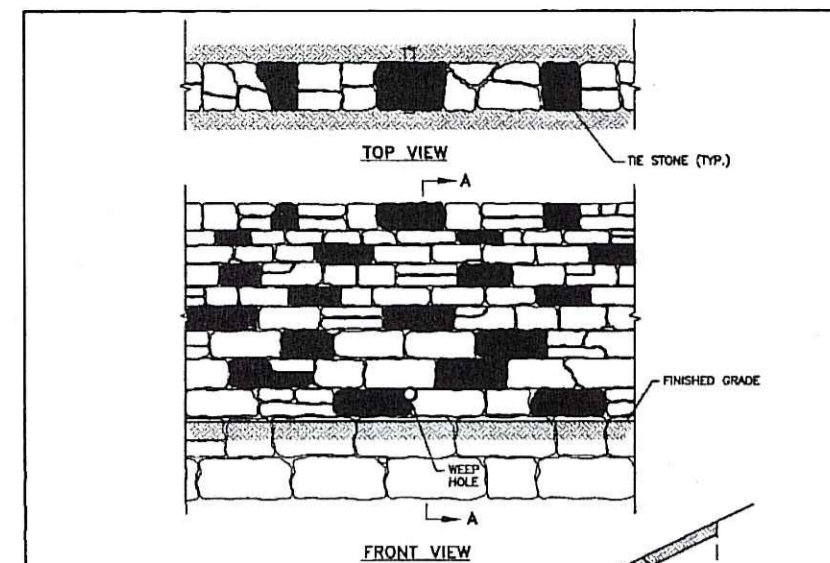
SQUARE MESH SIEVES (INCHES)	MATERIALS SIZE		
	2" CRUSHED STONE OR GRAVEL % FINER	ASTM C-33 NO. 30 % FINER	ASTM C-33 NO. 3 % FINER
2-1/2	100	90-100	100
2	95-100	35-70	90-100
1-1/2	30-55	0-15	35-70
1-1/4	0-25	0-25	—
1	0-5	0-5	—
3/4	—	0-5	—
1/2	—	—	—
3/8	—	—	—

INSTALLATION REQUIREMENTS  
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. A STABILIZATION FILTER CLOTH CAN BE PLACED ON THE SUBGRADE PRIOR TO THE GRAVEL PLACEMENT TO PREVENT PUMPING. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

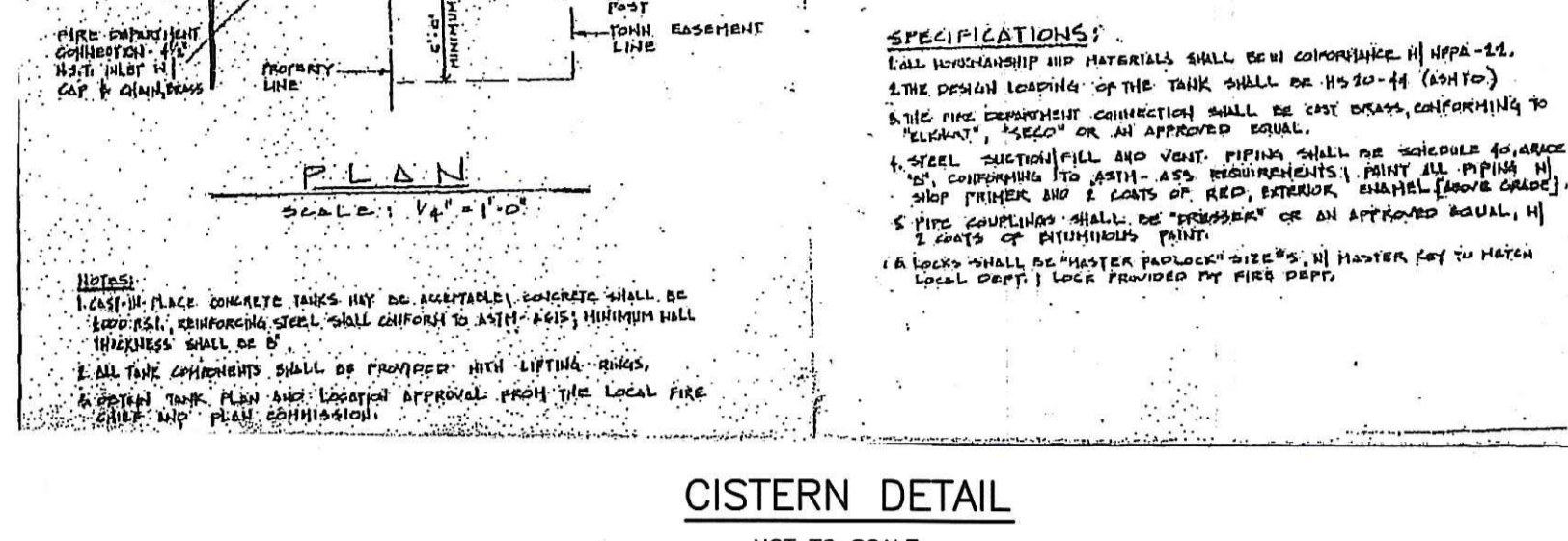
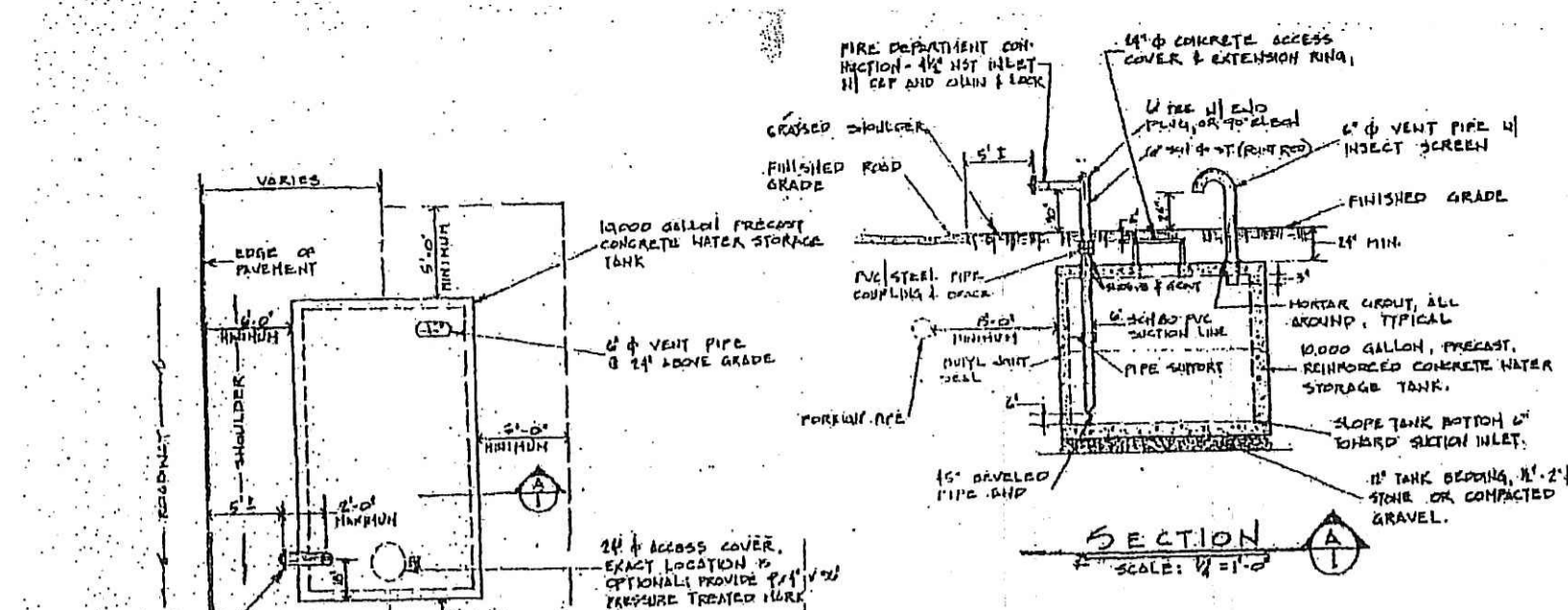
MAINTENANCE  
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.



