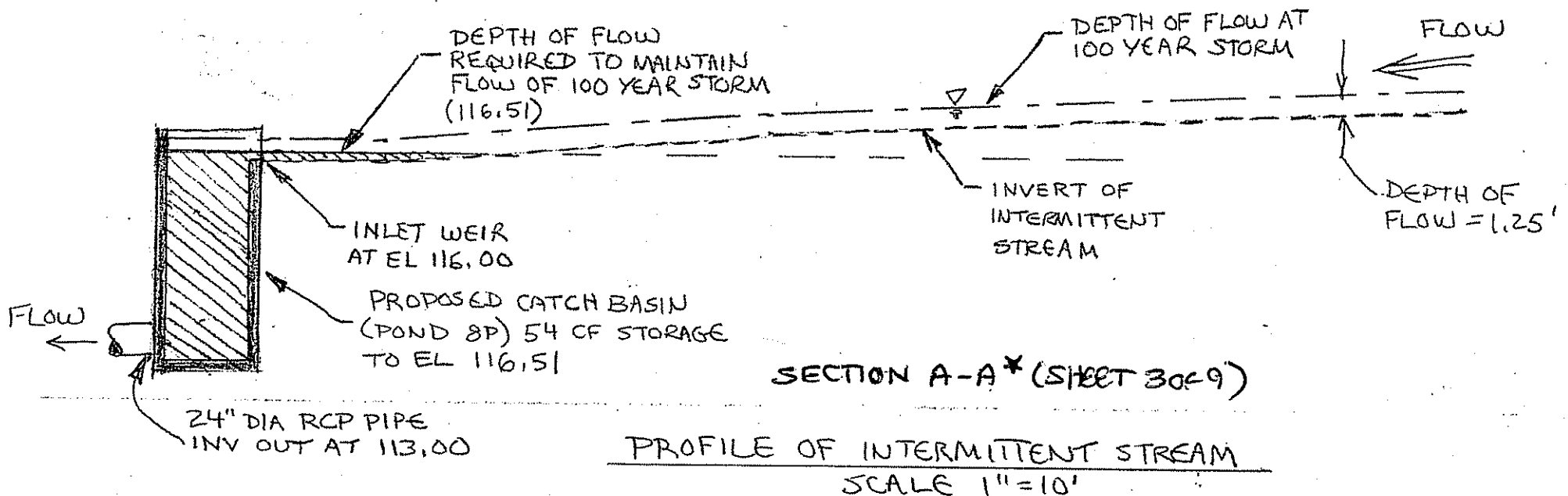


ATTACHMENT "A"

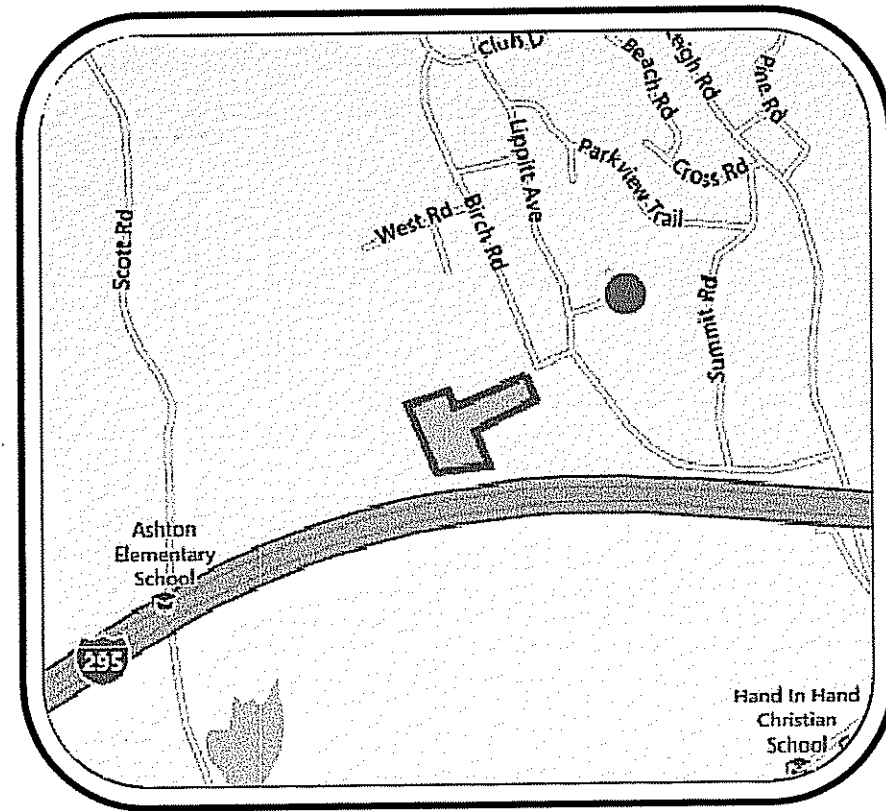
100-YEAR FLOOD PLAIN IMPACT ANALYSIS

NOTES:

- 1) THE DEPTH OF FLOW IN THE PROPOSED CATCH BASIN REQUIRED TO CONVEY THE 100-YEAR STORM IS AT EL 116.51. THE DEPTH OF FLOW IN THE INTERMITTENT STREAM DURING THE 100-YEAR STORM IS 1.25 FEET OR EL 117.25. SINCE THE SURFACE ELEVATION OF THE STREAM EXCEEDS THE DEPTH REQUIRED TO CONVEY THE 100-YEAR STORM, THERE WILL BE NO EFFECT ON THE FLOOD PLAIN OF THE INTERMITTENT STREAM. REFER TO APPENDIX 5 OF THE HYDROLOGY REPORT FOR CALCULATIONS PERTAINING TO THIS ANALYSIS.
- 2) SEE APPLICANT'S REPORT ENTITLED "STORMWATER MANAGEMENT PLAN FOR J.I.B. INVESTMENTS, INC. SUBDIVISION LOCATED AT DADE ROAD CUMBERLAND, RHODE ISLAND CUMBERLAND ADJUTOR'S MAP 64 W LOTS 858-864, 665-674 MAP 35, PORTION OF LOT 187" dated APRIL 2014 FOR APPENDIX 5, REFERENCED IN NOTE #1.



* SECTION A-A DRAWN ON SHEET 3 OF 9 OF PLAN SET ENTITLED "PERMIT SET FOR J.I.B. INVESTMENTS, INC. SITE LOCATED AT DADE ROAD CUMBERLAND, R.I." w/ latest revision date 7/25/14.



LOCUS MAP
NOT TO SCALE

PERMIT SET
FOR
J.I.F. INVESTMENTS, INC.

SITE LOCATED AT
Dade Road
Cumberland, R.I. 02864

OWNER/APPLICANT

J.I.F. Investments, INC.
650 George Washington Highway
Lincoln, RI 02865
RAHEB Ventures, LLC
650 George Washington Highway
Lincoln, RI 02865
Berkley Investments, INC.
650 George Washington Highway
Lincoln, RI 02865

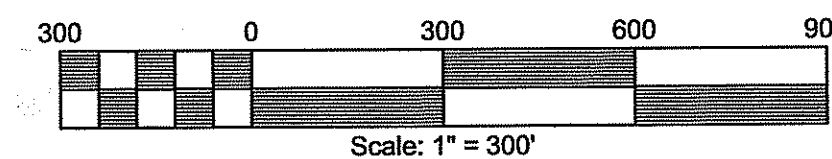
PARCEL ZONING: R-1
Minimum Area = 80,000 s.f.
Minimum Frontage = 180'
Front Setback = 50'
Side Setback = 20'
Rear Setback = 30'
Maximum Lot Coverage = 20%

FEMA DETERMINATION

THIS LOT IS LOCATED IN ZONE X (UNSHADED)
AREAS OF MINIMAL FLOOD HAZARD
PANEL NO. - 44007C0183G
MAP REVISED - March 2, 2009

SHEET INDEX

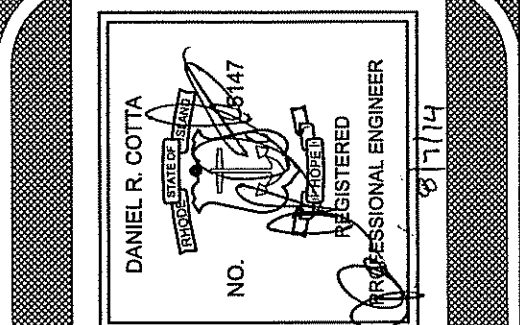
1. COVER SHEET - 3000' RADIUS PLAN
2. EXISTING CONDITIONS
3. PROPOSED CONDITIONS
4. DRAINAGE PLAN
5. DRAINAGE DETAILS
6. DETAIL SHEET 1
7. DETAIL SHEET 2
8. SOIL AND EROSION CONTROL PLAN
9. CRITTER CROSSING PLAN



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 09 2014 FILE # 14-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED BY: [Signature] DATE: [Blank]

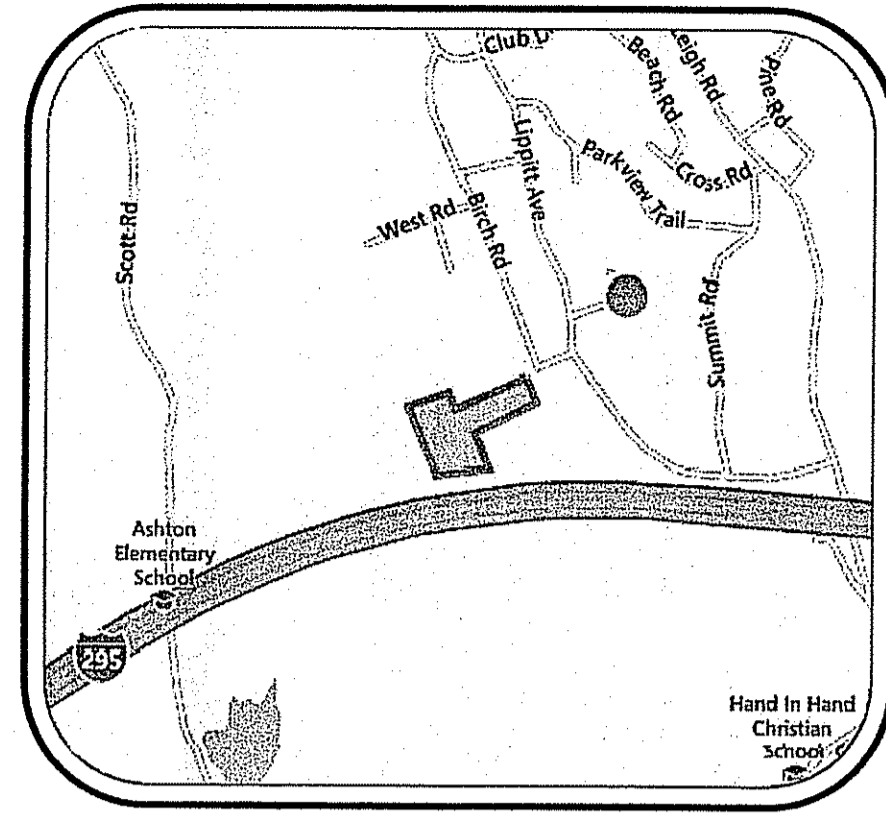
3000' RADIUS PLAN
FOR
J.I.F. INVESTMENTS, Inc.
SITE LOCATED AT
Dade Road
Cumberland, R.I. 02864

Drawn By: JPL	Checked By: DTC		
Scale: 1" = 300'	Date: 2/28/2014		
REVISIONS			
NO.	REVISION	BY	DATE
1.	PER DEW WETLANDS COMMENTS	JPL	7/28/14



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 9 sheets
Job No. 112186



LOCUS MAP
NOT TO SCALE

OWNER/APPLICANT

J.I.F. Investments, INC.
650 George Washington Highway
Lincoln, RI 02865

RAHEB Ventures, LLC
650 George Washington Highway
Lincoln, RI 02865

Berkley Investments, INC.
650 George Washington Highway
Lincoln, RI 02865

Legend

- Intermediate Contour
- Index Contour
- Stone Wall
- SSURGO Soil Lines Per RIGIS
- Existing Plat/Lot Number
- Test Holes
- Existing Paved Area
- As Built Pavement Without a Permit
- Existing Rock
- Intermittent Stream (See Note)

INTERMITTENT STREAM NOTE:

1. INTERMITTENT STREAM LOCATION WAS APPROXIMATED FROM BEST AVAILABLE DATA (i.e. RIGIS CONTOURS, FIELD VISITS, AND AERIAL PHOTOGRAPHY)

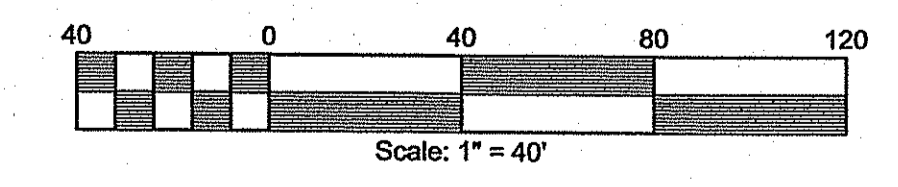
NOTES:

1. ALL FIELD SURVEY DATA WAS OBTAINED FROM DARVEAU LAND SURVEYING, INC.

2. EXISTING WETLANDS WERE FLAGGED BY NATURAL RESOURCE SERVICES, INC. ON JUNE 28, 2012.



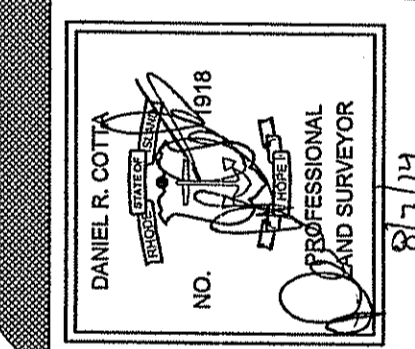
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 09 2014 FILE # 14-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



EXISTING CONDITIONS FOR

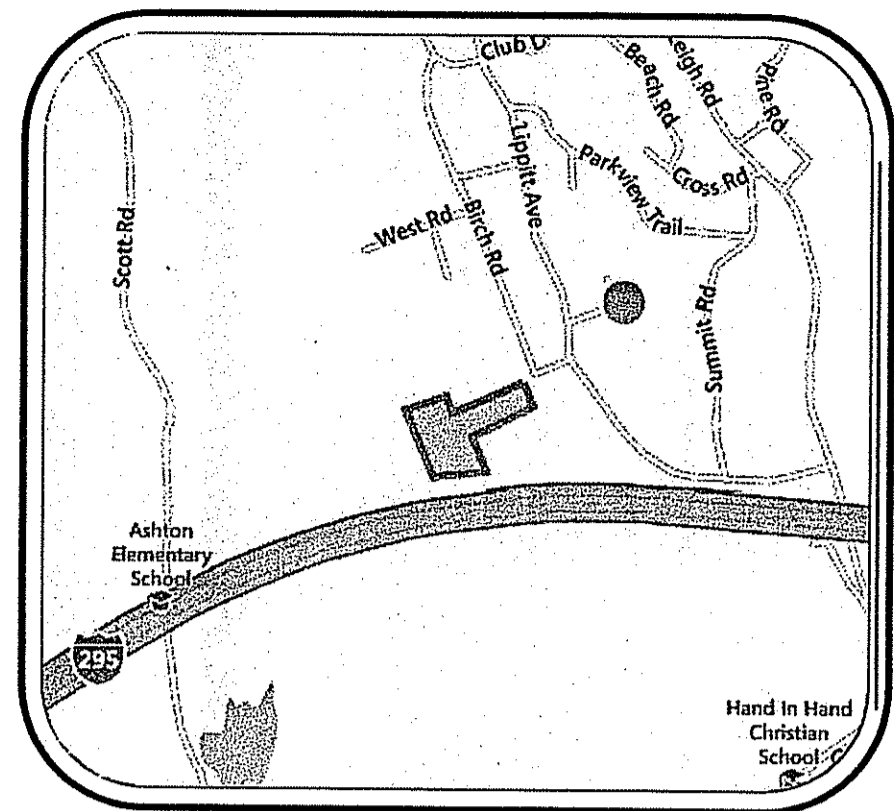
J.I.F. Investments, Inc.
SITE LOCATED AT
Dade Road
Cumberland, R.I. 02864

Drawn By: JPL	Checked By: DFC	
Scale: 1" = 40'	Date: 2/28/2014	
REVISIONS		
NO.	REVISION	DATE
1.	PER DEN WETLANDS COMMENTS	JPL 7/25/14



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 9 sheets
Drawing No. 112186



LOCUS MAP

NOT TO SCALE

OWNER/APPLICANT

J.I.F. Investments, INC.
650 George Washington Highway
Lincoln, RI 02865

RAHEB Ventures, LLC
650 George Washington Highway
Lincoln, RI 02865

Berkley Investments, INC.
650 George Washington Highway
Lincoln, RI 02865

Legend

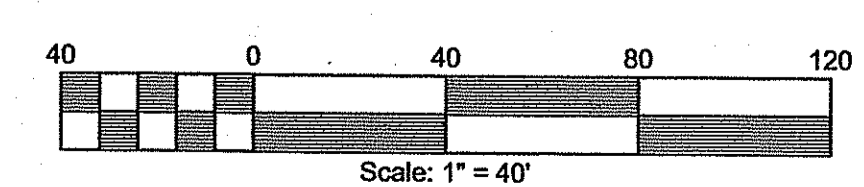
- Intermediate Contour
- Index Contour
- Stone Wall
- SSURGO Soil Lines Per RIGIS
- Limit of Disturbance
- Silt Fence
- Proposed Contour
- Existing Lot of Record
- Test Holes
- Construction Entrance
- Hay Bales



See detail entitled "100-year Floodplain Impact Analysis" on Approved Attachment #2

