

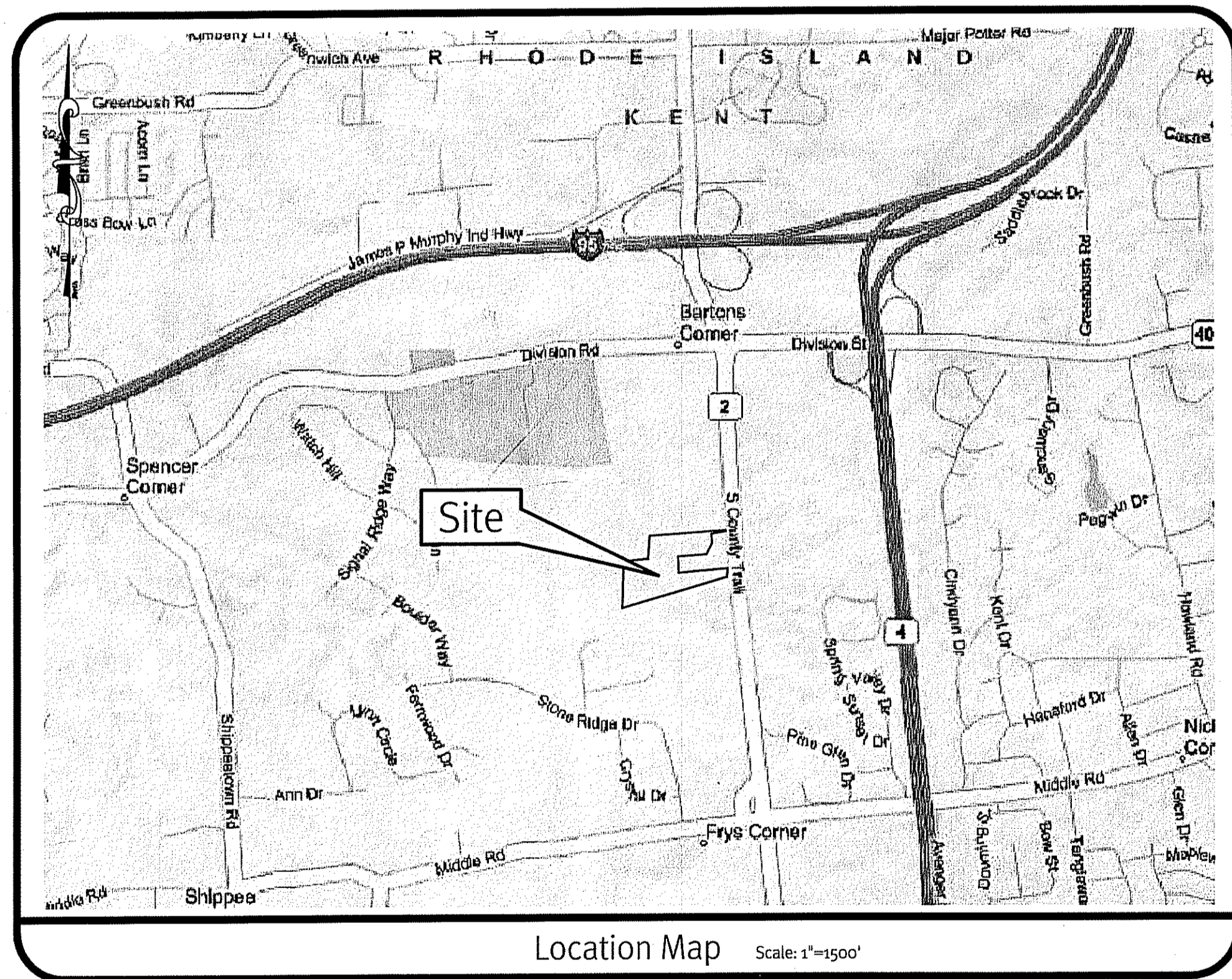
RIDEM Application to Alter Freshwater Wetlands Submission

Fry Brook Office Park

South County Trail

East Greenwich, Rhode Island

Rhode Island Assessor's Plat 12A Lot 97



Sheet Index

1. Cover Sheet
2. Aerial Half Mile Radius
3. Existing Conditions Plan
4. Overall Site Plan
5. Grading and Utility Plan - 1
6. Grading and Utility Plan - 2
7. Grading and Utility Plan - 3
8. Erosion Control Details
9. Street Details
10. Drainage Details
11. Basin A Details
12. Basin B Details
13. Basin C Details

"Appendix B"
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 28 2011 FILE # 08-0387
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Hackett

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

LEONARD R. BRADLEY, R.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Cover Sheet
Fry Brook Office Park
 AP-12A, Lot 97 East Greenwich, Rhode Island

DiPrete Engineering
 Environmental Management
 MAY 2 2011
 Office of Water Resources

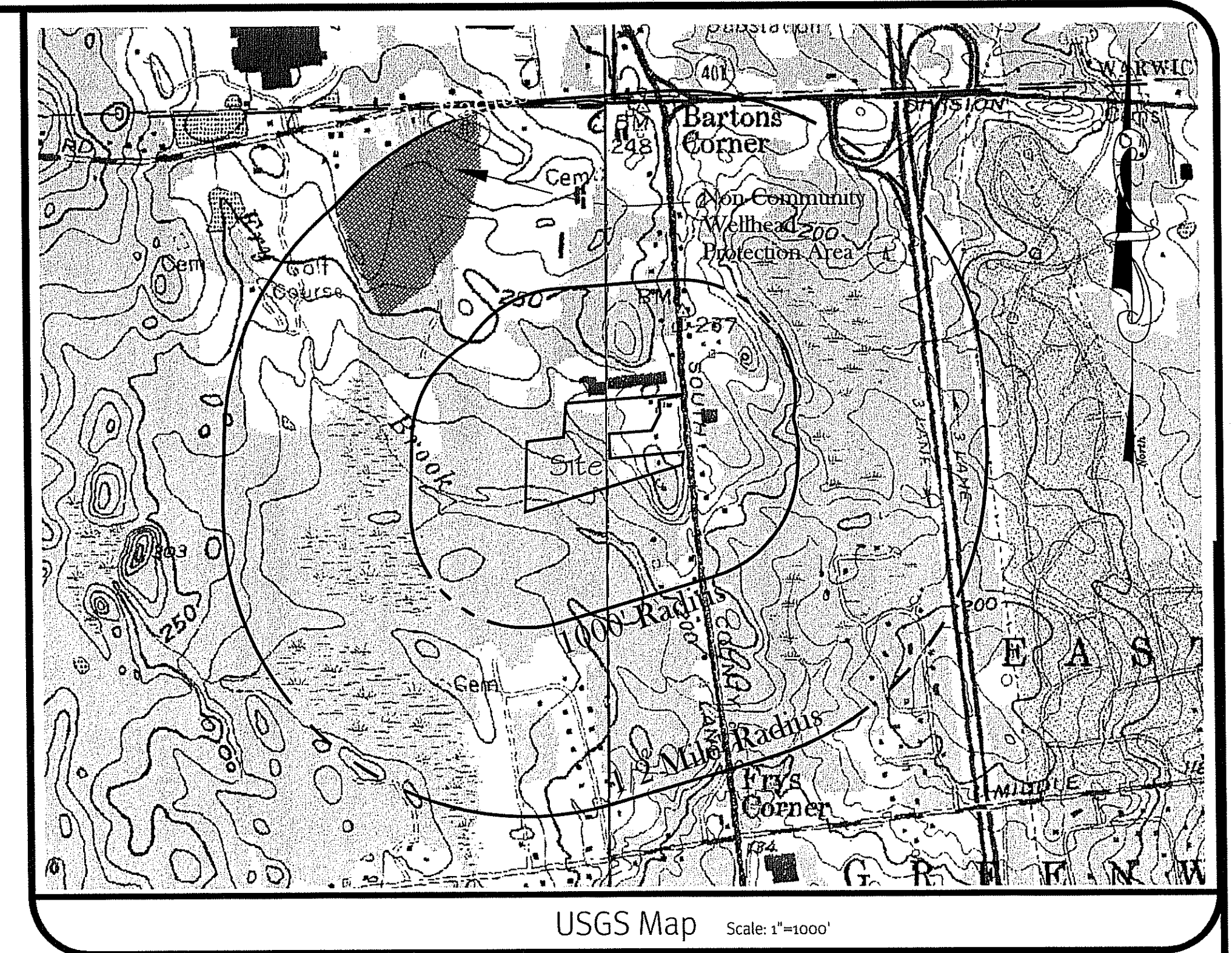
Two Stafford Court Cranston, RI 02920
 tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

Applicant
West Bay Partnership, LLC
 P.O. Box 610, East Greenwich, RI 02818
 (401) 884-6361

No.	Date	Description	By:
5	4-28-11	RIDEM Application to Alter Resubmission	B.D.C.
4	4-1-11	RIDEM Application to Alter Resubmission	B.D.C.
3	8-2-10	RIDEM Application to Alter Resubmission	B.D.C.
2	6-10-10	RIDEM Application to Alter Resubmission	B.D.C.
1	12-17-08	RIDEM Application to Alter Submission	T.L.L.
0	8-31-08	Master Plan Submission	B.C.G.

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

SHEET **1** OF 13



USGS Map Scale: 1"=1000'

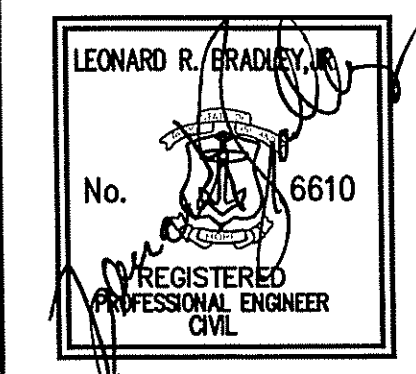
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Charles A. Harte

Photo obtained from the RI-GIS of 2004 Digital Orthophotography Southern Urban Areas of Rhode Island.

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**Aerial Half Mile Radius
 Fry Brook Office Park**
 AP 12A, Lot 97 East Greenwich, Rhode Island

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0	8-04-08	Master Plan Submission	B.C.G.

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

SCALE: 1"=400'
 0 200' 400' 800'

Engineers • Planners • Surveyors

R.I. State Plane (NAD 83)



GENERAL NOTES

1. THE SITE IS LOCATED ON TOWN OF EAST GREENWICH ASSESSORS PLAT 12A LOT 97.
2. THE AREA OF THE SITE IS APPROXIMATELY 16 ± ACRES. THE SITE IS ZONED LIO.
3. THE CURRENT OWNER OF THE SITE IS WEST BAY PARTNERSHIP, LLC
PO BOX 610
EAST GREENWICH, RI 02818
4. SOIL MAPPING OBTAINED FROM 'SOIL SURVEY OF RHODE ISLAND' PREPARED BY US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DATED 1981.
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS 1 SURVEY AS PERFORMED BY DIPRETE ENGINEERING. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
6. SITE TOPOGRAPHY BY AERIAL MAPPING FROM COL-EAST, NORTH ADAMS, MA. HORIZONTAL DATUM IS RHODE ISLAND STATE PLANE (NAD 83) AND VERTICAL DATUM IS NAVD'88.
7. THE 2005 RIDOT AVERAGE DAILY TRAFFIC COUNT ON SOUTH COUNTY TRAIL (ROUTE 2) BETWEEN MIDDLE ROAD AND DIVISION STREET IS 19,400 CARS PER DAY.
8. THE SITE IS NOT LOCATED IN ANY GROUNDWATER RECHARGE AREAS, GROUNDWATER RESERVOIRS, WELLHEAD PROTECTION AREAS, OR NATURAL HERITAGE AREAS.
9. THE WETLANDS HAVE BEEN DELINEATED BY NATURAL RESOURCE SERVICES, INC. AND FIELD LOCATED BY DIPRETE ENGINEERING.
10. THE SITE IS LOCATED IN FEMA FLOOD ZONE A AND FEMA FLOOD ZONE C. REFERENCE FEMA FLOOD INSURANCE RATE MAP 445397 0002 B, MAP REVISED FEBRUARY 16, 1983.
ZONE A - AREAS OF 100 YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED.
ZONE C - AREAS OF MINIMAL FLOODING
11. UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-7233, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFES SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.

SOIL INFORMATION (REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
BmA	BRIDGEHAMPTON SILT LOAM, TILL SUBSTRATUM, 0 TO 3 PERCENT SLOPES
BnB	BRIDGEHAMPTON-CHARLTON COMPLEX, VERY STONY, 0 TO 8 PERCENT SLOPES
BoC	RIDGEHAMPTON-CHARLTON COMPLEX, VERY STONY, 3 TO 15 PERCENT SLOPES
Rf	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS
UD	UDORTHTENS-URBAN LAND COMPLEX

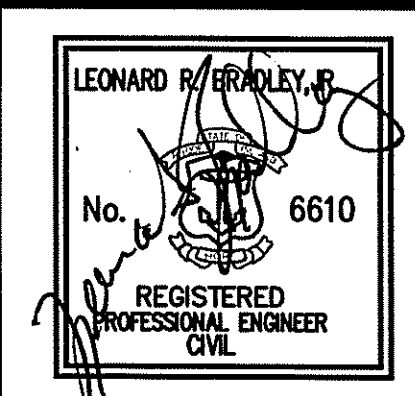
EXISTING LEGEND

ASSESSOR'S LINES	---	EXISTING GAS LINE	---
PROPERTY LINE	=====	EXISTING WATER MAIN	W
SOIL BOUNDARY LINE	-----	EXISTING SEWER LINE	S
WETLAND FLAG	WF C14 ●	EXISTING FENCE	+
WETLAND EDGE	-----	SOIL IDENTIFICATION	BoC
100' RIVERBANK WETLAND	-----	EXISTING STONEWALL	-----
50' PERIMETER WETLAND	-----	EXISTING BUILDING	▨
200' RIVERBANK WETLAND	-----	EXISTING UTILITY POLE	⊥
EXISTING TREELINE	-----	EXISTING TREE GREATER THAN 6 INCHES	⊙
EXISTING STREAM	-----	EXISTING TOWER	▽
FEMA FLOODPLAIN	-----	EXISTING MAJOR CONTOUR	240
EXISTING GRAVEL AREA	-----	EXISTING MINOR CONTOUR	242
EXISTING PAVED AREA	-----	AP	ASSESSOR'S PLAT
BUILDING SETBACKS	-----	UP	UTILITY POLE
SOIL EVALUATION	SY 4	DB/PG	DEED BOOK / PAGE
	GWT=15"	R&D	REMOVED AND DISPOSED

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Existing Conditions Plan
Fry Brook Office Park
AP 12A, Lot 97 East Greenwich, Rhode Island

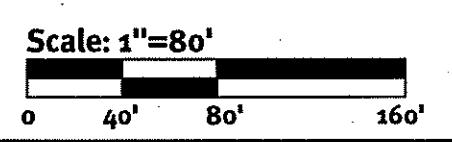


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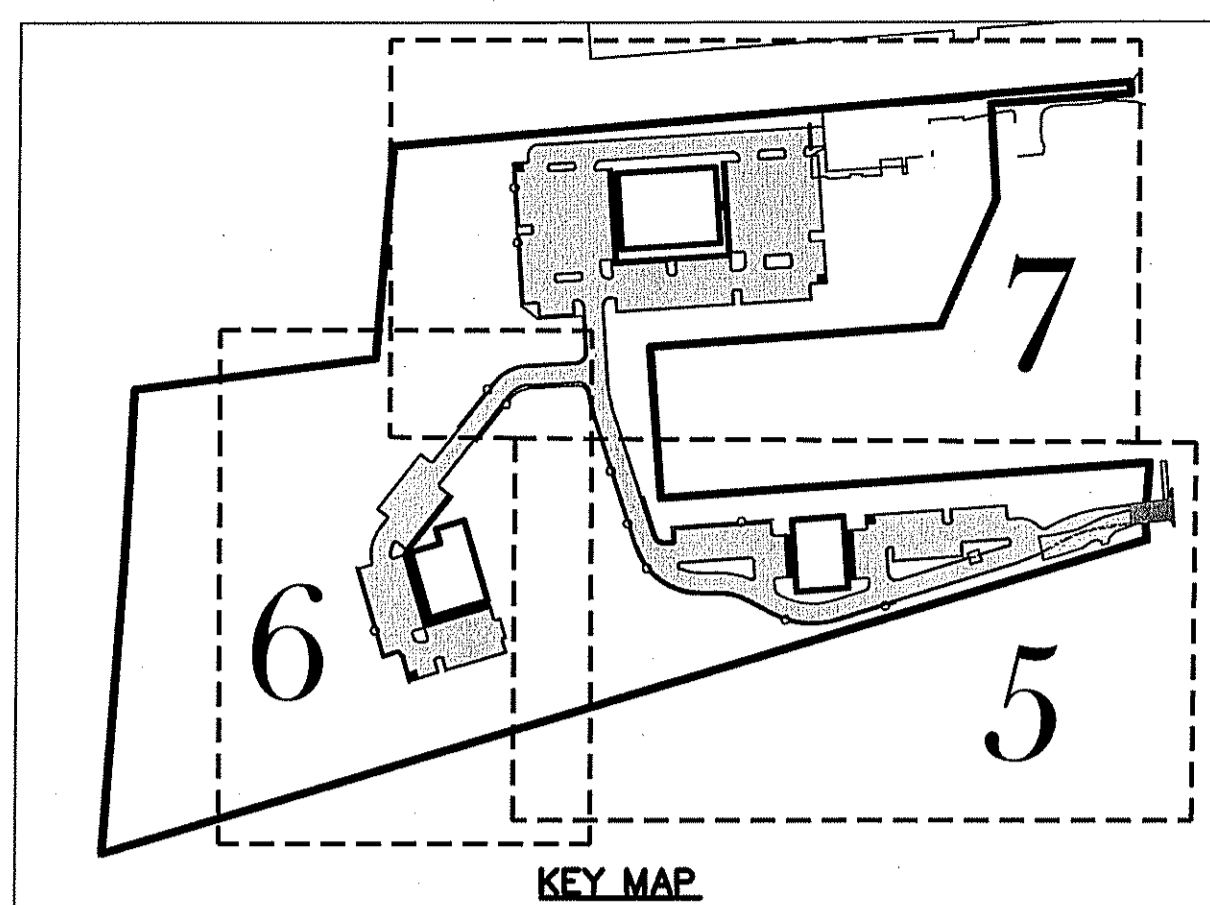
Applicant
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No.	Date	Description	By:

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.



Engineers - Planners - Surveyors



AP 12 LOT 75
ZONED: FFI
N/F
NEW ENGLAND
INSTITUTE OF TECHNOLOGY

SITE
AP 12A
LOT 97
ZONED: LIO
N/F
WEST BAY
PARTNERSHIP, LLC
16.45 ACRES

AP 12A LOT 18
ZONED: LIO
N/F
KENT REALTY COMPANY LLC.

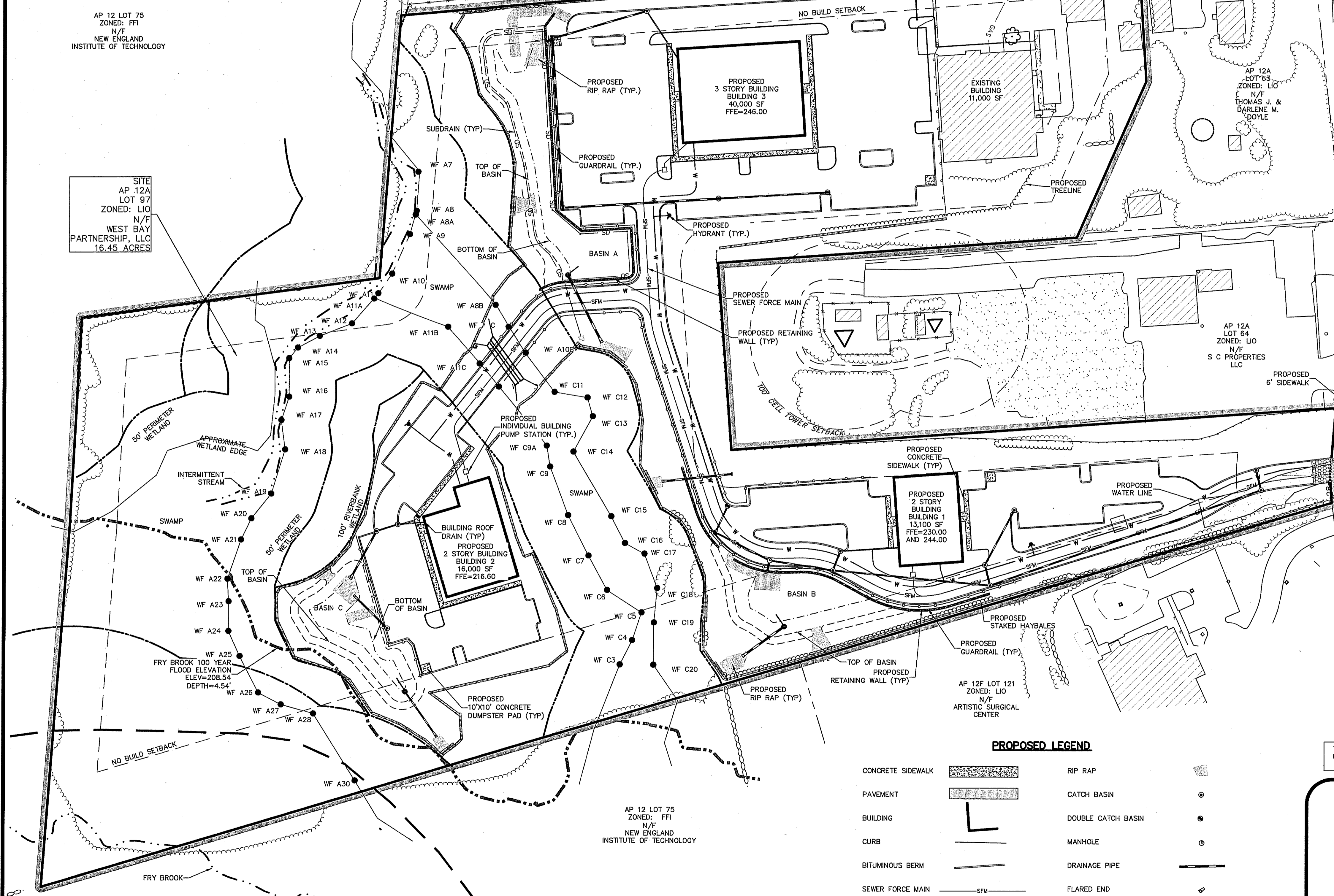
AP 10D LOT 377
ZONED: LIO
N/F
SUNNY HOLME ACRES

AP 10 LOT 235
ZONED: LIO
N/F
LEONARD M. &
LINDA J. REYNOLDS

AP 10 LOT 11
ZONED: LIO
N/F
MPI ACQUISITIONS INC.

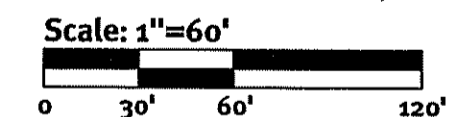
AP 10 LOT 12
ZONED: LIO
N/F
METHODIST CHURCH
TRUSTEES

AP 12 LOT 75
ZONED: FFI
N/F
NEW ENGLAND
INSTITUTE OF TECHNOLOGY



PROPOSED LEGEND

CONCRETE SIDEWALK	RIP RAP
PAVEMENT	CATCH BASIN
BUILDING	DOUBLE CATCH BASIN
CURB	MANHOLE
BITUMINOUS BERM	DRAINAGE PIPE
SEWER FORCE MAIN	FLARED END
WATER SERVICE	SUBDRAIN (4" PVC)
HYDRANT	LIMIT OF WORK
	STAKED HAY BALES OR SILT FENCE



GENERAL NOTES

1. THE SITE IS TO BE SERVED BY PUBLIC SEWER AND PUBLIC WATER.
2. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF EAST GREENWICH SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM WILL MEET THE RIDEM BEST MANAGEMENT PRACTICES.
3. THE SITE IS PROPOSED TO BE BUILT IN 1 PHASE.

CONSTRUCTION NOTES

1. THE CONTRACTOR IS TO NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION.
2. NO STOCKPIILING OF MATERIAL IS TO BE ALLOWED WITHIN A PUBLIC R.O.W. NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
3. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR IS TO NOTIFY THE DIRECTOR OF PUBLIC WORKS, RHODE ISLAND DEPARTMENT OF TRANSPORTATION, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
5. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF EAST GREENWICH STANDARD SPECIFICATIONS AND DETAILS.
6. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN APPROVED MANNER AT AN APPROVED LOCATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE. THIS PLAN SHOWS GENERAL GRADING ONLY AND ADDITIONAL DETAIL IS LIKELY TO BE REQUIRED AROUND THE BUILDING.
8. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
9. ALL PROPOSED DRAINAGE PIPE TO BE HOPE UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR UTILITY CONNECTIONS.
11. UNDERGROUND UTILITIES ARE PROPOSED ONSITE.
12. ALL STEEP SLOPES AND RETAINING WALLS ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL SLOPES AND RETAINING WALLS ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION.
13. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. HAS NOT PROVIDED THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
14. ALL EXISTING UTILITIES SHOWN ARE SCHEMATIC IN NATURE AND DIPRETE ENGINEERING ASSOCIATES, INC. DOES NOT CERTIFY ITS ACCURACY. THE CONTRACTOR IS TO VERIFY THE UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION.

ADA NOTES

1. ALL IMPROVEMENTS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) BY THE DEPARTMENT OF JUSTICE.
2. MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.045' AND MAXIMUM CROSS SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.015'.
3. MAXIMUM SLOPE IN ANY DIRECTION FOR ALL ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE 0.015'.
4. AT A MINIMUM, A 5' X 5' LANDING WITH A MAXIMUM SLOPE OF 0.015' IN ANY DIRECTION SHALL BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/EGRESSES.
5. SIDEWALK CURB RAMPS SHALL COMPLY WITH DIPRETE ENGINEERING DETAILS MEETING OR EXCEEDING RIDOT STANDARDS 43.3.0, 43.3.1 & 43.4.1 AS SHOWN ON THE DETAIL SHEET.
6. PLEASE NOTE THAT THE GRADING AND PLAN VIEWS AS WELL AS THE STANDARD DETAILS MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS AND RAMPS TO ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA STANDARDS. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

DIMENSIONAL NOTES

ZONING:	LIGHT INDUSTRY AND OFFICE DISTRICT (LIO)
MINIMUM LOT SIZE:	2 ACRES
MINIMUM FRONTAGE:	150'
MAX. LOT COVERAGE (STRUCTURE):	30%
MAX. LOT COVERAGE (PAVEMENT):	66%
MINIMUM FRONT YARD:	100'
MINIMUM REAR YARD:	50'
MINIMUM SIDE YARD:	40'
MINIMUM HEIGHT:	35'

*MINIMUM WIDTH AT THE FRONT SETBACK LINE MUST BE 75% OF THE REQUIRED MINIMUM STREET FRONTAGE.