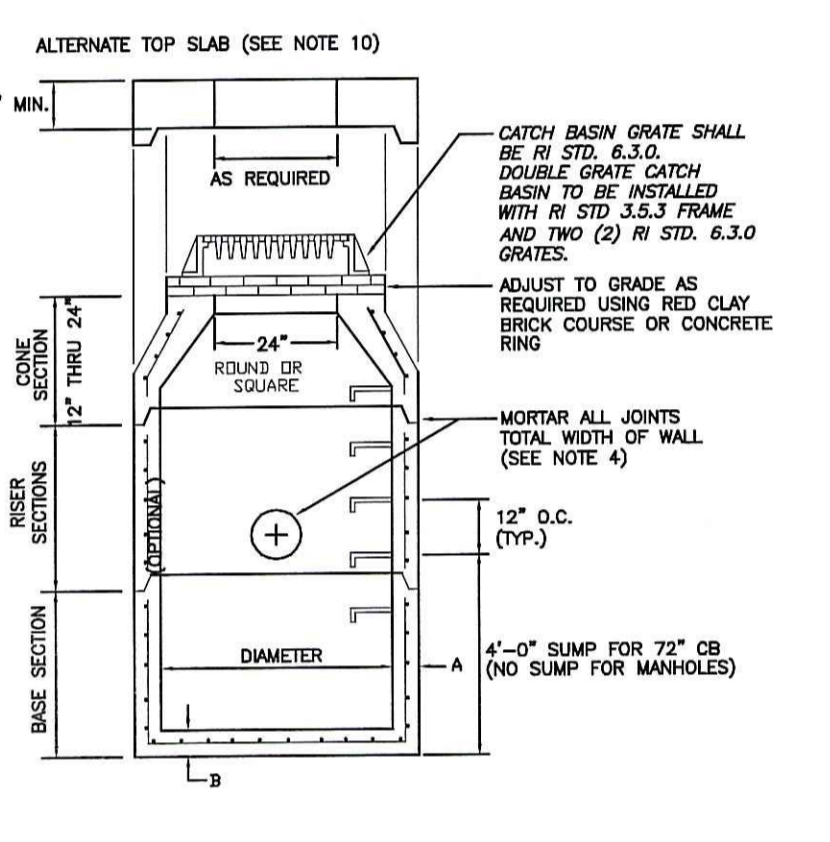
WASH RACK  
NOT TO SCALE



WET STONE MASONRY RETAINING WALL  
NOT TO SCALE



CISTERN DETAIL  
NOT TO SCALE



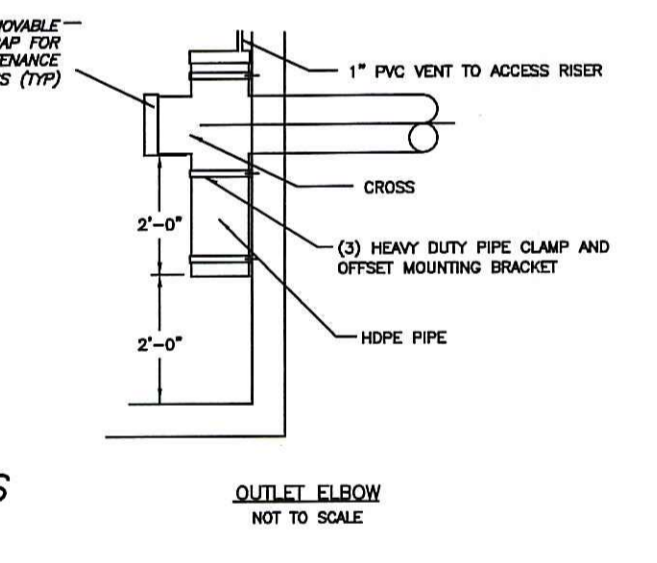
- GENERAL NOTES
- ALL REINFORCING STEEL MUST CONFORM TO THE LATEST ASTM A 185 AND/OR A 615 GRADE 60. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
  - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LINEAL FT. (BOTH WAYS).
  - CATCH BASIN SPECIFICATIONS CONFORM TO LATEST ASTM C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS WITH THE EXCEPTION OF PORTLAND CEMENT CONCRETE MIX DESIGN AND MATERIALS REQUIREMENTS, WHICH SHALL CONFORM WITH SECTION 600 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL PORTLAND CEMENT CONCRETE SHALL BE CLASS XX (A) TYPE I.
  - MORTAR SHALL CONFORM TO SECTION M.04 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONSTRUCTION OF ALL PORTLAND CEMENT CONCRETE SHALL BE CLASS XX (A) TYPE I.
  - STEPS SHALL CONFORM TO THE LATEST RHODE ISLAND STANDARD DETAIL FOR 5.33 AND RHODE ISLAND SPECIAL PROVISION M.04.03.6.
  - ONE POUR MONOLITHIC BASE SECTION.
  - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  - CORREL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY. RED CLAY BRICK SHALL BE IN CONFORMANCE WITH RHODE ISLAND SPECIAL PROVISION M.04.03.1, "SEWER AND MANHOLE BRICK".
  - THE C OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
  - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADS (SEE RHODE ISLAND STANDARD DETAIL 4.36).
  - ALL SEDIMENTS AT A MINIMUM OF EVERY 5 YEARS.

CATCH BASIN DIAMETER	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED
4'-0"	5"	6"	0.12 SQ. IN./LINEAL FT.
6'-0"	7"	8"	0.18 SQ. IN./LINEAL FT.