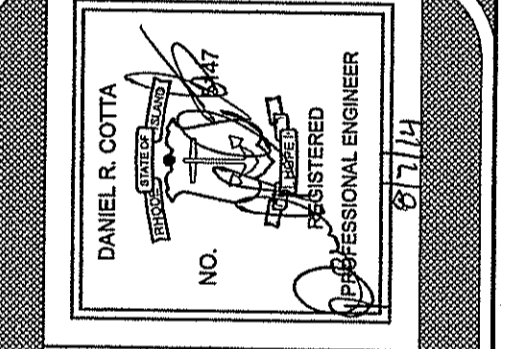
Kindly be advised that this Plan does not equate to a wetland of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 10 SEP 09 2014 FILE # 14-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



PROPOSED CONDITIONS
FOR
J.I.F Investments, Inc.
SITE LOCATED AT
Dade Road
Cumberland, R.I. 02864

Drawn By:	JPL	Checked By:	DIC
Scale:	1" = 40'	Date:	2/28/2014
REVISIONS			
NO.	REVISION	BY	DATE
1.	PER DEN WETLANDS COMMENTS	JPL	7/26/14



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

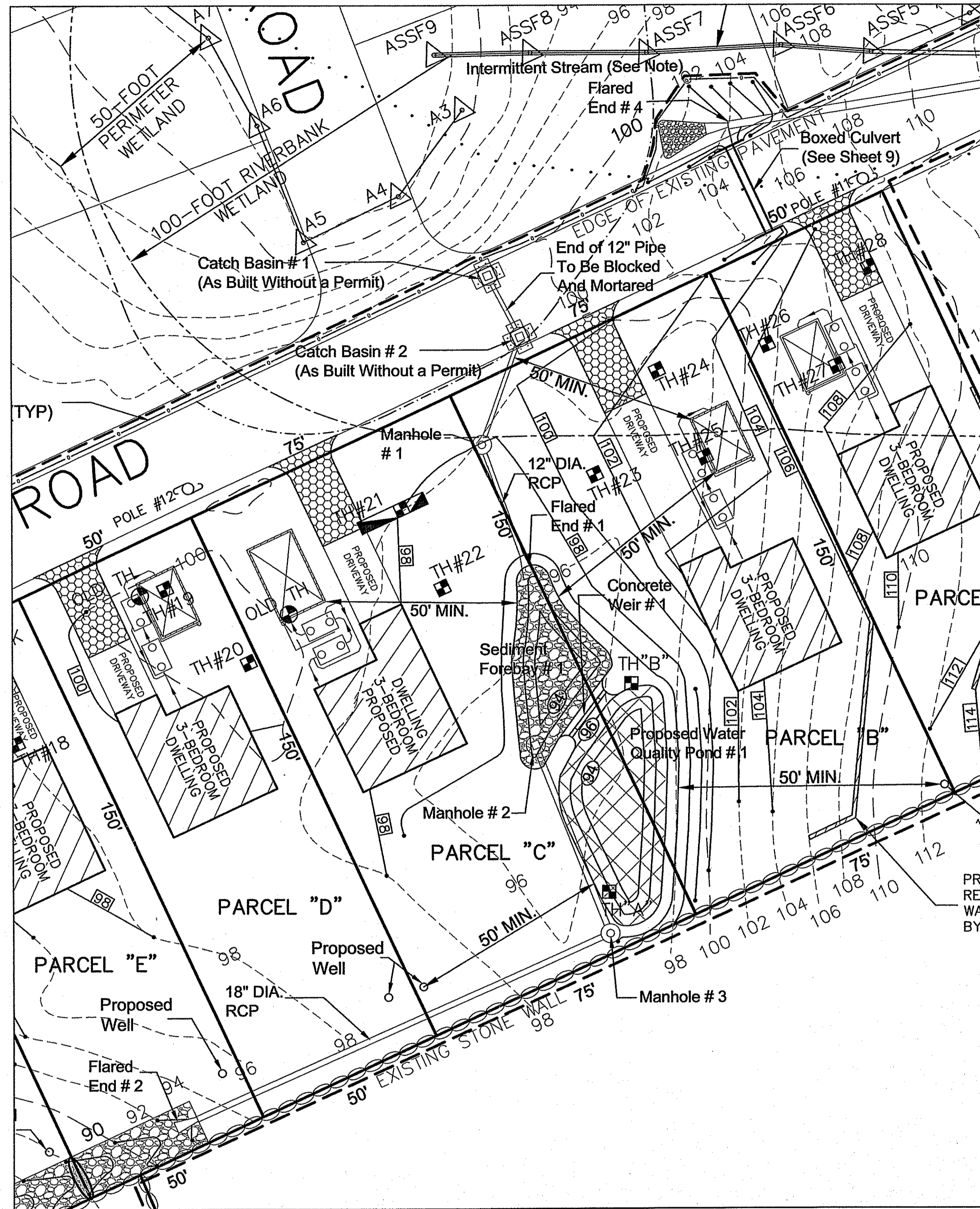
Sheet
3
of 9 sheets
Job No.
112186

OWNER/APPLICANT

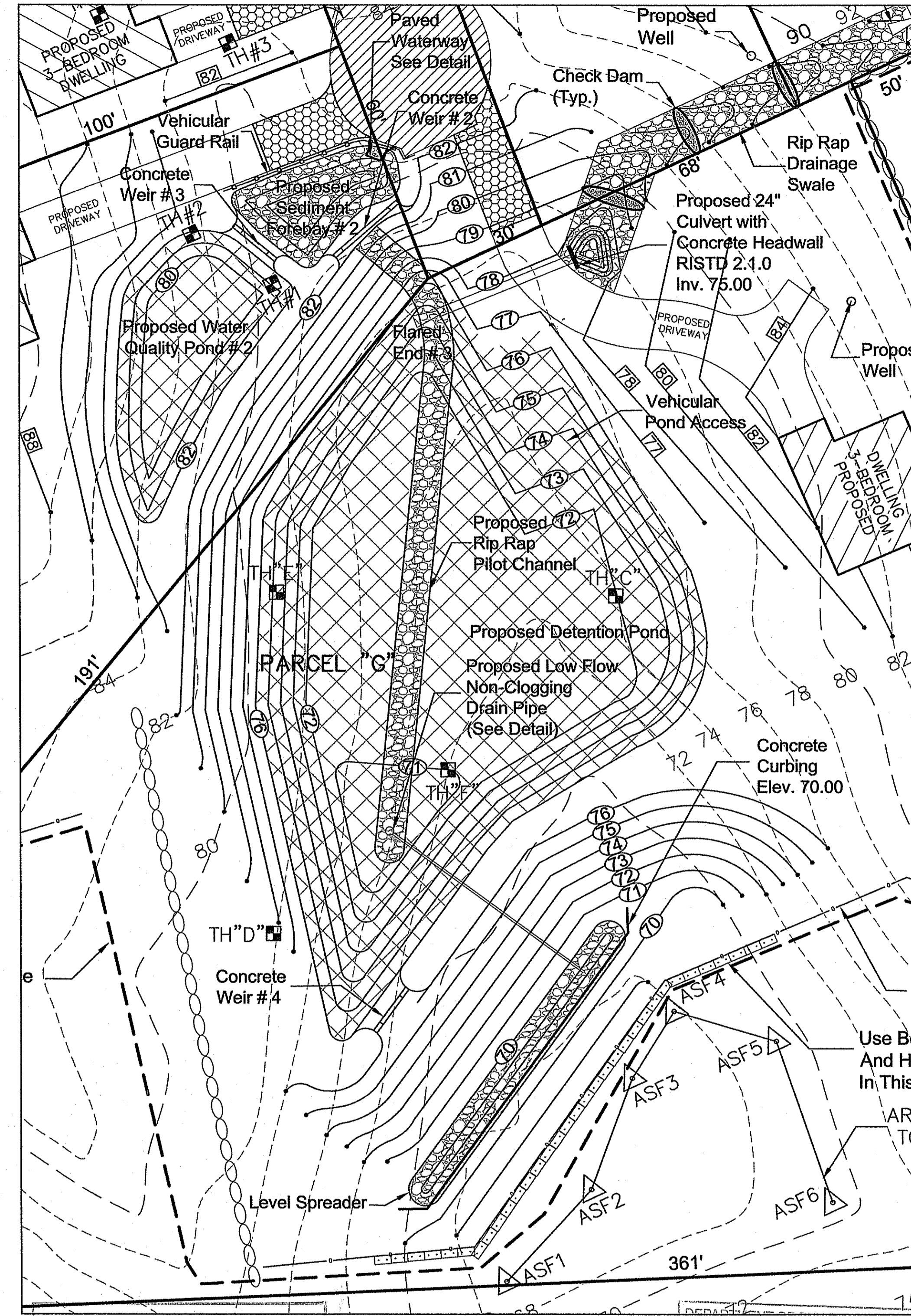
J.I.F. Investments, INC.
650 George Washington Highway
Lincoln, RI 02865

RAHEB Ventures, LLC
650 George Washington Highway
Lincoln, RI 02865

Berkley Investments, INC.
650 George Washington Highway
Lincoln, RI 02865



Upper Stormwater Facility
Scale 1" = 20'



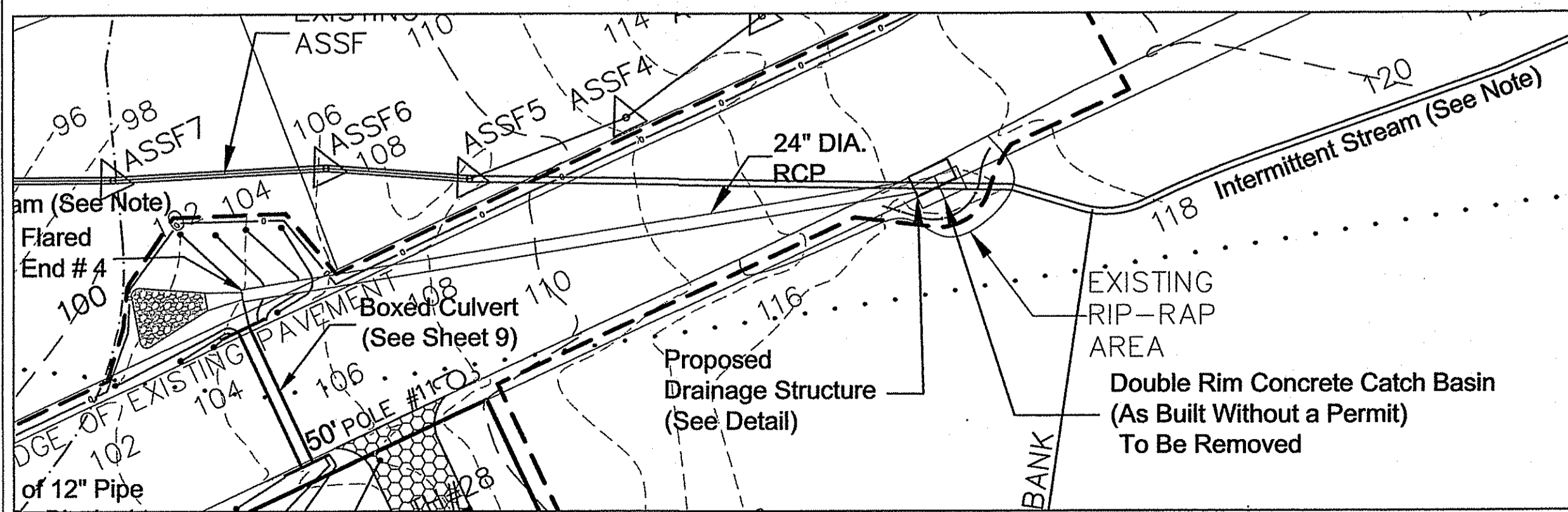
Lower Stormwater Facility
Scale 1" = 20'

Construction Note:

All "rough graded" basins shall be used a temporary stormwater basins until final site stabilization

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE



Proposed Culvert
Scale 1" = 20'

Legend			
	Intermediate Contour		Test Holes
	Index Contour		Construction Entrance
	Stone Wall		Place Detention Area Mix
	SSURGO Soil Lines Per RIGIS		Place R-4 Rip Rap
	Limit of Disturbance		Hay Bales
	Silt Fence		
	Proposed Contour		
	Existing Lot of Record		

PROPOSED DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	RIM	INV. IN	INV. OUT	DISTANCE TO NEXT STRUCTURE	SLOPE	PIPE SIZE	GRATE TYPE (CAPACITY)
CB #1 (Ex.)	98.65	95.15	95.15	—	—	24" RCP	Single
CB #2 (Ex.)	98.41	—	95.74	25' TO MH 1	0.0128	12" RCP	Single
STRUCTURE	SEE DETAIL (SHEET 5)	112' TO FE 4	SEE DETAIL (SHEET 5)				
MH #1	98.00	95.42	95.42	29' TO FE 1	0.0128	12" RCP	—
MH #2	95.00	—	91.50	48' TO MH 3	0.005	18" RCP	Single
MH #3	96.00	91.27	91.27	115' TO FE 2	0.005	18" RCP	—
FE #1	—	—	95.00	—	—	12" RCP	—
FE #2	—	—	90.70	—	—	18" RCP	—
FE #3	—	—	74.60	—	—	24" RCP	—
FE #4	—	—	101.80	—	—	24" RCP	—

• BASINS TO BE EQUIPPED WITH 24R SNOUT ON OUTLET PIPE

Drawn By: JPL

Checked By: DnC

Scale: As Shown

Date: 2/28/2014

REVISIONS

NO. REVISION

DATE

BY

DATE

JOB NO.

Drawn By: JPL

Checked By: DnC

Scale: As Shown

Date: 2/28/2014

REVISIONS

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Drawn By: JPL

Checked By: DnC

Scale: As Shown

Date: 2/28/2014

REVISIONS

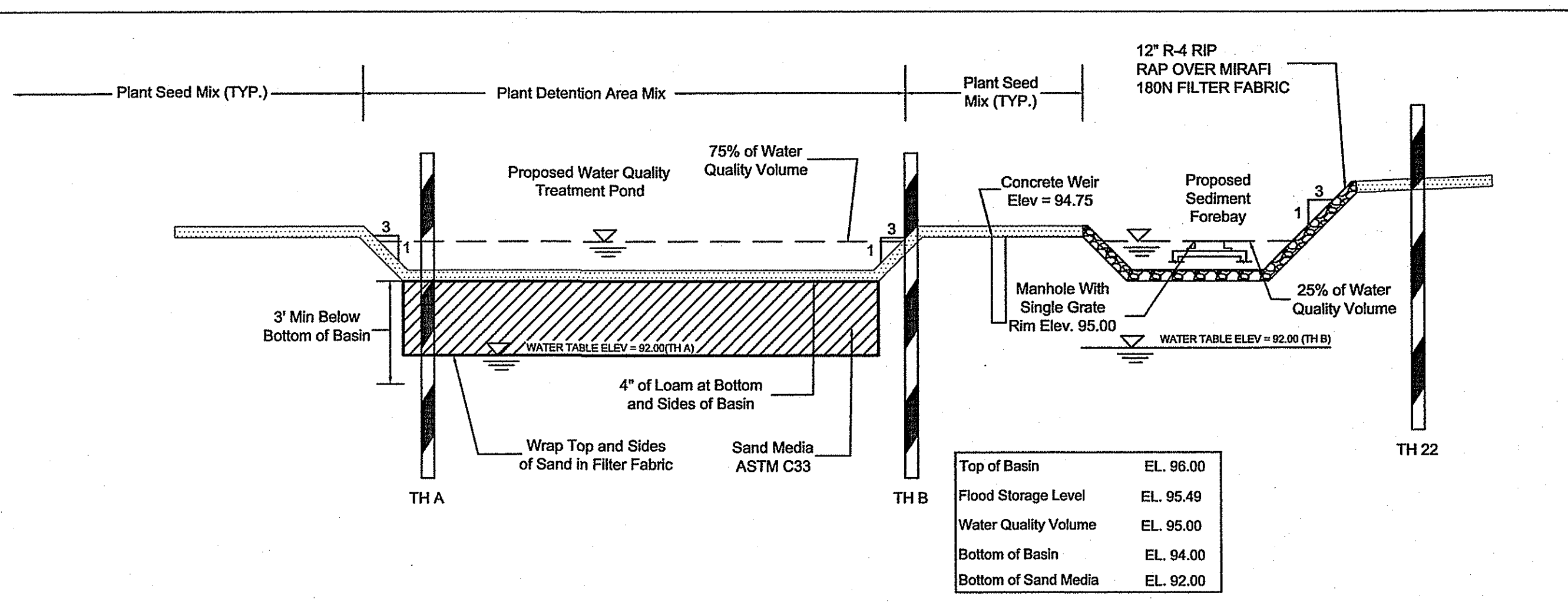
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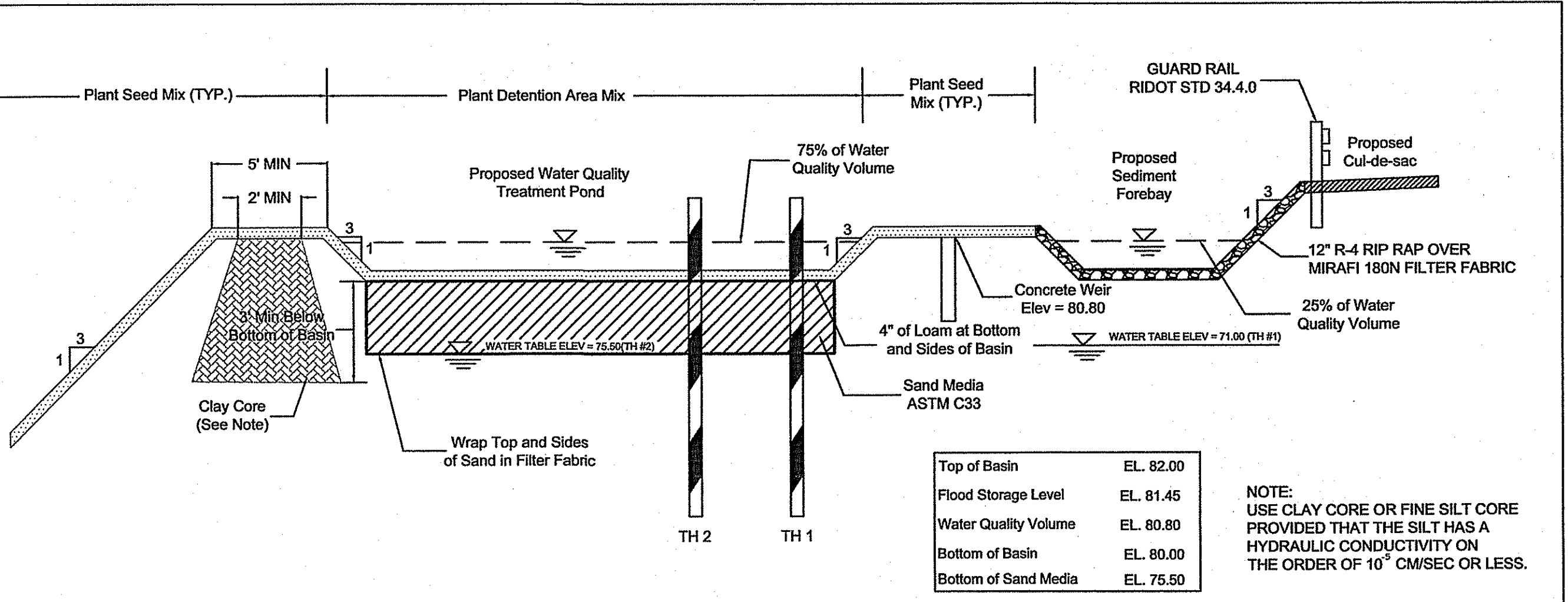
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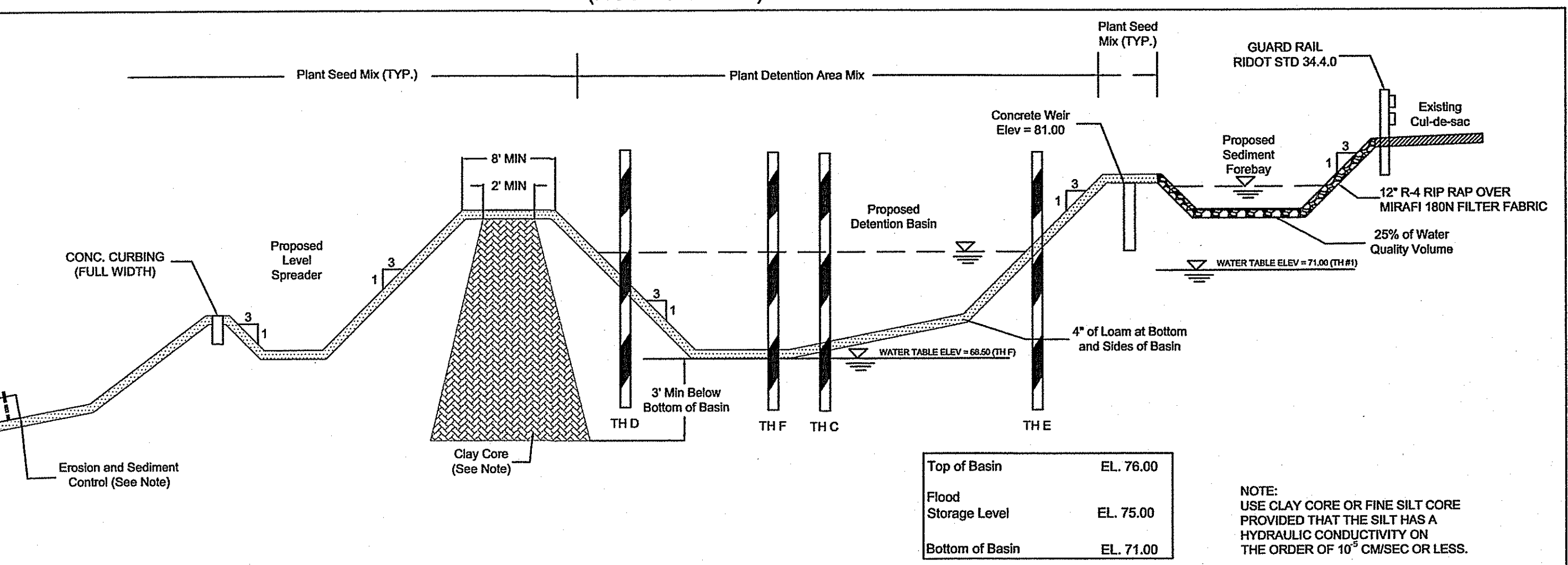
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 09 2014 FILE # 14-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



