

**BROWNING MILL POND**  
WATER ELEVATION = 203.0'

**LEGEND**

--- 228 ---	EXISTING CONTOUR	⊙	EXIST. UTILITY POLE
--- 220.0 ---	PROPOSED CONTOUR	D.I.P.	DUCTILE IRON PIPE
--- 227.5 ---	EXIST. SPOT GRADE	OHW	OVERHEAD UTILITY WIRES
--- 227.5 ---	PROP. SPOT GRADE	⊙	WELL
~~~~~	EXISTING TREE LINE	SE-1	SOIL EVALUATION
~~~~~	PROP. TREE LINE	xxxxx	BALED HAY EROSION CHECK
⊖	EXIST. STONE WALL	---	LIMIT OF DISTURBANCE
---	PROP. STONE WALL	⊙	EXISTING TREE TO BE PROTECTED
---	PROP. RET. WALL		
---	EXIST. GUARDRAIL		
△ A24	WETLAND EDGE		
PW	50' PERIMETER WETLAND		
RBW	200' RIVERBANK WETLAND		

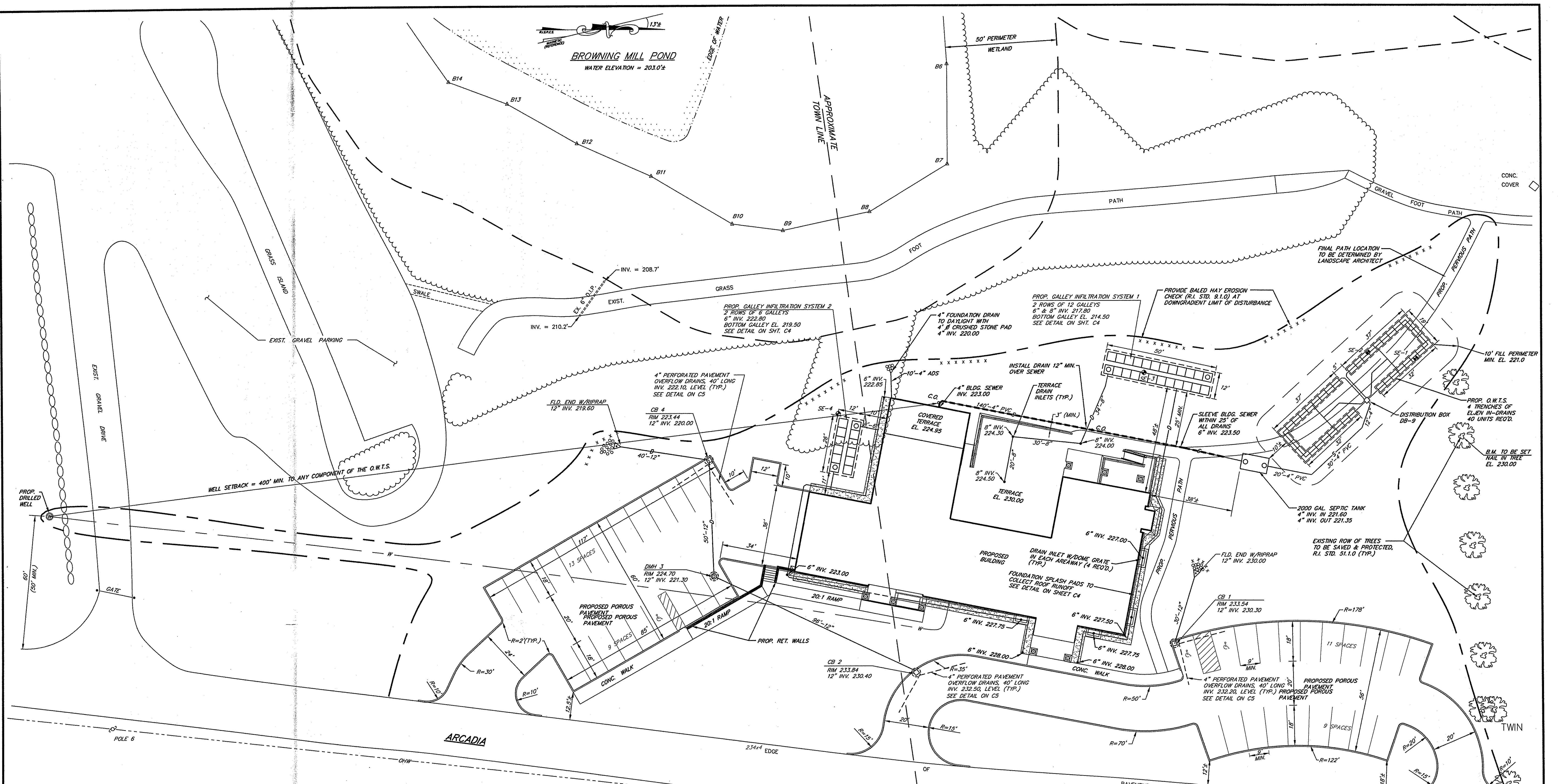
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED - MAY 30 2014 FILE # 14-0074  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hubert