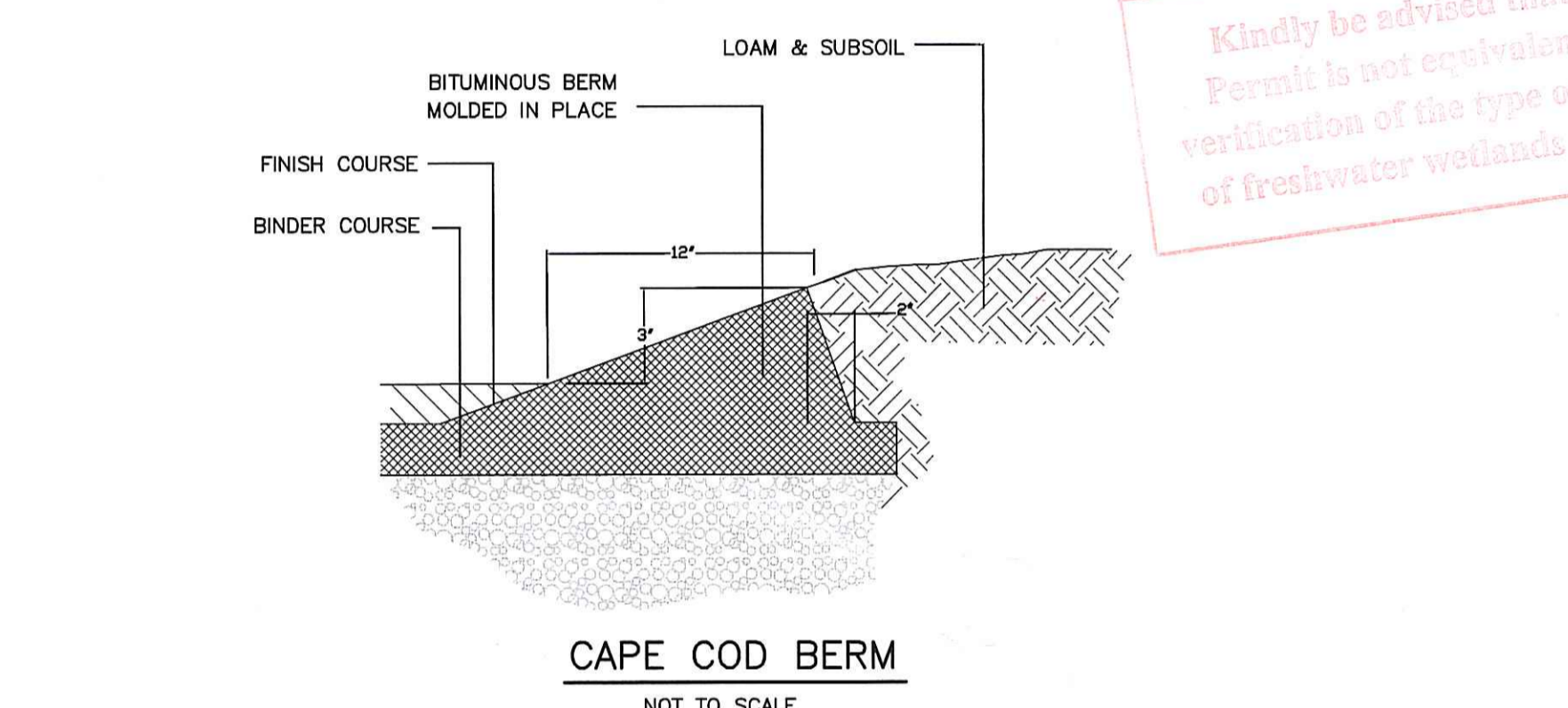
\* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM B.1.2