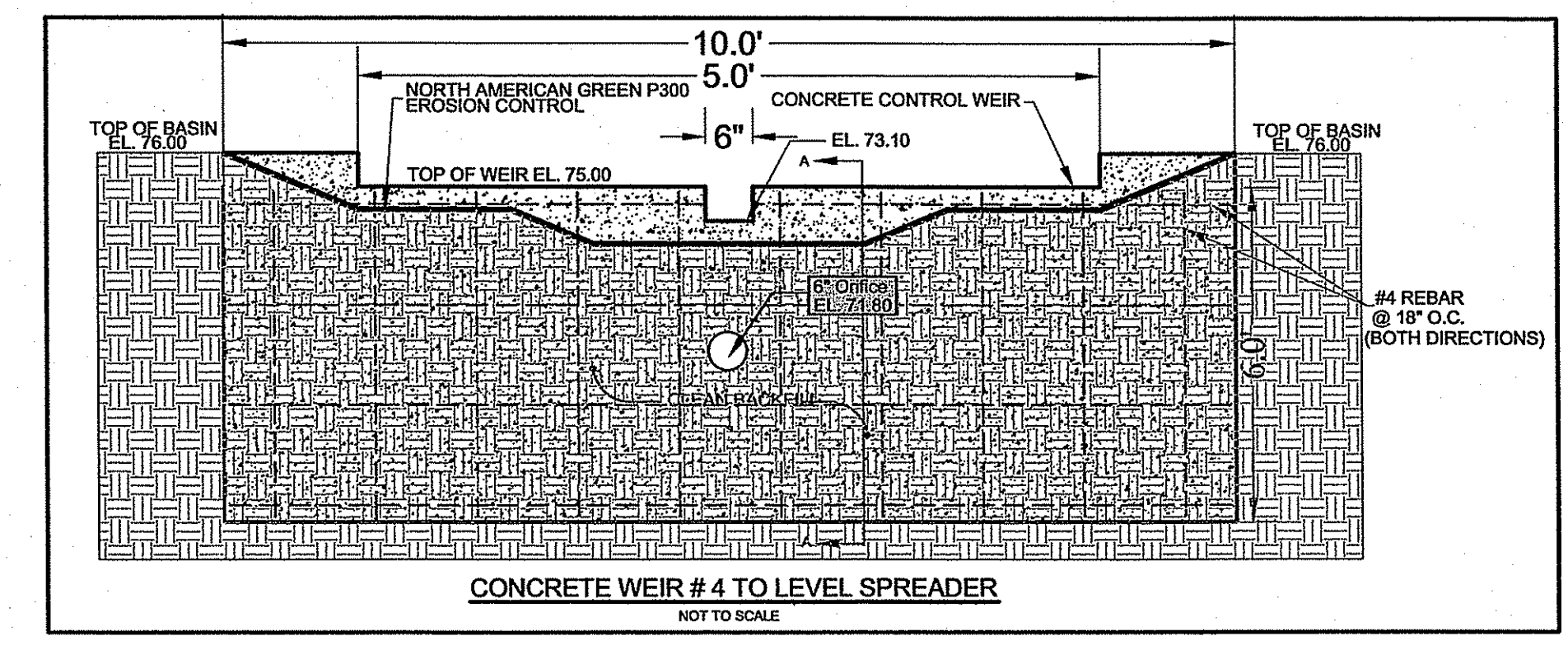
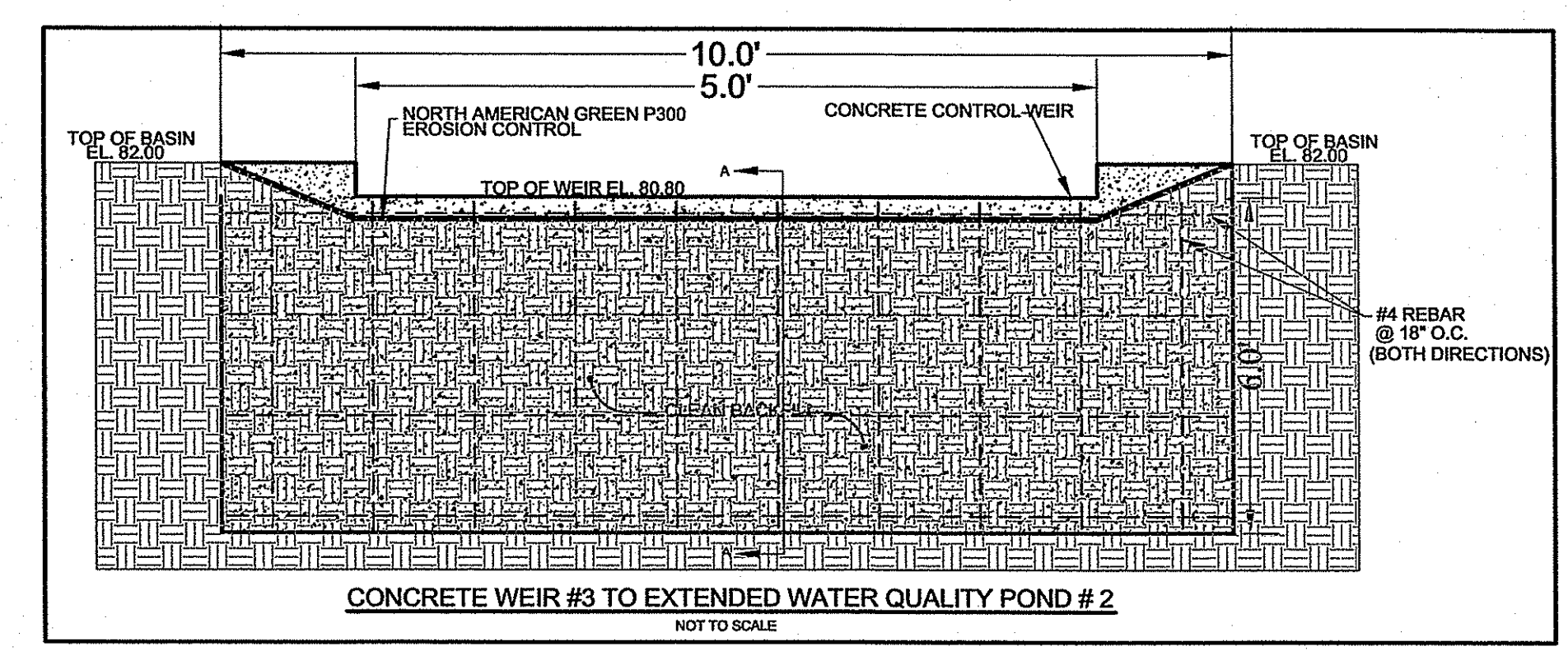
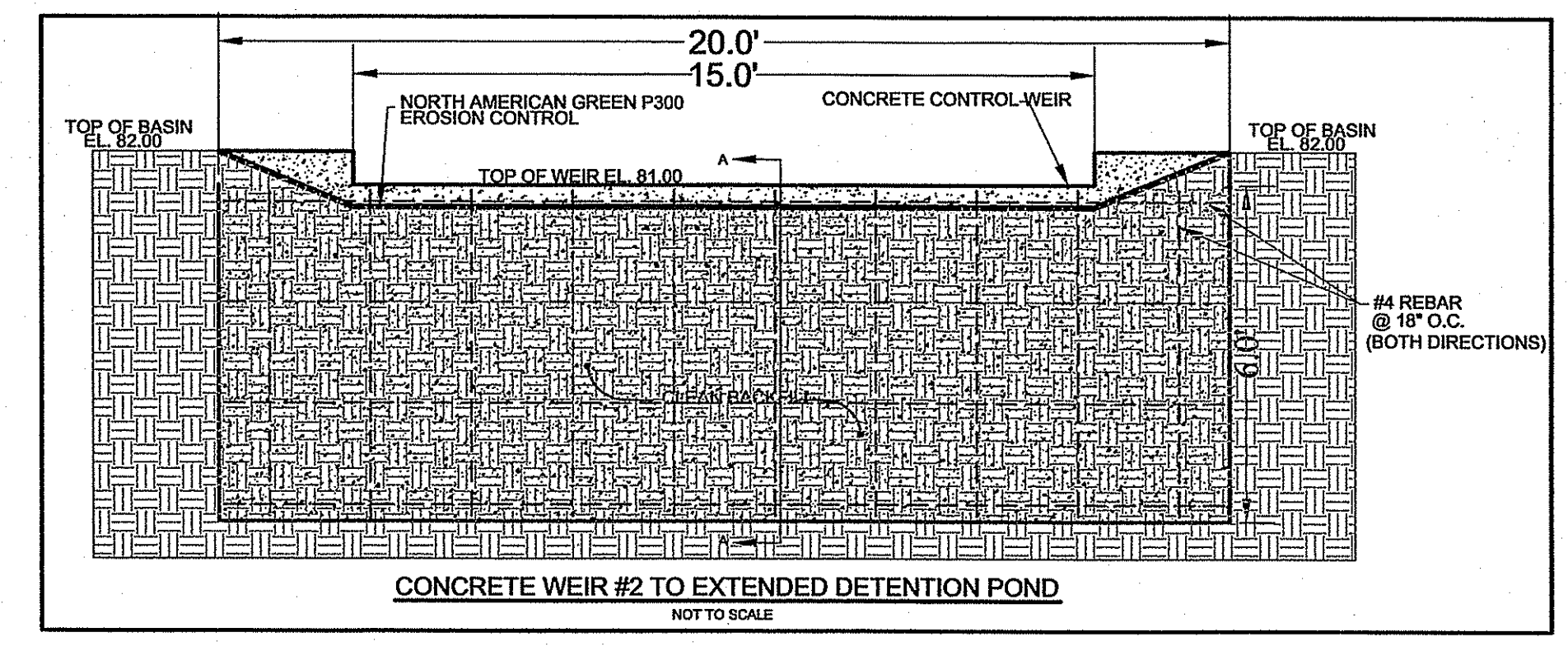
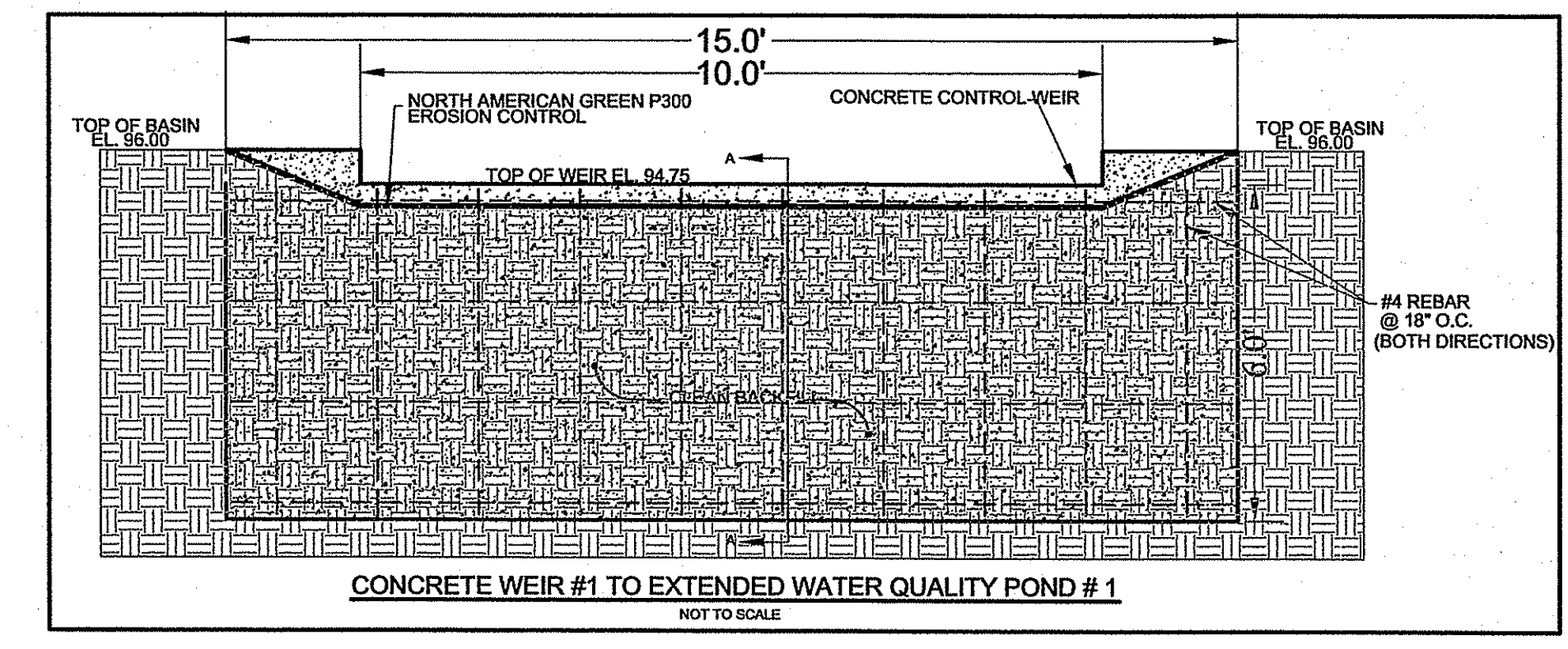
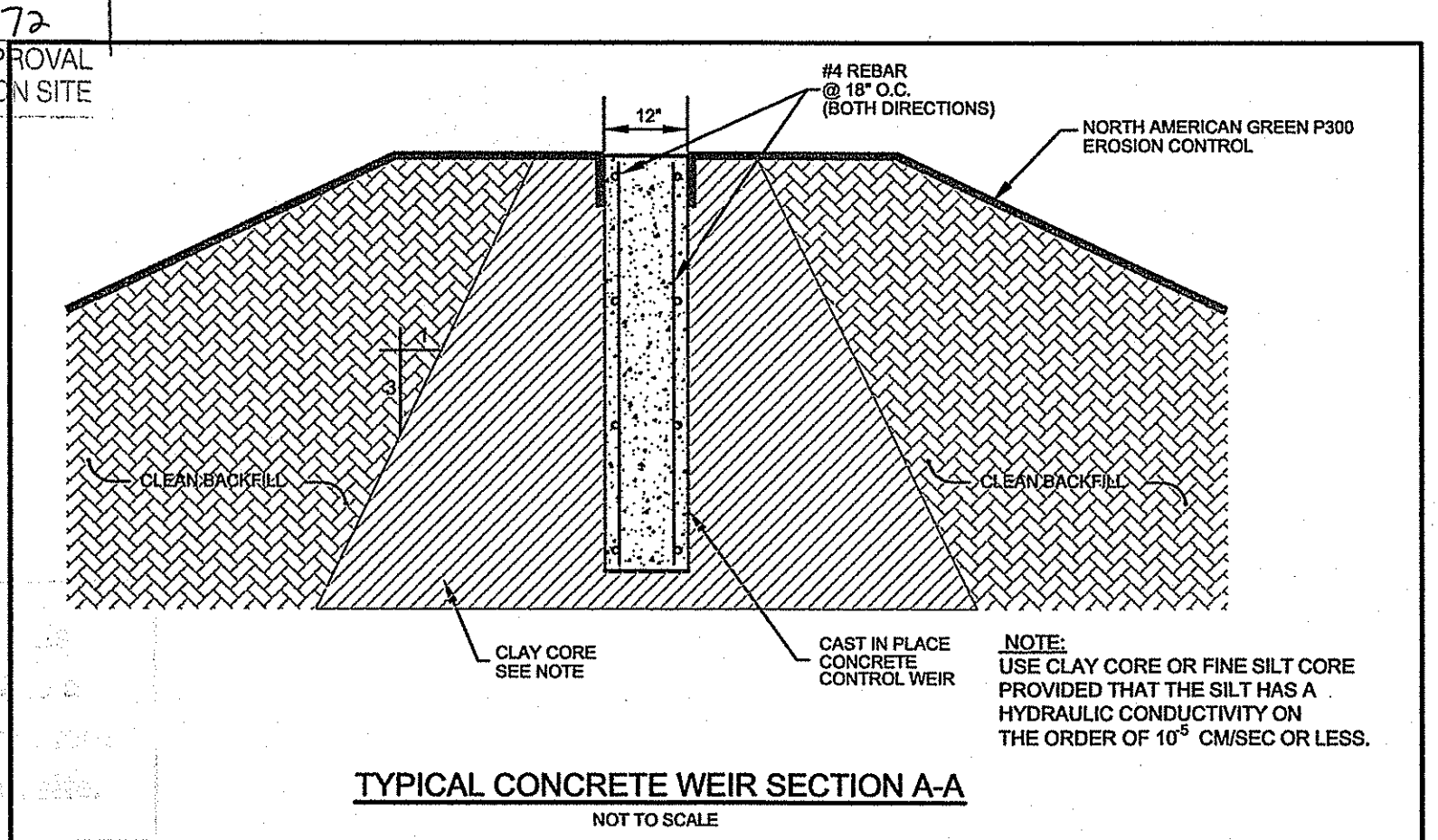
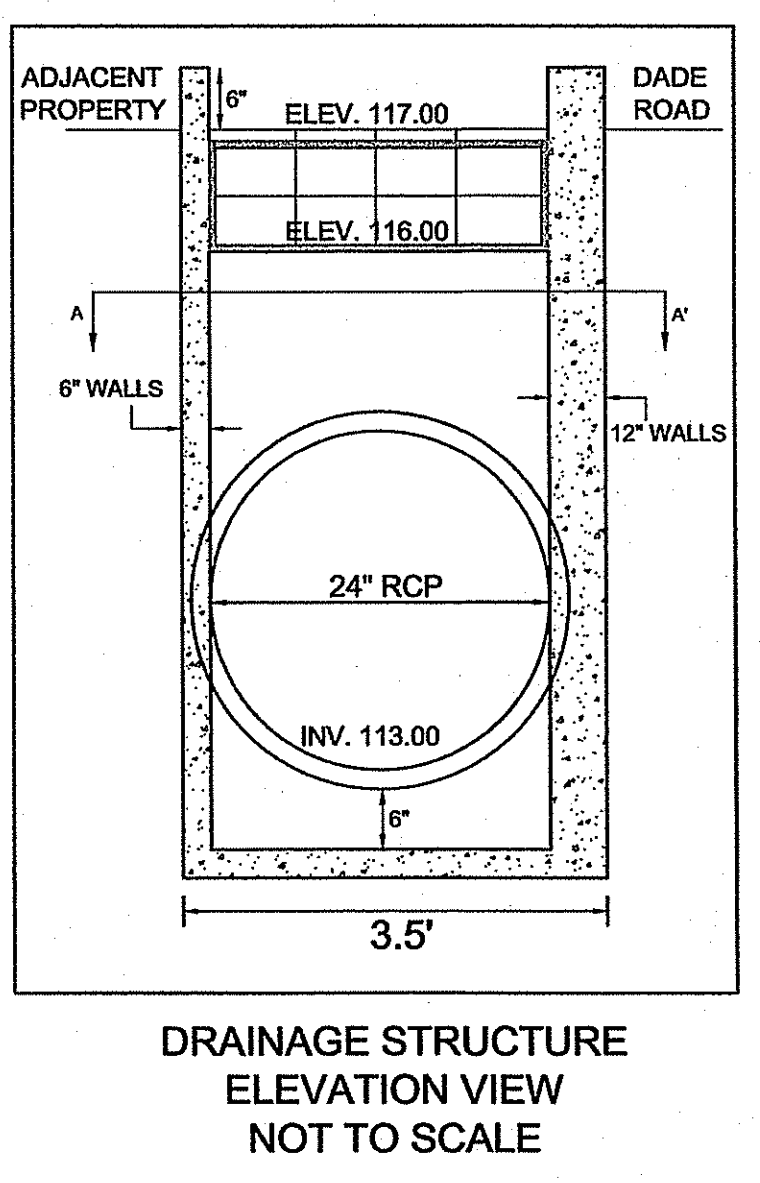