PROPERTY OWNER:  
STATE OF RHODE ISLAND  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
235 PROMENADE STREET  
PROVIDENCE, RHODE ISLAND 02908

JEAN ZUGEL LAMBERT  
REGISTERED PROFESSIONAL ENGINEER  
No. 5319

DATE	REVISION	<b>RIDEM NATURAL RESOURCE CENTER</b> A.P. 1B PORTION OF LOT 50-1 ARCADIA MANAGEMENT AREA EXETER & RICHMOND, RHODE ISLAND PREPARED FOR: BURGIN LAMBERT ARCHITECTS, INC. 150 BELLEVUE AVENUE NEWPORT, RHODE ISLAND 02840	<b>GRADING &amp; DRAINAGE PLAN</b>	C-2
DWN. BY: LBC	DWG. NO. ARCADIA-GP			
BLUE SKY ENGINEERING 20 MAPLE AVENUE JAMESTOWN, R.I. 02835 (401)423-9239				
DATE: NOV. 27, 2013 SCALE: 1" = 20' SHEET 2 OF 6				



**O.W.T.S. DESIGN DATA**

DESIGN FLOW = 50 PERSONS X 15 GPD/PERSON = 750 GPD  
 SOILS IN SYSTEM AREA ARE SAND, SOIL CATEGORY 1.

DESIGN APPLICATION RATE = 0.70 GPD/S.F.  
 REQ'D. LEACHING AREA = 750 ÷ 0.70 = 1072 S.F.

EFFECTIVE LEACHING AREA = 40 ELVENS X 28 S.F./ELVEN = 1120 S.F.  
 SEE O.W.T.S. DETAILS AND NOTES ON SHEET C4.

- UTILITY NOTES:**
- LOCATIONS AND SIZES OF EXISTING UTILITIES IS PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION WITH THE APPROPRIATE UTILITY AUTHORITY AND DIG SAFE PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
  - EXPLORATORY TEST PITS SHALL BE EXCAVATED TO CONFIRM LOCATION AND DEPTH AT ANY CRITICAL AREAS, AS REQUIRED.
  - ALL O.W.T.S. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RIDEM O.W.T.S. PERMIT NO. 1311-1469.
  - THE O.W.T.S. INSTALLATION MUST BE INSPECTED AND APPROVED BY BLUE SKY ENGINEERING. THE INSTALLER MUST PROVIDE 48 HOURS NOTICE TO BLUE SKY ENGINEERING FOR ALL REQUIRED INSPECTIONS.
  - BUILDING SEWER LOCATIONS AND ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. ANY DEVIATION IN LOCATION AND ELEVATION FROM THE APPROVED O.W.T.S. PLANS MUST BE APPROVED BY BLUE SKY ENGINEERING. O.W.T.S. SHALL BE LAID OUT BY PROJECT SURVEYOR.
  - WATER LINES SHALL BE INSTALLED A MINIMUM OF 25' FROM THE O.W.T.S.
  - CABLE, ELECTRIC AND TELEPHONE SERVICES SHALL BE AS PER APPROPRIATE UTILITY AUTHORITY.
  - UTILITY SERVICE INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
  - SEE ELECTRICAL & LIGHTING PLANS FOR POWER SERVICE, SITE LIGHTING, TELEPHONE, CABLE AND WIRING DETAILS.
  - LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING ARCHITECTURAL PLANS.

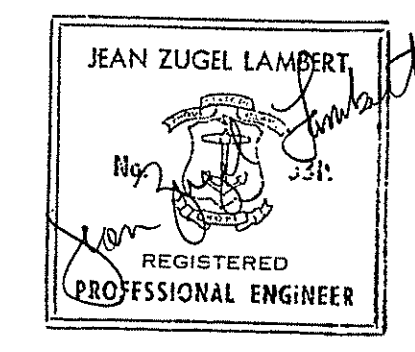
**LEGEND**

	EXISTING TREE LINE		EXIST. UTILITY POLE
	PROP. TREE LINE		D.I.P. DUCTILE IRON PIPE
	EXIST. STONE WALL		OVERHEAD UTILITY WIRES
	PROP. RET. WALL		WELL
	EXIST. GUARDRAIL		SOIL EVALUATION
	WETLAND EDGE		BALED HAY EROSION CHECK
	50' PERIMETER WETLAND		LIMIT OF DISTURBANCE
	200' RIVERBANK WETLAND		EXISTING TREE TO BE PROTECTED

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED MAY 3 0 2014 FILE # 14-0076  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Harter*