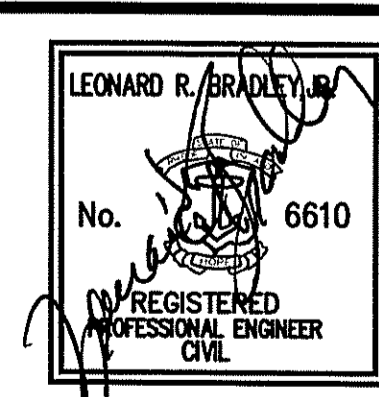
ABBREVIATIONS

CB	CATCHBASIN
FE	FLARED END
OS	OUTLET STRUCTURE
DCB	DOUBLE CATCHBASIN
HCC	HIGH CAPACITY CATCHBASIN
CO	CLEANOUT
HDPE	HIGH DENSITY POLYETHYLENE IMPROVED WITH CONDITIONS
SEC	SOIL EROSION CONTROL

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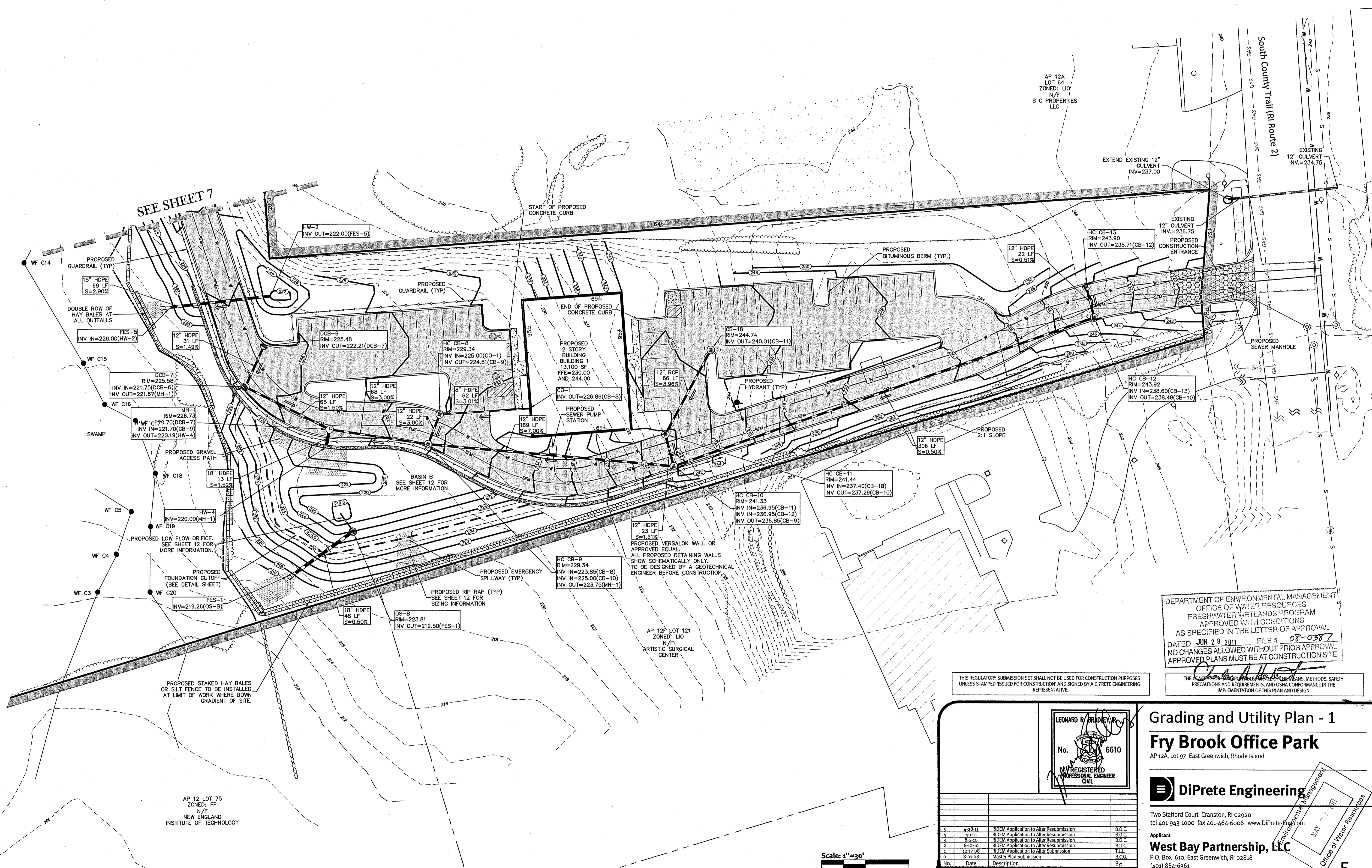
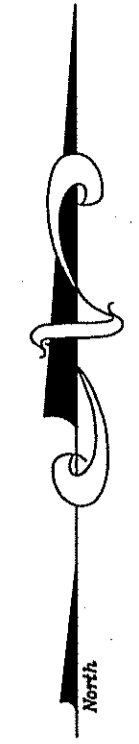
Overall Site Plan
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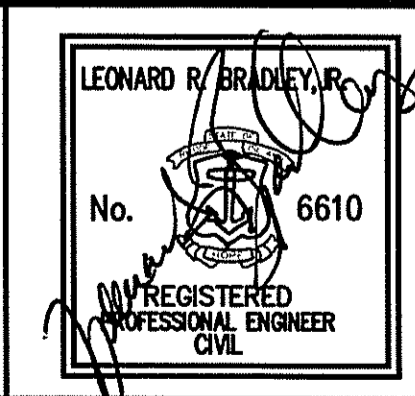


SEE SHEET 7

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Grading and Utility Plan - 1
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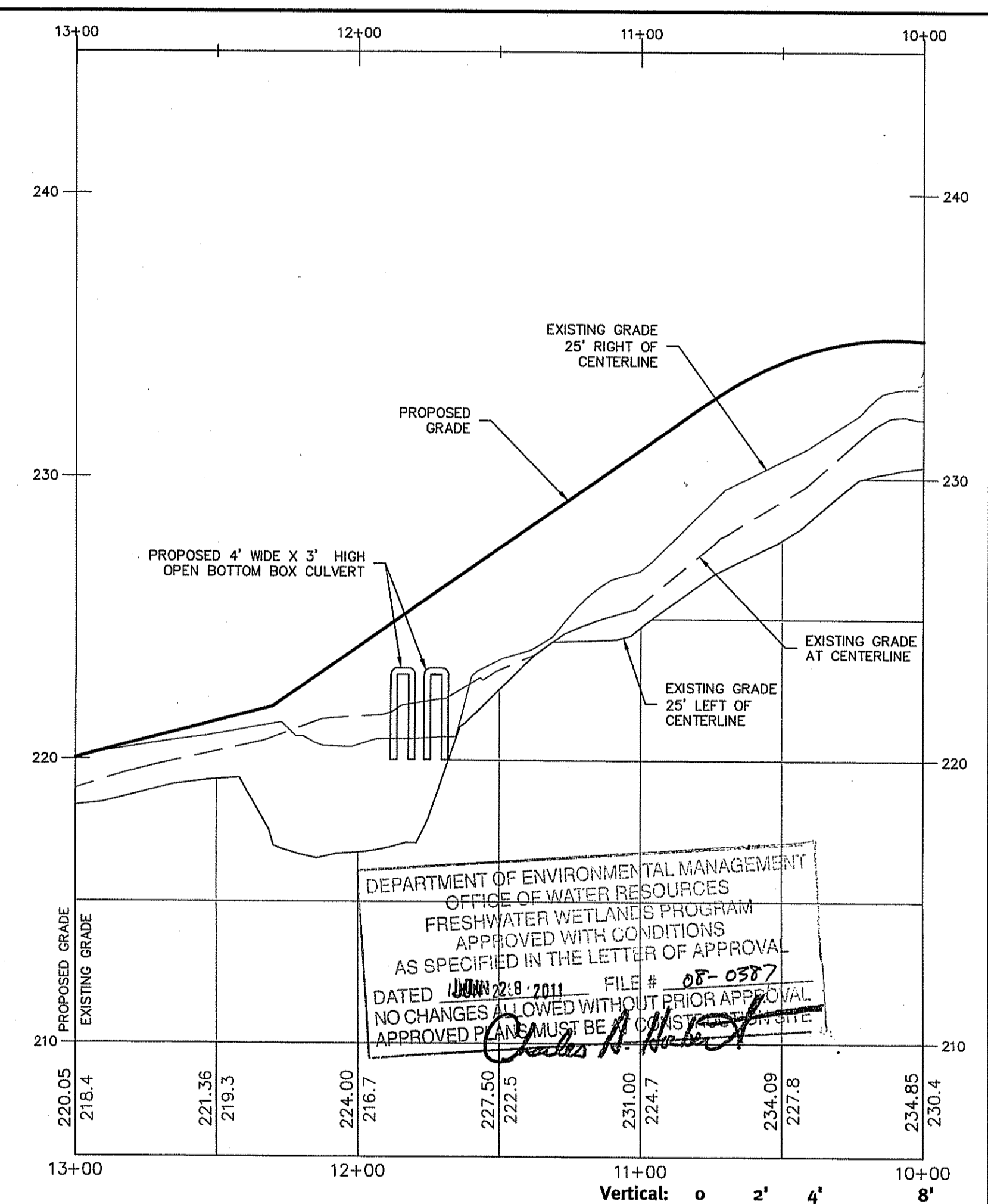
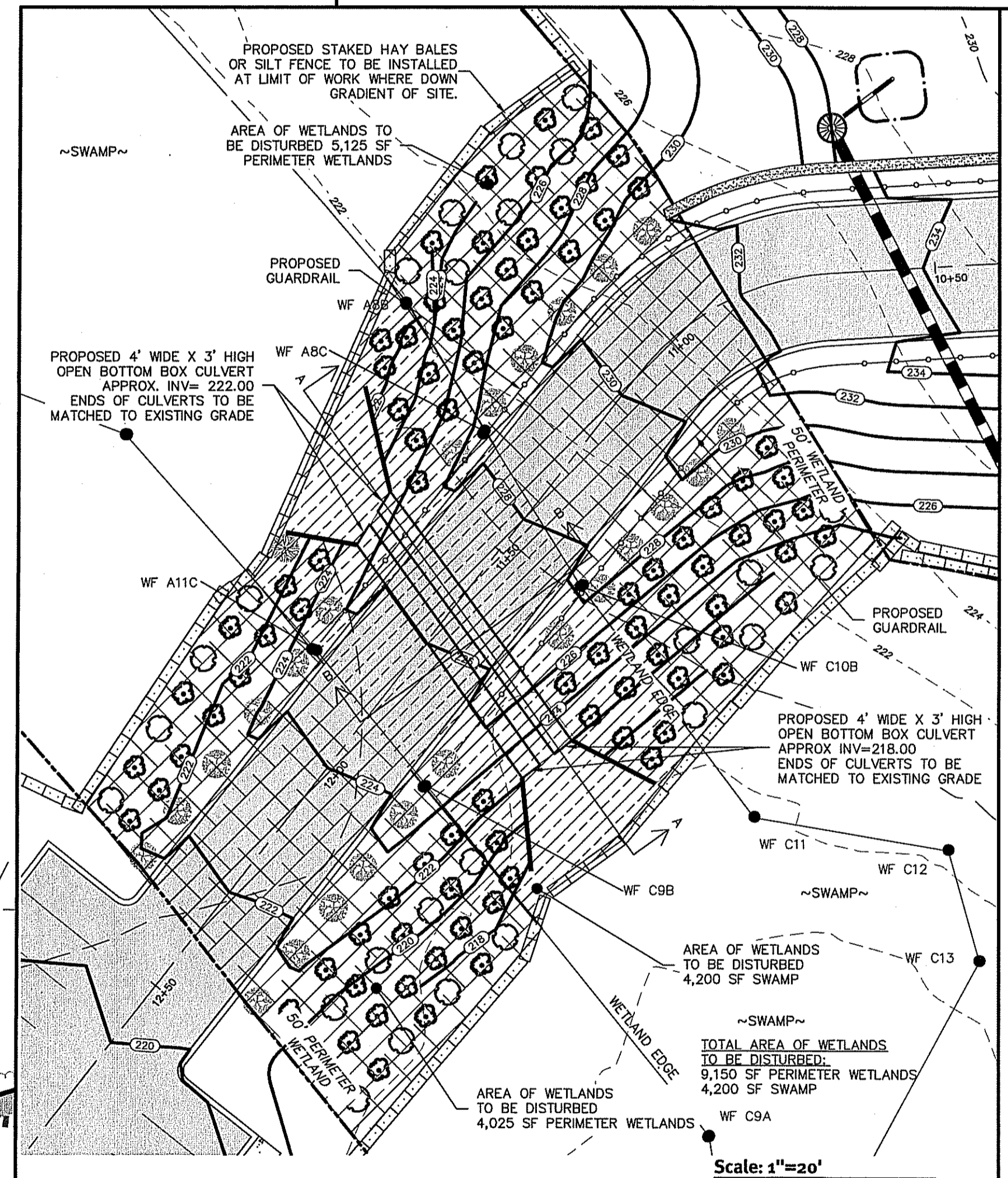
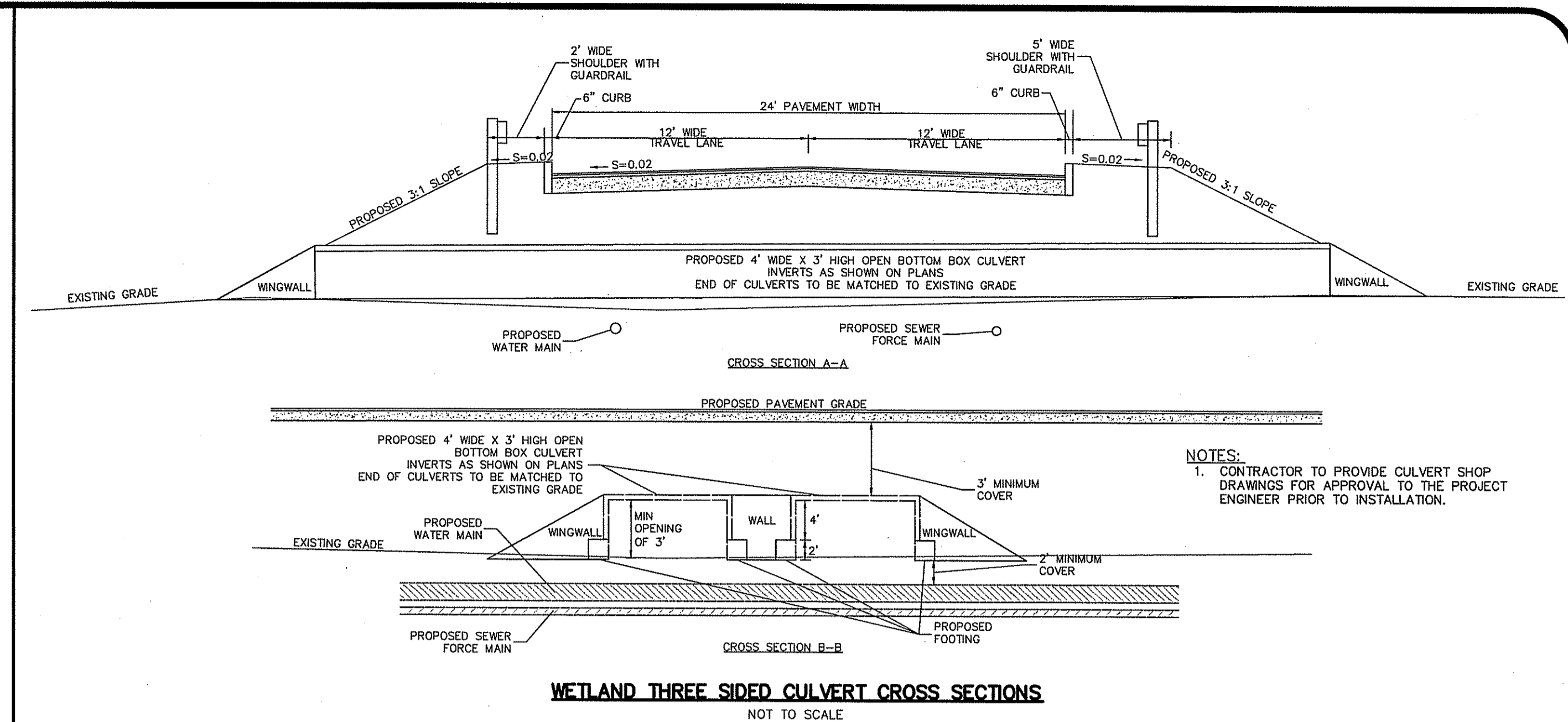
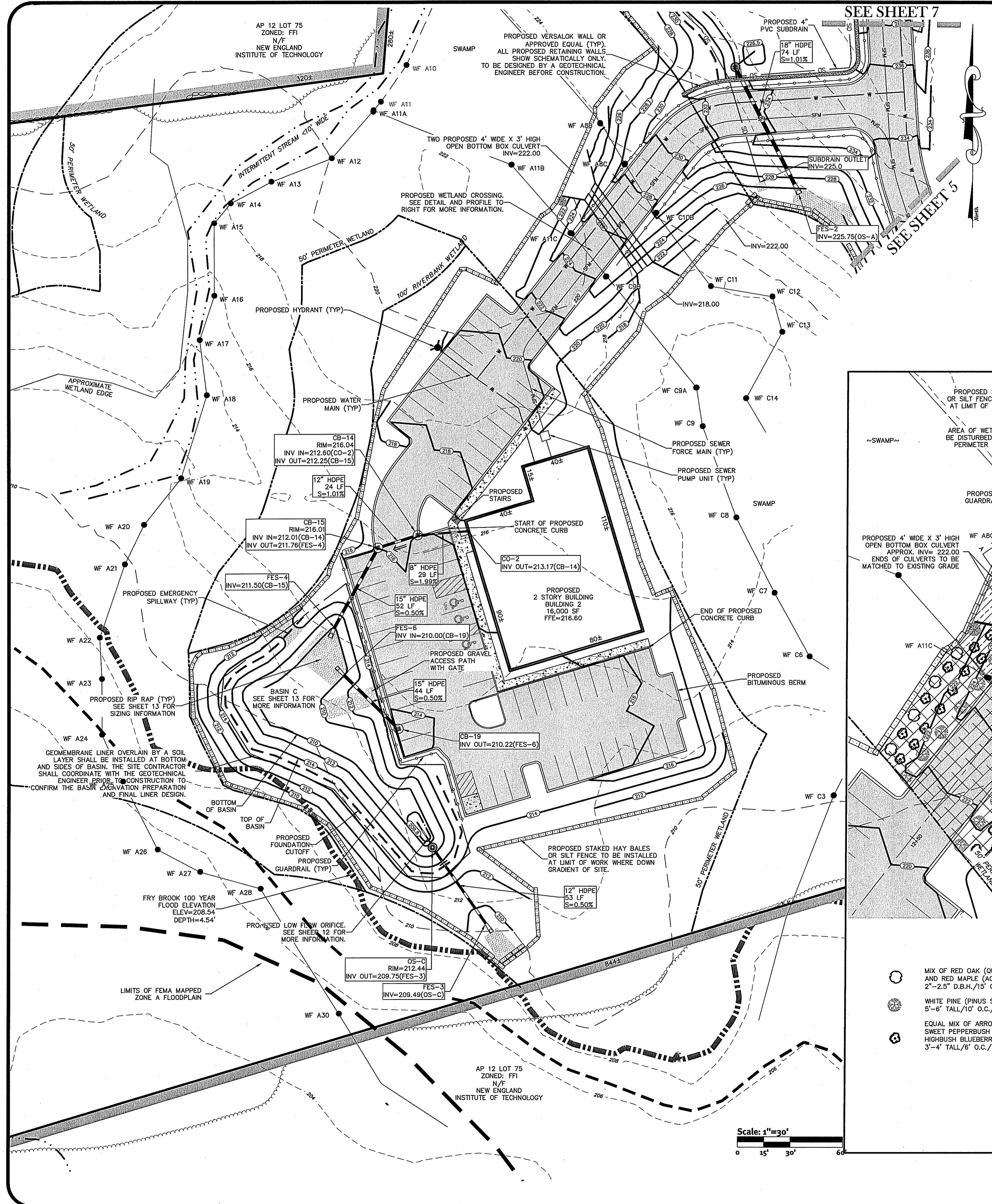
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Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

SHEET 5 OF 13

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 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLAN MUST BE AS SHOWN

- MIX OF RED OAK (QUERUS RUBRA) AND RED MAPLE (ACER RUBRUM)
2"-2.5" D.B.H./15' O.C./25 PLANTS TOTAL
- WHITE PINE (PINUS STROBUS)
5'-6" TALL/10' O.C./24 PLANTS TOTAL
- ⊗ EQUAL MIX OF ARROWWOOD (VIBURNUM DENTATUM), SWEET PEPPERBUSH (CLETHRA ALNIFOLIA) AND Highbush BLUEBERRY (VACCINIUM CORYMBOSUM)
3'-4" TALL/6' O.C./75 PLANTS TOTAL (1/-)

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

LEONARD R. BRADLEY, P.E.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Grading and Utility Plan - 2
Fry Brook Office Park
 AP 12A, Lot 97 East Greenwich, Rhode Island

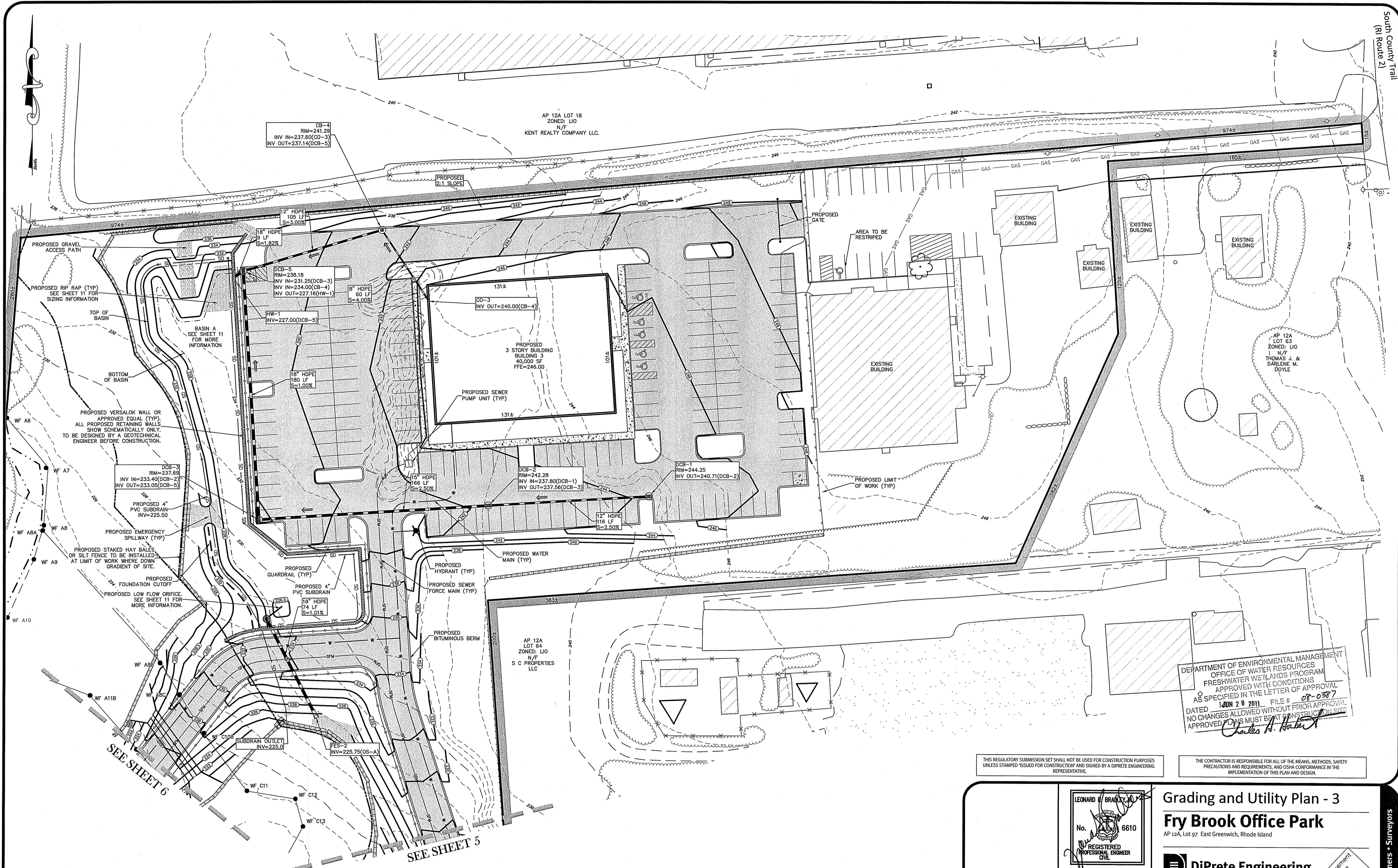
DiPrete Engineering

Two Stafford Court Cranston, RI 02920
 tel 401-943-1000 fax 401-464-6006 www.DiPrete.com

Applicant
West Bay Partnership, LLC
 P.O. Box 610, East Greenwich, RI 02818
 (401) 884-6361

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

Environmental Management
 M/W - 2/2011
 Office of Water Resources
 SHEET 6 OF 13



CB-4
RIM=241.29
INV IN=237.60(CB-3)
INV OUT=237.14(CB-5)

AP 12A LOT 18
ZONED: LIO
N/F
KENT REALTY COMPANY LLC.

AP 12A
LOT 63
ZONED: LIO
N/F
THOMAS J. &
DARLENE M.
DOYLE

AP 12A
LOT 64
ZONED: LIO
N/F
S C PROPERTIES
LLC

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **1 JUN 28 2011** FILE # **08-0387**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED: *Charles A. Haber*

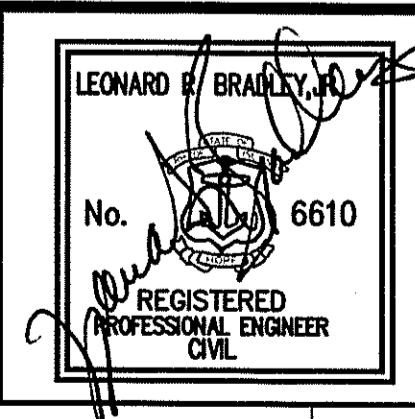
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UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED BY A DIIPRETE ENGINEERING
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SEE SHEET 6

SEE SHEET 5

Scale: 1"=30'
0 15' 30' 60'



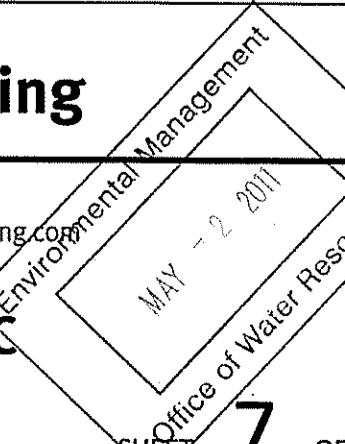
Grading and Utility Plan - 3
Fry Brook Office Park
AP 12A, Lot 97 East Greenwich, Rhode Island

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com
Applicant: **West Bay Partnership, LLC**
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No.	Date	Description	By:
5	4-28-11	RIDEM Application to Alter Resubmission	B.D.C.
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3	8-2-10	RIDEM Application to Alter Resubmission	B.D.C.
2	6-10-10	RIDEM Application to Alter Resubmission	B.D.C.
1	12-17-08	RIDEM Application to Alter Resubmission	B.D.C.
0	8-01-08	Master Plan Submission	B.C.G.

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.



8.0 EROSION AND SEDIMENTATION CONTROL MEASURES, PERMANENT STABILIZATION, AND MAINTENANCE

8.1 ESTABLISHMENT OF VEGETATIVE COVER

8.1.1 SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

8.1.2 ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED OR PROTECTED.

8.1.3 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 RHODE ISLAND'S STANDARD SPECIFICATION, M.20.

8.1.4 THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS/AC
WINTER RYE	50
MILLET OR SUDANGRASS	20
ANNUAL OR PERENNIAL RYE GRASS	30

8.1.5 THE CONSERVATION SEED MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS/AC
POWL MANGRASS	20
PENNSYLVANIA SMARTWEED	20
JAPANESE MILLET	20
VRGINIA WILD RYE	20
FOX SEDGE	10
DEER TONGUE	5
BLACKWELL SWITCHGRASS	5

8.1.6 THE GENERAL PURPOSE SEED MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS/AC
RED FESCUE	5
KENTUCKY BLUEGRASS	15
COLONIAL BENTGRASS	5
PERENNIAL RYEGRASS	5

EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. SEEDING SCHEDULE SHOULD CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, L02.031 SEEDING DATES. PERMANENT SEEDING SHALL BE DURING THE APRIL 1 TO MAY 31 OR AUGUST 15 TO OCTOBER 15. TEMPORARY SEEDING MAY BE DONE ANYTIME BETWEEN MARCH 15 AND NOVEMBER 15 WITH THE APPROVAL OF THE ENGINEER OF RECORD. FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUMS FOR EACH VARIETY.