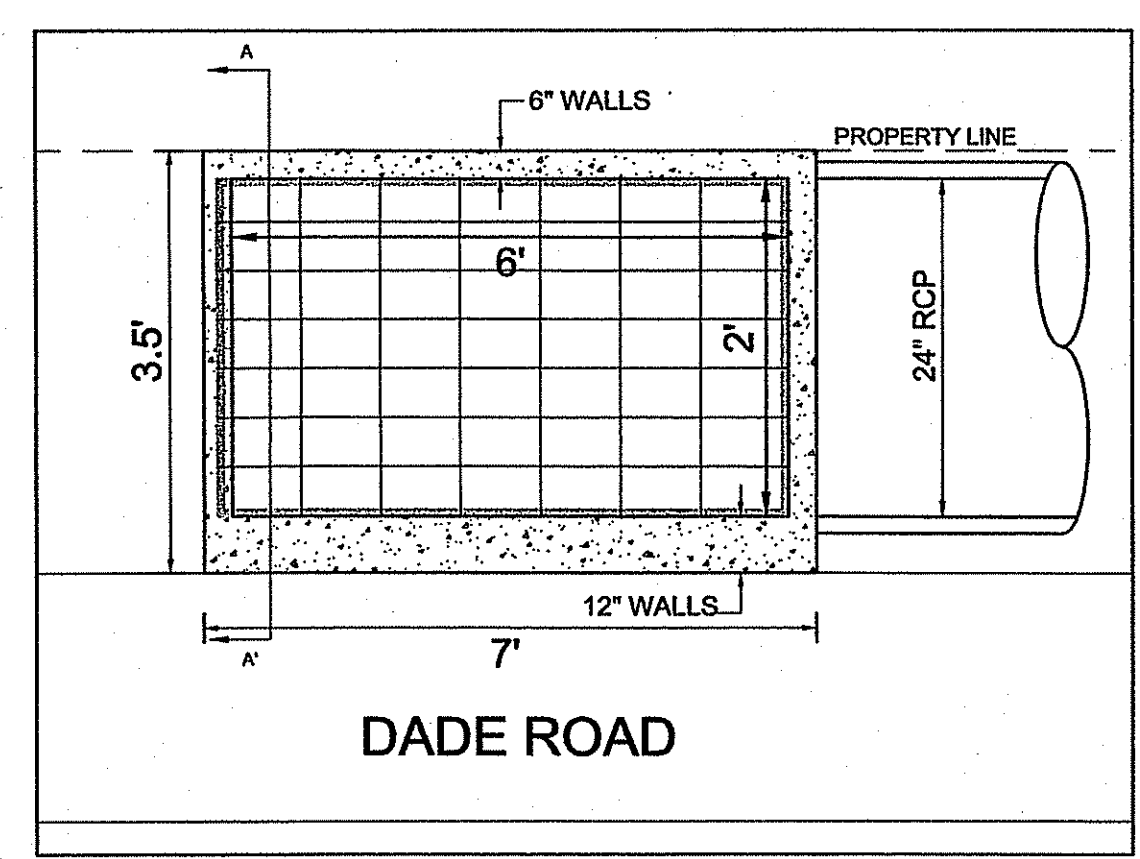
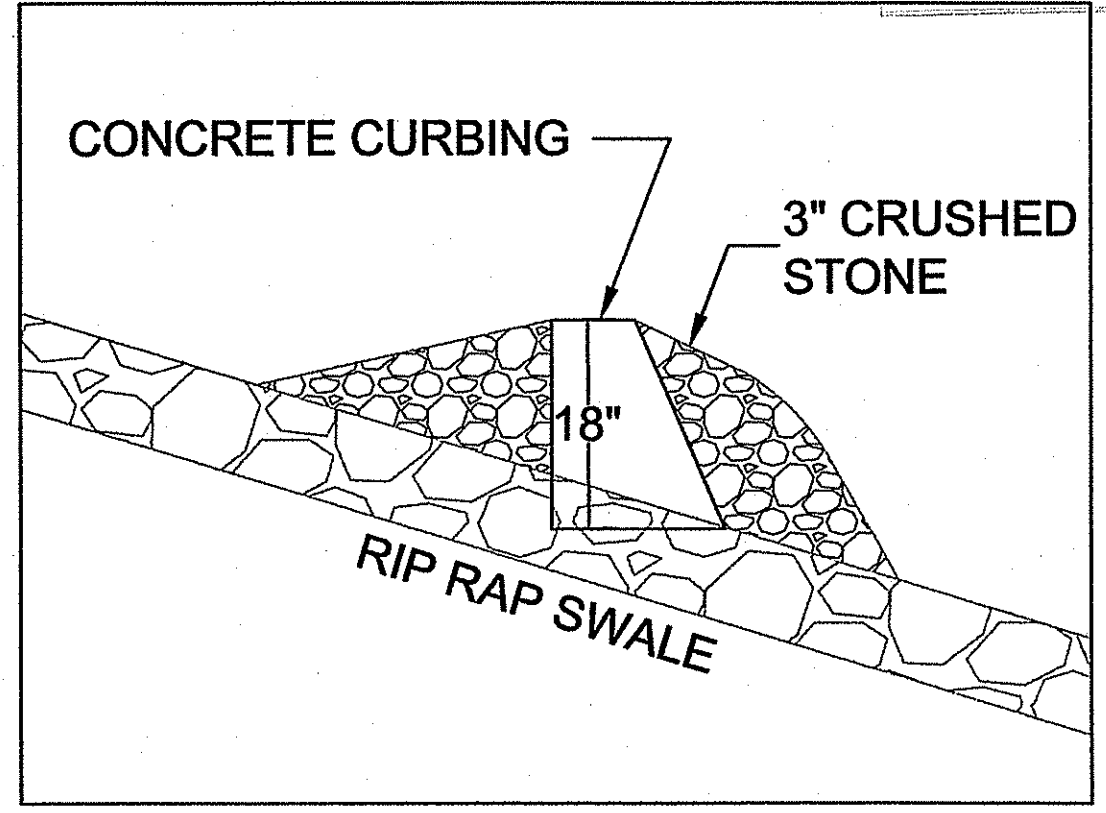
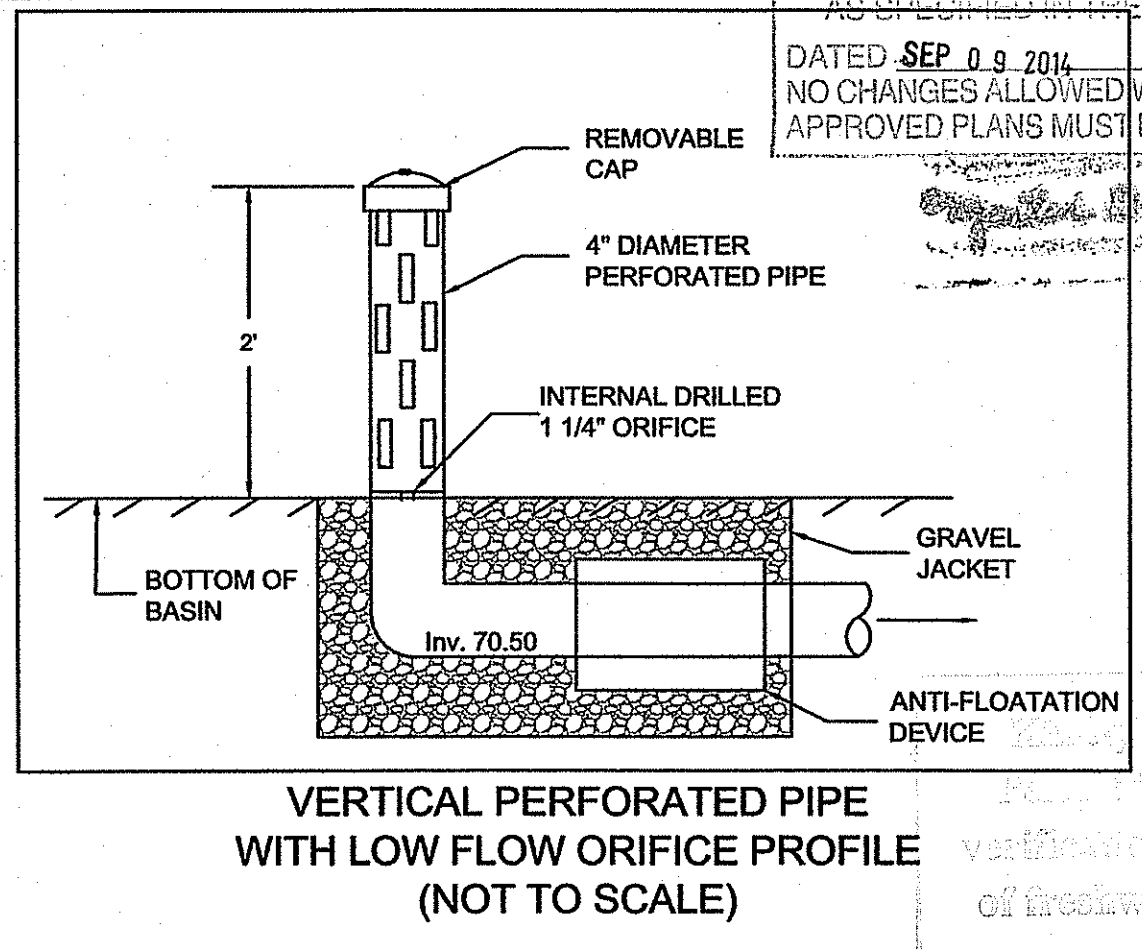
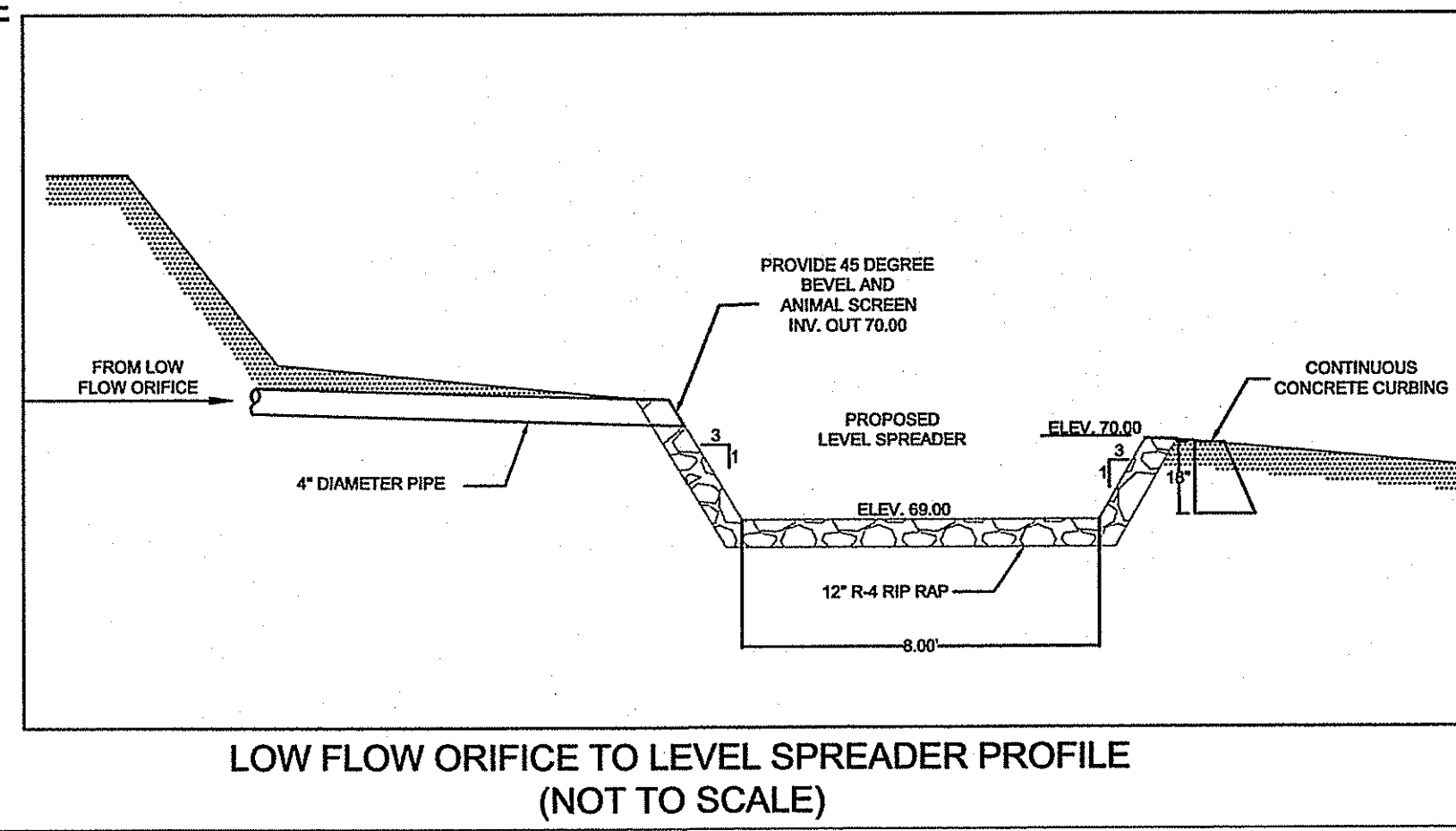
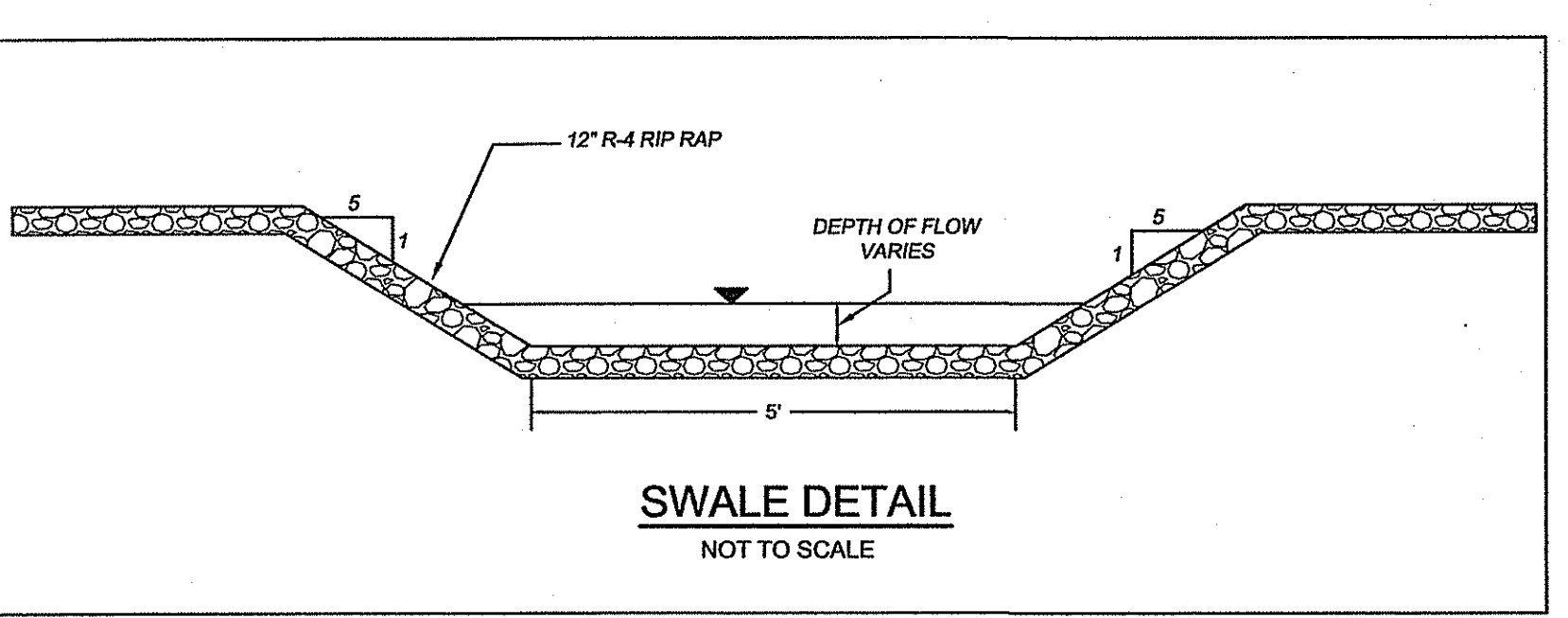
WATER QUALITY BASIN # 1 PROFILE
(NOT TO SCALE)