PROPERTY OWNER:  
 STATE OF RHODE ISLAND  
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 235 PROMENADE STREET  
 PROVIDENCE, RHODE ISLAND 02908



DATE	REVISION

DWN. BY: LBC      DWG. NO. ARCADIA-SL

BLUE SKY ENGINEERING  
 20 MAPLE AVENUE  
 JAMESTOWN, R.I. 02835  
 (401)423-9239

**RIDEM NATURAL RESOURCE CENTER**

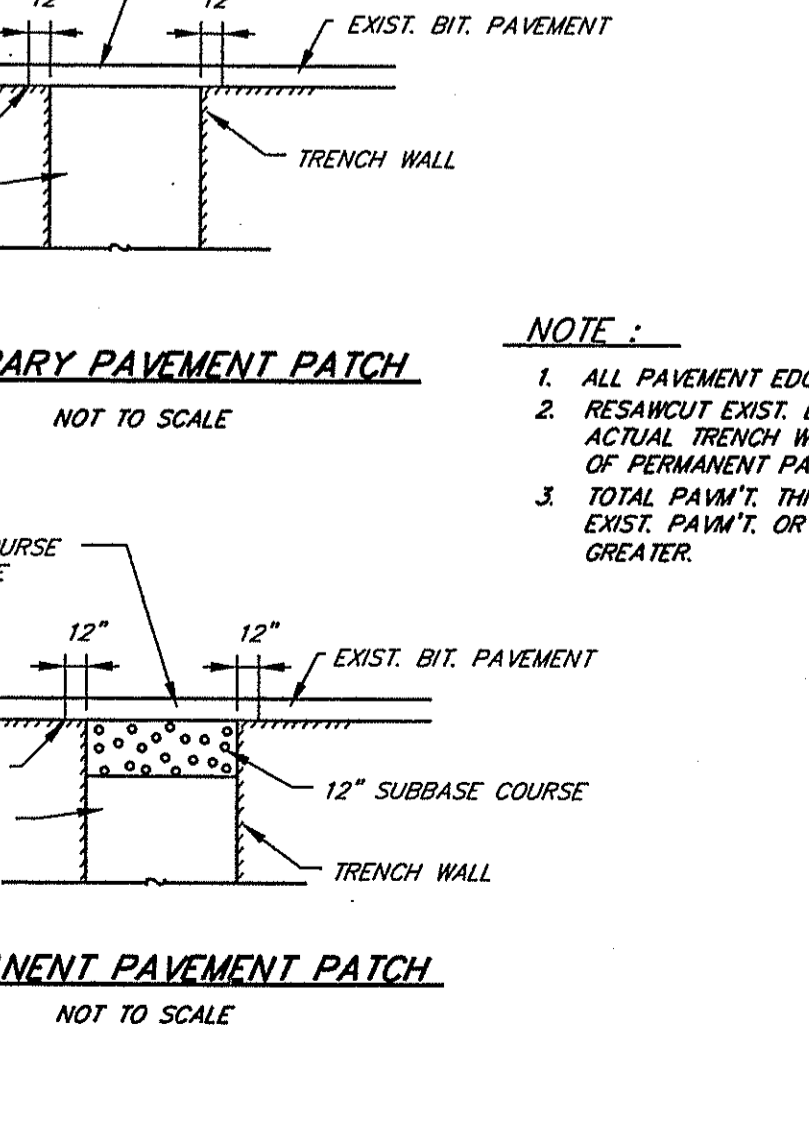