8.1.7 TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING. SIDE SLOPES OF BASINS SHALL BE CREATED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKETS SUCH AS S150 OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.

8.1.8 ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

8.1.9 ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH LOCAL MUNICIPAL REQUIREMENTS AND THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE SECTION 202.

8.1.10 STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEED OR STABILIZED.

8.1.11 ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH MULCH. CONSTRUCTION OF THE DETENTION BASINS SHALL BE PERMANENTLY SEED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEED AREAS SHALL BE SEED REGULARLY TO SEE THAT A GOOD STANDARD IS MAINTAINED. WELL ESTABLISHED VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEED BY THE CONTRACTOR. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.

8.1.12 MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3:1 UNLESS NOTED OTHERWISE.

8.1.13 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. 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 TO THE OWNER.

8.1.14 REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.

8.2 NON-STRUCTURAL MEASURES

8.2.1 CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD, UTILITY EASEMENTS AND AREAS TO BE GRADED.

8.2.2 TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.

8.2.3 ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND THE TOWN OF EAST GREENWICH REGULATIONS. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF DAILY TO AVOID EXPOSURE TO PRECIPITATION.

8.2.4 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

8.2.5 REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

8.3 STRUCTURAL MEASURES

8.3.1 RUNOFF WATER QUALITY IS IMPROVED UTILIZING WATER QUALITY/SEDIMENTATION AND EXTENDED DRY DETENTION BASINS. CONSTRUCTION OF THE DETENTION BASINS SHALL BE SUPERVISED BY THE PROJECT ENGINEER. THE DETENTION BASINS SHALL BE BUILT TO CONTROL RUNOFF FOR 2 THROUGH 100 YEAR STORM FREQUENCIES. SIDE SLOPES WITHIN THE DETENTION BASINS SHALL BE 3:1 MAXIMUM UNLESS NOTED OTHERWISE. ALL EMBANKMENTS OF THE BASINS SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH STATE LAW AND THE TOWN OF EAST GREENWICH REGULATIONS. SPILLWAY SHALL BE PROTECTED BY RIP RAP DOWNSTREAM AND UPSTREAM. A GRADUATED GAGE IS TO BE SET WITHIN THE BASIN TO MONITOR ACCUMULATED SEDIMENTS. A REPORT AND PLAN OF AS-BUILT CONSTRUCTION SHALL BE AVAILABLE TO THE TOWN OF EAST GREENWICH.

8.3.2 A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY.

8.3.3 RIP RAP APRONS AND/OR LEVEL SPREADERS SHALL BE INSTALLED AT THE OUTLETS OF ALL DRAINAGE PIPES.

8.3.4 HAY BALES OR SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION AS SHOWN ON THE SITE PLANS AND PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATION.

8.3.5 TEMPORARY BERMS OR SWALES SHALL BE USED TO DIRECT SURFACE RUNOFF TO DRAINAGE FACILITIES TO CAPTURE AND TREAT THE MAXIMUM AMOUNT OF STORM WATER.

8.3.6 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR STRUCTURAL MEASURE IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

8.3.7 REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

8.4 MAINTENANCE: SHORT TERM / LONG TERM

8.4.1 THE STONE STABILIZATION PADS AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ON THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

8.4.2 ALL HAY BALES/SILT FENCE, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. HAY BALES/SILT FENCE SHALL BE INSPECTED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH STORM EVENT OR EVERY 7 DAYS, WHICHEVER COMES FIRST, FOR UNDERMINING AND DETERIORATION. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE HAY BALES/SILT FENCE SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY BALES/SILT FENCE BECOMES FILLED IN WITH SEDIMENT. THE HAY BALES/SILT FENCE SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE TOWN OF EAST GREENWICH AND OR THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED THE HAY BALES/SILT FENCE SHALL BE REMOVED.

8.4.3 THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. HAY BALES OR SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.

8.4.4 ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEED AREAS TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

8.4.5 THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE BASINS DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER. THE CONTRACTOR'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE RESEEDING ANY UNSTABILIZED AREAS WITHIN THE BASINS AT NO ADDITIONAL EXPENSE TO THE OWNER. REMAINING ACCUMULATED SILT WHEN SEDIMENTS IN THE BASINS REACH THE HEIGHT SPECIFIED IN THE SEDIMENT VOLUME CALCULATIONS AND MAINTAINING THE GRASS TO A GROWING HEIGHT BETWEEN 2"-10". THE CONTRACTOR SHALL INSPECT RIP RAP PADS AFTER EACH STORM AND REPAIR AS NECESSARY. THE OWNER'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE INSPECTION OF THE BASINS AND RIP RAP PADS SEMIANNUALLY AND AFTER MAJOR STORMS. IF REPAIRS ARE NEEDED, THEY SHALL BE CARRIED OUT IMMEDIATELY. THE OWNER SHALL MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2"-10" OR VEGETATION AS SPECIFIED). THE BOTTOM OF THE DETENTION BASINS SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS AND ACCUMULATED SEDIMENTS SHALL BE REMOVED WHEN THEY REACH SIX INCHES OR EVERY 10 YEARS, WHICHEVER COMES FIRST.

8.4.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR TO ALL DRAINAGE STRUCTURES AND RELATED APPURTENANCES ON SITE DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION FOR A MAXIMUM OF ONE YEAR, OR UNTIL ACCEPTANCE BY THE ENGINEER AND THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER. THE FOLLOWING MAINTENANCE PROCEDURES HAVE BEEN TAKEN FROM THE DRAFT STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.

THE FOLLOWING MAINTENANCE PROCEDURES SHALL BE FOLLOWED FOR THE DETENTION BASIN:

STORMWATER WETLANDS REF. TABLE 11-5-5, RI STORMWATER DESIGN AND INSTALLATION STANDARDS DRAFT MANUAL

- ACTIVITY (INSPECTION SCHEDULE)
1. INSPECT FOR INVASIVE VEGETATION AND REMOVE WHERE POSSIBLE (SEMI-ANNUAL)
 2. INSPECT FOR DAMAGE TO THE EMBANKMENT AND INLET/OUTLET STRUCTURES. REPAIR AS NECESSARY (ANNUALLY)
 3. NOTE SIGNS OF HYDROCARBON BUILD-UP, AND DEAL WITH APPROPRIATELY (ANNUALLY)
 4. MONITOR FOR SEDIMENT ACCUMULATION IN THE FACILITY, FOREBAY, AND MICROPOOL (ANNUALLY)
 5. EXAMINE TO ENSURE THAT INLET AND OUTLET DEVICES ARE FREE OF DEBRIS AND ARE OPERATIONAL (ANNUALLY)
 6. REPAIR UNDESIRABLE OR ERODED AREAS (AS NEEDED MAINTENANCE)
 7. CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURES (FREQUENT MAINTENANCE, 3-4 TIMES/YEAR)
 8. MOW SIDE SLOPES (FREQUENT MAINTENANCE, 3-4 TIMES/YEAR)
 9. REMOVAL OF SEDIMENT FROM THE FOREBAY AND MICROPOOL (AS NEEDED MINIMUM 5 YEAR MAINTENANCE)

8.4.7 THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE NETWORK DURING CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CATCH BASIN SUMPS SHALL BE CHECKED WEEKLY AND SEDIMENTS SHALL BE REMOVED IF THEY EXCEED 6" DEPTH OR EVERY 10 YEARS, WHICHEVER COMES FIRST.

8.4.8 IF SUBSTANTIAL STANDING WATER PERSISTS SEVENTY TWO (72) HOURS AFTER A STORM EVENT WITHIN THE DETENTION BASIN, THE BASIN SHALL UNDERGO MAINTENANCE IMMEDIATELY AND NON-IMPROVEMENT OF CONDITIONS THEREAFTER WILL CALL FOR REPLACEMENT OF THE SYSTEM AND/OR IMPROVEMENT OF THE SURROUNDING STONE.

8.4.9 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE AND FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION. THE SUPERINTENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

8.4.10 AFTER ACCEPTANCE OF THE ROADWAY BY THE OWNER, THE OWNER SHALL HAVE OVERALL RESPONSIBILITY FOR IMPLEMENTING THE MAINTENANCE PROGRAM FOR THE STORMWATER MANAGEMENT PLAN.

6.0 SEQUENCE OF CONSTRUCTION AND STAGING OF LAND DISTURBING ACTIVITIES

6.1 CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL (SE & SC) ONSITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.

6.2 CONSTRUCTION TO BEGIN UPON RECEIPT OF ALL NECESSARY APPROVALS.

6.3 SURVEY AND STAKE CENTERLINE OF THE PROPOSED ROADS, DETENTION BASINS, DRAINAGE LINES, AND LIMIT OF SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE.

6.4 PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.

6.5 INSTALL CONSTRUCTION ENTRANCE.

6.6 BEGIN REMOVAL AND DISPOSAL OF EXISTING BUILDINGS PER PLAN. REMOVE AND DISPOSE OF ALL STONE WALLS AND OTHER STRUCTURES AS SHOWN ON PLANS. ALL EXISTING FOUNDATION AND REMOVAL SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

6.7 BEGIN CLEARING AND GRUBBING IN AREA OF ROADWAYS AND DETENTION BASINS. TOPSOIL IS TO BE STRIPPED FROM THE AREA OF THE PROPOSED ROADWAYS AND DETENTION BASINS AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEED.

6.8 EXCAVATE AND GRADE THE PROPOSED DETENTION BASINS. CONSTRUCT RETAINING WALL IN AREAS OF DETENTION BASINS PER PLANS. THE DETENTION BASINS SHALL BE PERMANENTLY SEED FOLLOWING FINISH GRADING.

6.9 EXCAVATE AND ROUGH GRADE PROPOSED ROAD AND PARKING AREAS.

6.10 INSTALL DRAIN PIPING, DRAINAGE MANHOLES AND CATCH BASINS BEGINNING AT THE DETENTION BASINS AND WORKING UP-GRADE. PROTECT DISCHARGE OUTLETS WITH RIP-RAP APRONS. PLACE EROSION CONTROLS AT THE DISCHARGE POINTS AND SEED THE DETENTION BASINS AND DISTURBED AREAS OUTSIDE OF THE AREA TO BE PAVED. THE DETENTION BASINS AND DRAINAGE NETWORK ARE TO BE PROTECTED FROM SEDIMENTATION UNTIL ALL UNSTABILIZED AREAS ARE STABILIZED WITH VEGETATION.

6.11 INDIVIDUAL BUILDING CONSTRUCTION MAY BEGIN ANYTIME AFTER ROUGH GRADING OF THE SITE IS COMPLETE.

6.12 ONCE THE INSTALLATION OF THE DRAINAGE NETWORK IS COMPLETE INSTALL THE WATERLINE, INDIVIDUAL WATER SERVICES FOR BUILDINGS AND OTHER UNDERGROUND UTILITIES SUCH AS ELECTRIC, SEWER, TELEPHONE, AND CABLE IN ACCORDANCE WITH THE APPROVED FINAL PLANS.

6.13 PLACE COMPACTED GRAVEL FOUNDATION AND FINISH GRADE THE ROADWAY IN ACCORDANCE WITH THE SITE PLANS AND IN ACCORDANCE WITH THE EAST GREENWICH, RHODE ISLAND, LAND DEVELOPMENT AND SUBDIVISION REGULATIONS.

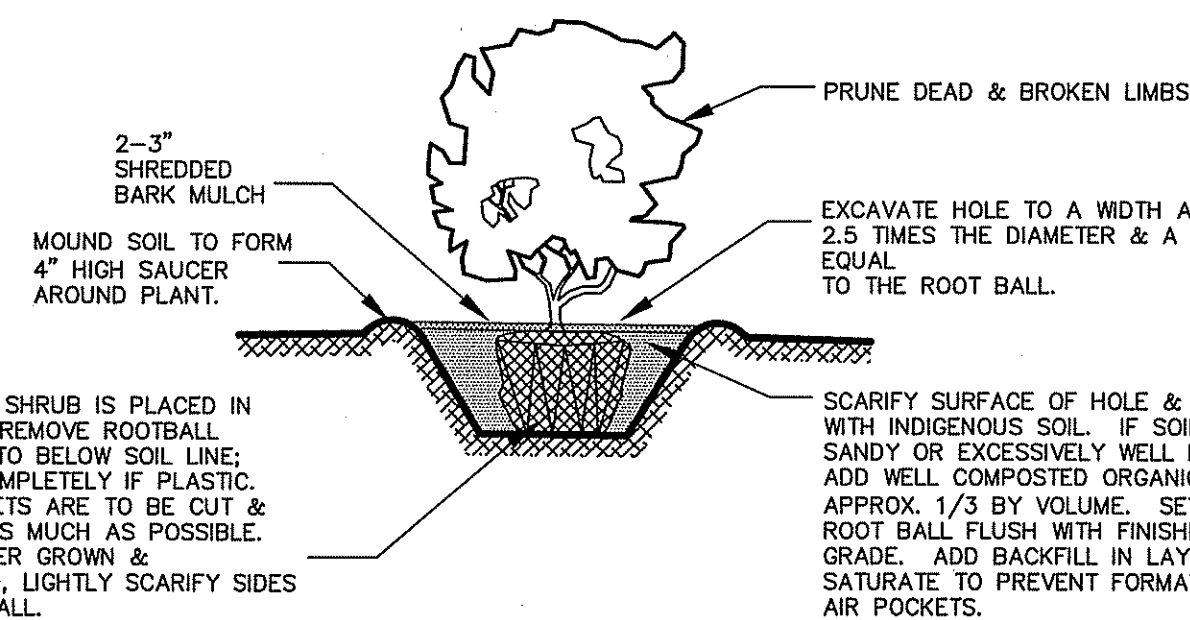
6.14 PLACE BITUMINOUS ASPHALT BINDER PER SITE PLANS AND IN ACCORDANCE WITH THE EAST GREENWICH, RHODE ISLAND, LAND DEVELOPMENT AND SUBDIVISION REGULATIONS.

6.15 FINISH PERMANENT STABILIZATION. REPAIR DRAINAGE OUTLETS AND BASINS AS REQUIRED. TREE LIMBS, LEAVES, COBBLES, BOLLERS, ETC. SHALL BE REMOVED FROM THE BOTTOM OF THE BASINS BEFORE THE APPLICATION OF TOPSOIL.

6.16 SWEEP THE ROADWAY TO REMOVE ALL SEDIMENTS.

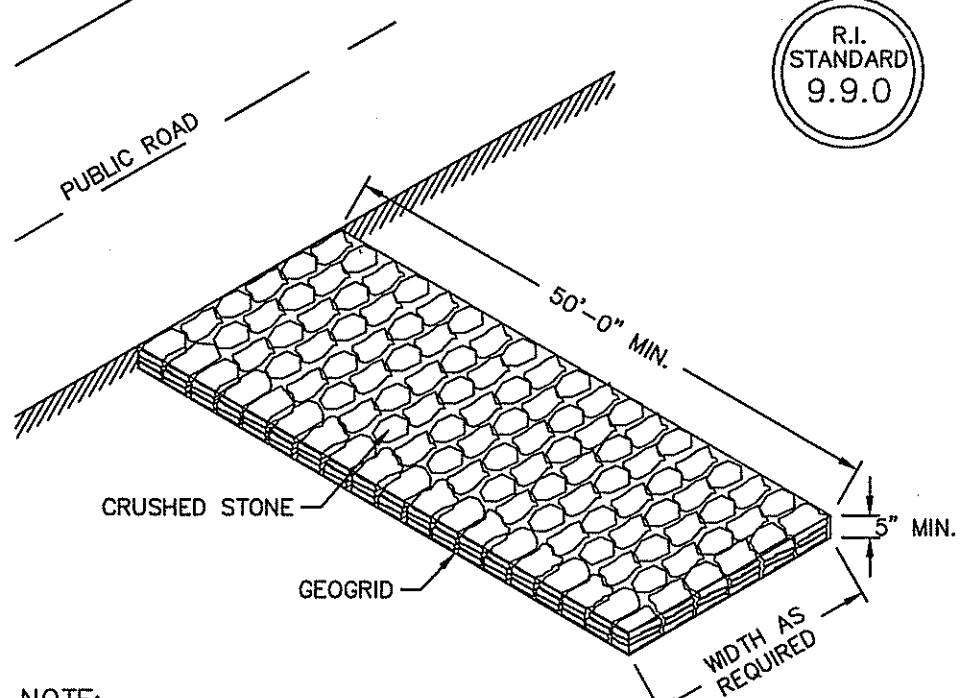
6.17 THE CONTRACTOR SHALL CLEAN AND FLUSH THE DRAINAGE STRUCTURES AND PIPES AT THE END OF CONSTRUCTION AND ALL ACCUMULATED SEDIMENTS IN THE DETENTION BASINS SHALL BE REMOVED.

6.18 REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.



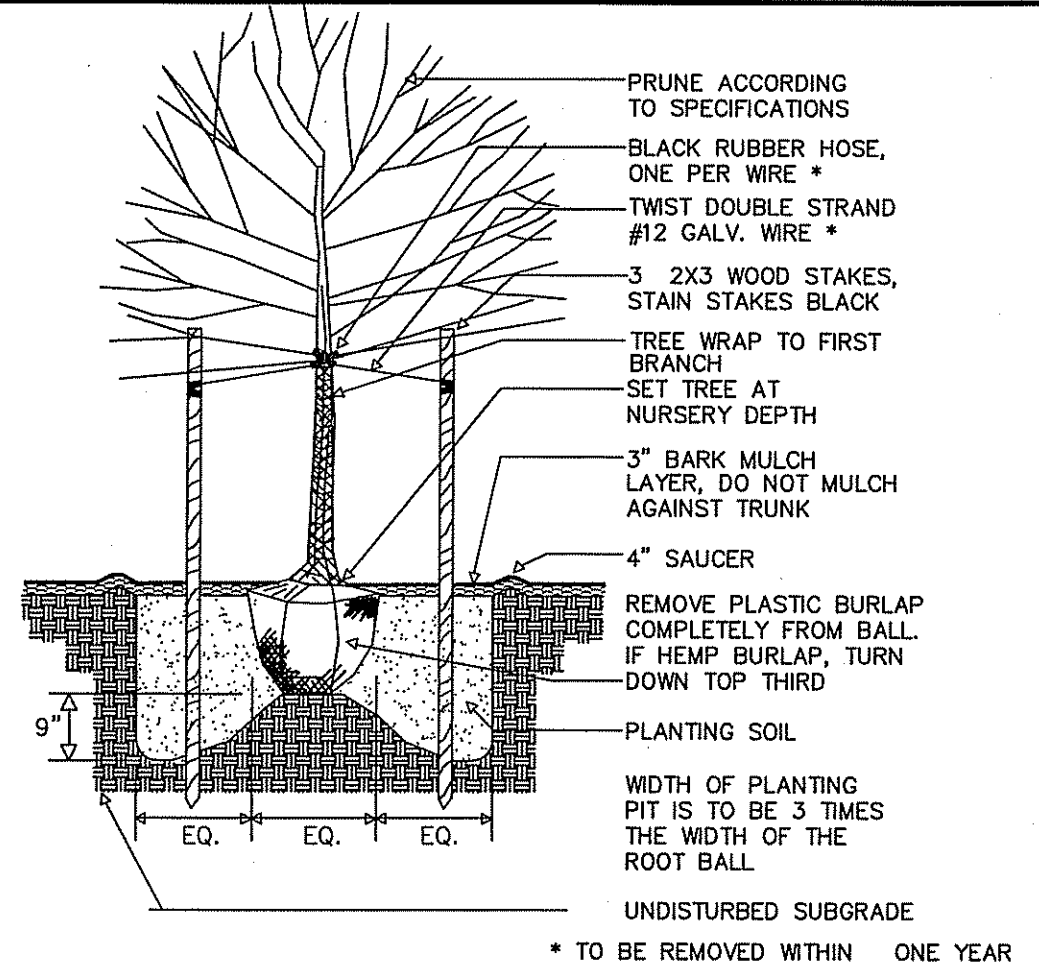
SHRUB PLANTING DETAIL

NOT TO SCALE



CONSTRUCTION ACCESS

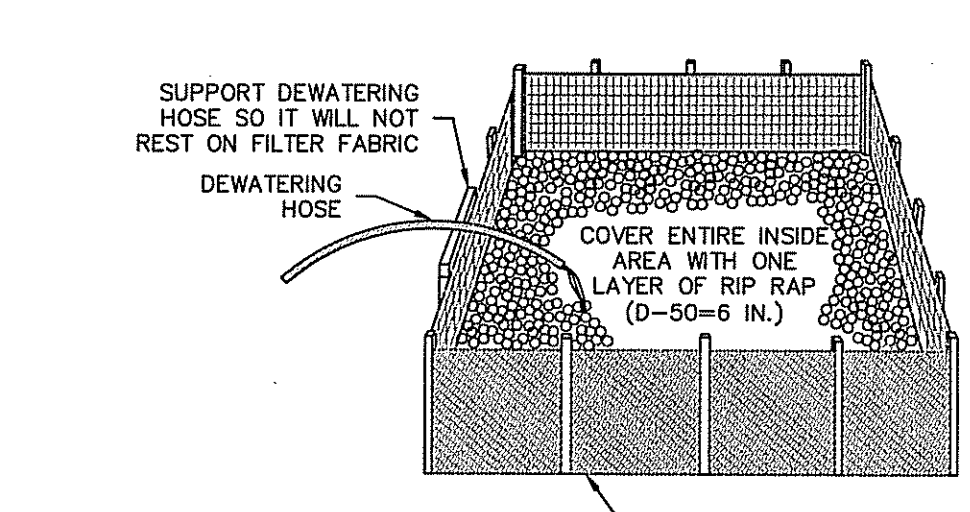
NOT TO SCALE



TREE PLANTING DETAIL

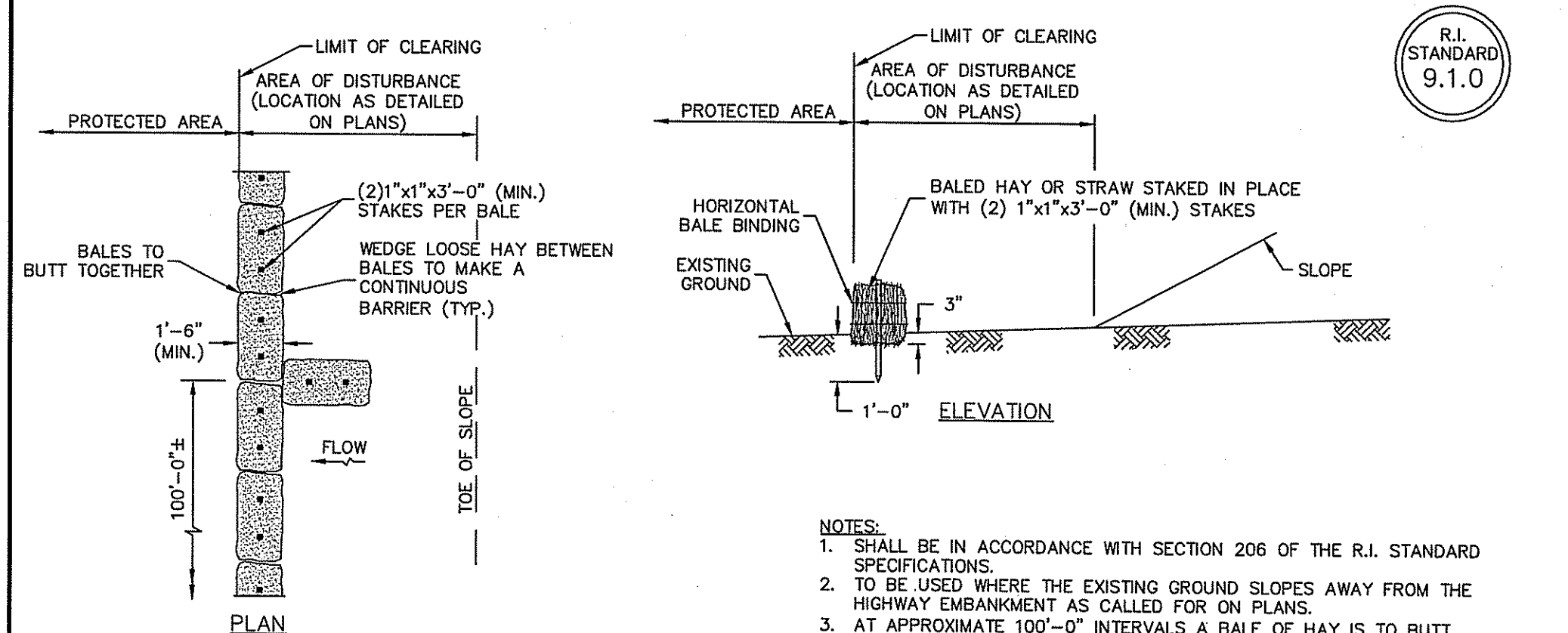
NOT TO SCALE

- NOTES:
1. THE BASIN STORAGE VOLUME SHOULD NOT BE LESS THAN THE TOTAL VOLUME OF WATER THAT COULD BE PUMPED DURING A 4-HOUR PERIOD.
 2. FILTER FABRIC BASINS SHOULD BE CONSTRUCTED ON LEVEL OR NEARLY LEVEL GROUND.
 3. THE AREA AROUND THE FILTER FABRIC BASIN MUST BE STABILIZED TO PREVENT EROSION BY WATER EXITING THE BASIN.
 4. REMOVED SEDIMENT WHEN ACCUMULATION REACHES ONE-HALF THE ORIGINAL HEIGHT OF THE FILTER FABRIC.
 5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN PROPER WORKING CONDITIONS AS LONG AS IT IS IN PLACE.
 6. FILTER FABRIC BASINS AND ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE BASIN'S USEFUL LIFE HAS BEEN COMPLETED. THE AREA COVERED BY THE BASIN SHALL BE SEED AND MULCHED IMMEDIATELY AFTER THE BASIN IS REMOVED.