WATER QUALITY BASIN # 2 PROFILE
(NOT TO SCALE)



EXTENDED DETENTION BASIN PROFILE
(NOT TO SCALE)



DRAINAGE DETAILS FOR

J.I.F. INVESTMENTS, INC.

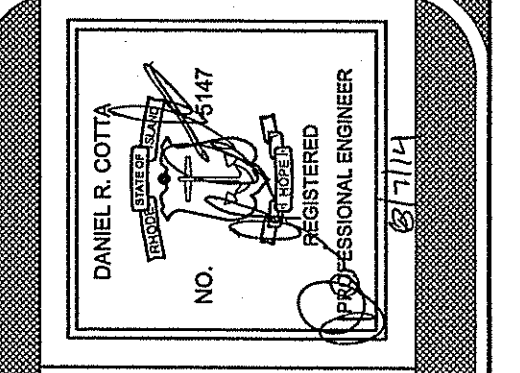
SITE LOCATED AT
DADE ROAD
CUMBERLAND, R.I. 02864

AUG. 8 2014

Drawn By: JPL | Checked By: DTC

Scale: AS SHOWN | Date: 2/28/2014

NO.	REVISION	DATE
1.	PER USER WETLANDS COMMENTS	7/23/14

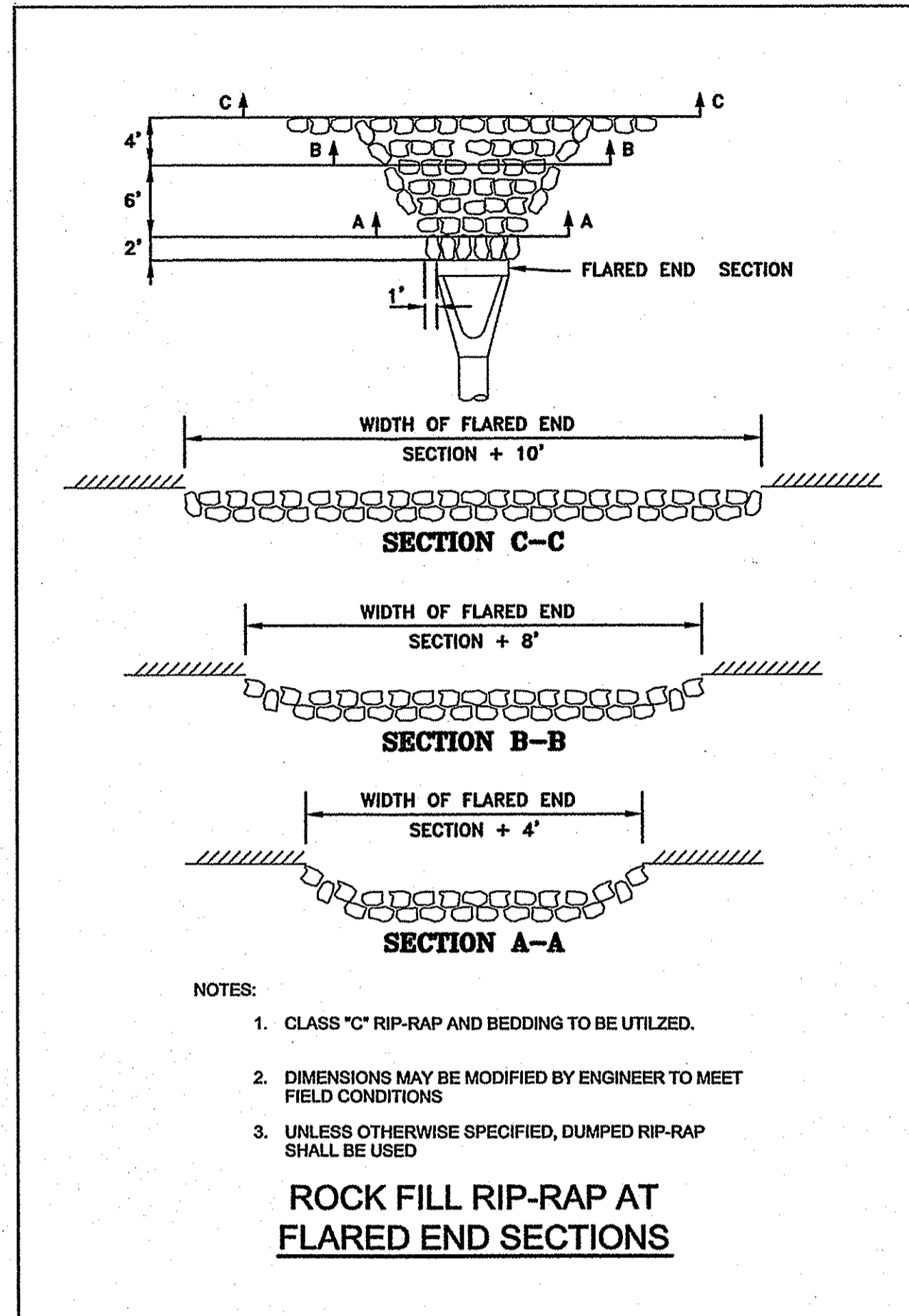
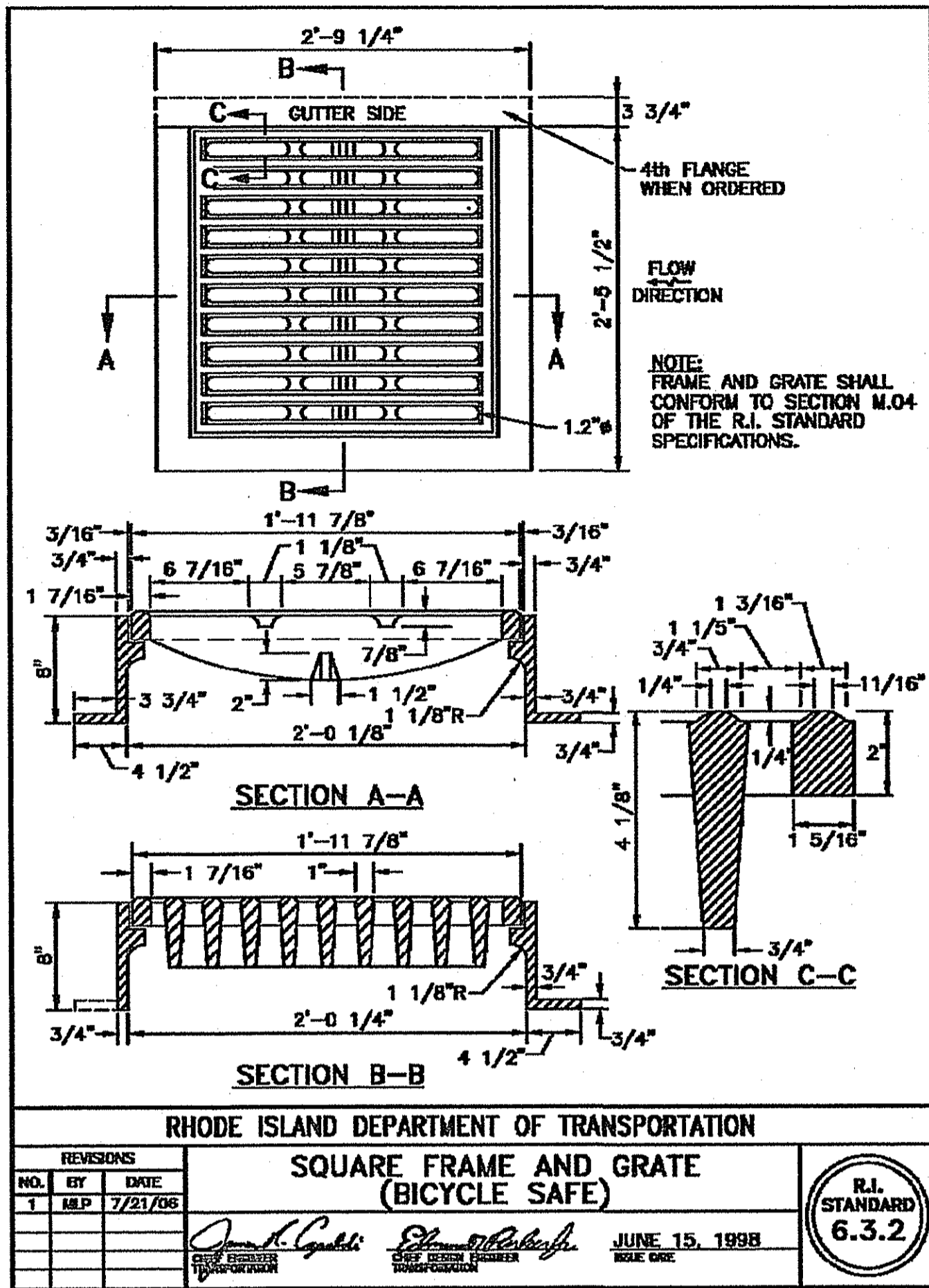


AMERICAN ENGINEERING, INC.

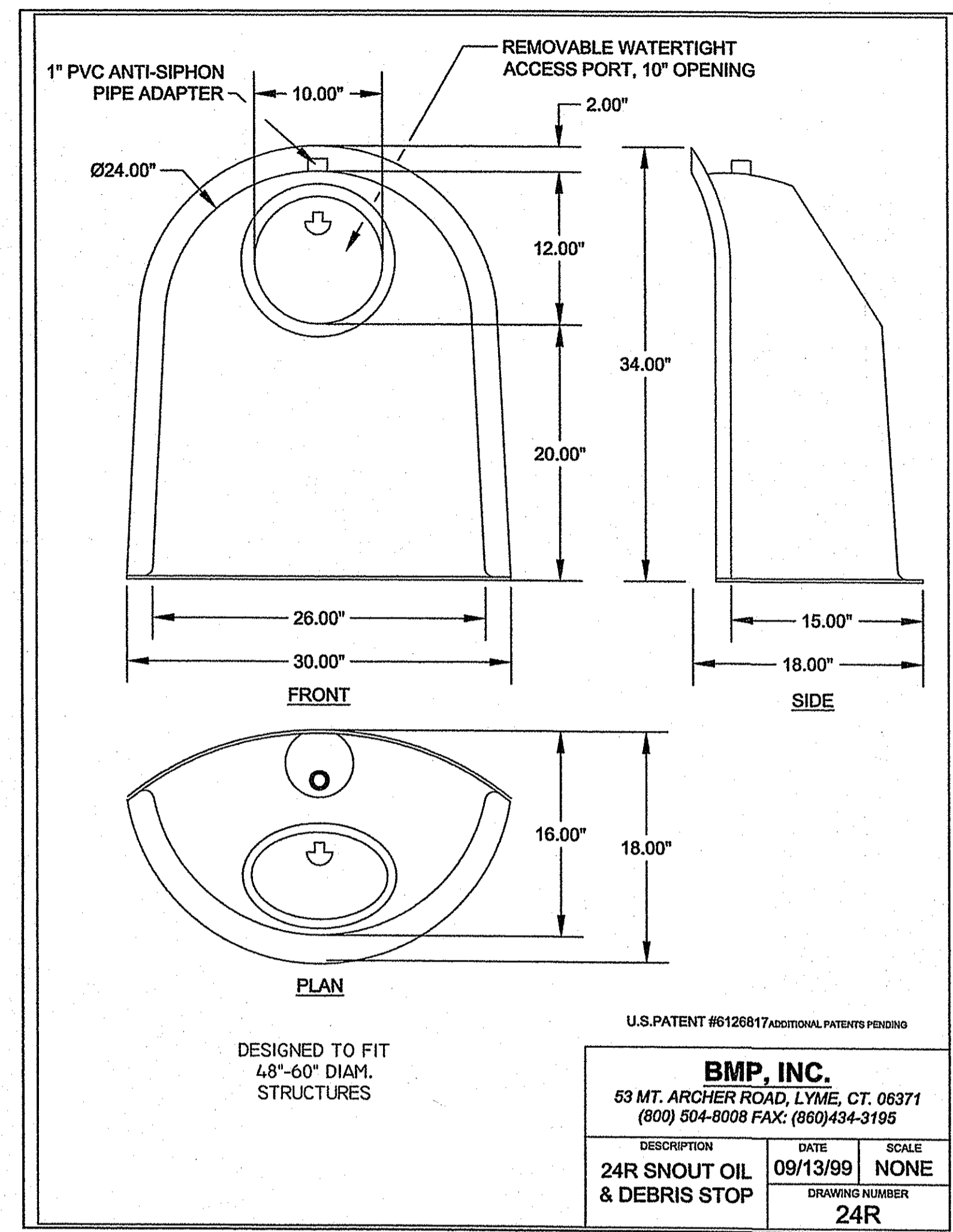
DANIEL R. COTTA Professional Engineer / Professional Land Surveyor