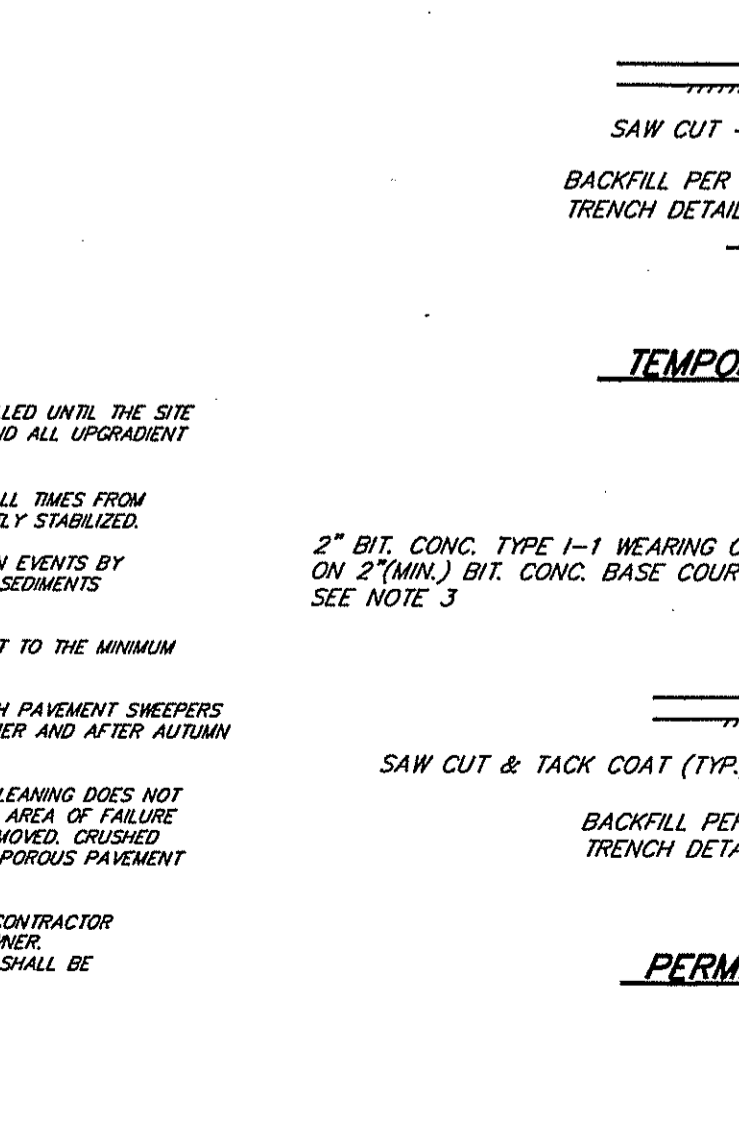
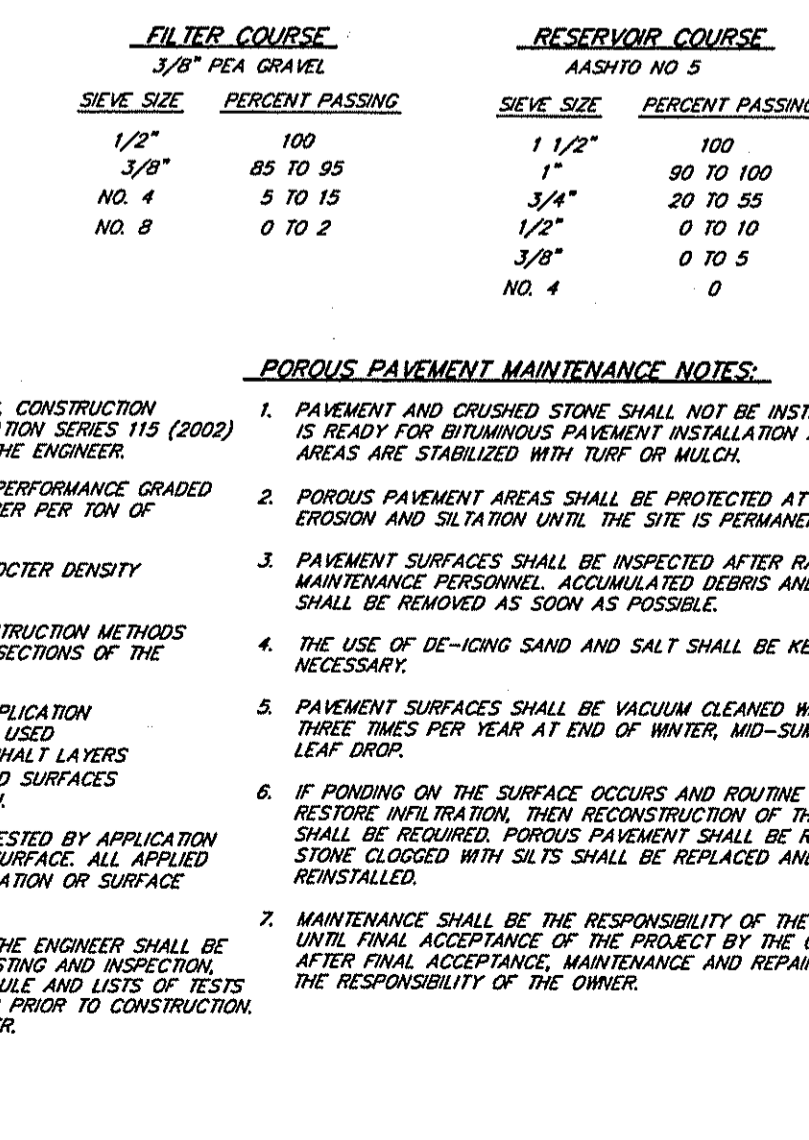
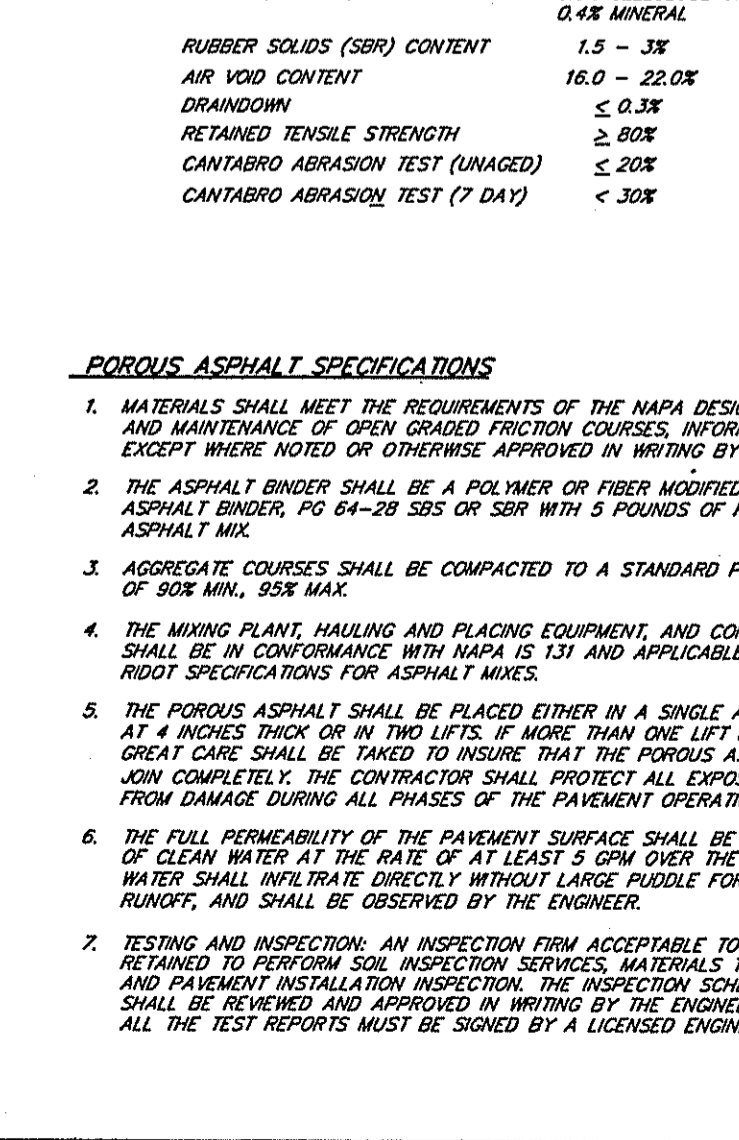