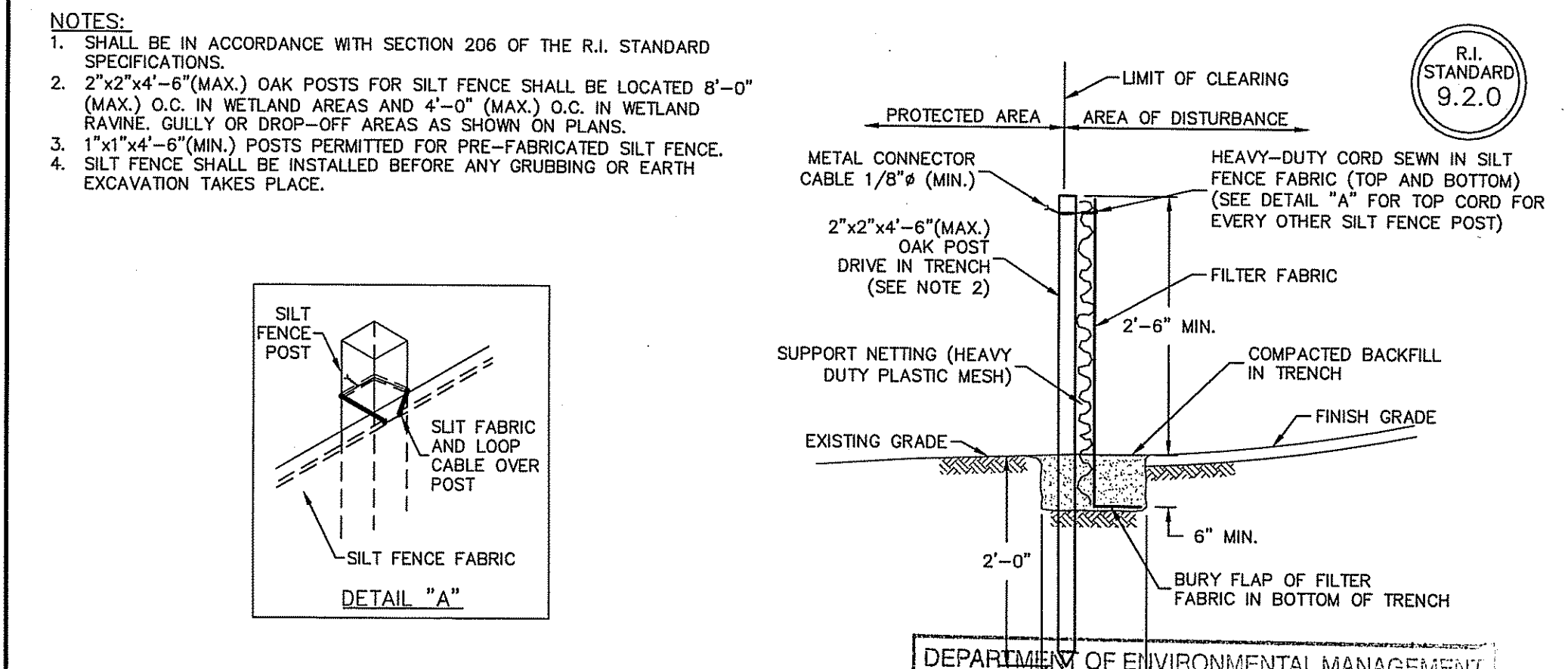
FILTER FABRIC BASIN FOR PUMPED DEWATERING DISCHARGE

NOT TO SCALE



BALED HAY EROSION CHECK

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

LEONARD R. BRADLEY, P.E.
No. 6610
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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4	4-1-11	RIDEM Application to Alter Resubmission	B.O.C.
3	8-2-10	RIDEM Application to Alter Resubmission	B.O.C.
1	6-10-10	RIDEM Application to Alter Resubmission	B.O.C.
1	12-12-08	RIDEM Application to Alter Resubmission	T.U.L.
0	8-01-08	Master Plan Submission	B.C.G.
No.	Date	Description	By:

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

Erosion Control Details
Fry Brook Office Park
AP 12A, Lot 97 East Greenwich, Rhode Island

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

APPLICANT
West Bay Partnership, LLC
P.O. Box 610, East Greenwich, RI 02818
(401) 884-6361

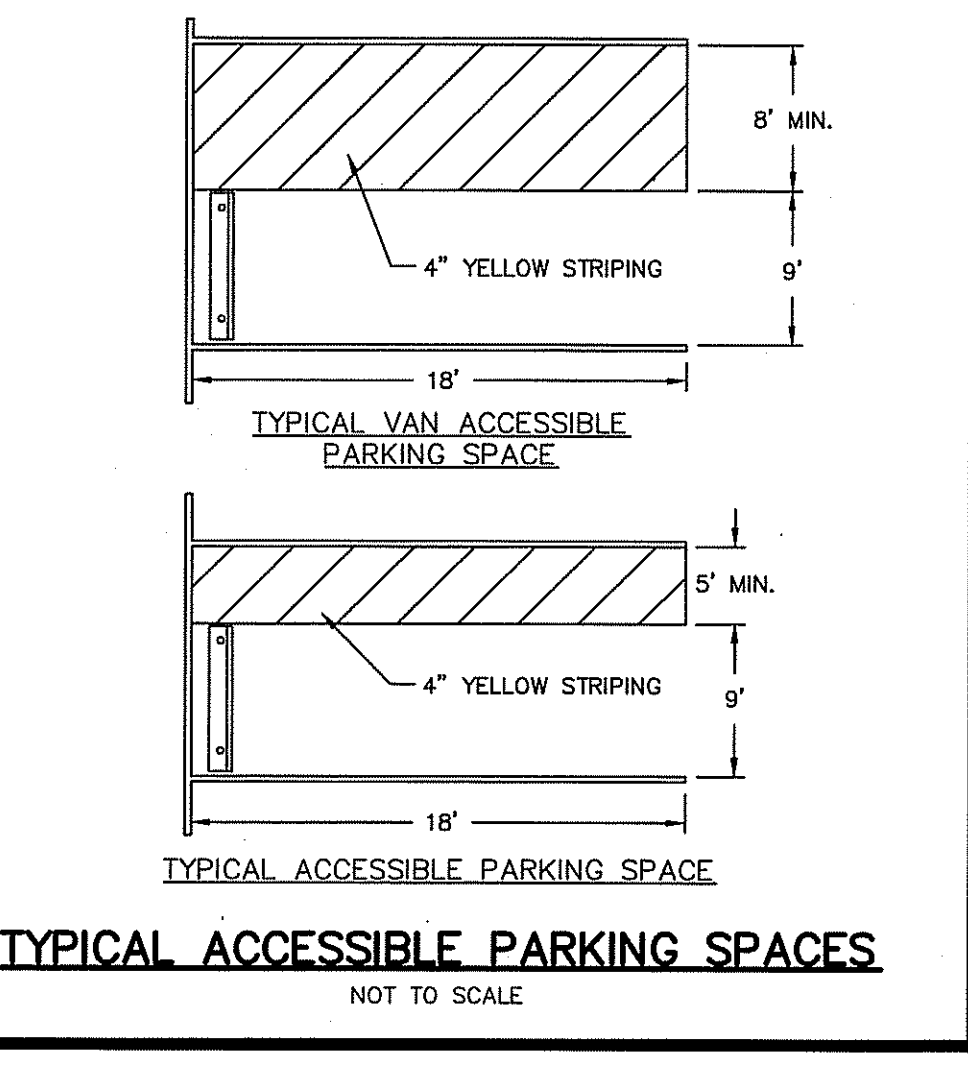
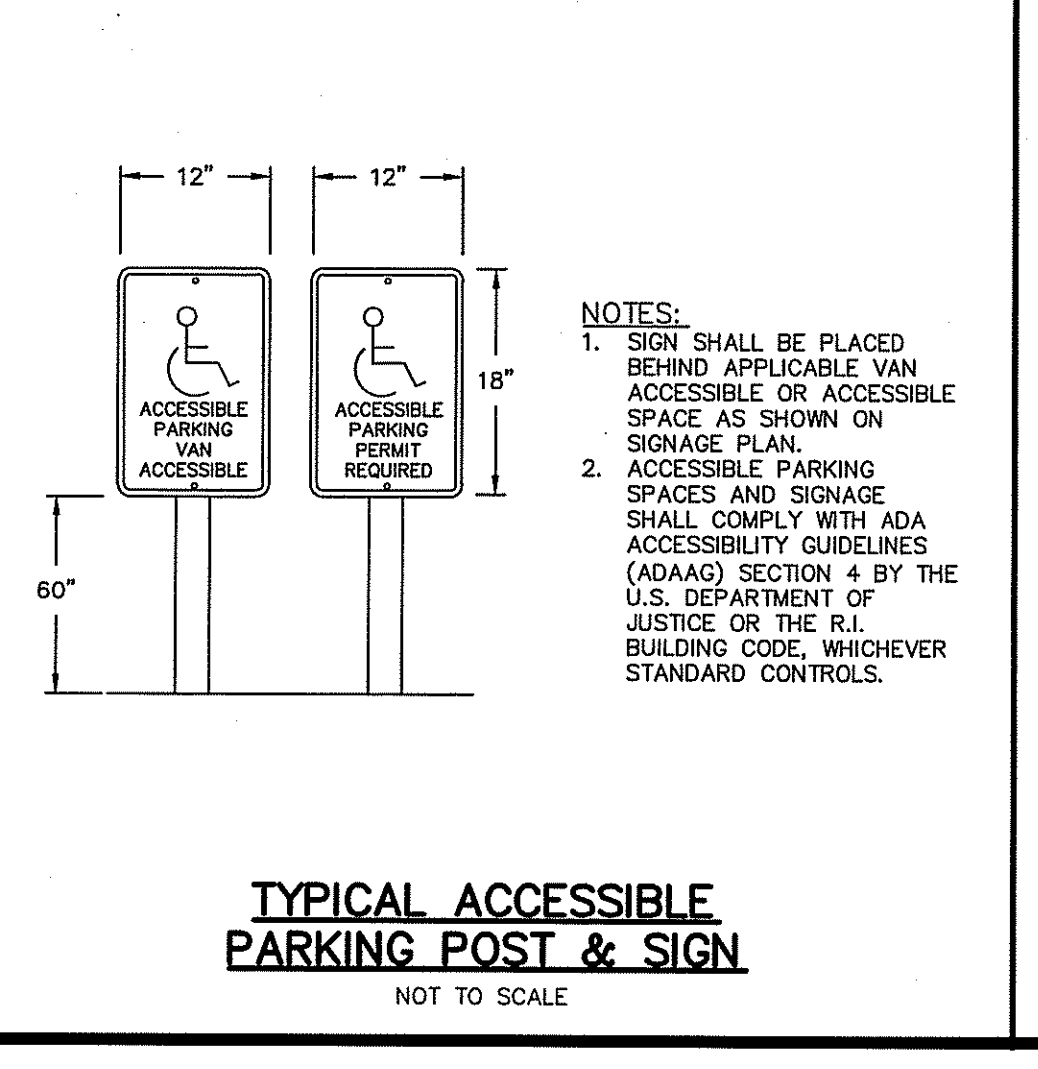
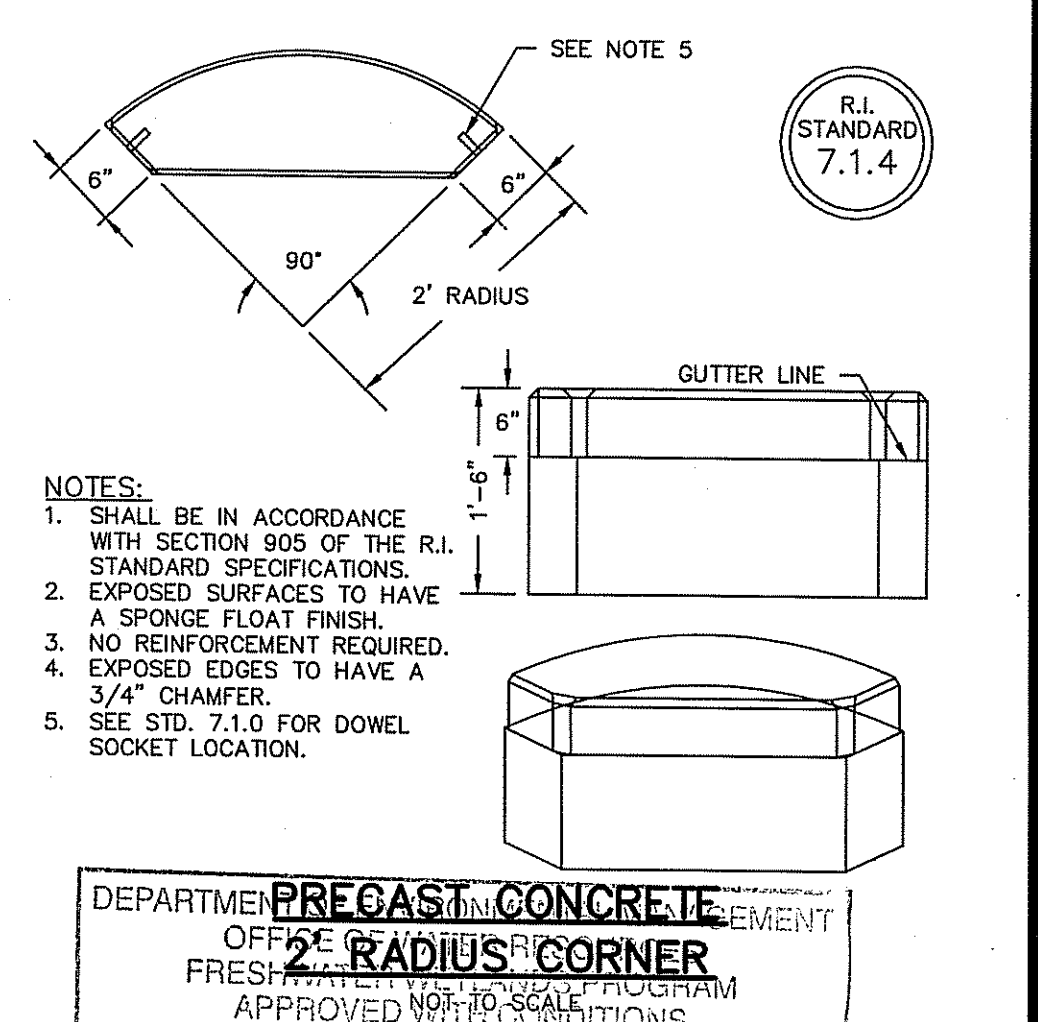
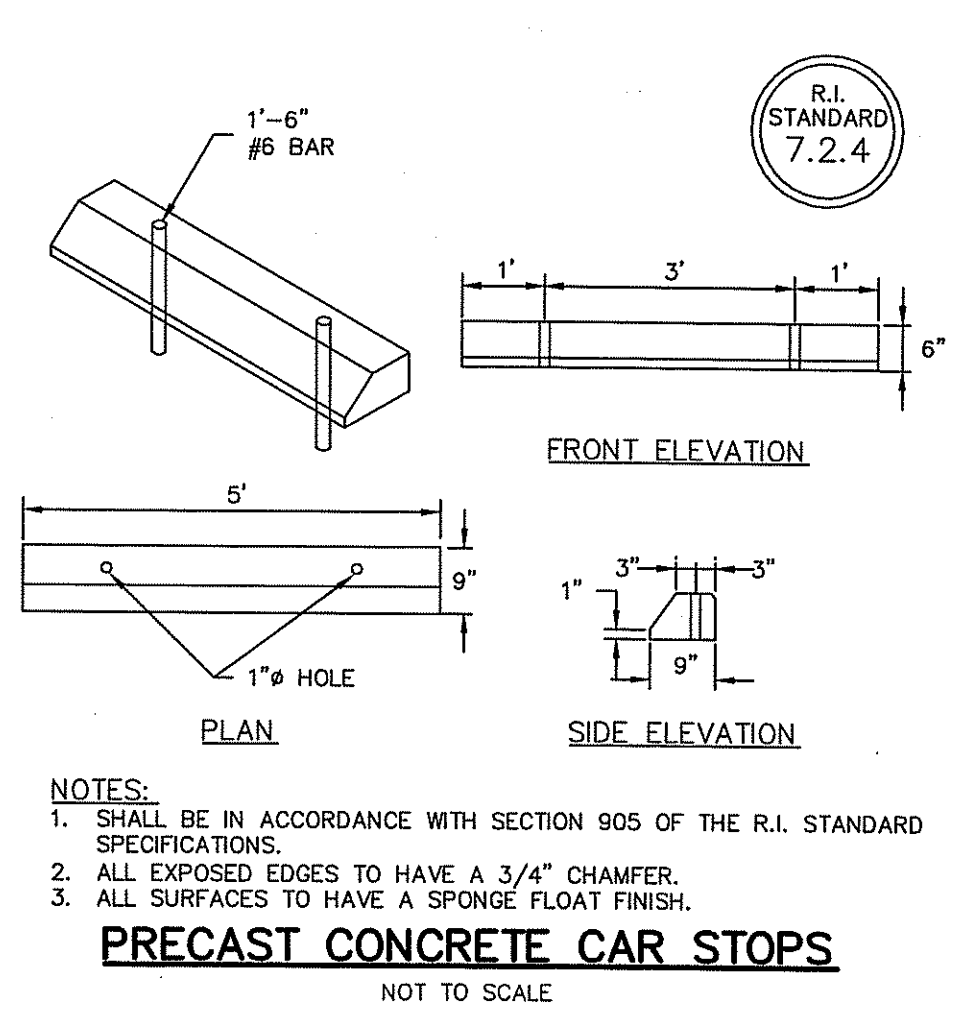
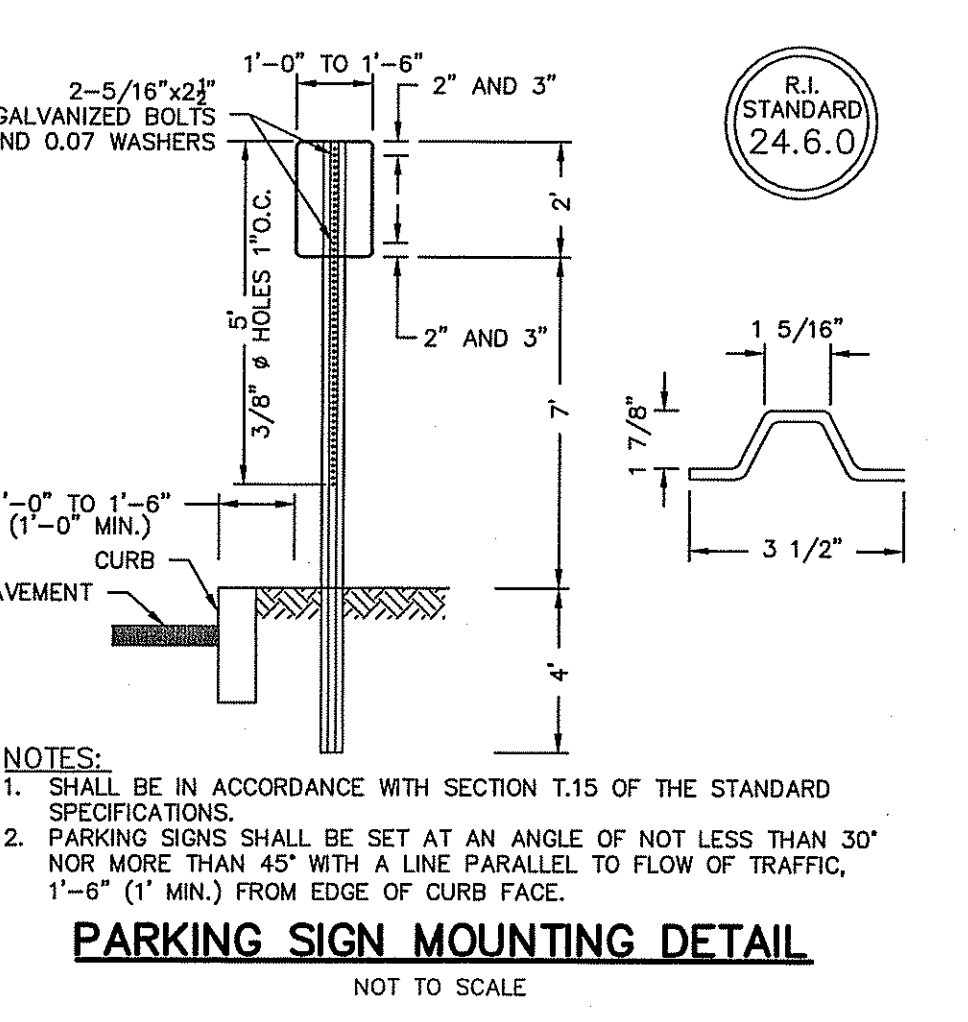
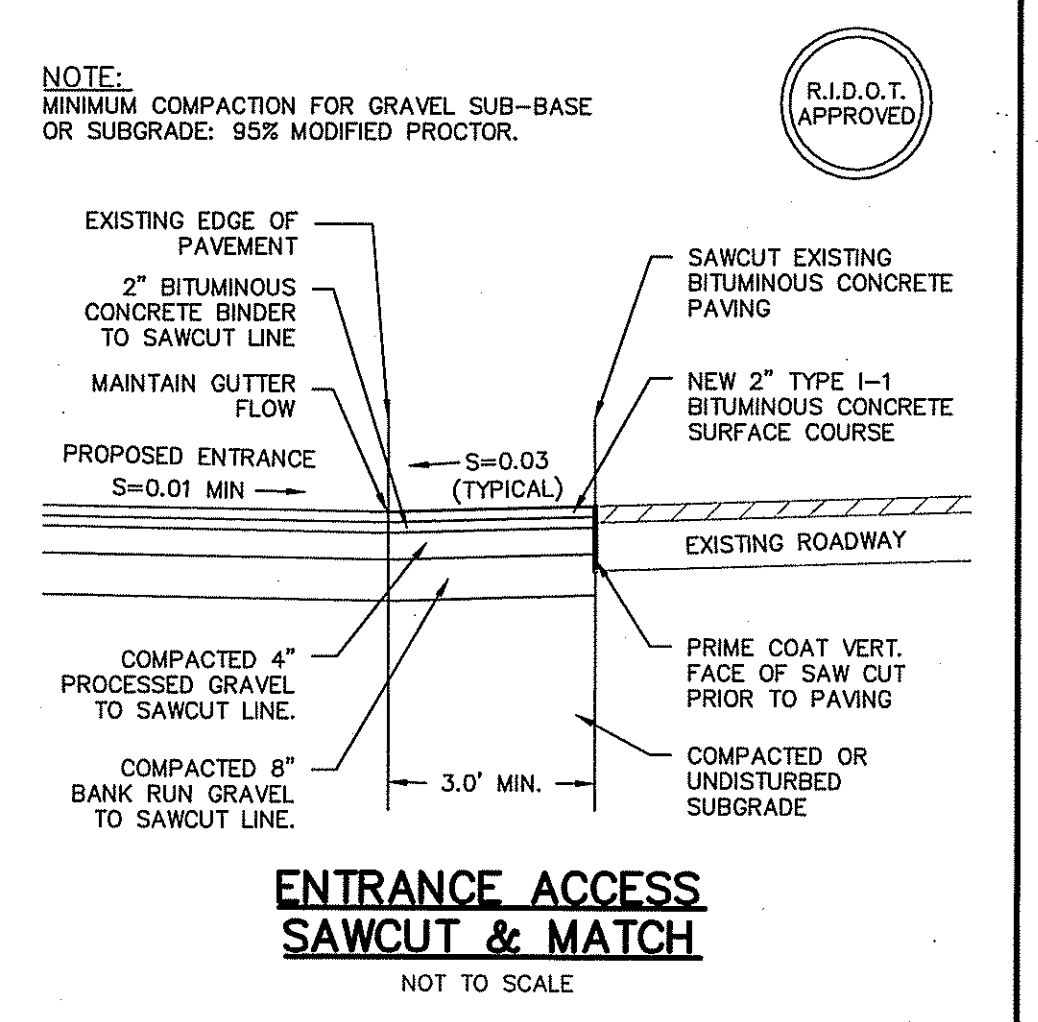
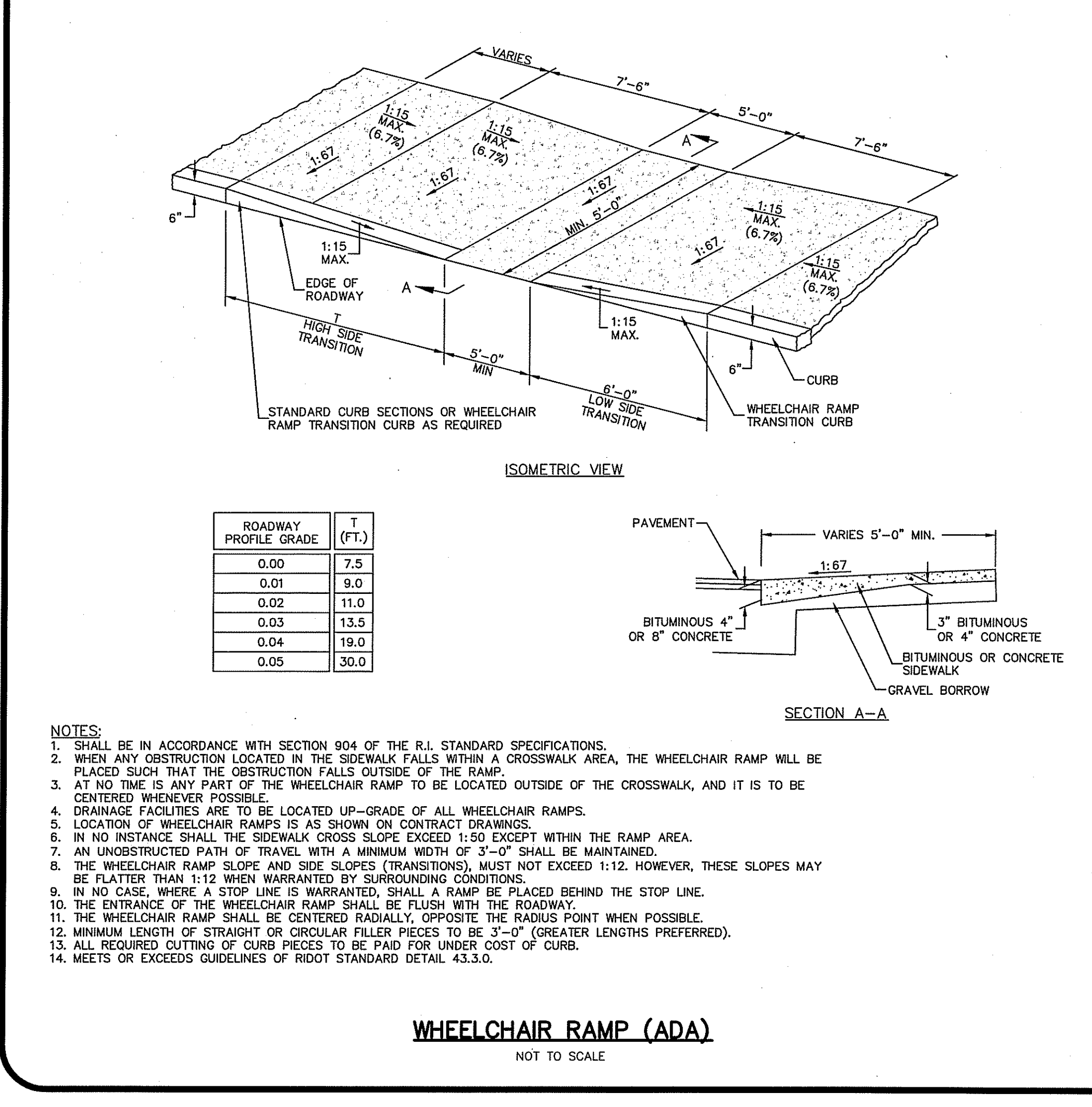
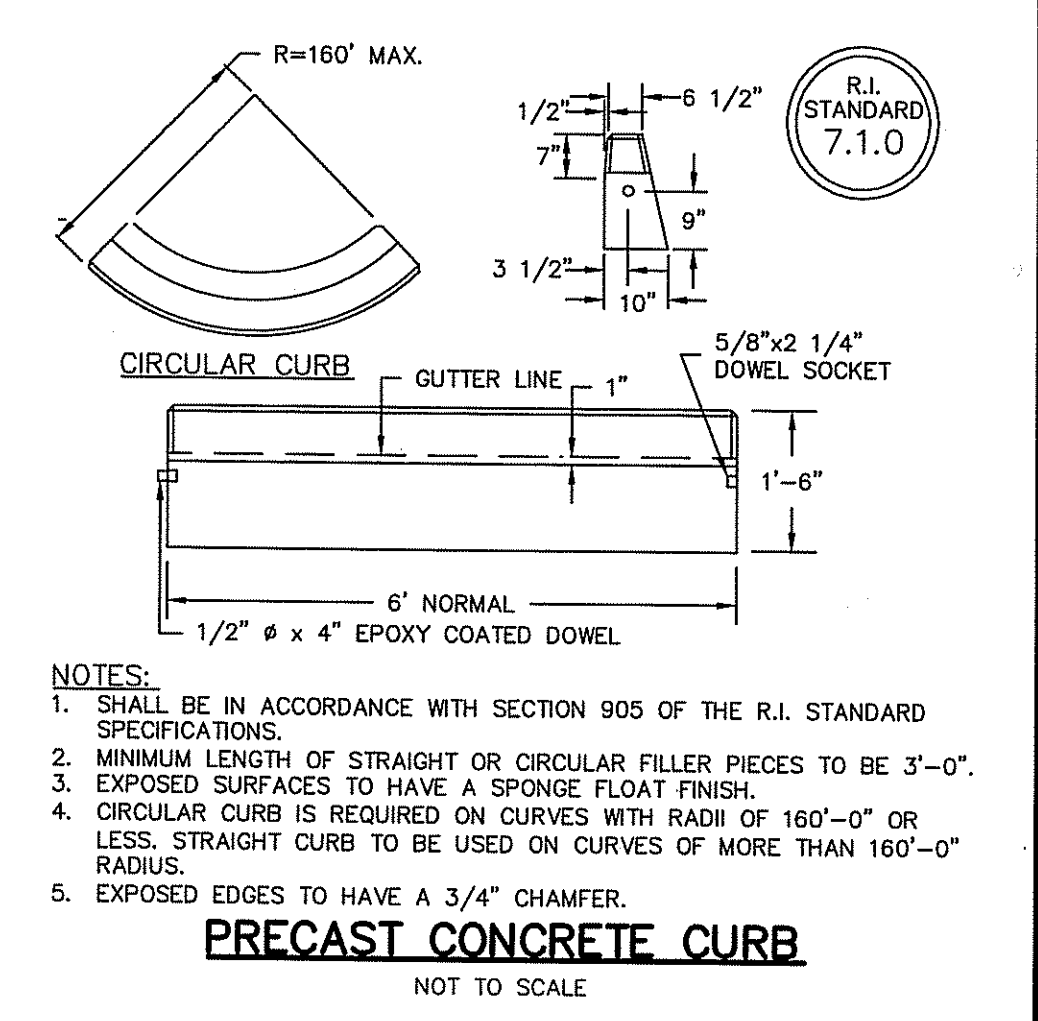
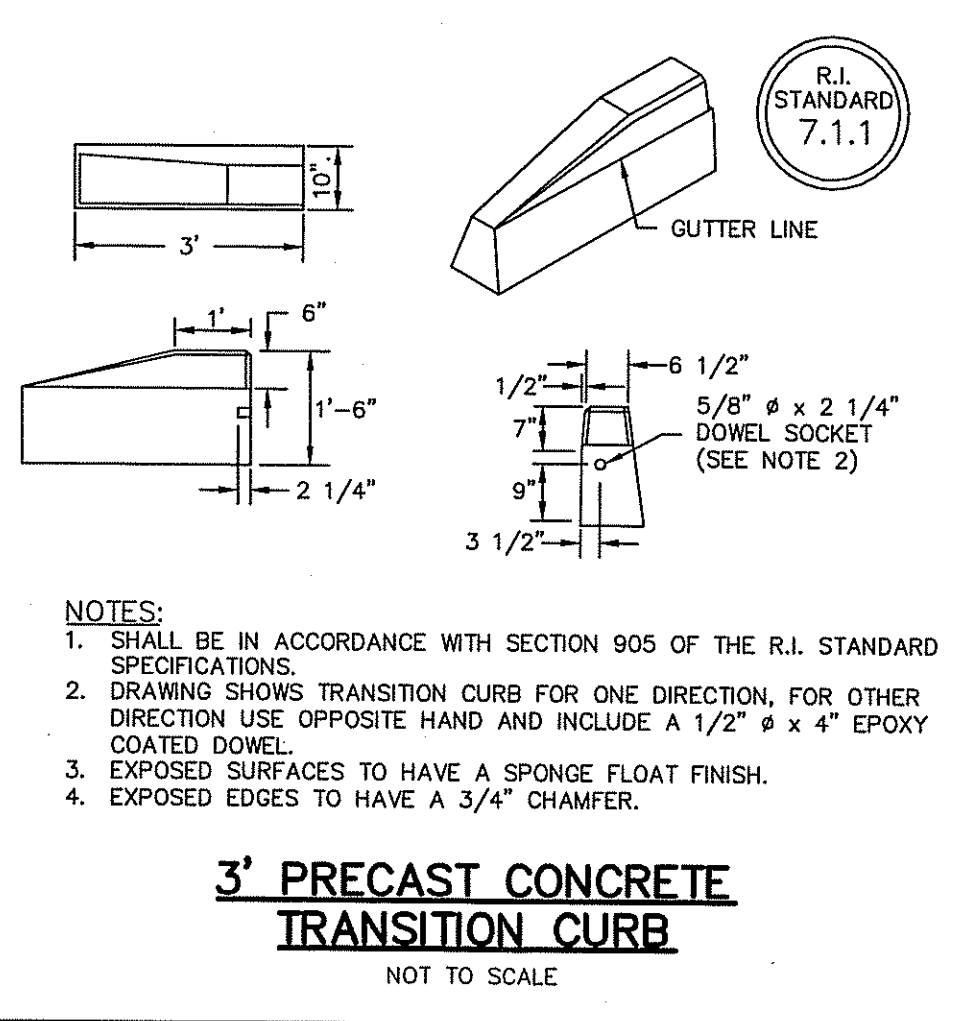
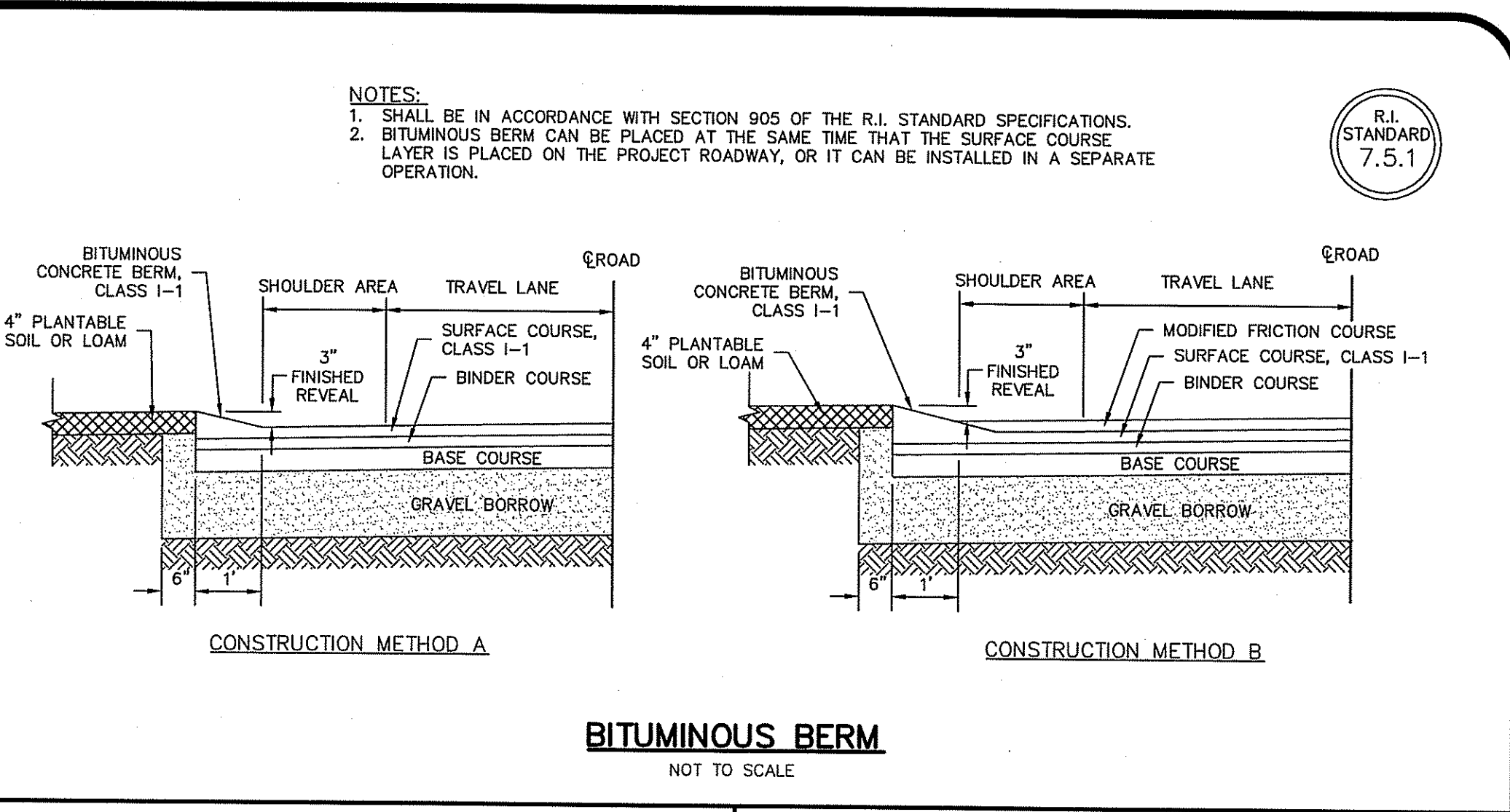
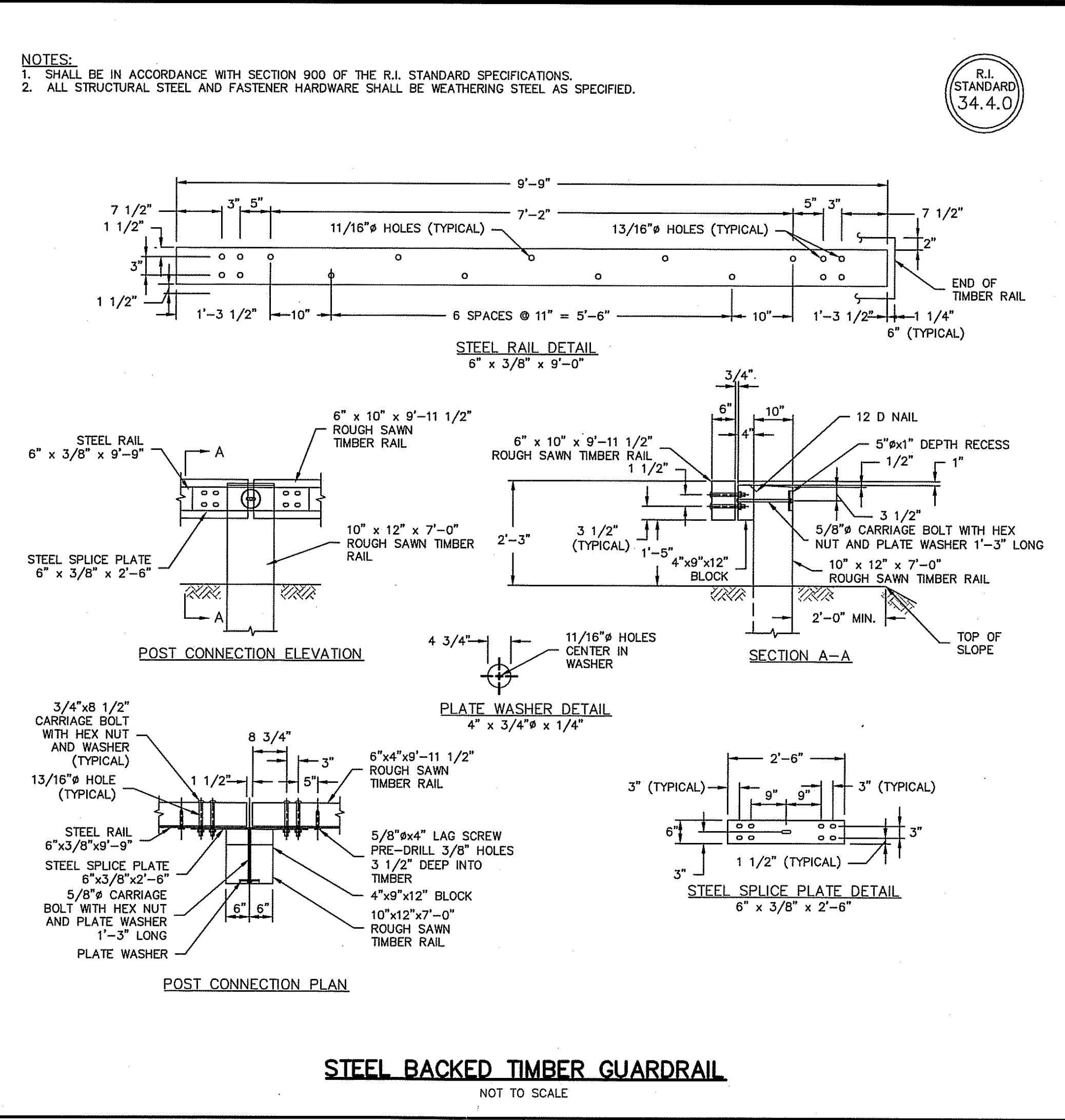
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **JUN 28 2011** FILE # **08-0387**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLAN MUST BE AT ALL TIMES ON SITE