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

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



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

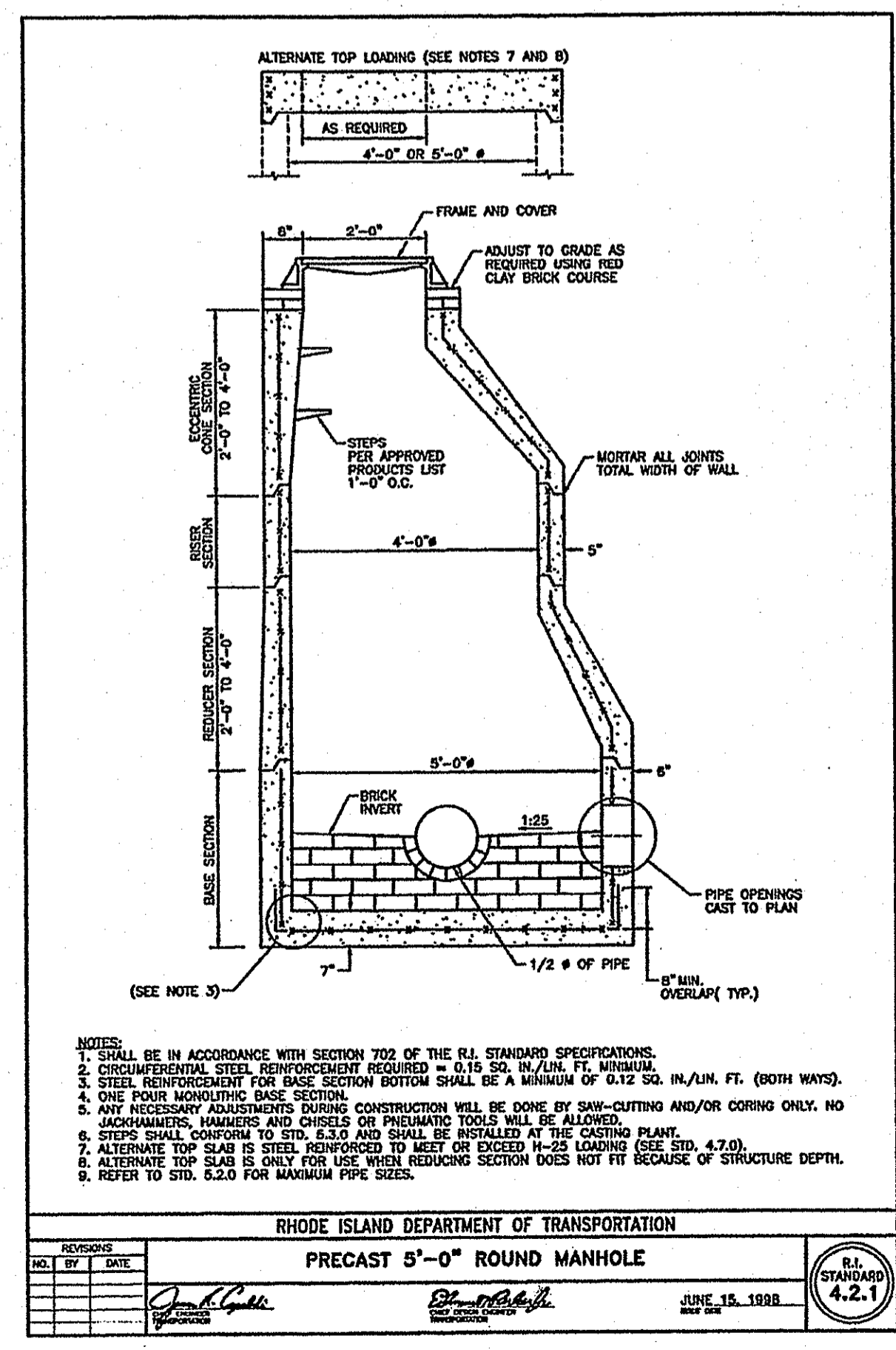
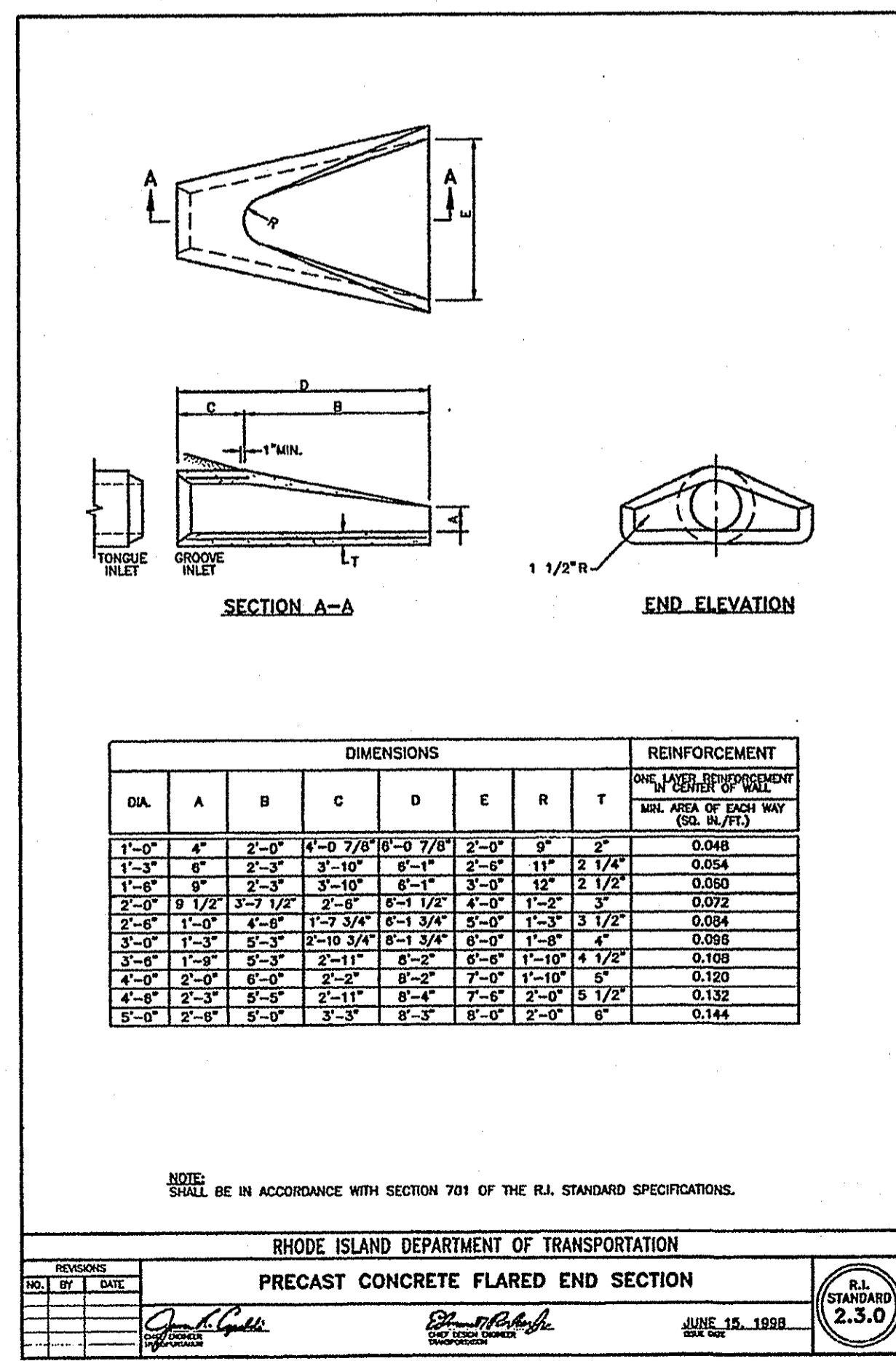


J.I.F. Investments, Inc.
 SITE LOCATED AT
 Dade Road
 Cumberland, R.I. 02864
 AUG 8 2014

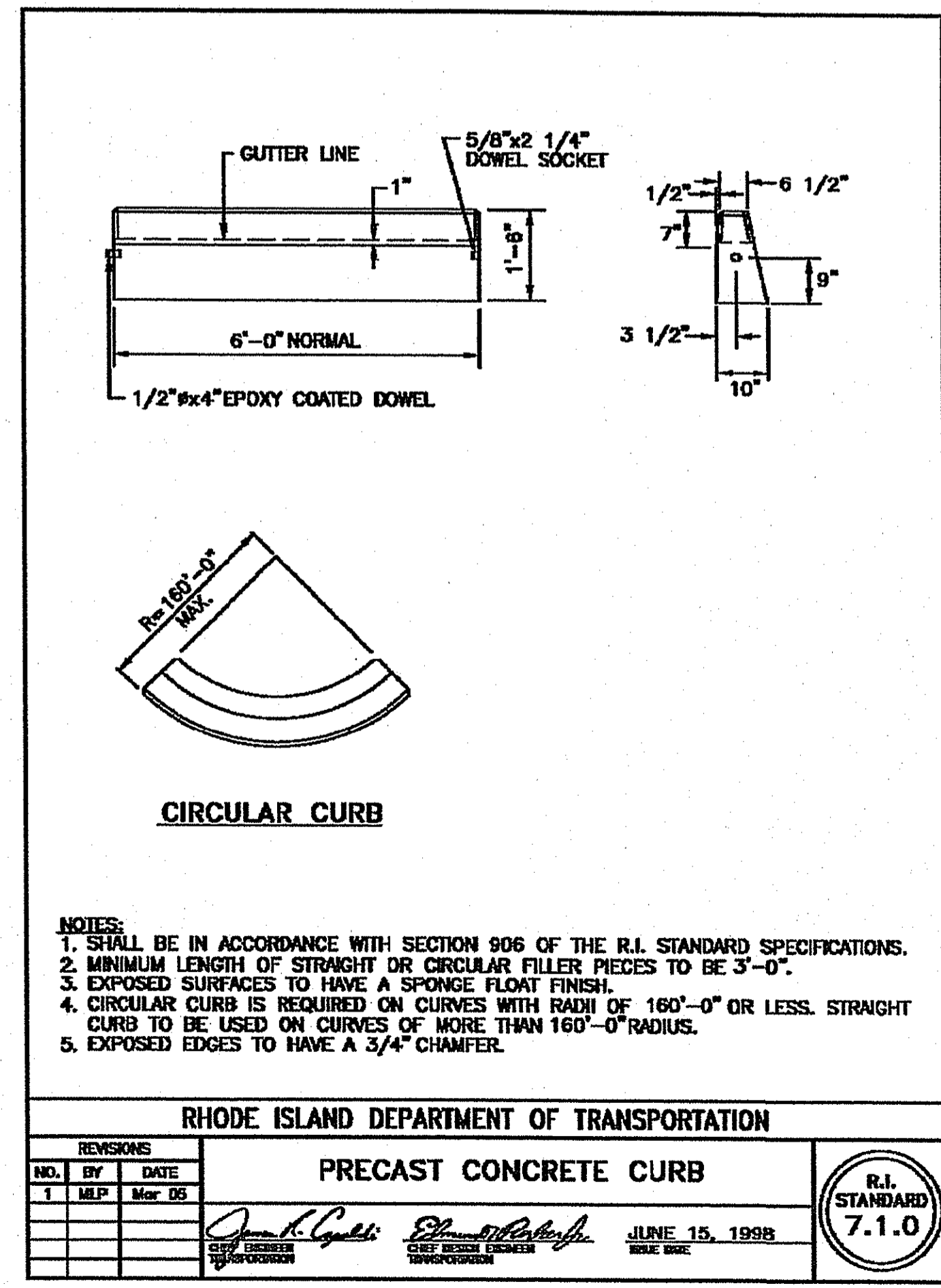
Drawn By: JPL Checked By: DFC
 Scale: AS SHOWN Date: 2/28/2014

NO.	REVISION	DATE
1	PER USER WETLANDS COMMENTS	7/25/14

DANIEL R. COTTA
 PROFESSIONAL ENGINEER
 9/17/13

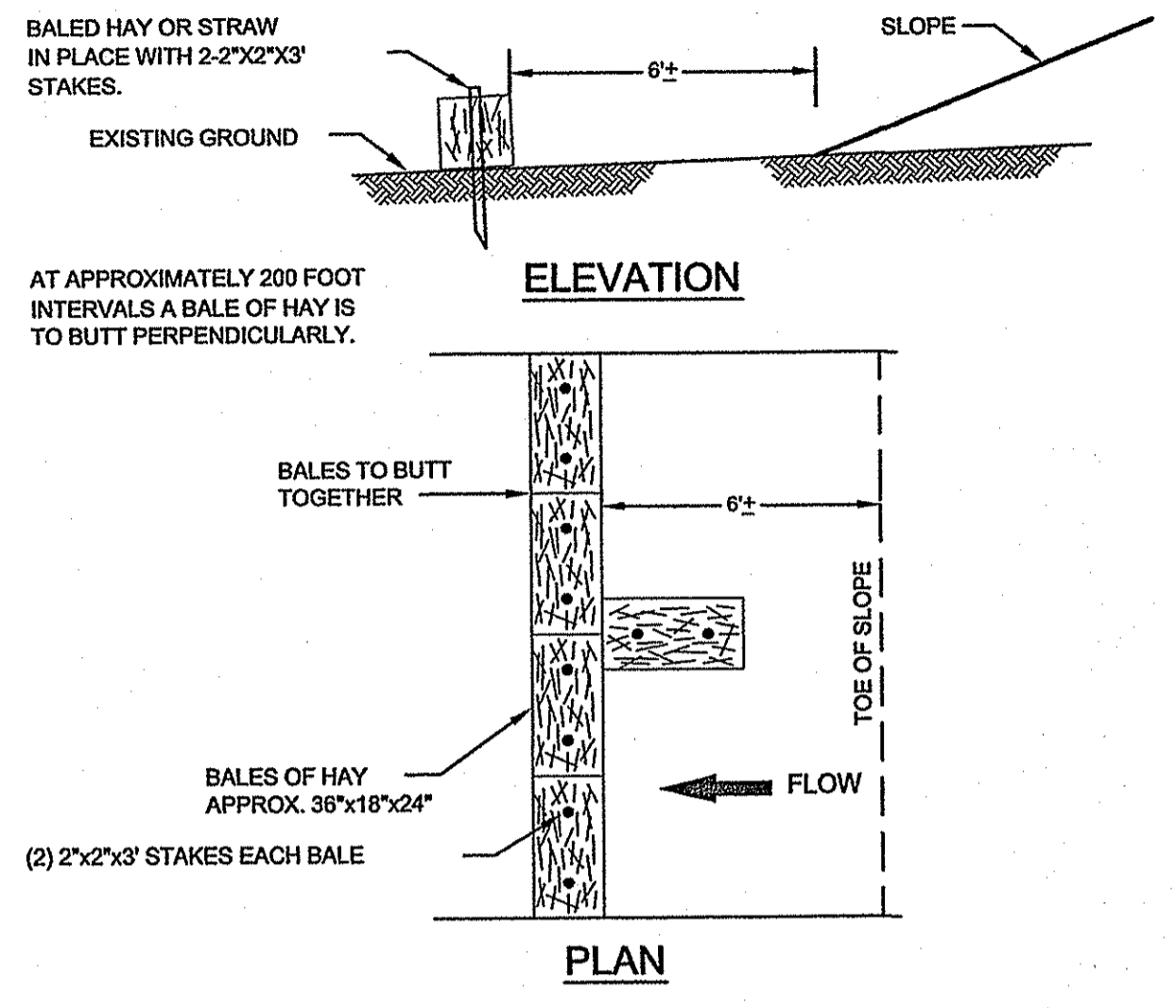


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 18 SEP 09 2011 FILE # 14-0072
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

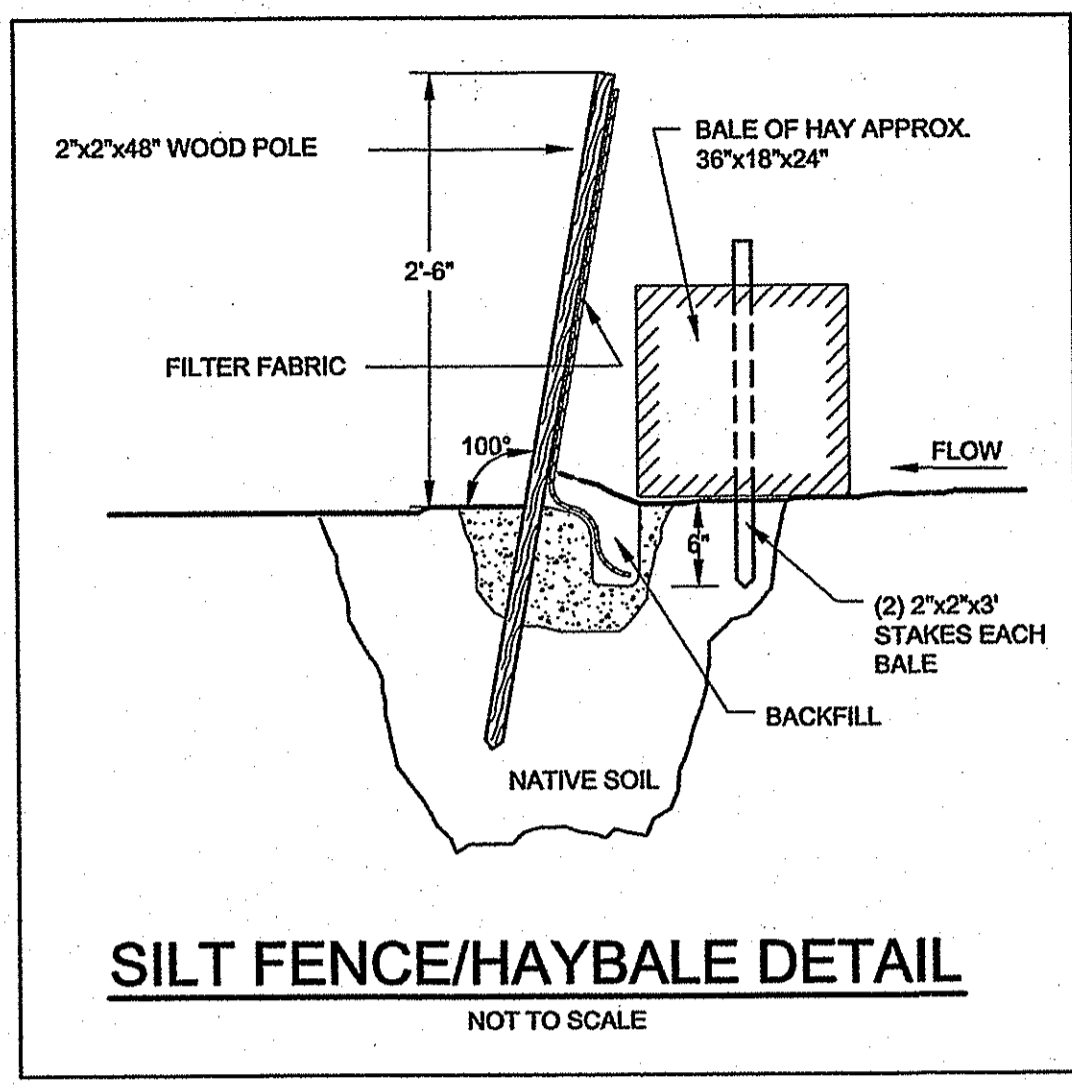


AMERICAN ENGINEERING, INC.
 DANIEL R. COTTA
 Professional Engineer / Professional Land Surveyor
 400 South County Trail - Suite A 201
 Exeter, Rhode Island 02822
 Phone (401) 294-4080 / Fax (401) 294-3825