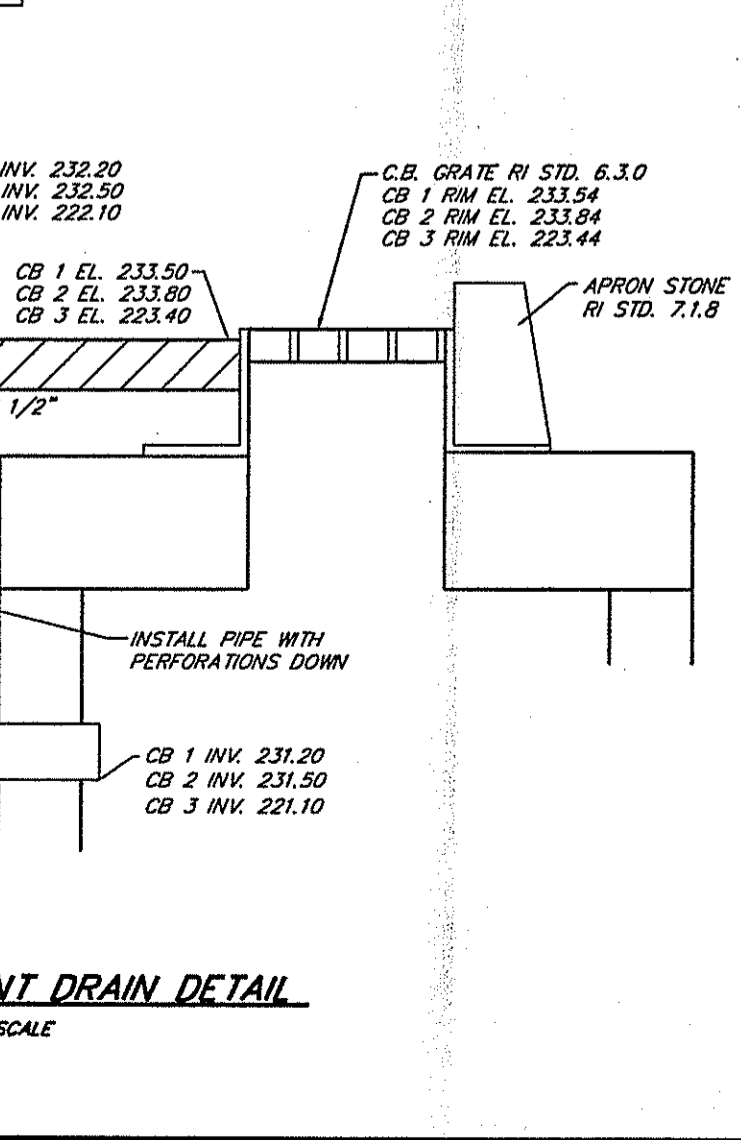
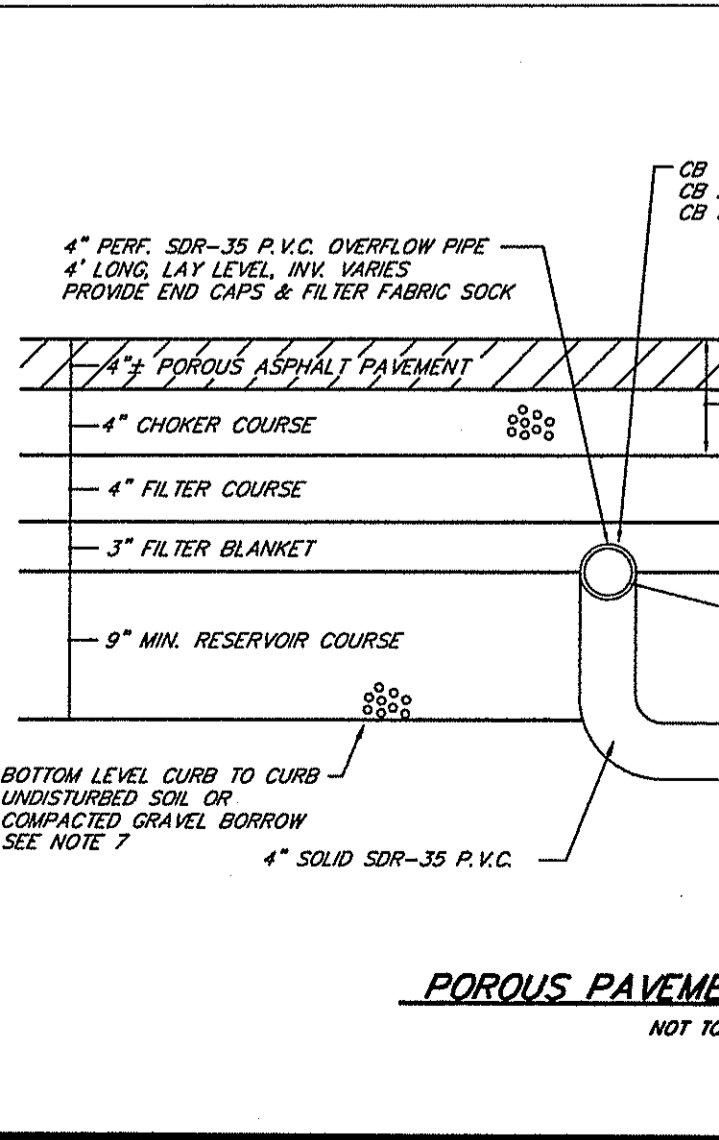
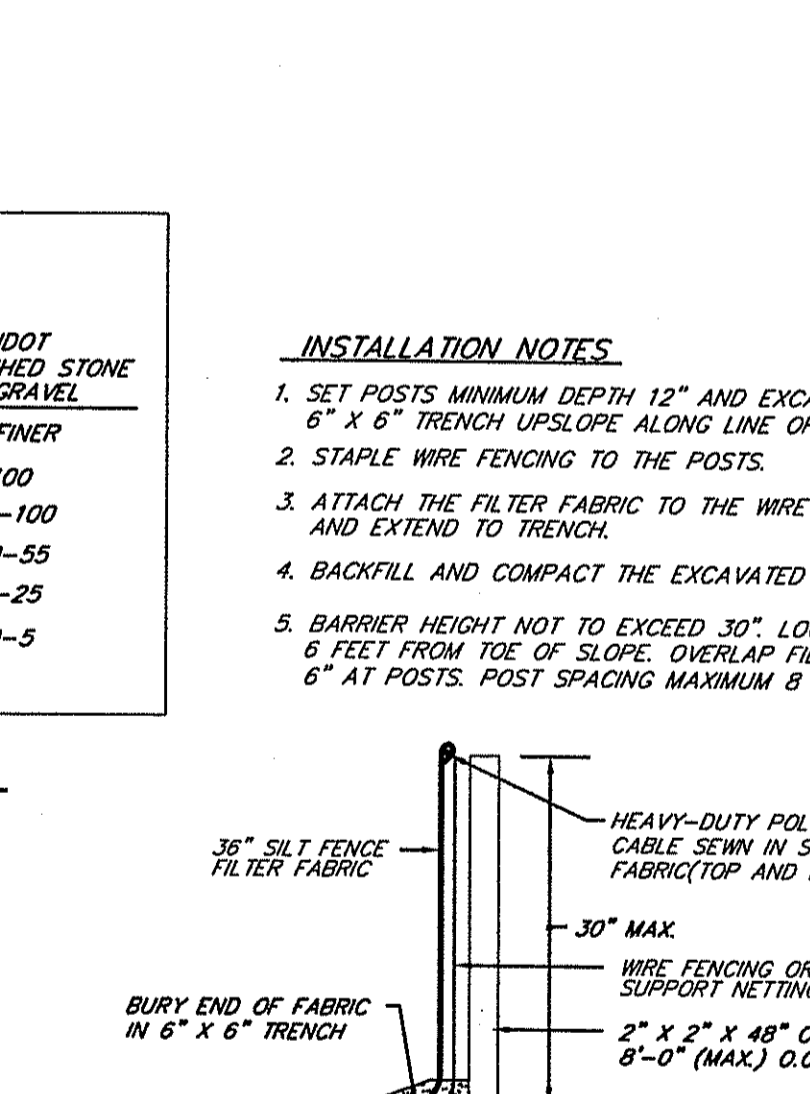