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

8 OF 13

ADA NOTES

- ALL IMPROVEMENTS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) BY THE DEPARTMENT OF JUSTICE.
- MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.045' AND MAXIMUM CROSS SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.015'.
- MAXIMUM SLOPE IN ANY DIRECTION FOR ALL ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE 0.015'.
- AT A MINIMUM, A 5' X 5' LANDING WITH A MAXIMUM SLOPE OF 0.015' IN ANY DIRECTION SHALL BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/EGRESSSES.
- SIDEWALK CURB RAMPS SHALL COMPLY WITH DIPRETE ENGINEERING DETAILS MEETING OR EXCEEDING RIDOT STANDARDS 43.3.0, 43.3.1 & 43.4.1 AS SHOWN ON THE DETAIL SHEET.
- PLEASE NOTE THAT THE GRADING AND PLAN VIEWS AS WELL AS THE STANDARD DETAILS MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS AND RAMPS TO ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA STANDARDS. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.



THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION PLANNING
FRESH WATER RESOURCES PROGRAM
APPROVED FOR CONSTRUCTION
AS SPECIFIED IN THE LETTER OF APPROVAL

DATED JUN 28 2011 FILE # 08-0387
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

Street Details
Fry Brook Office Park
AP 12A, Lot 97 East Greenwich, Rhode Island

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

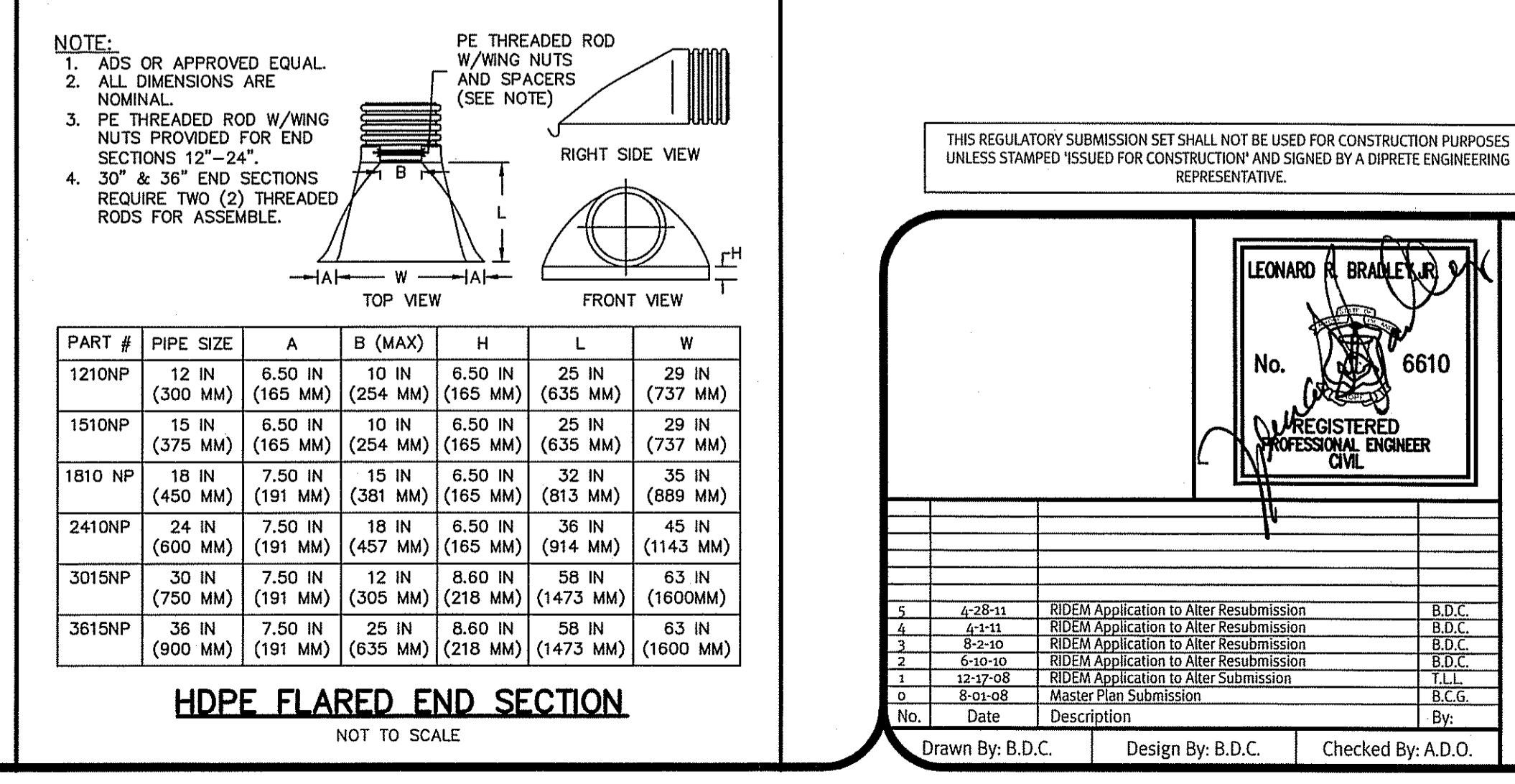
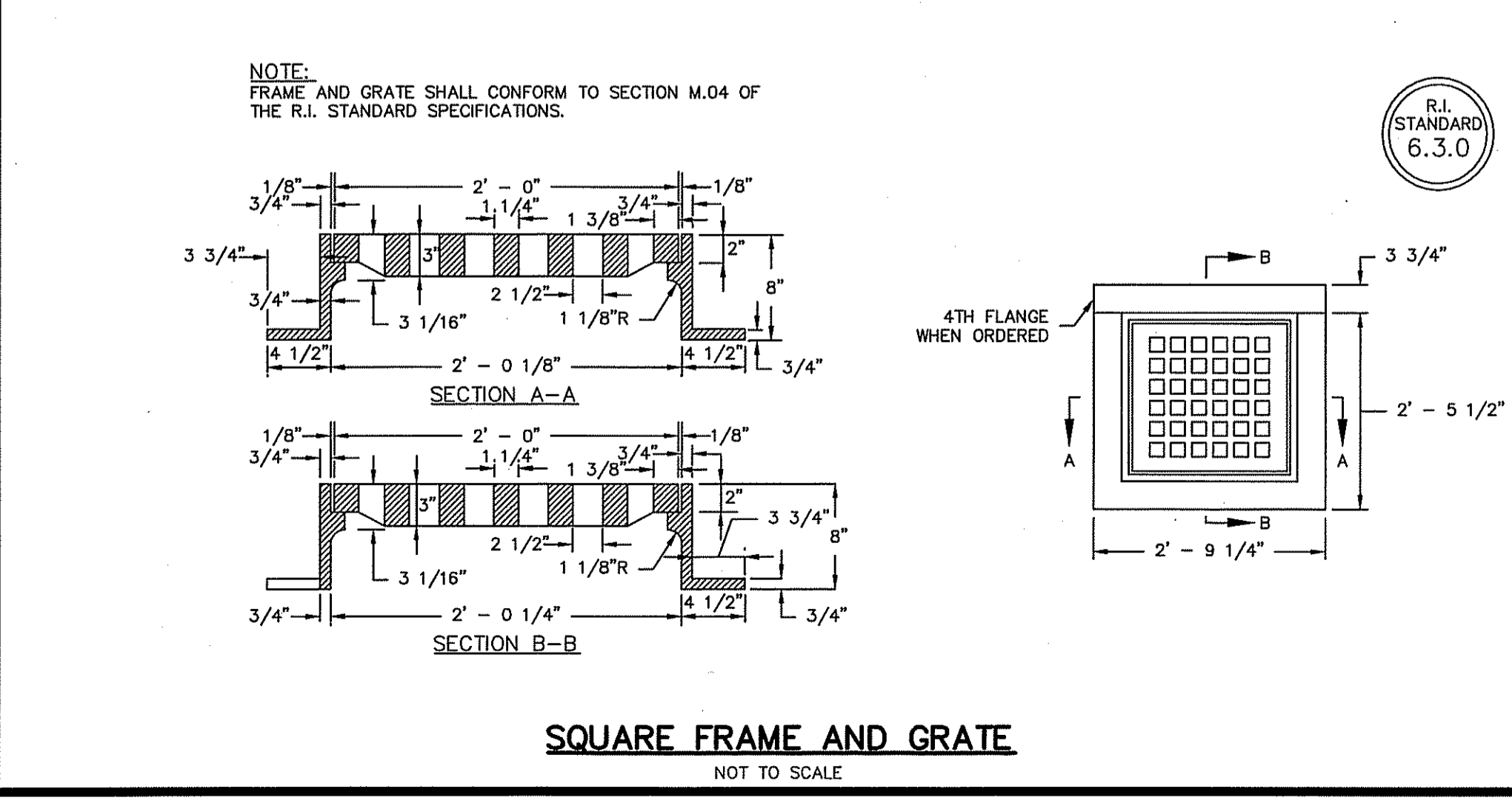
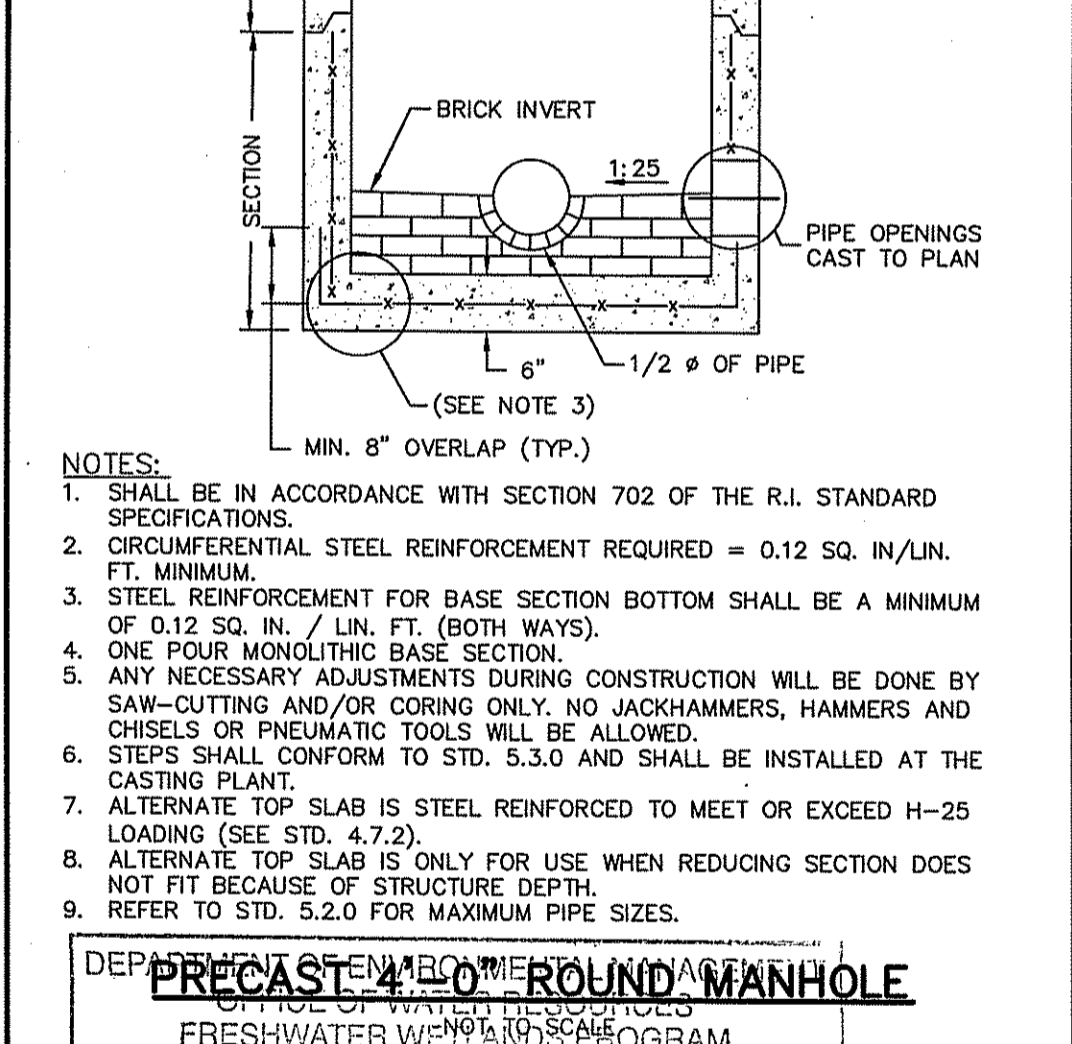
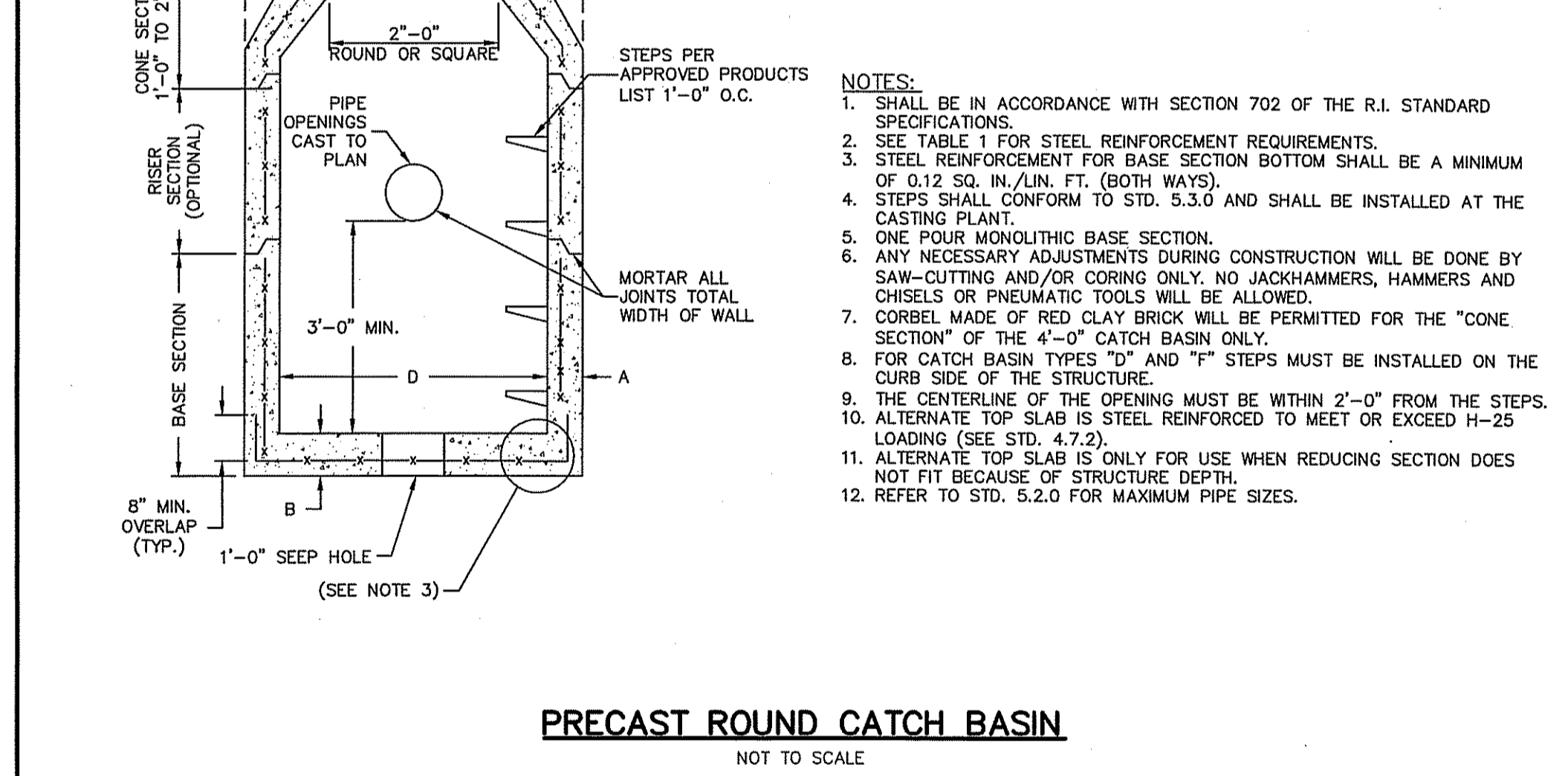
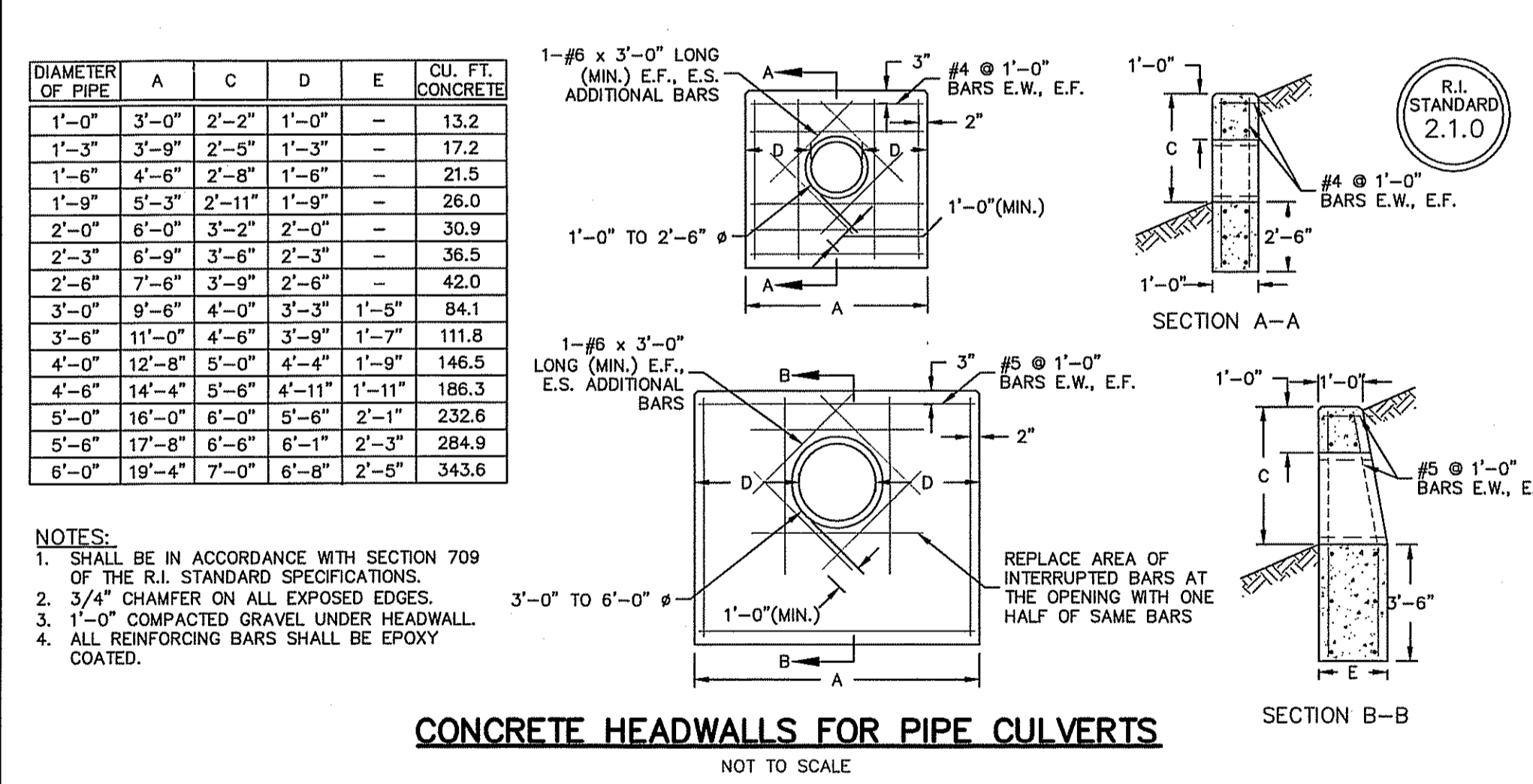