ALL CATCH BASINS SHALL BE 6' DIAMETER WITH OIL/WATER SEPARATING ELBOW UNLESS OTHERWISE SPECIFIED ON PLANS

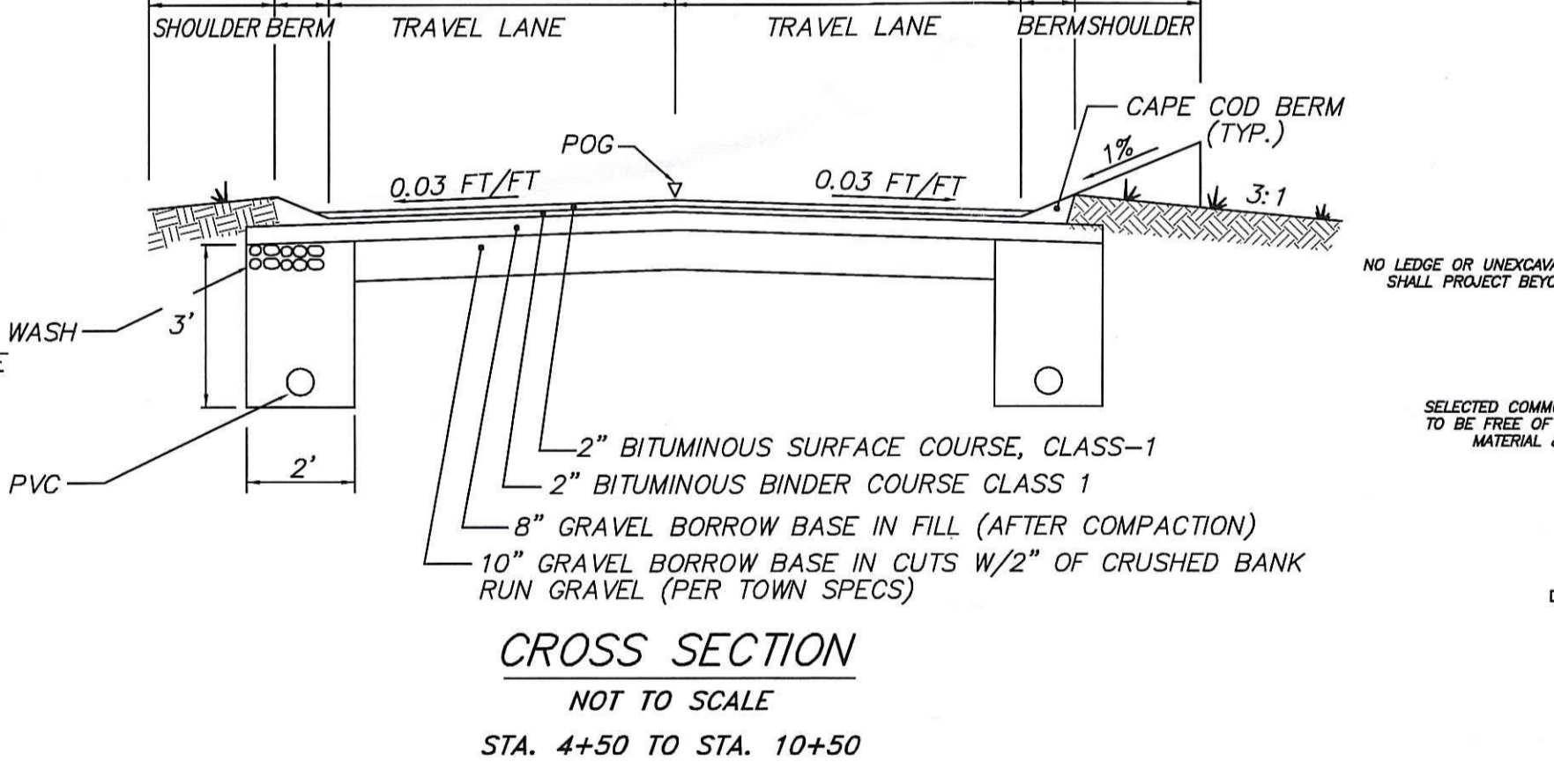
PRECAST CONCRETE CATCH BASIN (OIL/WATER SEPARATOR)  
NOT TO SCALE



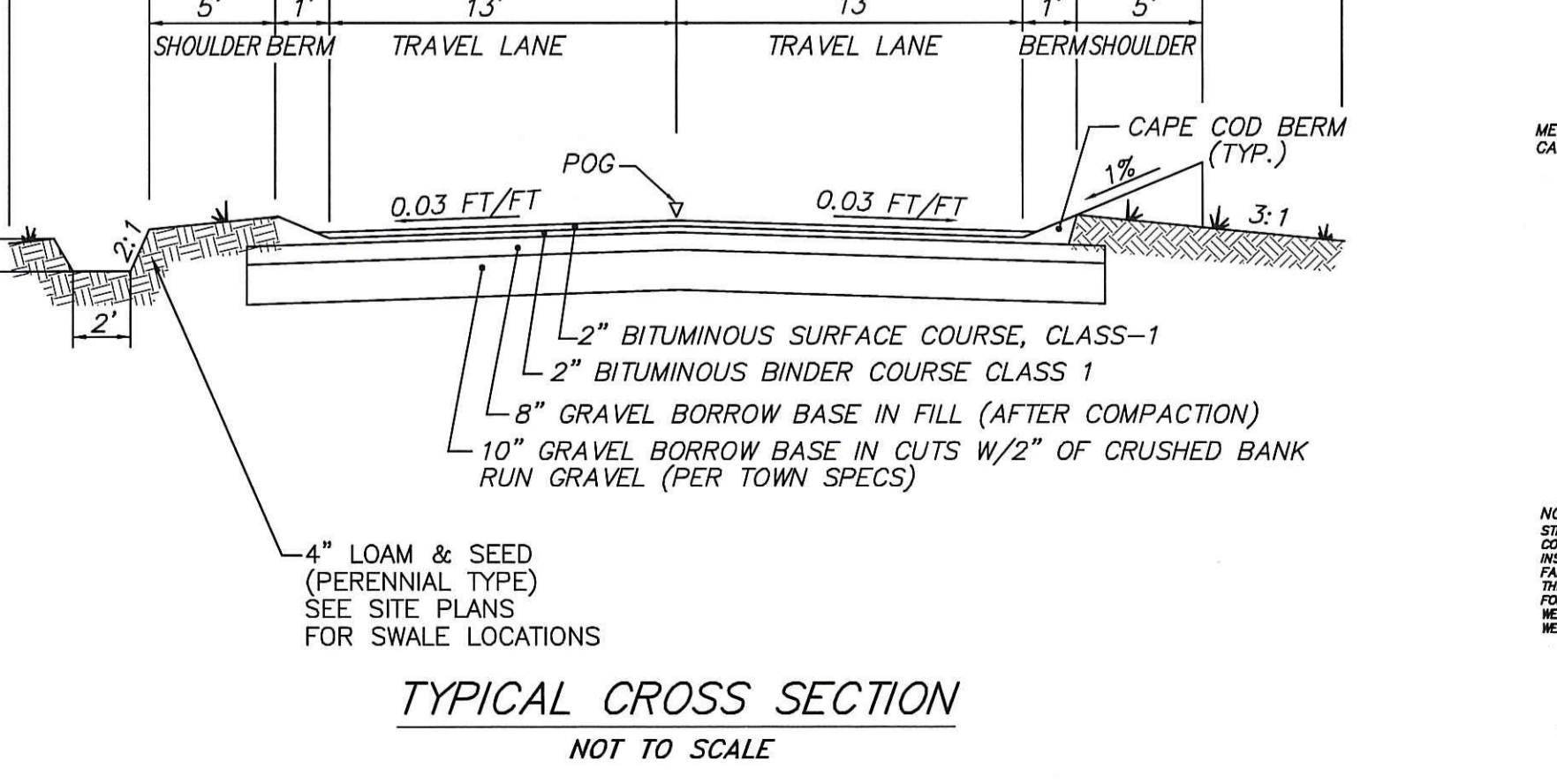
NOT TO SCALE



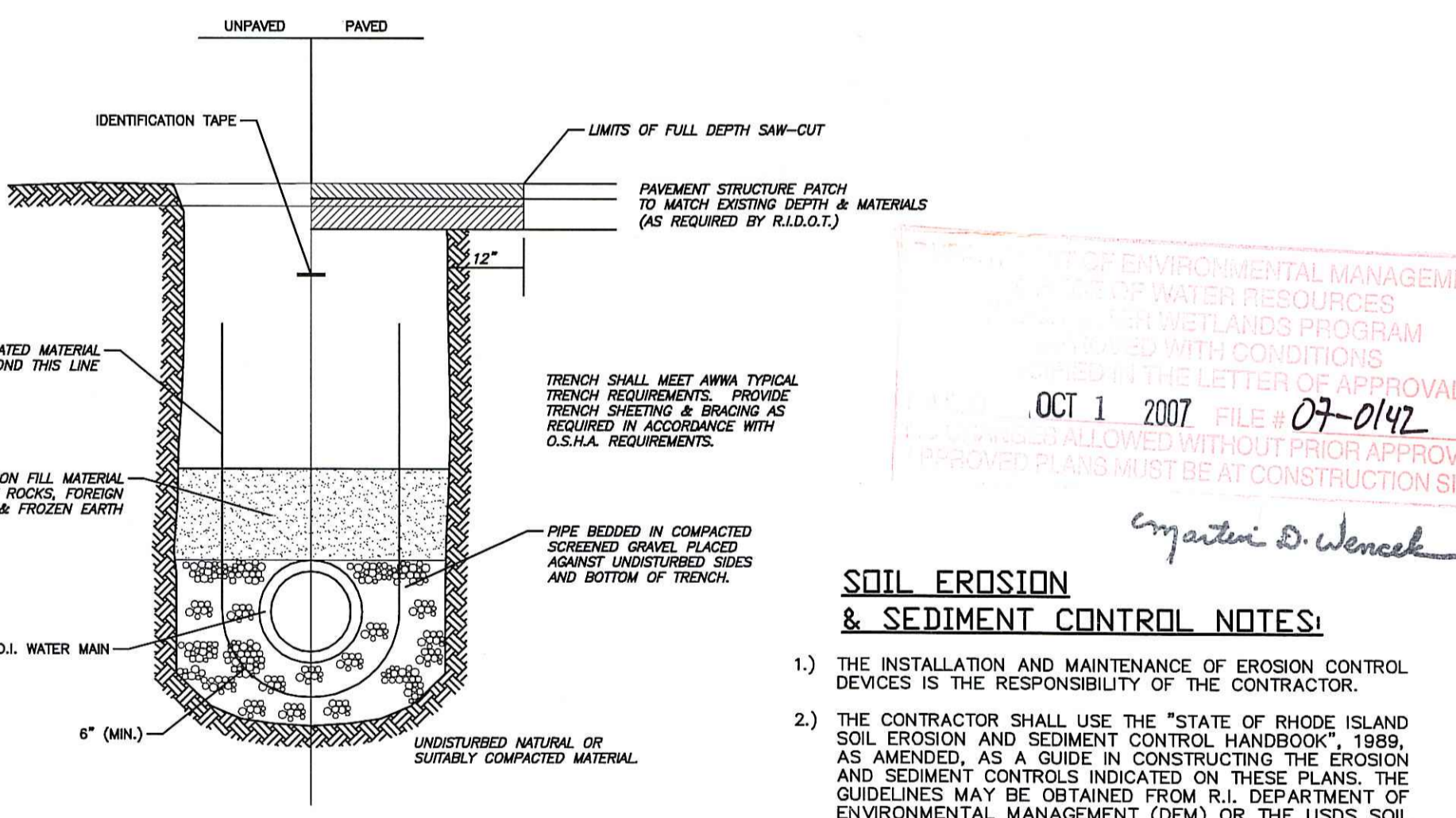
CAPE COD BERM  
NOT TO SCALE



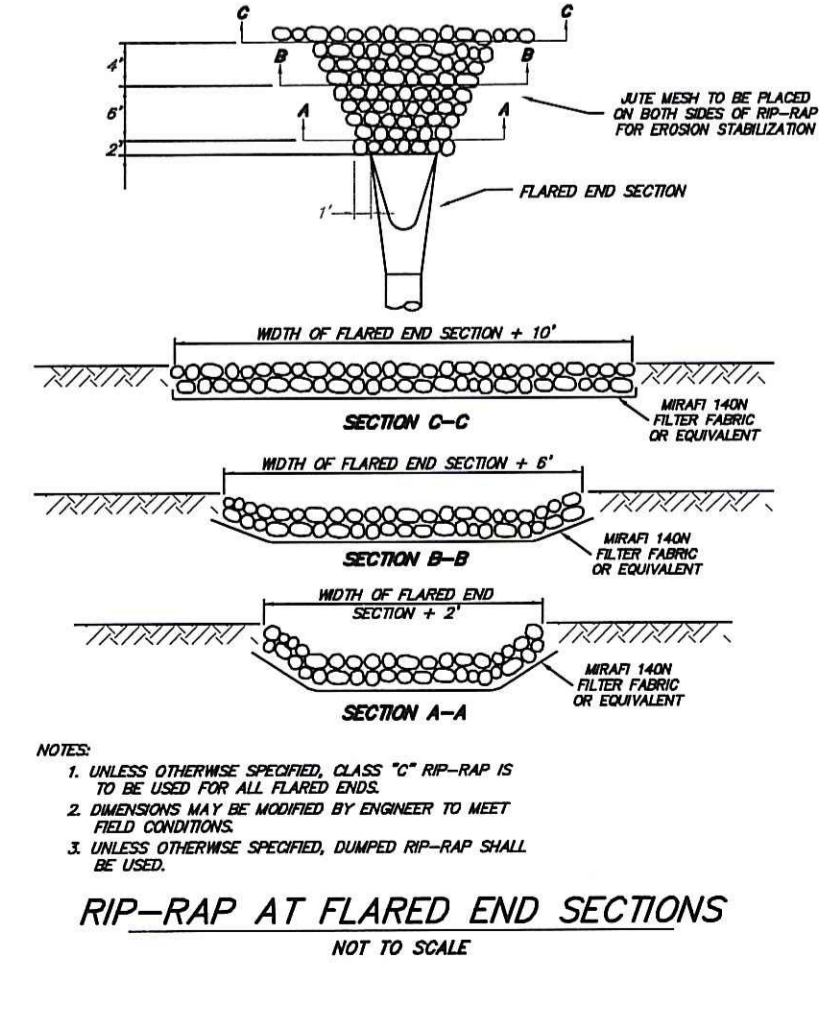
CROSS SECTION  
NOT TO SCALE  
STA. 4+50 TO STA. 10+50



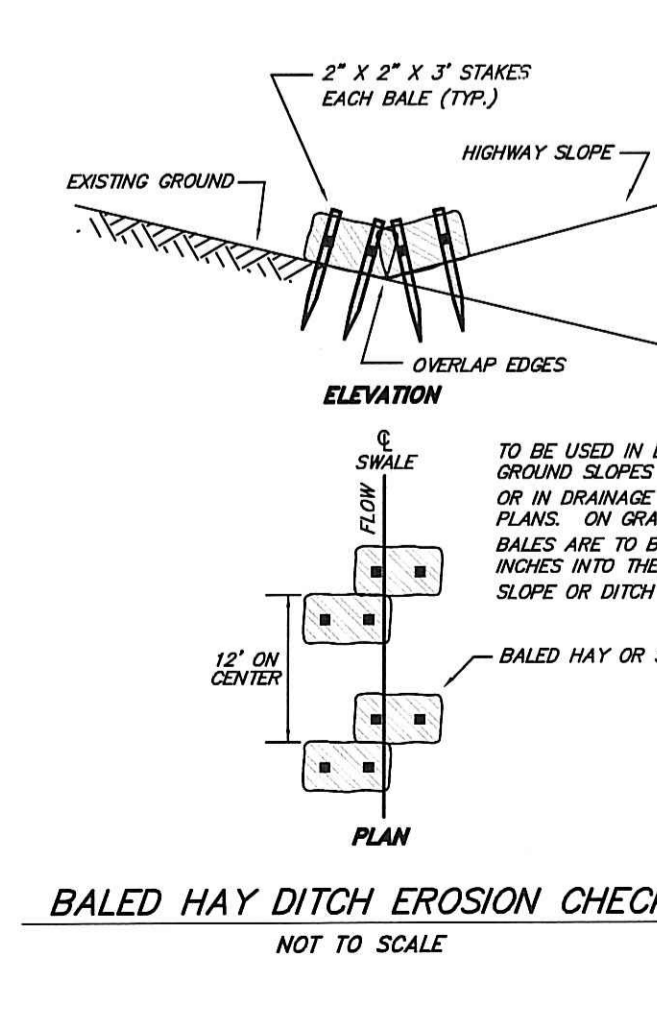
TYPICAL CROSS SECTION  
NOT TO SCALE



TRENCH DETAIL  
NOT TO SCALE



RIP-RAP AT FLARED END SECTIONS  
NOT TO SCALE



BALED HAY DITCH EROSION CHECK  
NOT TO SCALE

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

CONSTRUCTION DETAILS 2  
OF  
STILL WATER SUBDIVISION  
A.P. 46, LOTS 83 AND 83A  
SITUATED ON  
STILLWATER ROAD  
SMITHFIELD, RHODE ISLAND  
PREPARED FOR  
SLEEPY ACRES, LLC.

NO.	REVISION	BY	DATE
1	REVISIONS PER TOWN	RRD	4/19/07

NO. 1  
REVISIONS PER TOWN  
BY RRD  
DATE 4/19/07

GAROFALO  
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LAND PLANNERS/ENVIRONMENTAL SCIENTISTS  
P.O. BOX 6145  
85 CORLISS STREET  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

JOB NO. 6438-00  
DWG. NO. 6438(CURRENT)6438-DETAILS  
SCALE: AS NOTED  
JOB NO. 6438-00  
DRAWN BY: R.R.D.  
CHECKED: N.J.P.  
APPROVED: N.J.P.  
DATE: 02-26-07  
SHEET 11 OF 13 SHEETS