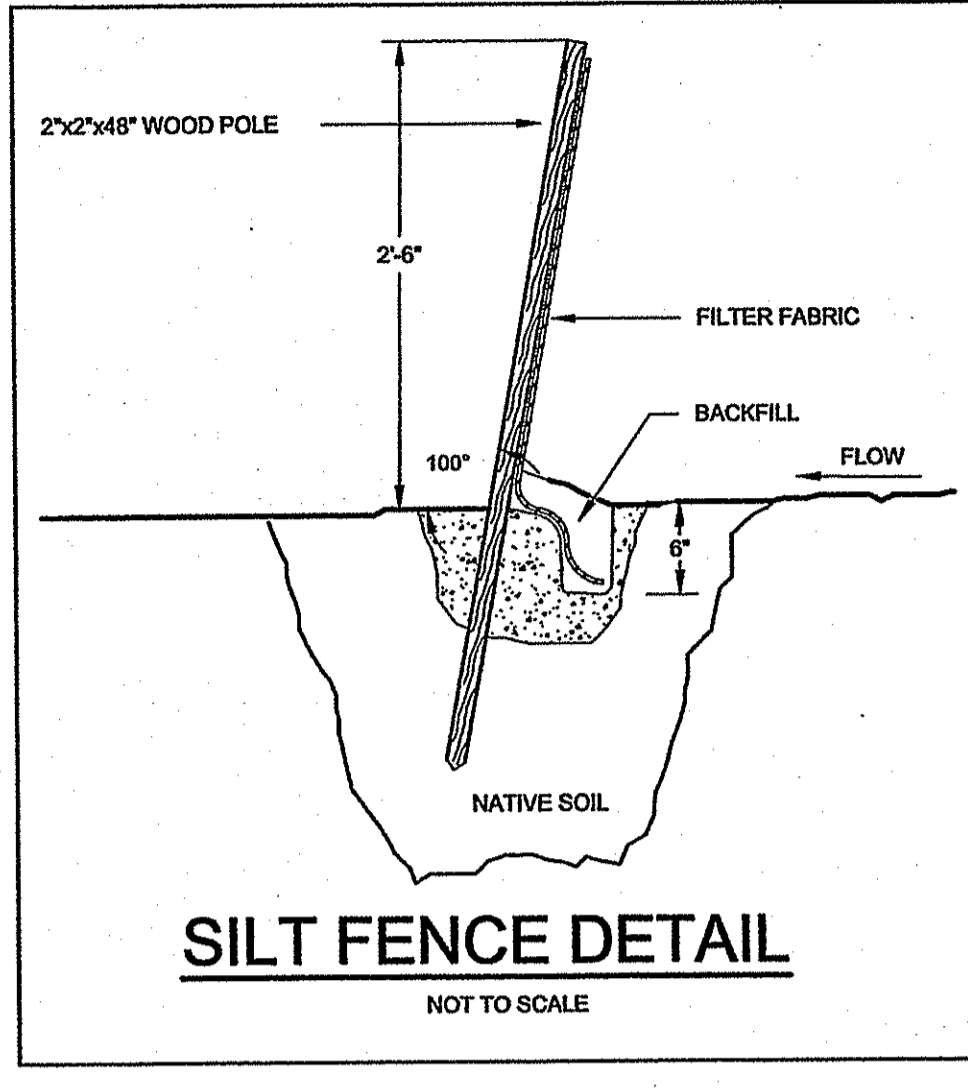
Kindly be advised that this permit is not a substitute for a verification of the type or extent of freshwater wetlands on site.



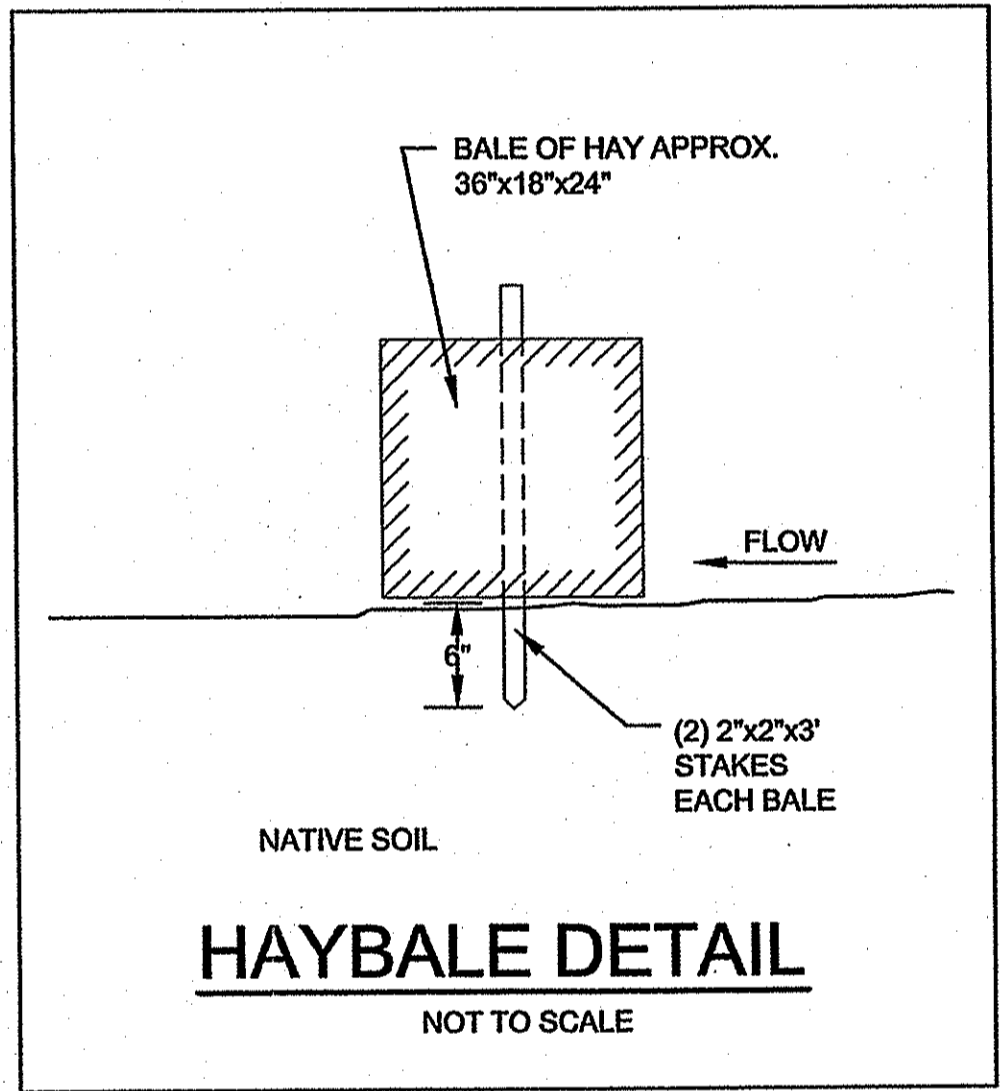
BALED HAY EROSION CHECK
NOT TO SCALE



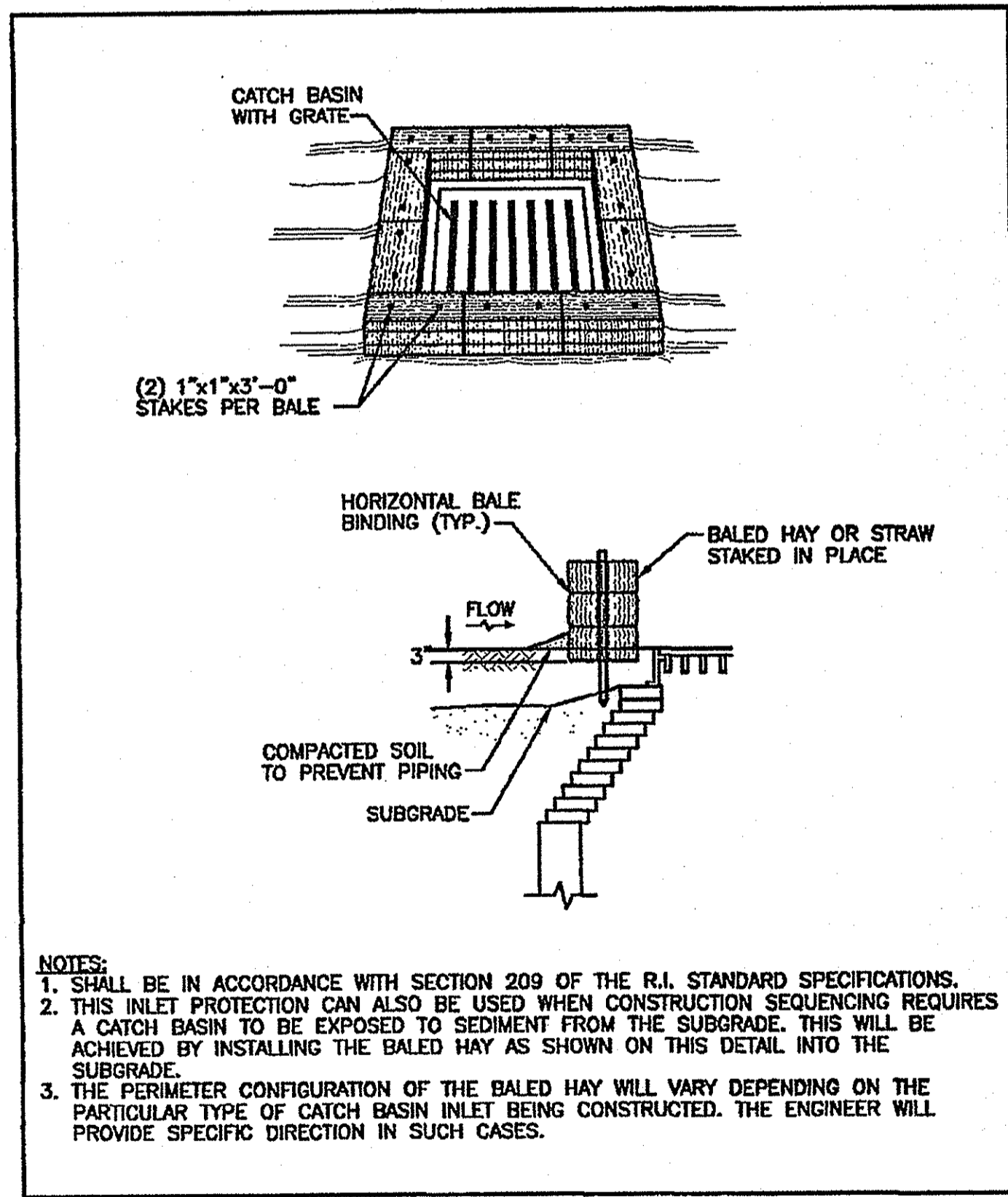
SILT FENCE/HAYBALE DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



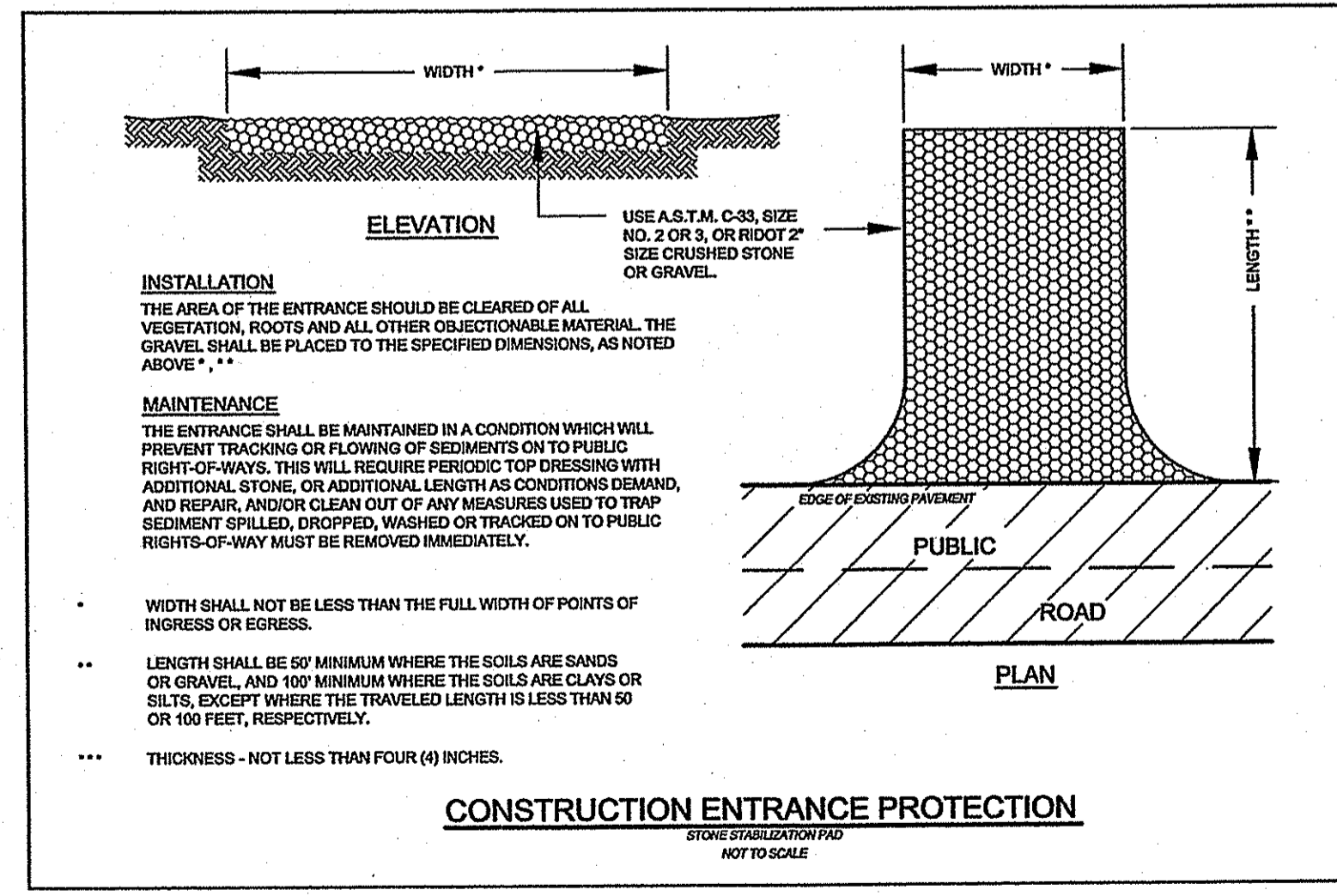
HAYBALE DETAIL
NOT TO SCALE



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 209 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS INLET PROTECTION CAN ALSO BE USED WHEN CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS DETAIL INTO THE SUBGRADE.
3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN INLET BEING CONSTRUCTED. THE ENGINEER WILL PROVIDE SPECIFIC DIRECTION IN SUCH CASES.

REVISIONS		
NO.	BY	DATE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BALED HAY CATCH BASIN INLET PROTECTION
JUNE 15, 1998
R.I. STANDARD 9.8.0



CONSTRUCTION ENTRANCE PROTECTION
NOT TO SCALE

GENERAL BASIN NOTES

THE DETENTION BASIN SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:

1. ALL TREES, SHRUBS AND STUMPS SHOULD BE REMOVED FROM THE SPILLWAY (BERM) SIDE OF THE BASIN.
2. TREES OR SHRUBS SHOULD NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS (I.E., DIKES OR BERMS) OR WITHIN THE BASIN. SUCH PLANTINGS ARE GENERALLY DISCOURAGED IN ORDER TO REDUCE THE CHANCE OF FAILURE DUE TO ROOT DECAY AND SUBSURFACE DISTURBANCE. GRASSES ARE CONSIDERED THE ONLY ACCEPTABLE VEGETATION FOR PLANTING AND STABILIZING IMPOUNDING EMBANKMENTS.
3. THE ENTIRE BASIN MUST BE STABILIZED WITH A DENSE LAYER OF GRASS IMMEDIATELY FOLLOWING BASIN CONSTRUCTION. THIS MAY REQUIRE THE ADDITION OF 4-6 INCHES OF A LOAMY SOIL SUBSTRATE TO PROMOTE GOOD VEGETATIVE GROWTH AND INFILTRATION. THE ADDITION OF LOAMY SOIL TO THE BASIN MUST BE FACTORED INTO THE OVERALL VOLUME REQUIREMENT. THE BASIN SHALL BE SEEDED WITH TURF-TYPE TALL FESCUES OR SIMILAR.
4. THE DETENTION BASINS SHALL ALSO BE UTILIZED AS TEMPORARY BASINS DURING CONSTRUCTION. THESE BASINS SHALL THEN BE ENTIRELY CLEANED OF SEDIMENT AND THE BOTTOM SCARIFIED PRIOR TO SEEDING AND VEGETATION STABILIZATION. FAILURE TO DO SO WILL ALLOW EXCESSIVE QUANTITIES OF SEDIMENTS TO REMAIN IN THE BASINS AND WILL NECESSITATE MORE FREQUENT CLEANING OF THE DRAINAGE SYSTEM.
5. THE MAXIMUM ALLOWABLE SLOPE LEADING TO THE BASIN FLOOR SHALL BE 3:1 (3 HORIZONTAL TO 1 VERTICAL) TO FACILITATE MOWING AND OTHER MAINTENANCE OPERATIONS.
6. CONCRETE FOR OUTLET WEIR SHALL BE CLASS 'A' 3000 PSI. ALL EXPOSED EDGES SHALL HAVE 3/4" CHAMFERS. REINFORCING STEEL SHALL BE GRADE 60.