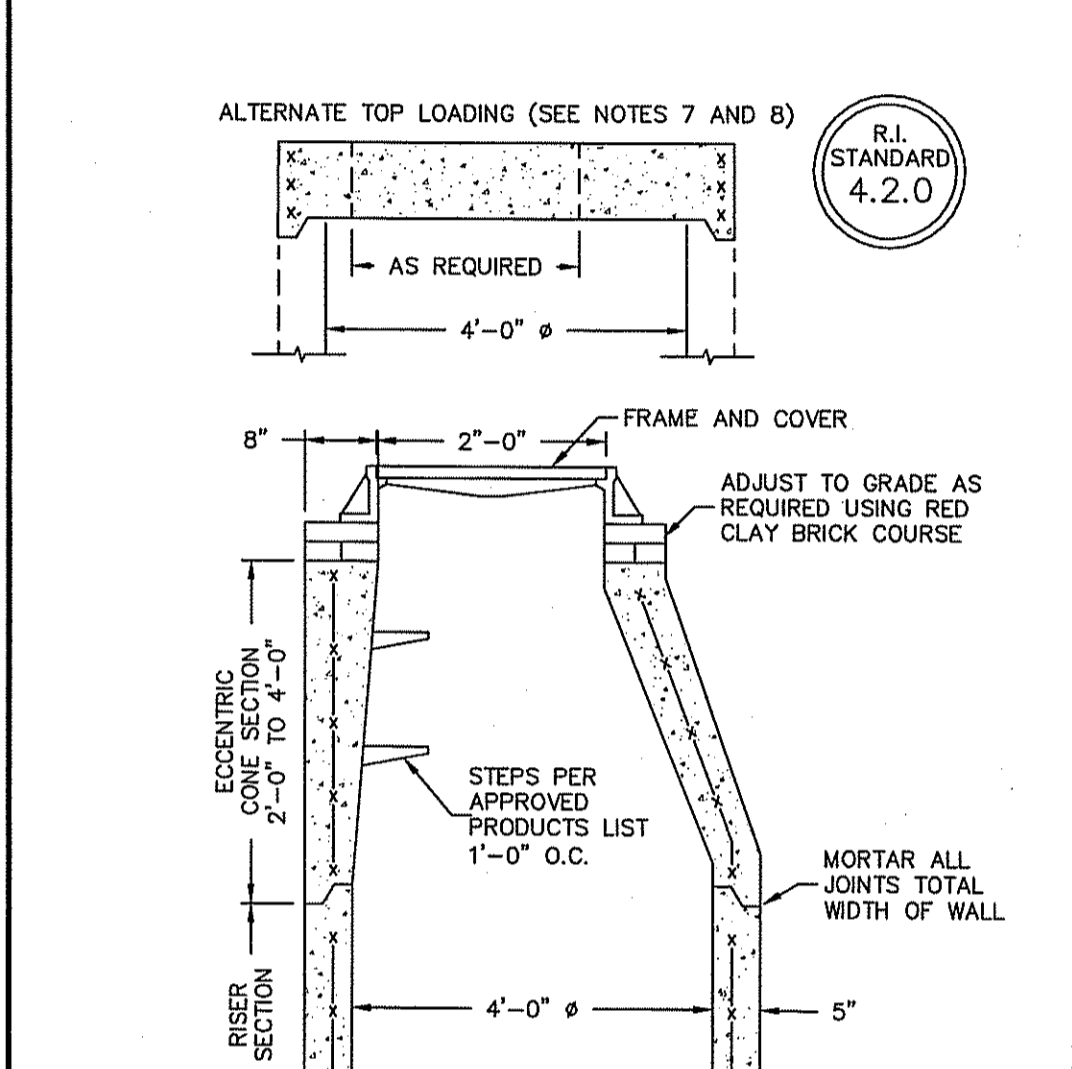
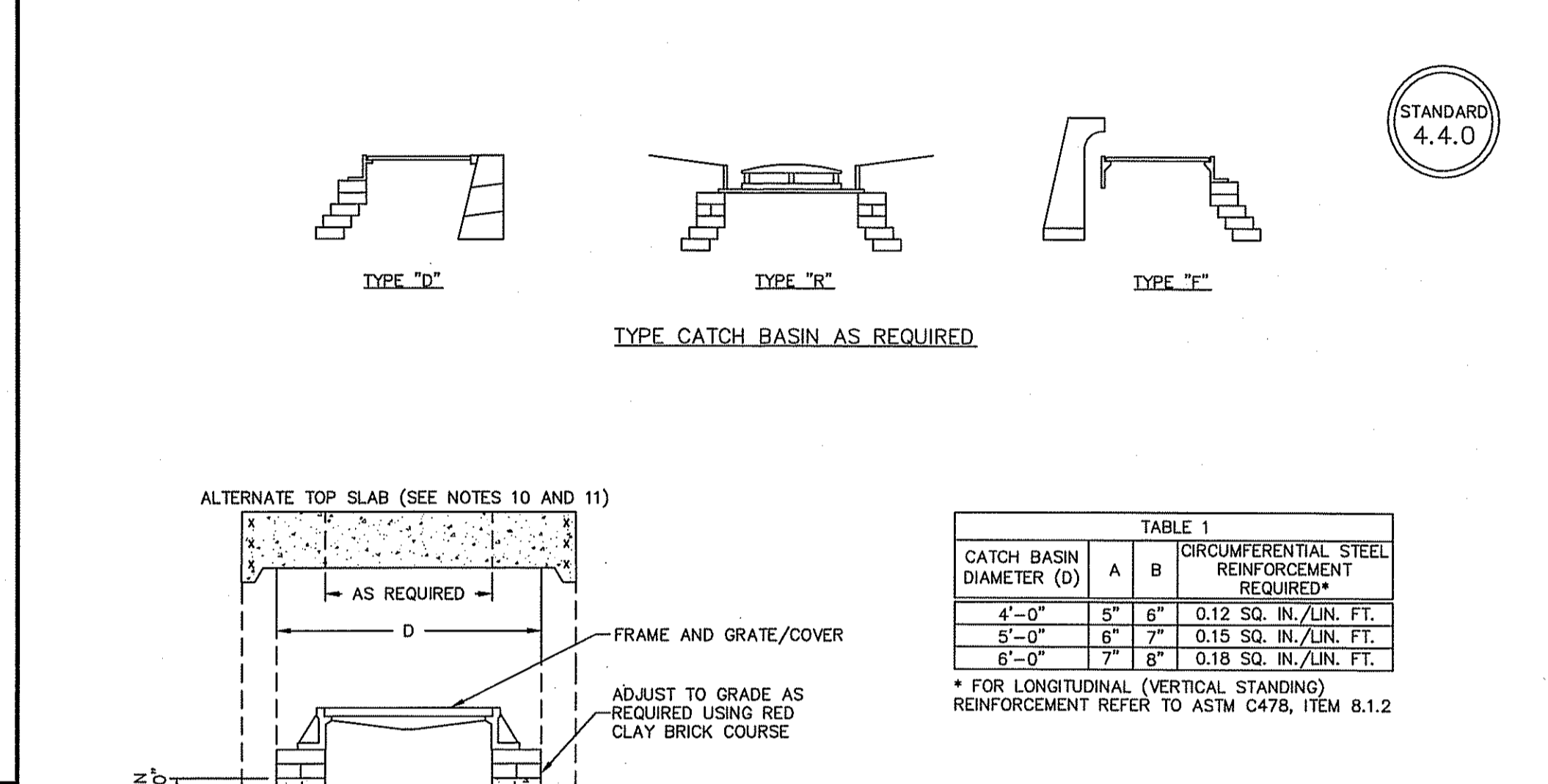
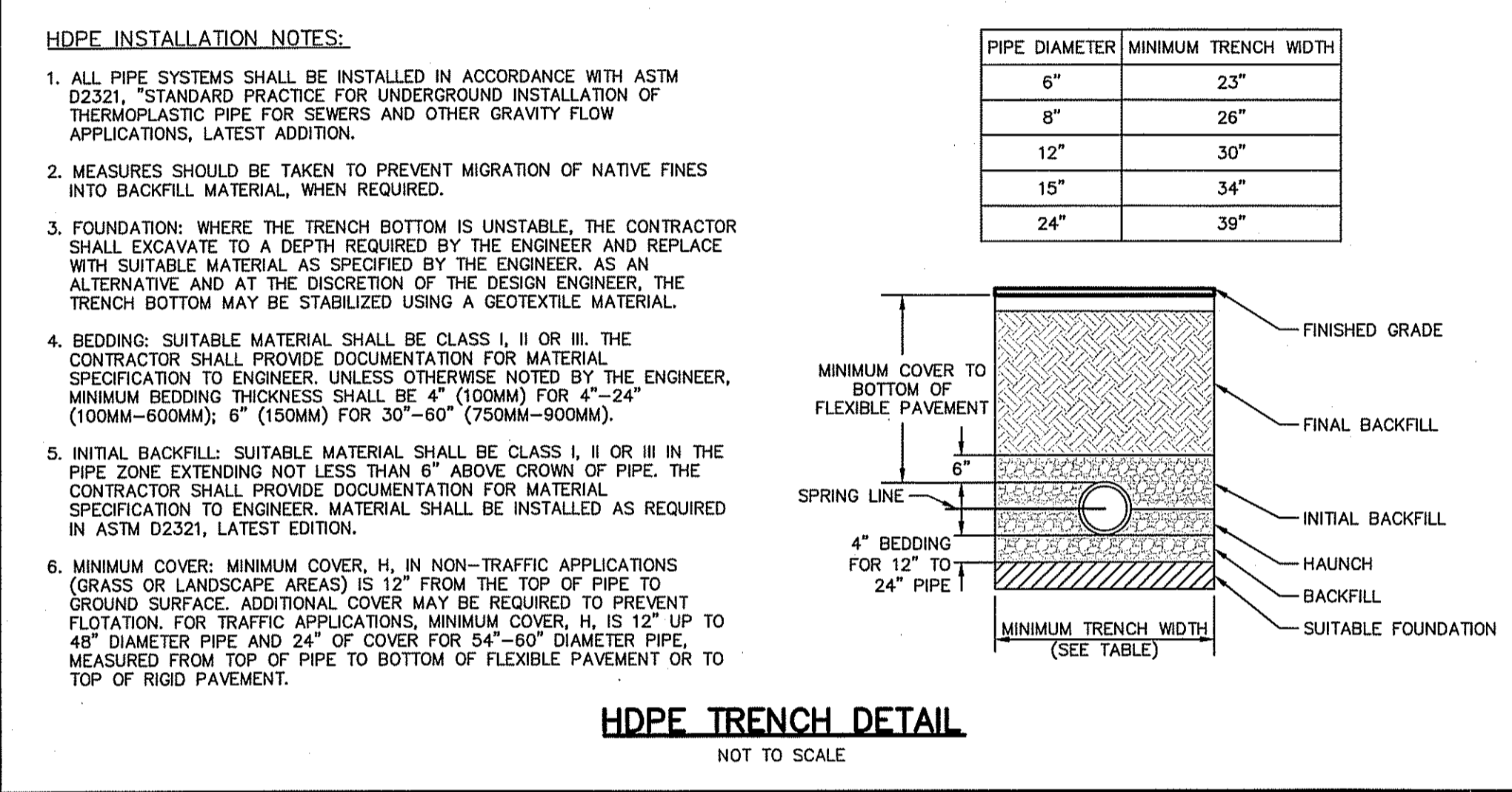
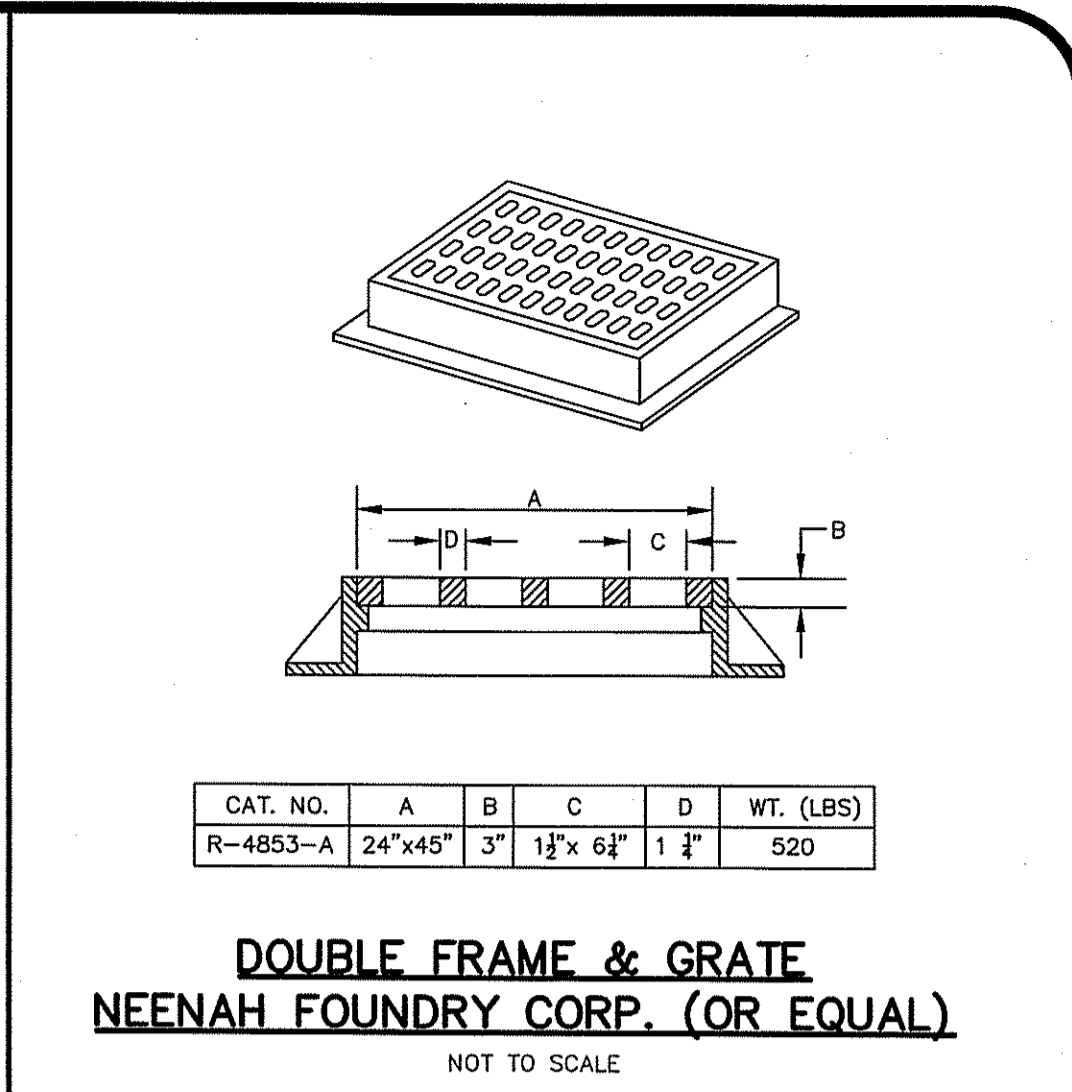
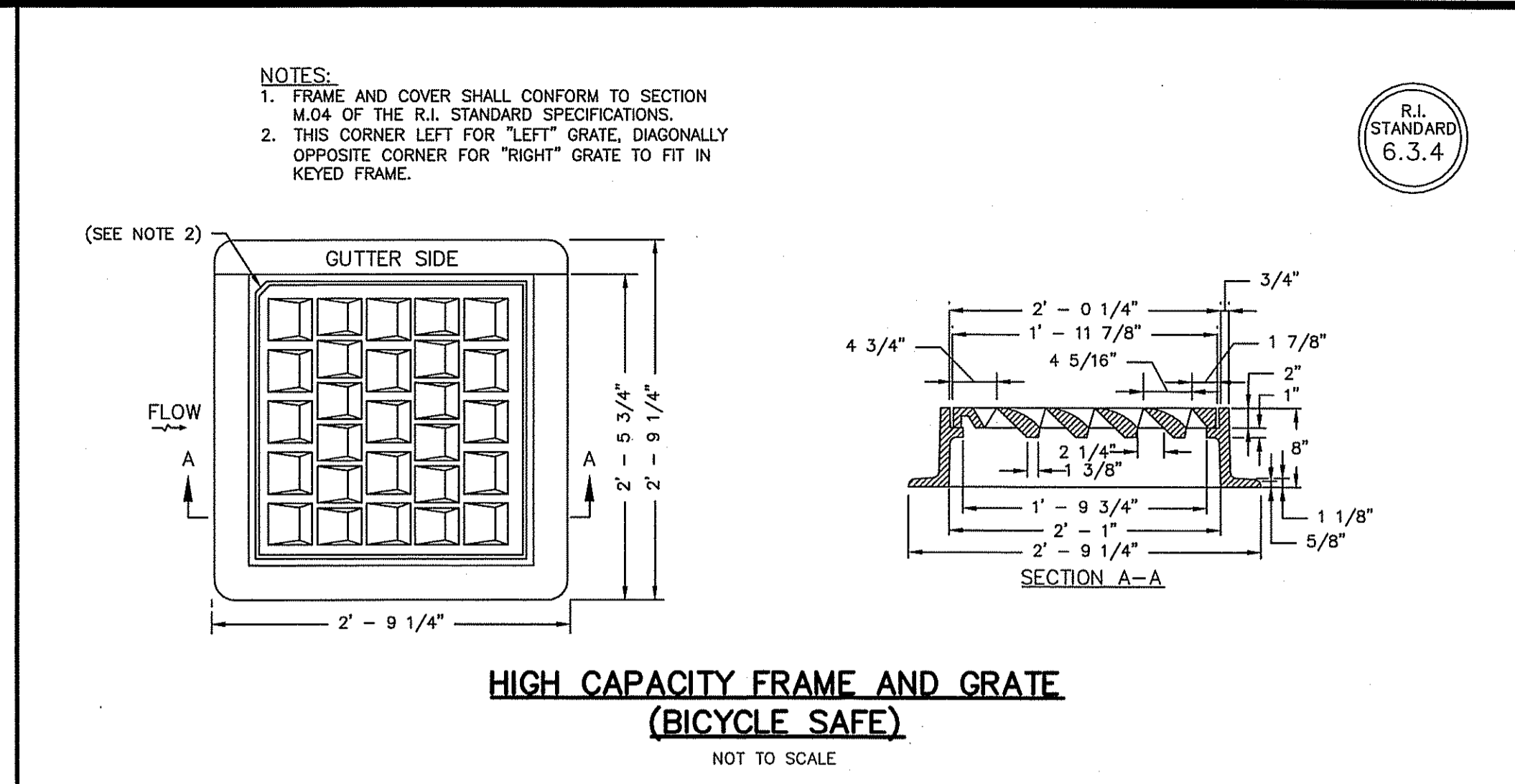
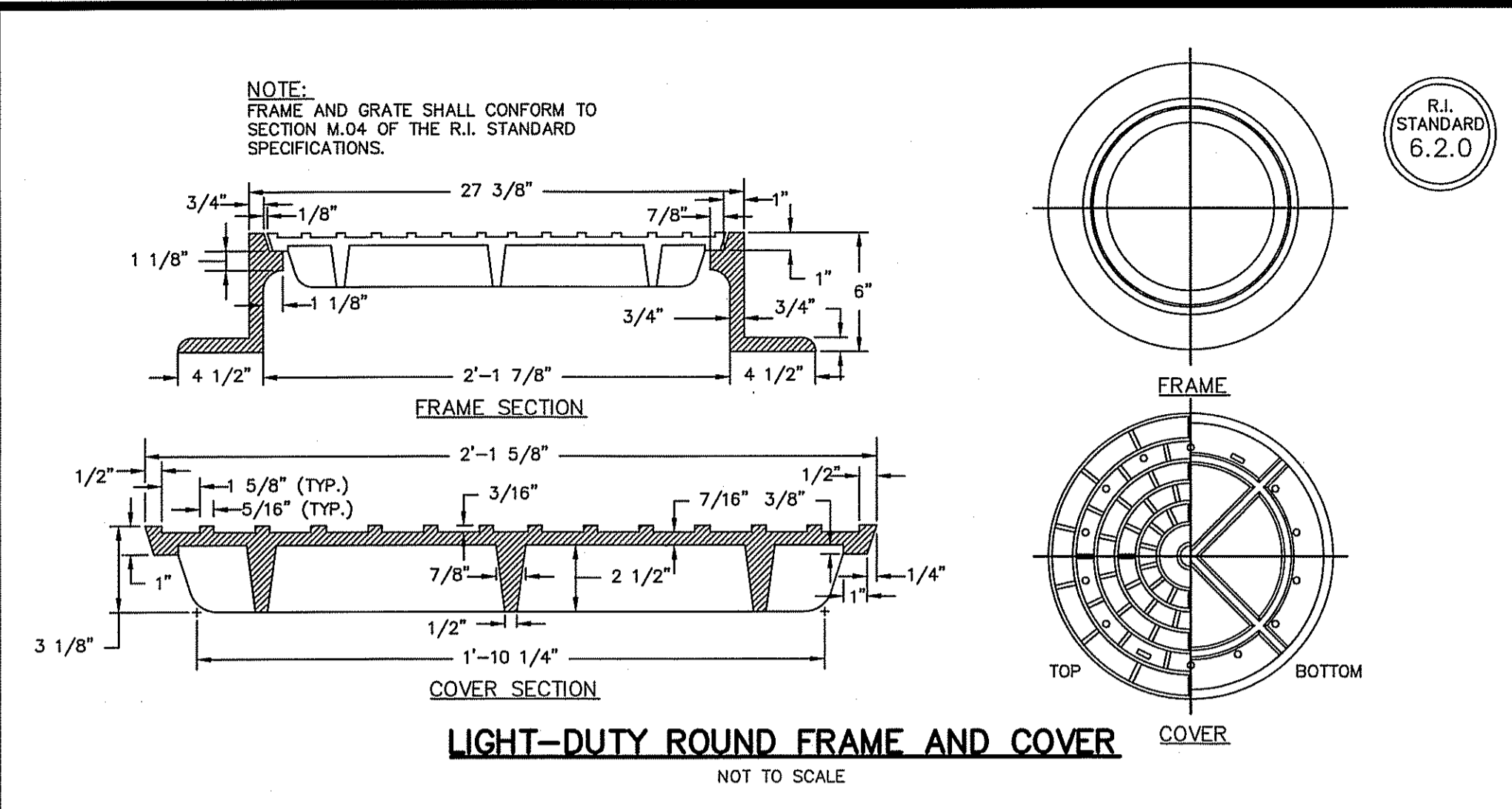
Applicant
West Bay Partnership, LLC
P.O. Box 610, East Greenwich, RI 02818
(401) 884-6361

LEONARD R. BRANLEY, P.E.
No. 6610
REGISTERED PROFESSIONAL ENGINEER
CIVIL

No.	Date	Description	By
3	4-28-11	RIDEM Application to Alter Resubmission	B.D.C.
4	6-1-11	RIDEM Application to Alter Resubmission	B.D.C.
5	8-2-10	RIDEM Application to Alter Resubmission	B.D.C.
6	6-10-09	RIDEM Application to Alter Resubmission	B.D.C.
7	12-17-08	RIDEM Application to Alter Resubmission	T.L.L.
8	8-01-08	Master Plan Submission	B.C.G.
No.	Date	Description	By

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

9 OF 13



DEPARTMENT OF PERMITTING AND INSPECTION
OFFICE OF WATER RESOURCES
FRESHWATER WELLS AND SAFETY PROGRAM

APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 28 2011 FILE # 08-0387
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NEARLY METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

Drainage Details
Fry Brook Office Park
AP 12A, Lot 97 East Greenwich, Rhode Island

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

Applicant
West Bay Partnership, LLC
P.O. Box 610, East Greenwich, RI 02818
(401) 884-6361

LEONARD R. BRADLEY, P.E.
No. 6610
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Office of Water Resources
MAY - 2 2011

10 OF 13

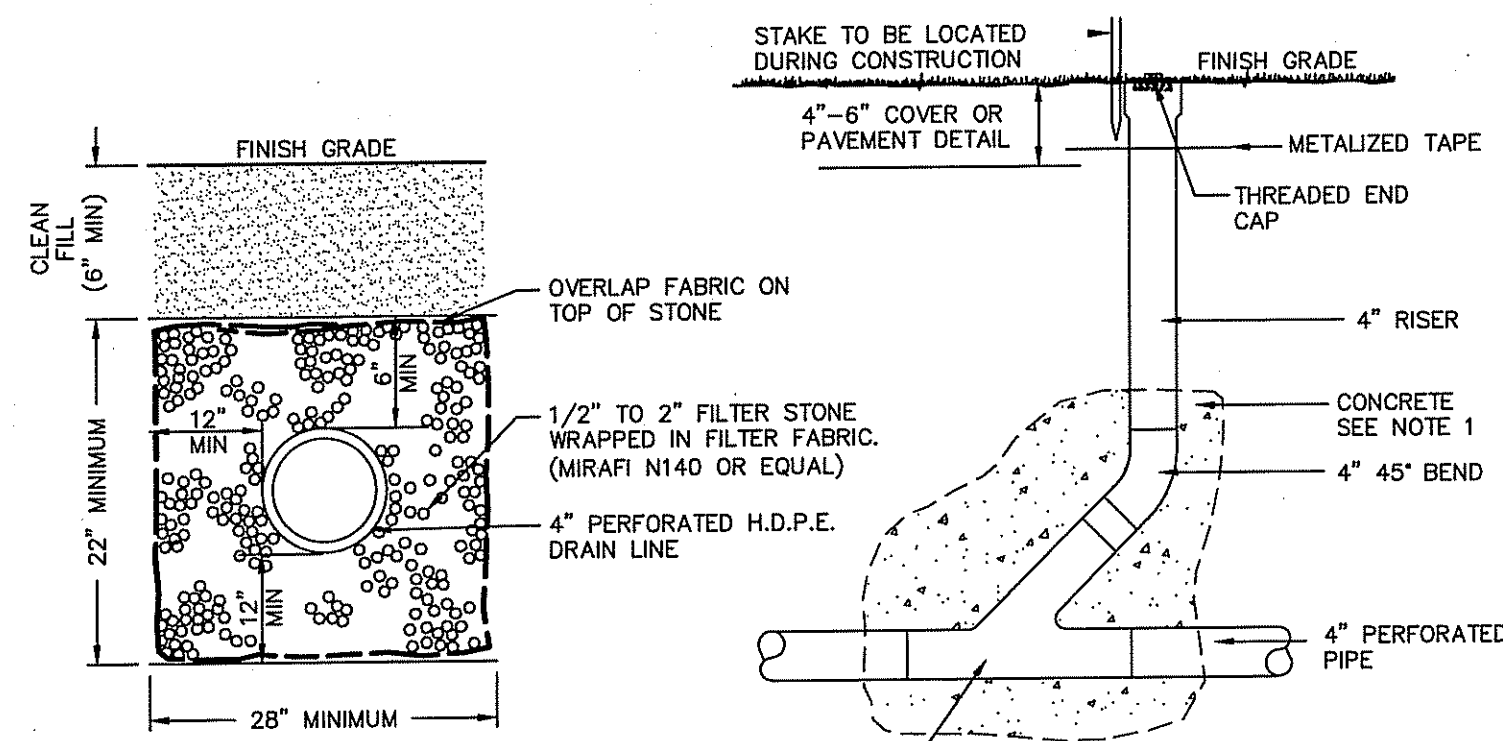
DE Job No: 1009-003 Copyright 2010 by DiPrete Engineering Associates, Inc.