11 OF 13 SHEETS

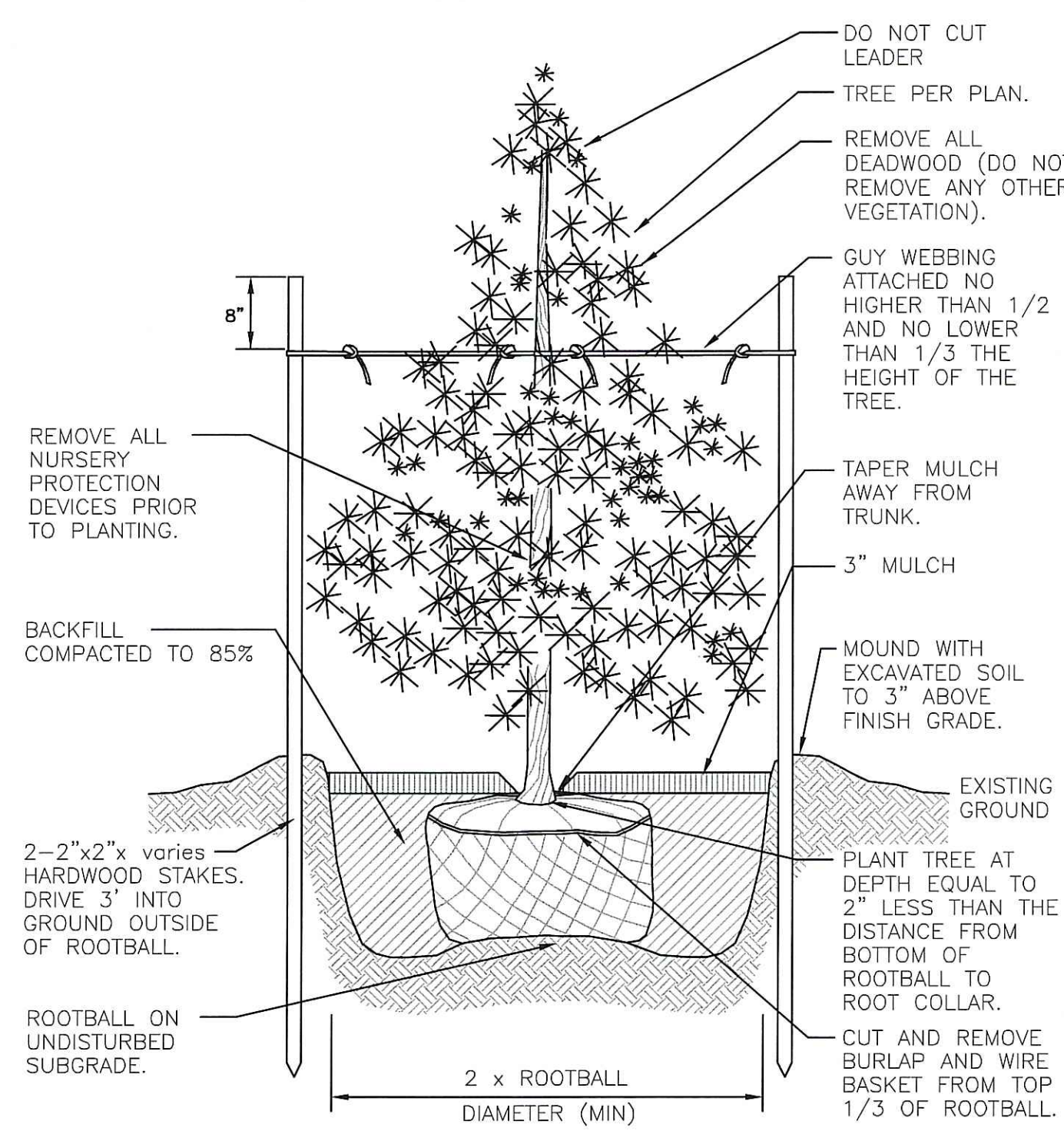
1" = 80'  
 0 40 80 160 320 480  
 feet  
 0 10 20 40 80 160 320  
 meters



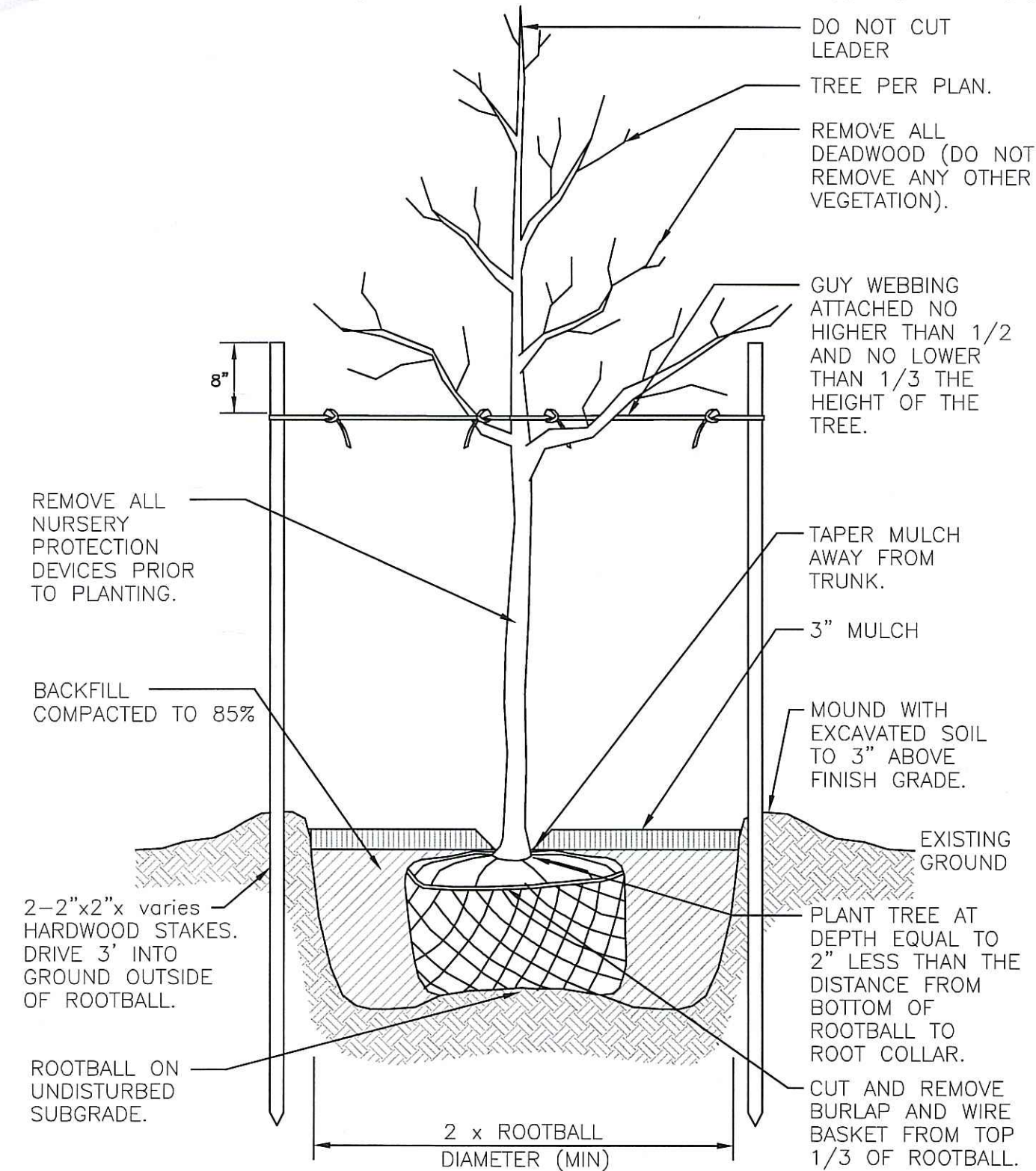
**TOTAL PLANT LIST**

AG	ABELIA GRANDIFLORA GLOSSY ABELIA	19	24'-30" CONT.
AG	ACER RUBRUM OCTOBER GLORY OCTOBER GLORY RED MAPLE	36	2.5'-3' B&B
HD	HEMEROCALLIS STELLA DORO STELLA DORO DAYLILY	275	1 GAL CONT.
MR	MYRICA PENNSYLVANICA NORTHERN BAYBERRY	23	24'-30" CONT.
PEA	POTENTILLA FRUTICOSA ABBOTTWOOD ABBOTTWOOD POTENTILLA	44	24'-30" CONT.
PS	PINUS STROBUS WHITE PINE	73	5'-6' B&B
VD	VIBURNUM DENTATUM ARROWWOOD VIBURNUM	50	24'-30" CONT.