DETENTION BASIN MAINTENANCE PLAN

THE DETENTION BASIN SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:

1. THE GRASS ON THE DETENTION BASIN (DIKE & SLOPES) SHALL BE MOWED THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES.
2. THE INLET & OUTLET PIPES TO THE DETENTION BASIN SHALL BE KEPT CLEAN OF SILT AND DEBRIS. THE PIPES SHALL BE CLEANED AT THE THREE (3) MOWINGS AND ONCE DURING THE WINTER MONTHS.
3. ACCUMULATED SILT AND DEBRIS SHALL BE REMOVED FROM THE BASIN THREE (3) TIMES A YEAR, PREFERABLE AT THE TIME OF MOWING.
4. ACCUMULATED SILT, SAND AND DEBRIS SHALL BE REMOVED FROM CATCH BASIN SUMPS AS REQUIRED BUT AT A MINIMUM OF TWO (2) TIMES A YEAR IN THE FALL AND SPRING.
5. ALL SILT, SAND AND DEBRIS REMOVED FROM THE BASINS SHALL BE DISPOSED OF OFF-SITE. DISPOSAL LOCATION SHALL BE PRE-APPROVED BY RIDEM.
6. DETENTION BASINS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL APPROVAL OF CONSTRUCTION.

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.
2. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ADJUTING 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 THE "R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1997)", WITH ALL CORRECTIONS AND ADDENDA AND THE 1998 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 1800/225-4977
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.
11. ALL CONSTRUCTION AND UTILITY WORK SHALL CONFORM TO THE LATEST TOWN OF PORTSMOUTH STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, COMPREHEND AND IMPLEMENT THESE REQUIREMENTS PROPERLY.

MAINTENANCE AND RESPONSIBILITY

1. THE CONSTRUCTION SUPERINTENDENT 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. REPLANTING, REGRAVING OR OTHER REPAIRS NEEDED AS A RESULT OF EROSION AND SEDIMENTATION CONTROL PROGRAMS SHOULD BE DONE PROMPTLY.

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 SEED 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
PERENNIAL RYEGRASS 15 APRIL 1 - JUNE 15
COLONIAL BENTGRASS 5 AUG. 15 - OCT. 15
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 APRIL 1 - JUNE 15
COLONIAL BENTGRASS 5 AUG. 15 - OCT. 15
BIRDSFOOT TREFLOIL 15

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
OATS	120	3.0	MAR. 15 - JUNE 15
WEEPING LOVEGRASS	20	0.5	MAY 1 - JUNE 30

6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURAP, JUTE, FIBERGLASS NETTING, EXCELSOR 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
OATS 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 SEED AND/OR STABILIZED.
14. ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACING" TO TACK DOWN MULCH APPLICATIONS.
15. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE

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 SOIL CONSERVATION SERVICE, 1989", WITH ANY AMENDMENTS, AS A GUIDE.

ORDER OF PROCEDURE

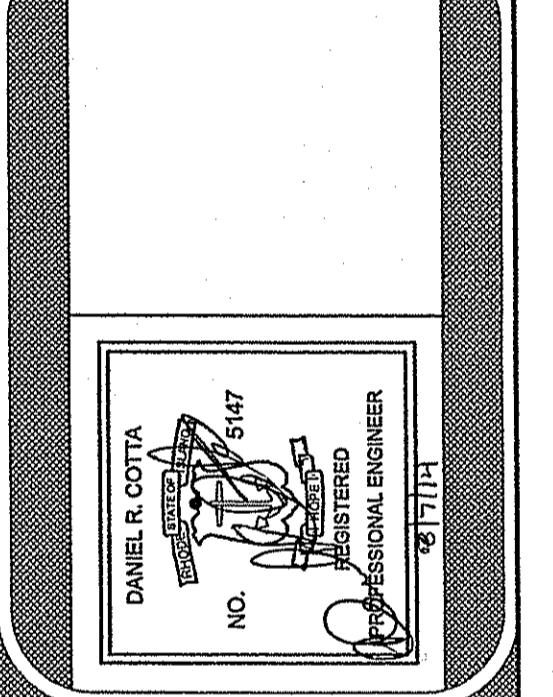
1. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY GRADING, TEMPORARY HAYBALES, SILT FENCE OR SANDBAGS SHALL BE PLACED ALONG THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. (I.E. ALONG NEW ROADWAYS, STREAMBANKS, CRITICAL AREAS, ETC.)
2. ALL EROSION AND SEDIMENTATION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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 0 9 2014 FILE # 14-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SOIL EROSION AND CONTROL PLAN FOR
J.I.F. Investments, Inc.
SITE LOCATED AT
Dade Road
Cumberland, R.I. 02864
AUG 8 2014

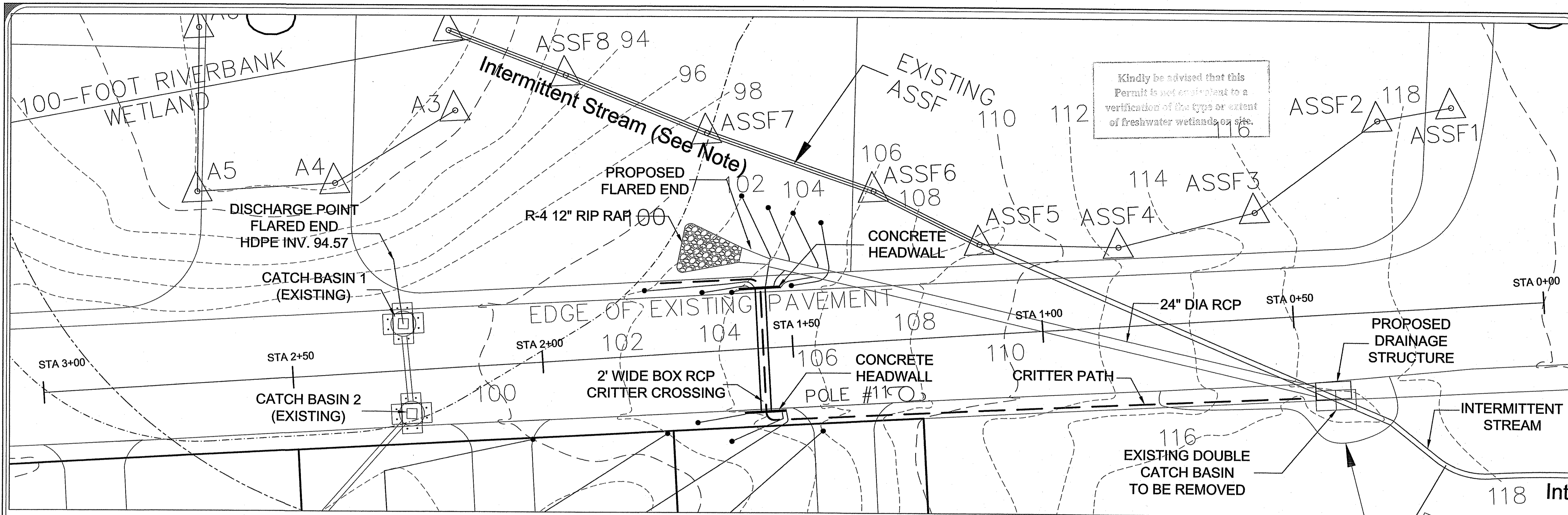
Drawn By: JPL Checked By: Drc
Scale: AS SHOWN Date: 2/28/2014

NO.	REVISION	DATE
1.	PER DEW WETLANDS COMMENTS	JPL 7/25/14



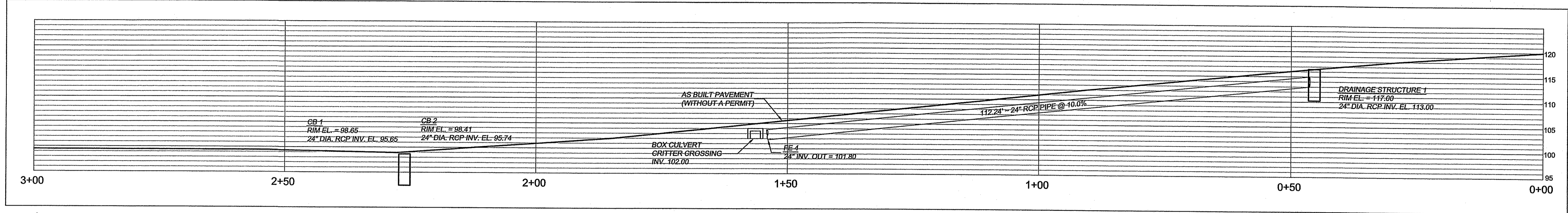
AMERICAN ENGINEERING, INC.
Professional Engineer / Professional Land Surveyor
DANIEL R. COTTA
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
Phone (401) 294-4090 / Fax (401) 294-3625

Sheet
8
of 9 sheets
Drawing No. 112186

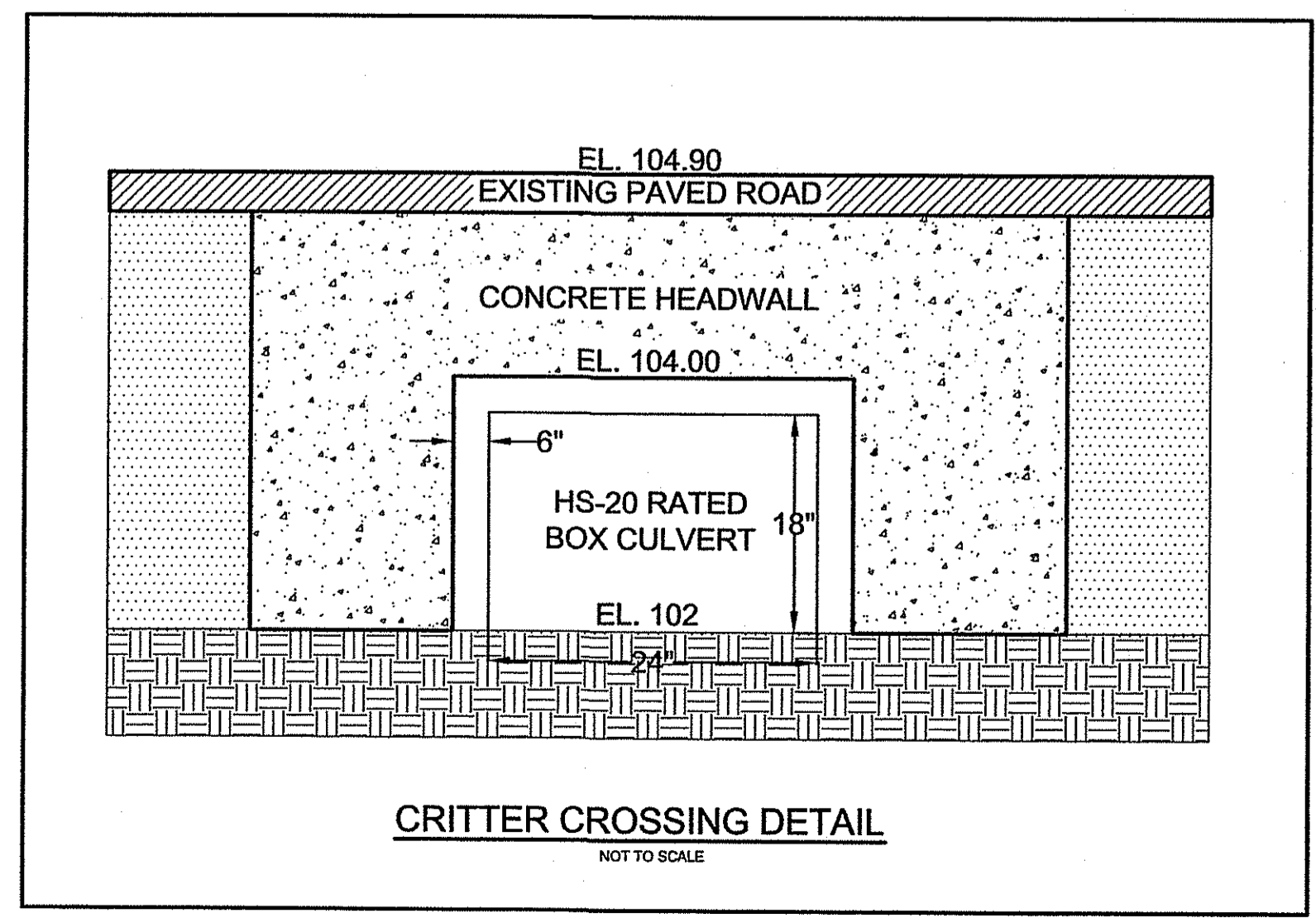


Kindly be advised that this Permit is not a substitute to a verification of the type or extent of freshwater wetlands on site.

AREA OF DETAIL
SCALE 1" = 10'

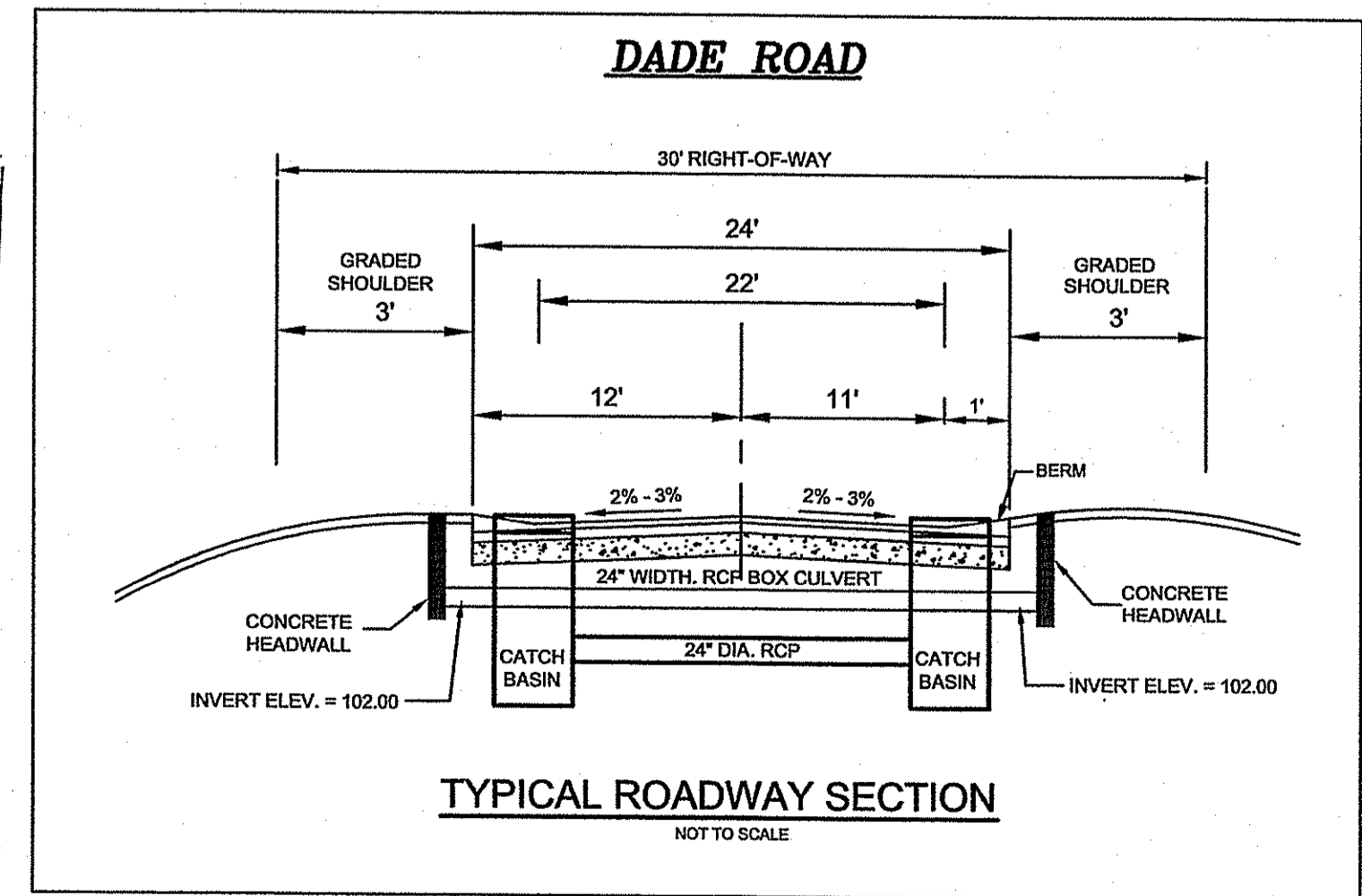


ROAD PROFILE
SCALE 1" = 10'



CRITTER CROSSING DETAIL
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 02 2012 FILE # 14-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Daniel R. Cotta

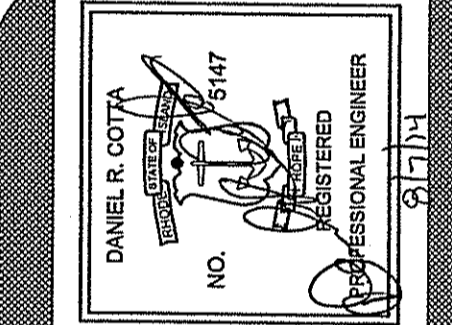


TYPICAL ROADWAY SECTION
NOT TO SCALE

CRITTER CROSSING PLAN
FOR

J.I.F. Investments Inc.
SITE LOCATED AT
Dade Road
Cumberland, R.I. 02864

Drawn By: JPL
Scale: 1" = 10'
Checked By: DrC
Date: 07/02/2014



AMERICAN ENGINEERING, INC.
DANIEL R. COTTA
Professional Engineer / Professional Land Surveyor

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