Engineers + Planners + Surveyors

- SUBDRAIN AREA IS TO BE STAKED, MARKED AND IS TO REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. NO CONSTRUCTION TRAFFIC OVER THE SUBDRAIN AREA PRIOR TO CONSTRUCTION IS ALLOWED.
- SEE CONSTRUCTION SEQUENCE OUTLINED IN SUBDRAIN TRENCH DETAIL.
- CONTRACTOR SHALL PROVIDE AS-BUILT PLANS OF THE DETENTION BASINS, SHOWING THE FIELD-LOCATED SUBDRAIN LOCATIONS, INVERTS AND SIZES.
- IF AS-BUILT PLAN INDICATES THAT DETENTION BASIN AND SUBDRAINS ARE NOT INSTALLED AS SHOWN ON THE CONSTRUCTION PLANS AND DETAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING SUBDRAINS ACCORDING TO DESIGN PLANS.
- OWNER SHALL MONITOR THE WATER LEVELS WITHIN THE CLEAN-OUTS AT VARIOUS TIME INTERVALS AFTER RAINFALL EVENTS THAT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN THE SUBDRAIN AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF SUBDRAIN BY OWNER.
- THE DETENTION BASINS SHOULD DRAIN AS DESIGNED. STANDING WATER SHOULD NOT BE PRESENT IN THE BASIN 72 HOURS AFTER A RAINFALL EVENT. STANDING WATER DOES NOT DRAIN WITHIN 72 HOURS, THE BASIN SHALL BE CONSIDERED DEFICIENT AND SHALL BE REPAIRED IMMEDIATELY BY THE OWNER.
- THE INSTALLATION OF THE SUBDRAIN BENEATH THE DETENTION BASINS IS TO BE RECORDED IN THE PROPERTY DEED(S).
- THE OWNER AND / OR THE CONTRACTOR SHALL TAKE SPECIAL CARE SO AS TO AVOID DAMAGING THE SUBDRAIN. HEAVY EQUIPMENT SHALL NOT OPERATED DIRECTLY OVER THE SUBDRAIN PIPE. MORE SPECIFICALLY, THEY SHALL NOT PLACE EQUIPMENT STABILIZERS OVER THE SUB DRAIN PIPE. THE LOCATION OF THE SUBDRAIN SHALL BE VERIFIED AND LOCATED PRIOR TO COMMENCEMENT OF INSPECTION, MAINTENANCE OR REPAIRS WITHIN THE DETENTION BASINS.

SUBDRAIN INSTALLATION, INSPECTION & MAINTENANCE NOTE

NOT TO SCALE

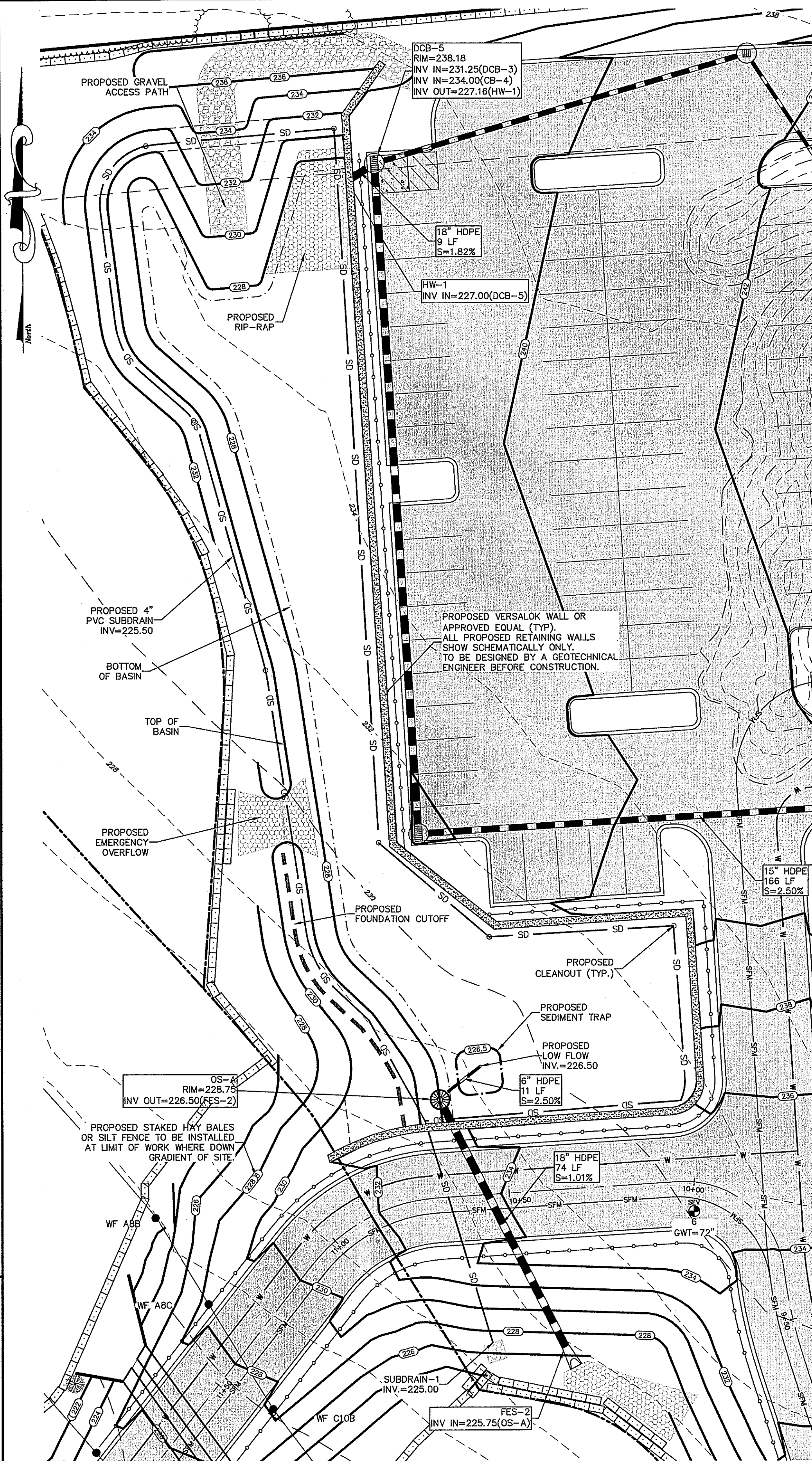


4" SUBDRAIN CLEANOUT AND TRENCH (TYPICAL)

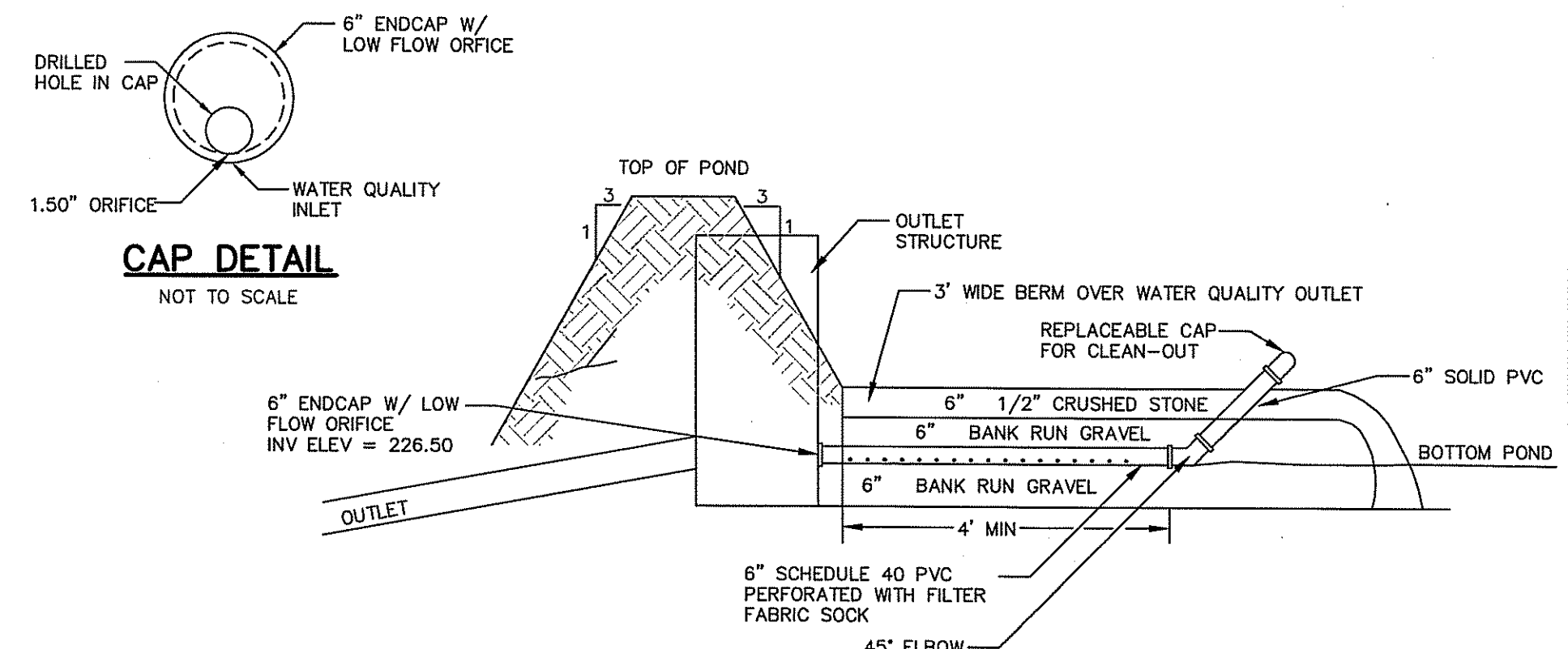
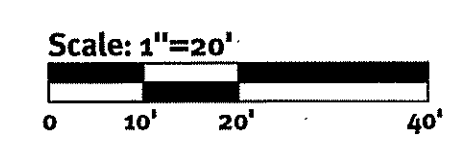
NOT TO SCALE

NOTES:

- ENCASE IN CONCRETE WHEN INVERT IS 12" OR MORE BELOW FINISH GRADE.
- AT TERMINAL CLEANOUT REPLACE WY WITH 45° BEND.
- SUBDRAIN AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON SUBDRAIN AREA PRIOR TO CONSTRUCTION.
- MONITORING WATER LEVELS WITHIN THE CLEAN-OUTS AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN SUBDRAIN 72 HOURS AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF SUBDRAIN BY THE HOMEOWNER.



BASIN A



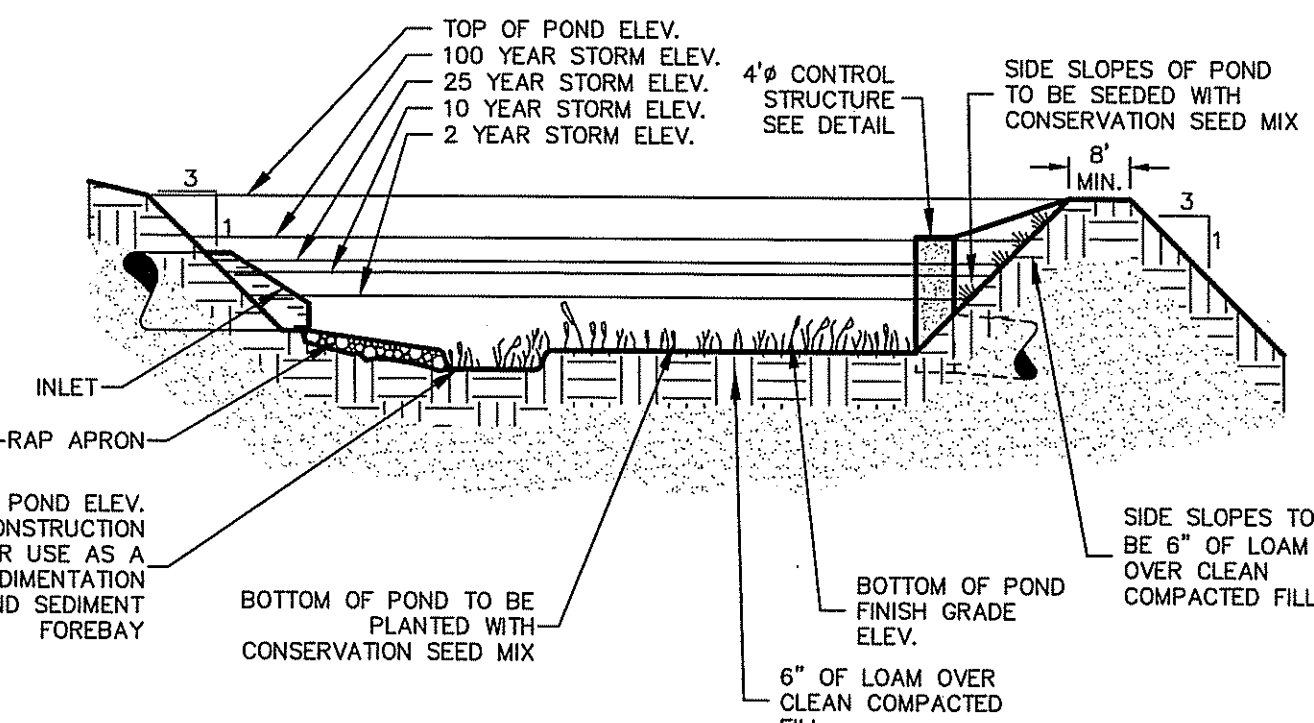
CAP DETAIL

NOT TO SCALE

BASIN A WATER QUALITY OUTLET (WITH STRUCTURE)

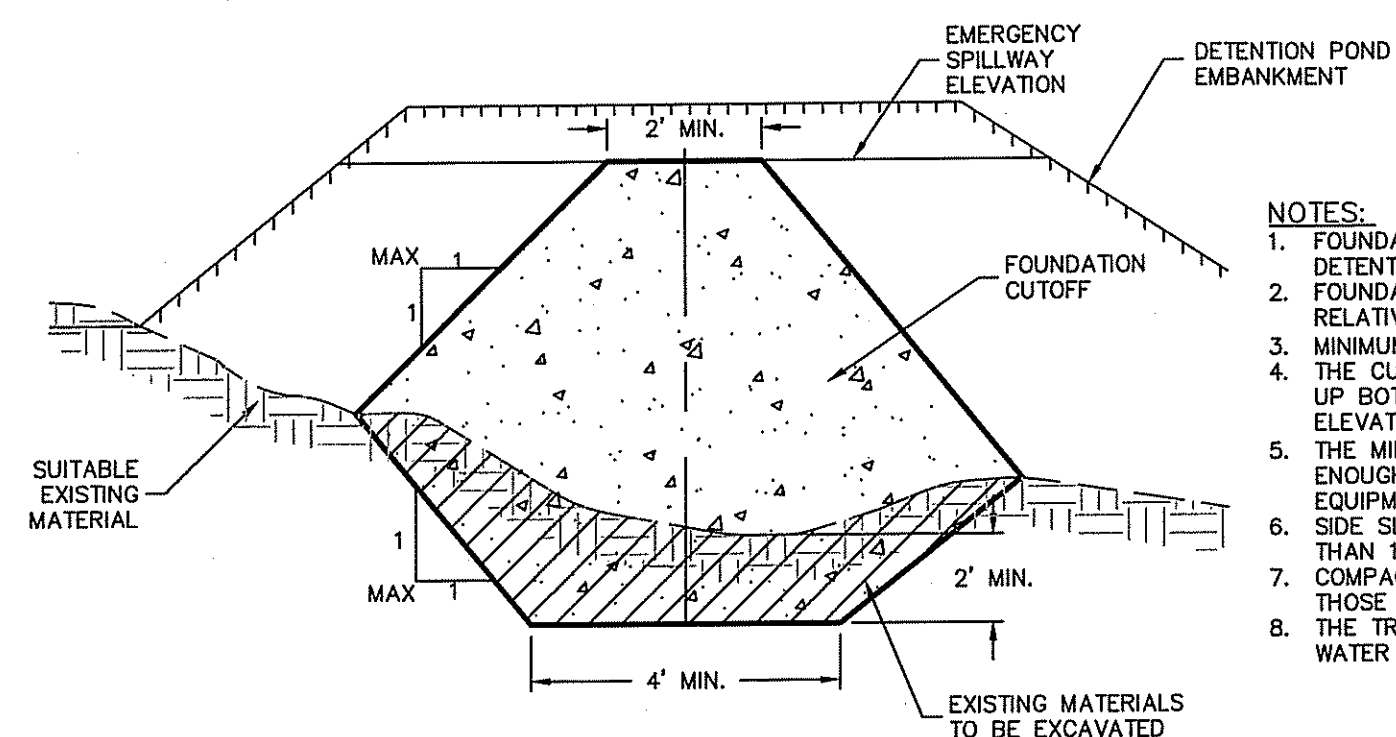
NOT TO SCALE

DESCRIPTION	BASIN A
TOP OF POND ELEVATION	230.00
BOTTOM OF POND	227.00
100 YEAR STORM ELEVATION	228.71
25 YEAR STORM ELEVATION	228.42
10 YEAR STORM ELEVATION	228.25
2 YEAR STORM ELEVATION	227.90
SEASONAL HIGH GWT ELEVATION	228.00*



DETENTION POND TYPICAL CROSS SECTION

NOT TO SCALE



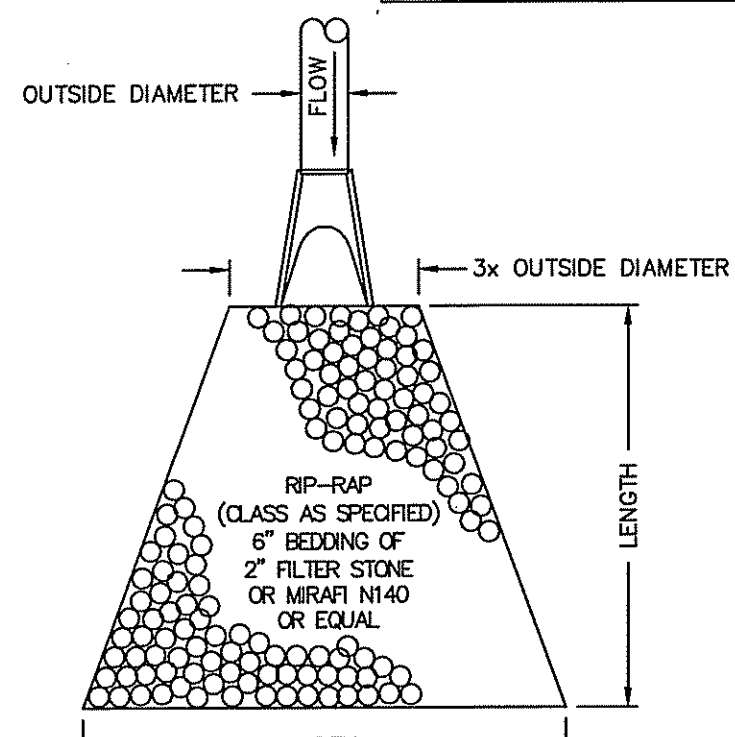
FOUNDATION CUTOFF FOR EMBANKMENT OF DETENTION POND

NOT TO SCALE

NOTES:

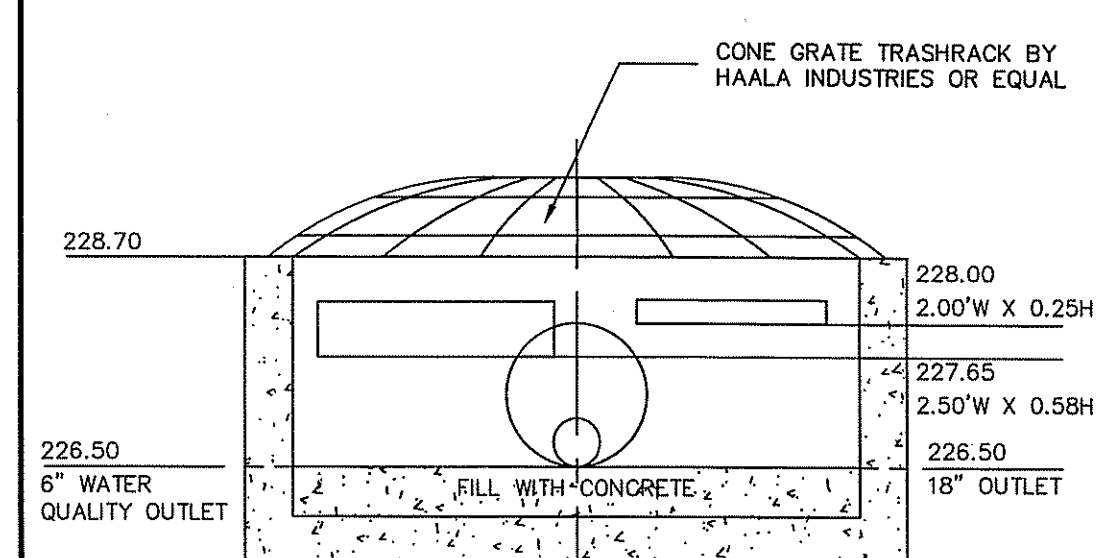
- FOUNDATION CUTOFF TO BE PROVIDED FOR ALL DETENTION POND EMBANKMENTS.
- FOUNDATION CUTOFF IS TO BE CONSTRUCTED OF RELATIVELY IMPERMEABLE MATERIALS.
- MINIMUM DEPTH OF CUTOFF SHOULD BE 2'.
- THE CUTOFF TRENCH, AS A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
- THE MINIMUM BOTTOM WIDTH SHALL BE 4', BUT WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
- SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
- COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR EMBANKMENT.
- THE TRENCH SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.

FLARED END	LENGTH	WIDTH	CLASS
HW-1	29'	17'	R-3
FES-2	20'	13'	R-3



RIP-RAP APRON/ FE DETAIL

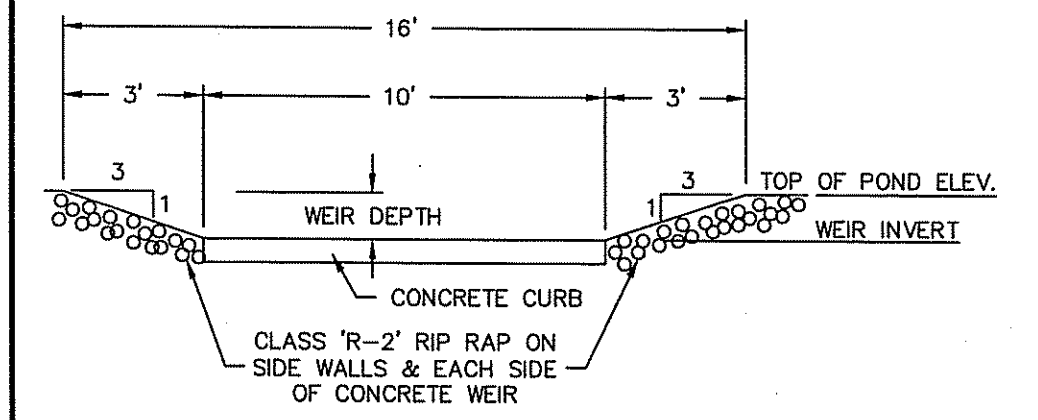
NOT TO SCALE



BASIN A OUTLET STRUCTURE (OS-A)

SCALE: 1"=2'

LOCATION	TOP OF POND ELEV.	WEIR INVERT	WEIR DEPTH
BASIN A	230.00	229.00	1.00'

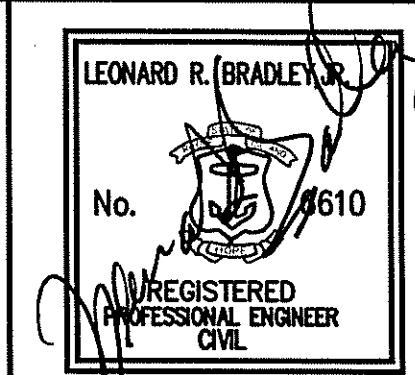


EMERGENCY SPILLWAY DETAIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WEIR DESIGN APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 10/12/11 FILE # 08-0387
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.



Basin A Details
Fry Brook Office Park
AP 12A, Lot 97 East Greenwich, Rhode Island

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com
Applicant
West Bay Partnership, LLC
P.O. Box 610, East Greenwich, RI 02818
(401) 884-6361

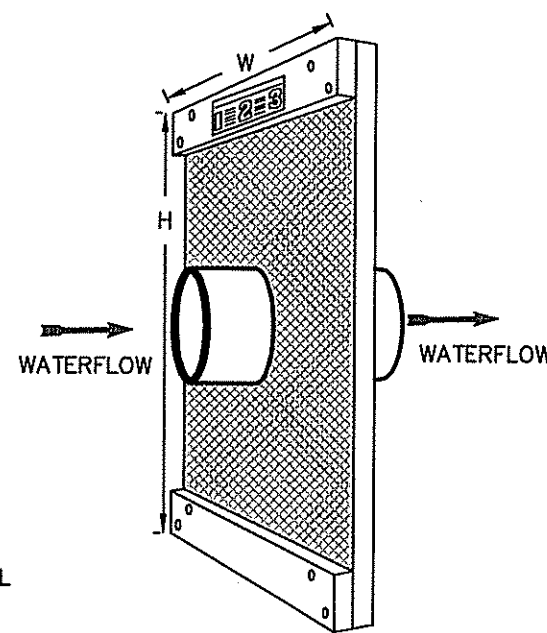
No.	Date	Description	By:
5	4-28-11	RIDEM Application to Alter Resubmission	B.D.C.
4	4-11-11	RIDEM Application to Alter Resubmission	B.D.C.
3	4-2-10	RIDEM Application to Alter Resubmission	B.D.C.
2	4-15-10	RIDEM Application to Alter Resubmission	B.D.C.
1	12-17-08	RIDEM Application to Alter Resubmission	T.L.L.
0	8-27-08	Master Plan Submission	B.C.S.