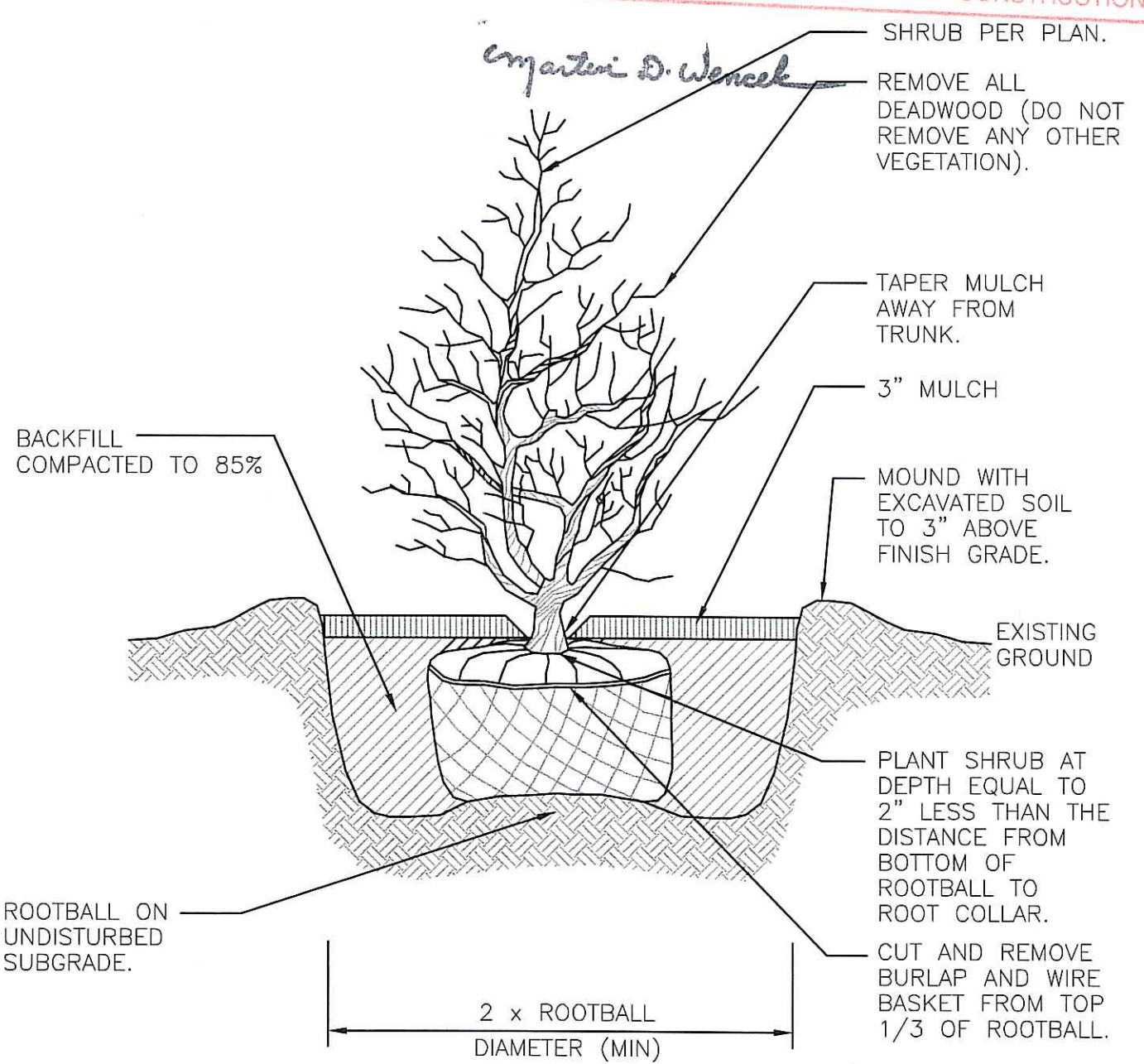
- LANDSCAPE NOTES:**
- THE CONTRACTOR SHALL INSTALL ALL PLANT MATERIAL IN CONFORMANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
  - ALL PLANT MATERIAL SHALL MEET THE AMERICAN OF NURSERYMEN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AND ITS AMENDMENTS. PLANT ONLY DURING SEASONS NORMAL TO THE PARTICULAR VARIETY. NO SUBSTITUTIONS SHALL BE ACCEPTED WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.
  - ALL PLANT MATERIAL FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR. IF THE FIRST YEAR ENDS DURING THE DORMANT PERIOD, THE GUARANTEE SHALL EXTEND TO THE START OF THE NEXT LEAVING. DURING THE ONE-YEAR GUARANTEE PERIOD THE CONTRACTOR SHALL EMPLOY ACCEPTED HORTICULTURAL PRACTICES TO KEEP THE PLANTS INSTALLED IN LIVING, HEALTHY CONDITION. FOLLOWING THE ONE-YEAR GUARANTEE PERIOD THE OWNER/OWNERS SHALL INSPECT ALL PLANT MATERIAL FOR HEALTHY ORNAMENTAL QUALITY. AT THAT TIME SHOULD ANY PLANT MATERIAL BE FOUND IN INADEQUATE HEALTH THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE THE PLANT IN KIND AND PROVIDE A ONE-YEAR GUARANTEE FOR THE REPLACEMENT PLANT.
  - INSTALL ALL PLANT MATERIAL AS SHOWN IN DETAILS.
  - STAKE ALL TREES OVER 5' AS SHOWN ON DETAILS. REMOVE STAKES AT THE END OF THE GUARANTEE PERIOD.
  - THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE SITE CLEAN OF MISCELLANEOUS DEBRIS THROUGHOUT THE CONSTRUCTION PERIOD. ALL WASTE MATERIAL IS TO BE DISPOSED OF IMMEDIATELY TO AN OFFSET LOCATION, UNLESS OTHERWISE INDICATED ON THE PLANS.
  - THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, AND SHALL OBTAIN ALL NECESSARY PERMITS FOR THE PROJECT.
  - LOAM: LOAM MOVED DURING THE COURSE OF CONSTRUCTION SHALL BE RETAINED AND DISTRIBUTED WITHIN THE SITE IN ACCORDANCE WITH THE LANDSCAPE PLAN. STOCKPILED LOAM SHALL NOT BE MIXED WITH ANY SUBSOIL OR UNSUITABLE MATERIAL. ALL EXISTING LOAM REMAINS THE PROPERTY OF THE OWNER.
  - PROTECTION OF EXISTING PLANTINGS: MAXIMUM EFFORT SHOULD BE MADE TO SAVE TREES OF OTHER PLANT SPECIMENS WHICH ARE LARGE FOR THEIR SPECIES, RARE TO THE AREA, OR OF SPECIAL HORTICULTURAL OR LANDSCAPE VALUE. CONTACT OWNER/LANDSCAPE ARCHITECT BEFORE REMOVING ANY SPECIMEN OF THIS TYPE UNLESS OTHERWISE NOTED ON THE PLANS. NO MATERIAL OR TEMPORARY SOIL DEPOSITS SHALL BE PLACED WITHIN THE DRIP LINE OF SHRUBS OR TREES DESIGNATED ON THE LANDSCAPE PLAN TO BE RETAINED. PROTECTIVE BARRIERS ARE TO BE INSTALLED AROUND EACH PLANT AND/OR GROUP OF PLANTS THAT ARE TO REMAIN ON THE SITE. BARRIERS SHALL NOT BE SUPPORTED BY THE PLANTS THEY ARE PROTECTING, BUT SHALL BE SELF-SUPPORTING. THEY SHALL BE OF MINIMUM OF FOUR FEET (4') HIGH AND CONSTRUCTED OF A DURABLE MATERIAL, SUCH AS SNOW OR SILT FENCE, THAT WILL LAST UNTIL CONSTRUCTION IS COMPLETED.
  - PRUNING: THE CONTRACTOR SHALL CAREFULLY PRUNE BRANCHES IN THE WAY OF CONSTRUCTION BY USING ONLY APPROVED METHODS AND TOOLS. THE USE OF AXES FOR TRIMMING OR SPURS FOR CLIMBING WILL NOT BE PERMITTED.
  - UTILITIES: IN ACCORDANCE WITH DIG-SAFE LAW THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY COMPANIES AND VERIFY LINE LOCATIONS (1-800-225-4977). RECORD LOCATIONS OF DIG-SAFE UTILITY LINE MARKINGS ON PROJECT RECORD DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL UTILITY DAMAGE INCLUDING DAMAGE THAT MAY OCCUR TO NEW UTILITIES.
  - DISTURBED AREAS: ALL AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL (OR BETTER) CONDITION BY THE CONTRACTOR BEFORE COMPLETION OF THE PROJECT, AND ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINE RAKED TO REMOVE STONES AND LOAMED AND SEED AS PER SPECIFICATIONS.
  - CLEANING: CONTRACTOR IS RESPONSIBLE FOR KEEPING SITE CLEAN OF MISCELLANEOUS DEBRIS THROUGHOUT THE CONSTRUCTION PERIOD. ALL WASTE MATERIAL IS TO BE DISPOSED OF IMMEDIATELY TO AN OFF-SITE LOCATION, UNLESS OTHERWISE INDICATED ON THE PLAN.
  - VANDALISM: ALWAYS EXPECT THE INCONCEIVABLE IN TERMS OF WHAT VANDALISM WILL OCCUR, AND TAKE MEASURES TO GUARD AGAINST IT.