Drawn By: B.D.C. Design By: B.D.C. Checked By: A.D.O.

SHEET 11 OF 13

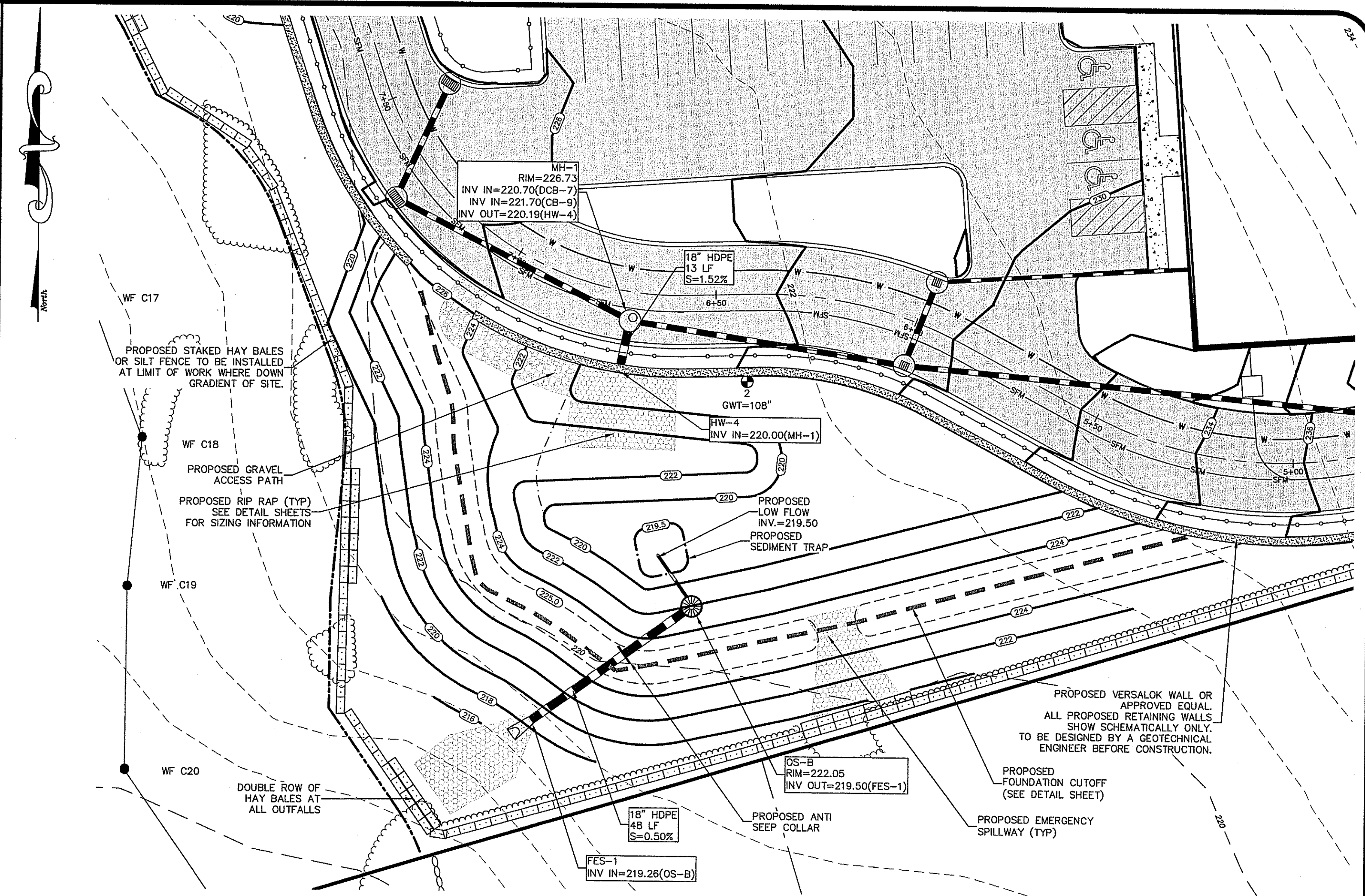
LOCATION	WIDTH	HEIGHT	QUANTITY
BASIN B	4.0'	4.0'	1

- INSTALLATION NOTES:**
- UNROLL THE ANTI-SEEP AND ATTACH THE BOARDS TO THE EDGES TO FORM A SQUARE. (USE THE BOARDS AND NAILS PROVIDED.) (4'x4' & LARGER)
 - CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 25% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS SHOULD PROVIDE A NEARLY WATERPROOF SEAL BETWEEN THE PIPE AND THE ANTI-SEEP.
 - SUP THE PIPE THROUGH THE ANTI-SEEP. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP. CAREFULLY BACKFILL AND COMPACT WITH SUITABLE SOIL.

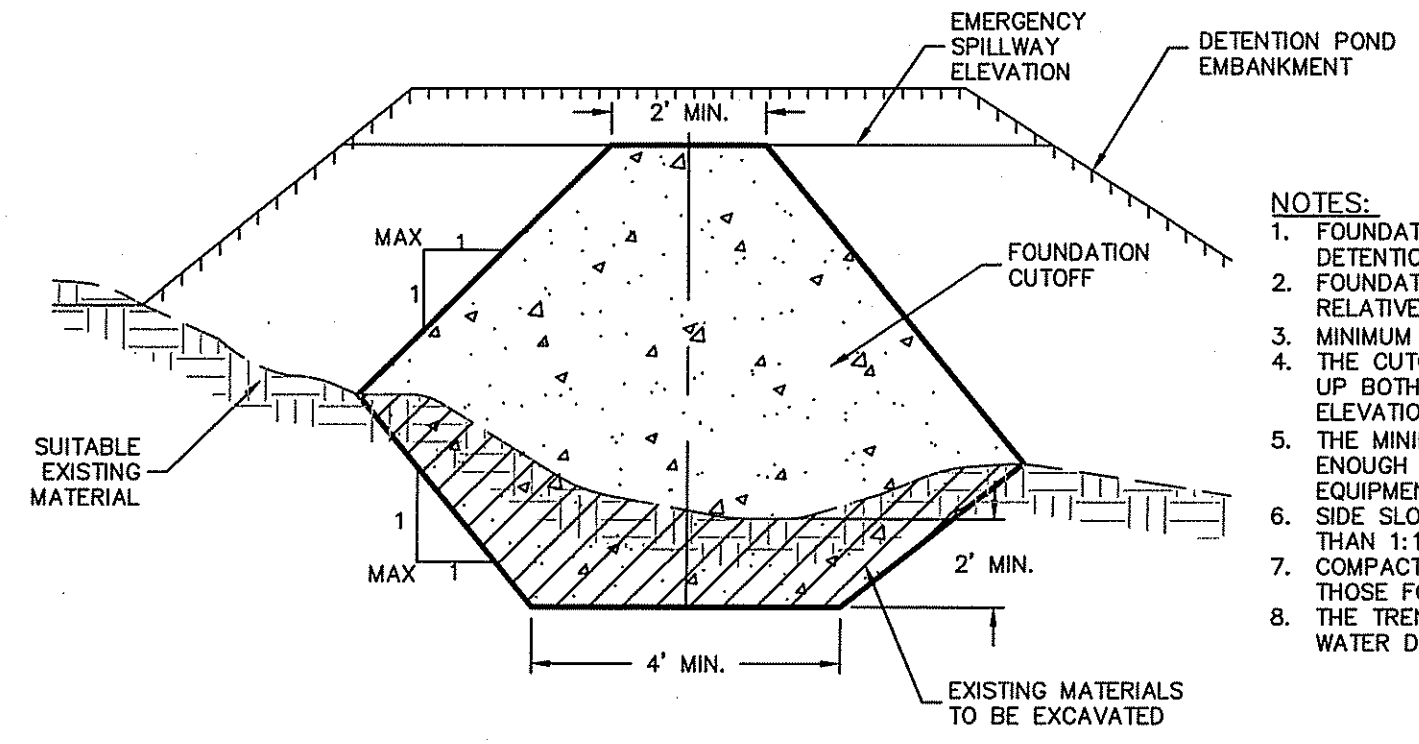


NOTE:
AGRI DRAIN CORP. OR EQUAL

ANTI-SEEP COLLAR
NOT TO SCALE



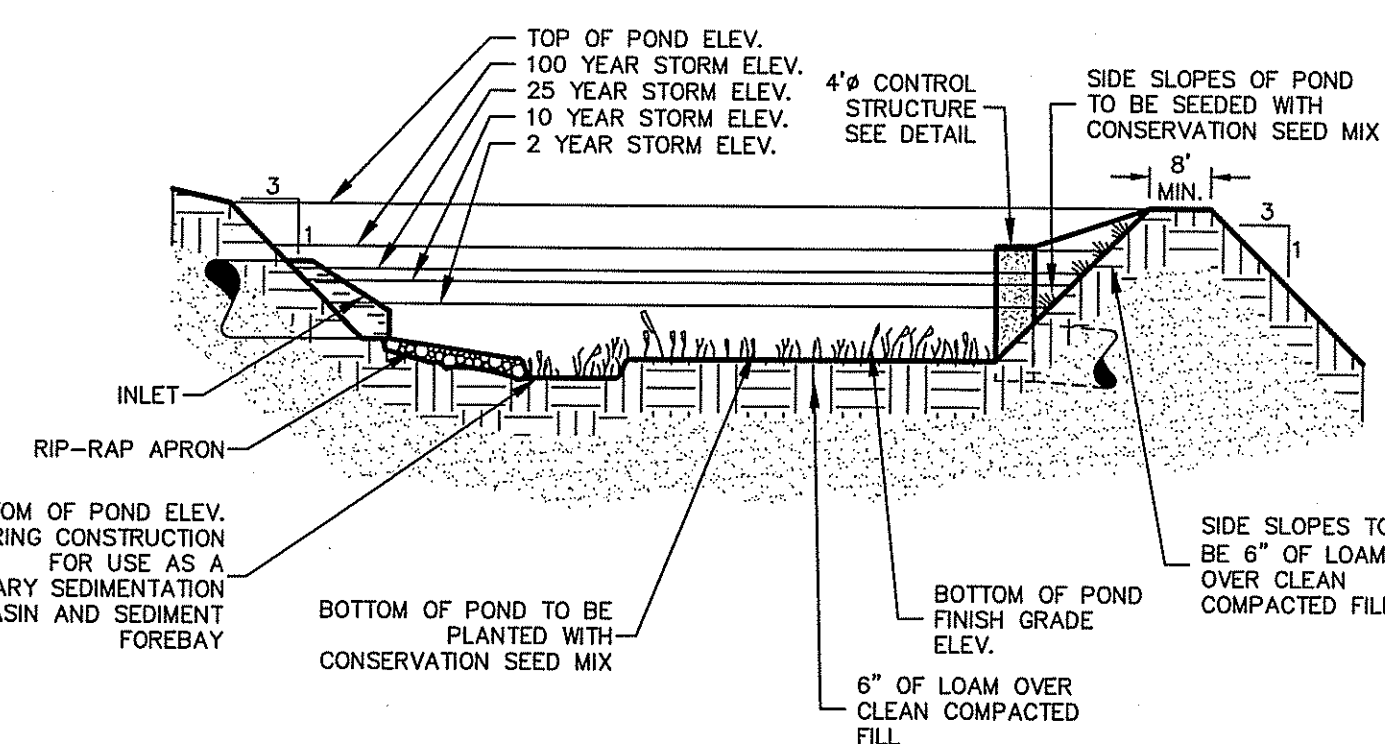
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0 10' 20' 40'



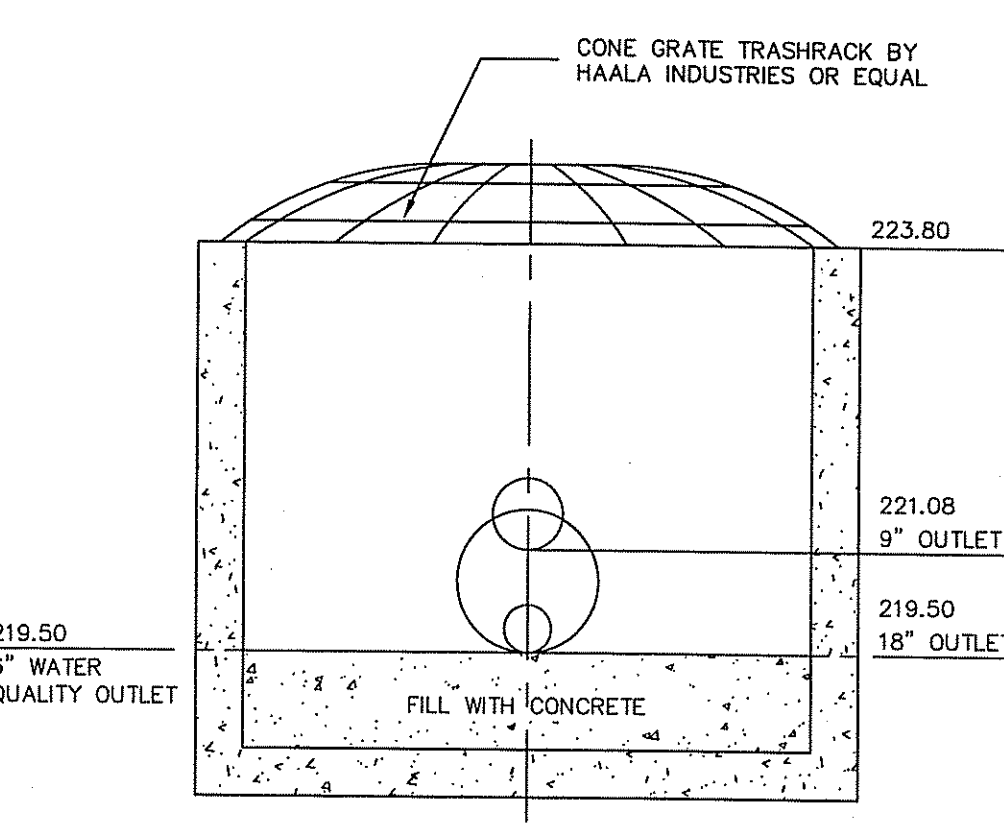
- NOTES:**
- FOUNDATION CUTOFF TO BE PROVIDED FOR ALL DETENTION POND EMBANKMENTS.
 - FOUNDATION CUTOFF IS TO BE CONSTRUCTED OF RELATIVELY IMPERMEABLE MATERIALS.
 - MINIMUM DEPTH OF CUTOFF SHOULD BE 2'.
 - THE CUTOFF TRENCH, AS A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
 - THE MINIMUM BOTTOM WIDTH SHALL BE 4', BUT WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
 - SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
 - COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR EMBANKMENT.
 - THE TRENCH SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.

FOUNDATION CUTOFF FOR EMBANKMENT OF DETENTION POND
NOT TO SCALE

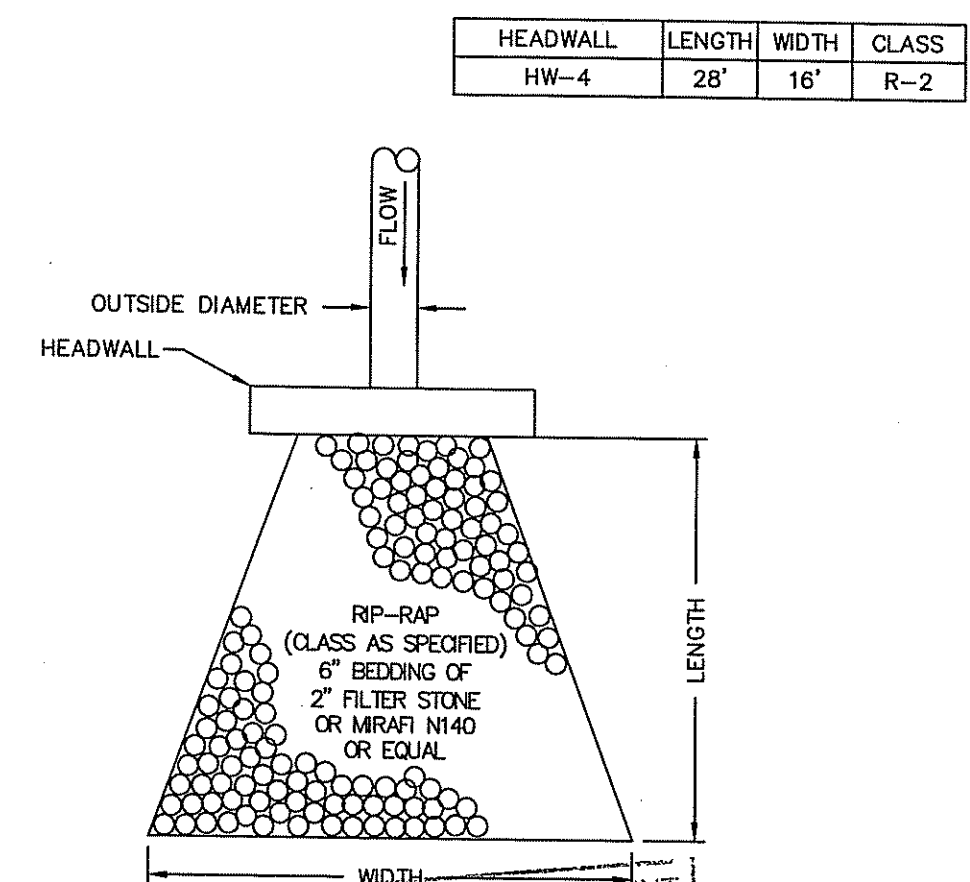
DESCRIPTION	BASIN B
TOP OF POND ELEVATION	225.00
BOTTOM OF POND	220.00
100 YEAR STORM ELEVATION	223.99
25 YEAR STORM ELEVATION	223.24
10 YEAR STORM ELEVATION	222.61
2 YEAR STORM ELEVATION	221.51
SEASONAL HIGH GWT ELEVATION	211.00



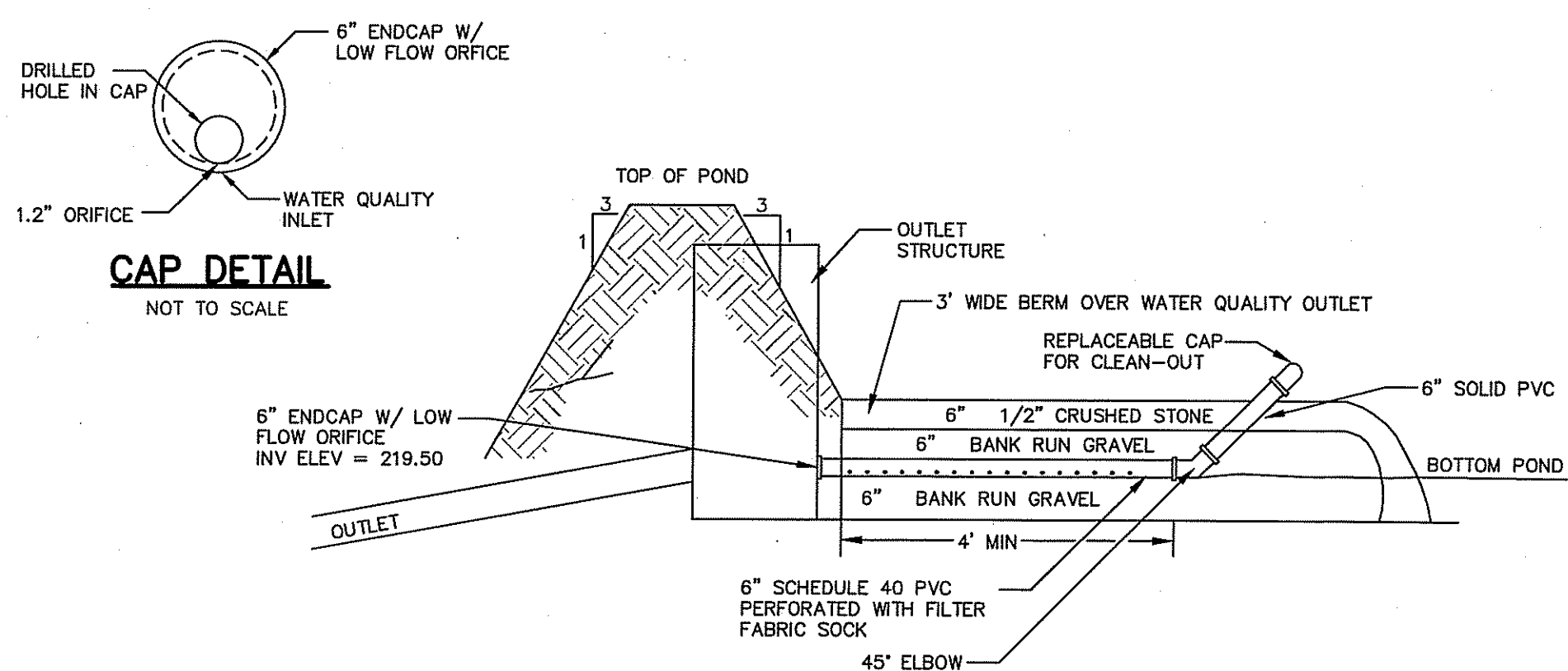
DETENTION POND TYPICAL CROSS SECTION
NOT TO SCALE



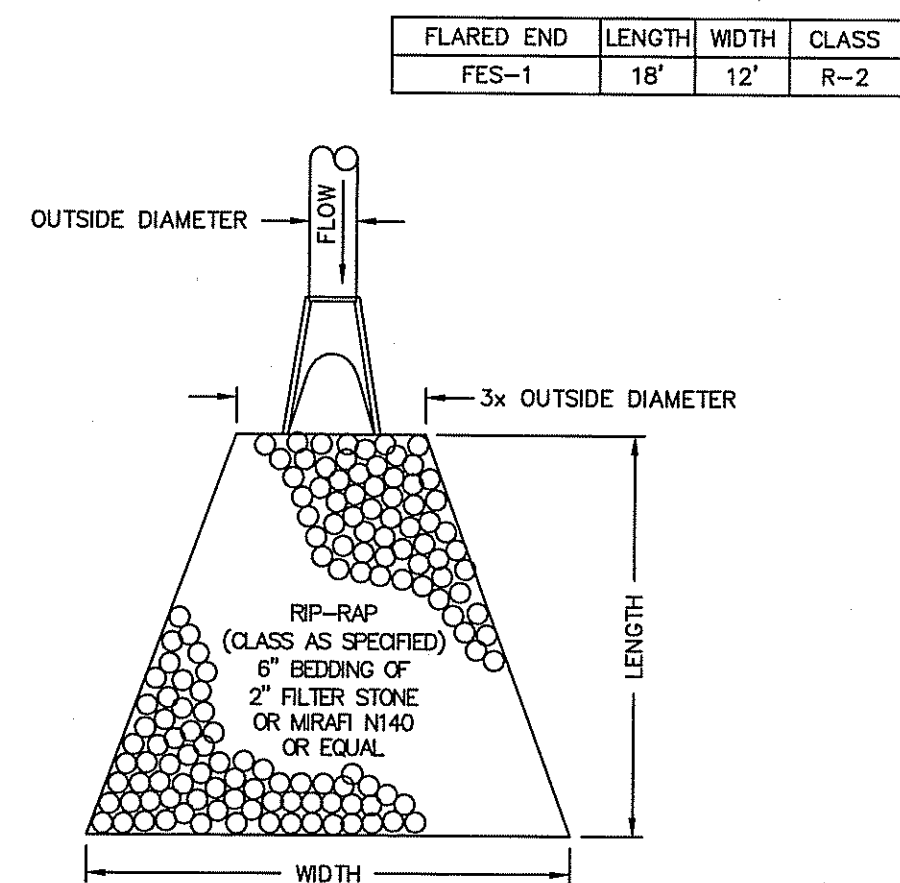
BASIN B OUTLET STRUCTURE (OS-B)
SCALE: 1"=2'



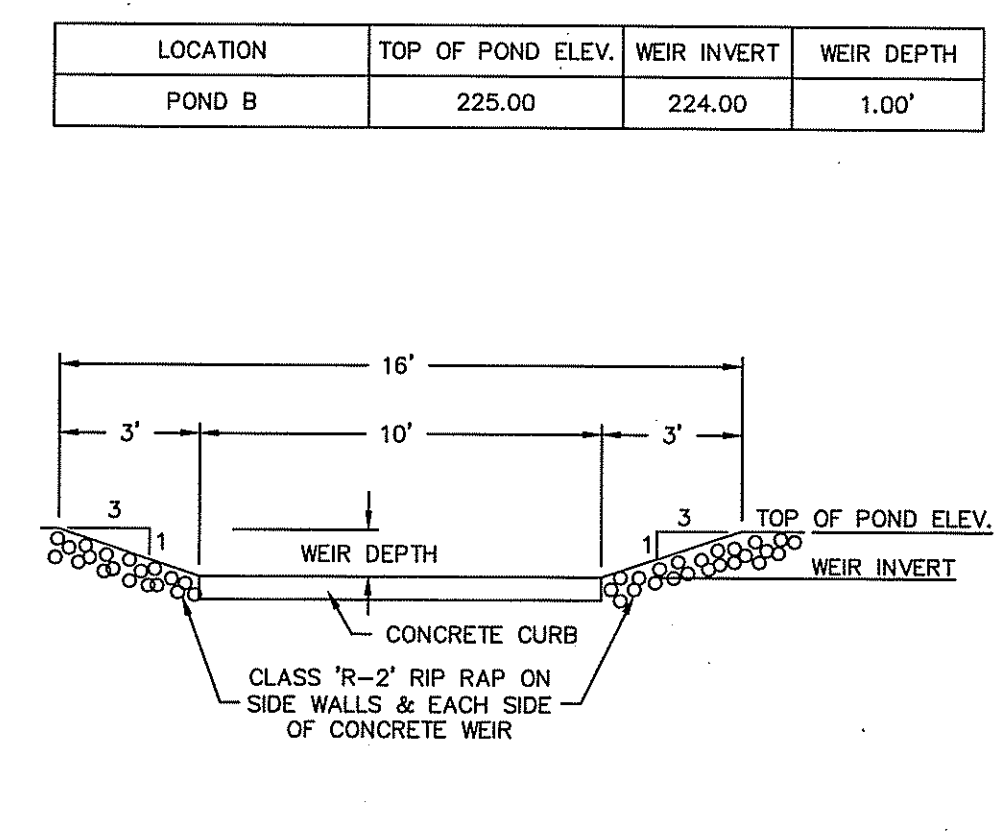
RIP-RAP APRON/ HEADWALL DETAIL
NOT TO SCALE



BASIN B WATER QUALITY OUTLET (WITH STRUCTURE)
NOT TO SCALE



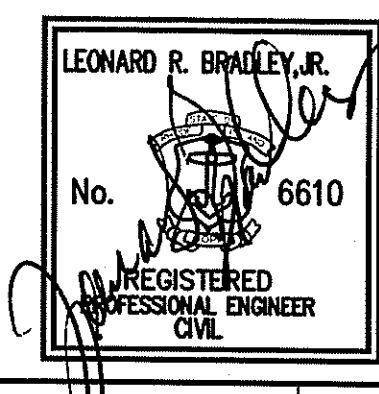
RIP-RAP APRON/ FE DETAIL
NOT TO SCALE



EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED ISSUED FOR CONSTRUCTION AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER REPRESENTATIVE.

AS SPECIFIED IN THE LETTER OF APPROVAL DATED JUN 28 2011 FILE # 07-0377 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE



Basin B Details
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AP 12A, Lot 97 East Greenwich, Rhode Island

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