**Evergreen Tree Planting Detail**  
 NOT TO SCALE



**Canopy Tree Planting Detail**  
 NOT TO SCALE



**B & B Shrub Planting Detail**  
 NOT TO SCALE

OFFICE OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 RIVERWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED OCT 1 2007 FILE # 07-0142  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**LANDSCAPE PLAN & DETAILS**  
 OF  
**STILLWATER SUBDIVISION**  
**A.P. 46, LOTS 83 AND 83A**  
 SITUATED ON  
**STILLWATER ROAD**  
**SMITHFIELD, RHODE ISLAND**  
 PREPARED FOR  
**SLEEPY ACRES, I.L.C.**

NO.	REVISION	BY	DATE
1	REVISIONS PER TOWN	RRD	4/19/07

**GAROFALO**  
 GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS  
 P.O. BOX 6145  
 85 CORLISS STREET  
 PROVIDENCE, R.I. 02940  
 TEL. 401-273-6000

JOB NO. 6438-00	DRAWN BY: S.J.V.
DWG. NO. 6438(CURRENT)6438-BASE	CHECKED: N.J.P.
SCALE:	APPROVED: N.J.P.
1" = 80'	DATE: 02-26-07

SHEET  
 SEP 13 2007  
**L1**  
 12 OF 13 SHEETS

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L:\638-00 Stillwater Road - Smithfield, RI\dwg\01-Current\638-BASE.DWG, RI-RECORDED, 5/17/2007 3:34:36 PM, CALSTANDARD.p3

A.P. 46, LOTS 83 AND 83A - SITE DATA SUMMARY	
ZONING: R-80 (RESIDENTIAL) LOT AREA = 1,791,242± S.F. (41.12± Ac.)	
	REQUIRED
MIN. LOT AREA:	20,000 S.F.
MIN. LOT FRONTAGE:	80' (**56')
MIN. SETBACK:	
FRONT YARD	25'
SIDE YARD	16'
REAR YARD	30'
MAX. LOT COVERAGE:	N/A
MAX. BLDG. HEIGHT	N/A

**PLAN NOTES:**  
 \* ALL DIMENSIONAL REQUIREMENTS REFER TO TABLE 5.6.1 IN THE TOWN OF SMITHFIELD ZONING ORDINANCE.  
 \*\* STREET FRONTAGE ON A CUL-DE-SAC IS ALLOWED TO BE 30% (24 FT.) LESS THAN THE REQUIRED FRONTAGE FOR EACH ZONE.

**SURVEY NOTE**  
 CLASS I PROPERTY LINE SURVEY & TOPOGRAPHY  
 PERFORMED BY INTERNATIONAL MAPPING & SURVEYING CORP.  
 19 INDUSTRIAL DRIVE SMITHFIELD, RI 02917  
 REVISED MARCH 4, 1991

**BUILDABLE AREA CALCULATIONS: (SECTION 5.6.6):**

WETLANDS (INCLUDING 200' RIVERBANK WETLAND)	142,340± S.F.
SLOPES > 15%	701,551± S.F.
TOTAL UN-SUITABLE AREA	843,891± S.F.
TOTAL AREA OF LOTS 83 AND 83A	1,791,242± S.F.
TOTAL BUILDABLE AREA	947,351± S.F.
LOT AREA IN R-80	80,000± S.F.
LOTS ALLOWED	11.84 (12 LOTS PROVIDED)
TOTAL OPEN SPACE	1,154,067 S.F. (26.5± Ac.)
MINIMUM BUILDABLE AREA DEDICATED TO OPEN SPACE	60%
MINIMUM OPEN SPACE REQUIRED	568,410 S.F (12.9± AC. PROVIDED)



Permit to be advised as to verification of the type or extent of freshwater wetlands on site.

OCT 1 2007  
 Matthew D. Wencel

RECORDED PLAN  
 OF  
 STILLWATER SUBDIVISION  
 A.P. 46, LOTS 83 AND 83A  
 SITUATED ON  
 STILLWATER ROAD  
 SMITHFIELD, RHODE ISLAND  
 PREPARED FOR  
 SLEEPY ACRES, LLC.

NO.	REVISION	BY	DATE

**GAROFALO**  
 GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS  
 P.O. BOX 6145  
 86 CORLISS STREET  
 PROVIDENCE, R.I. 02940  
 TEL: 401-273-6000

JOB NO.	6438-00	DRAWN BY:	R.R.D.
DWG. NO.	6438\CURRENT\6438-BASE	CHECKED:	N.J.P.
SCALE:	1" = 100'	APPROVED:	N.J.P.
SHEET	R1	DATE:	02-26-07

SEP 13 2007  
**R1**  
 13 OF 13 SHEETS