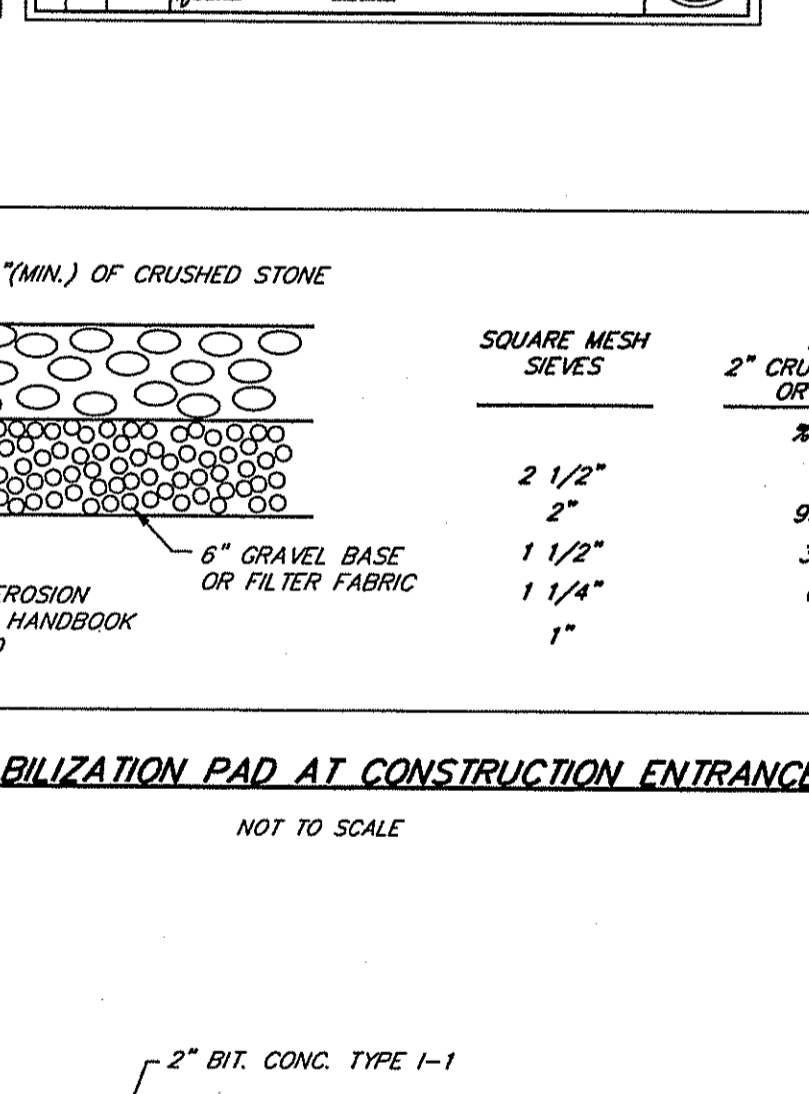
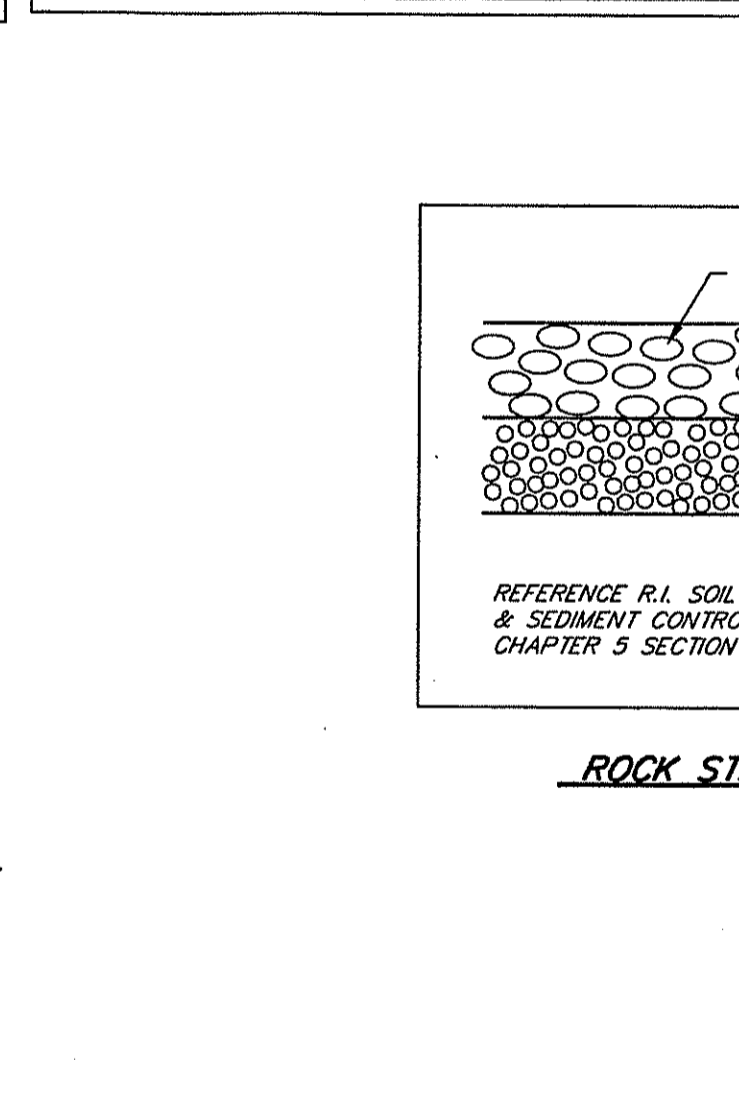
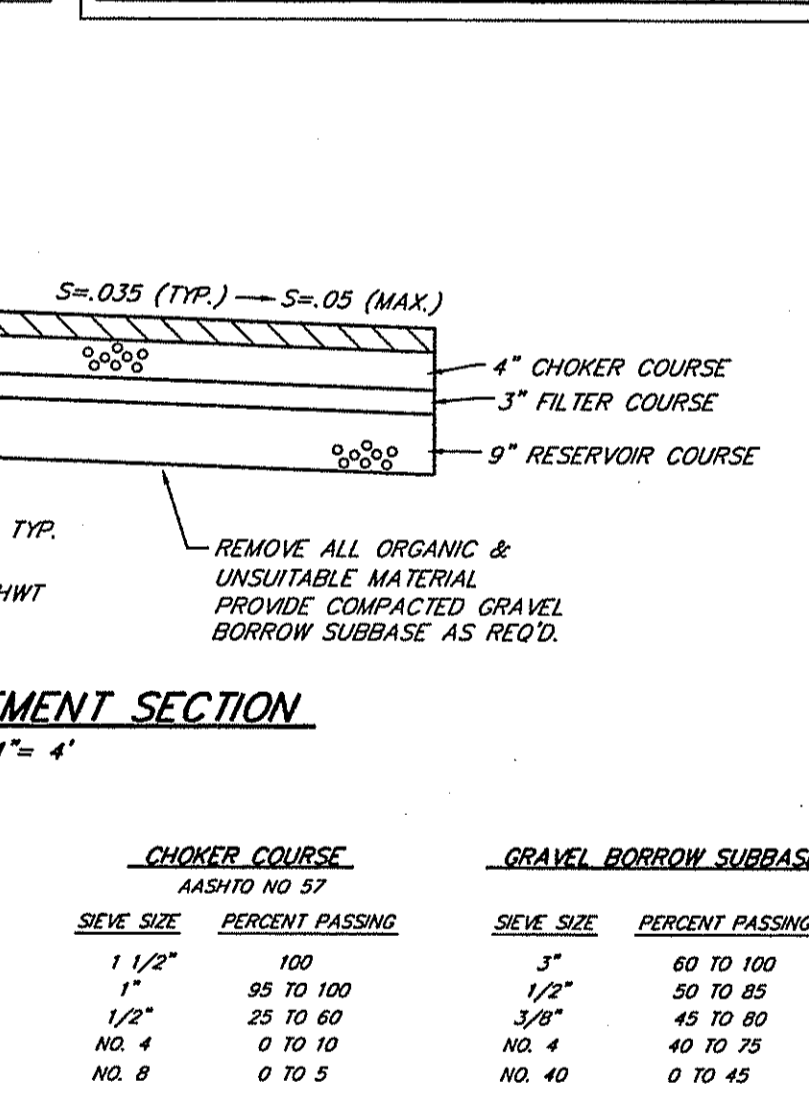
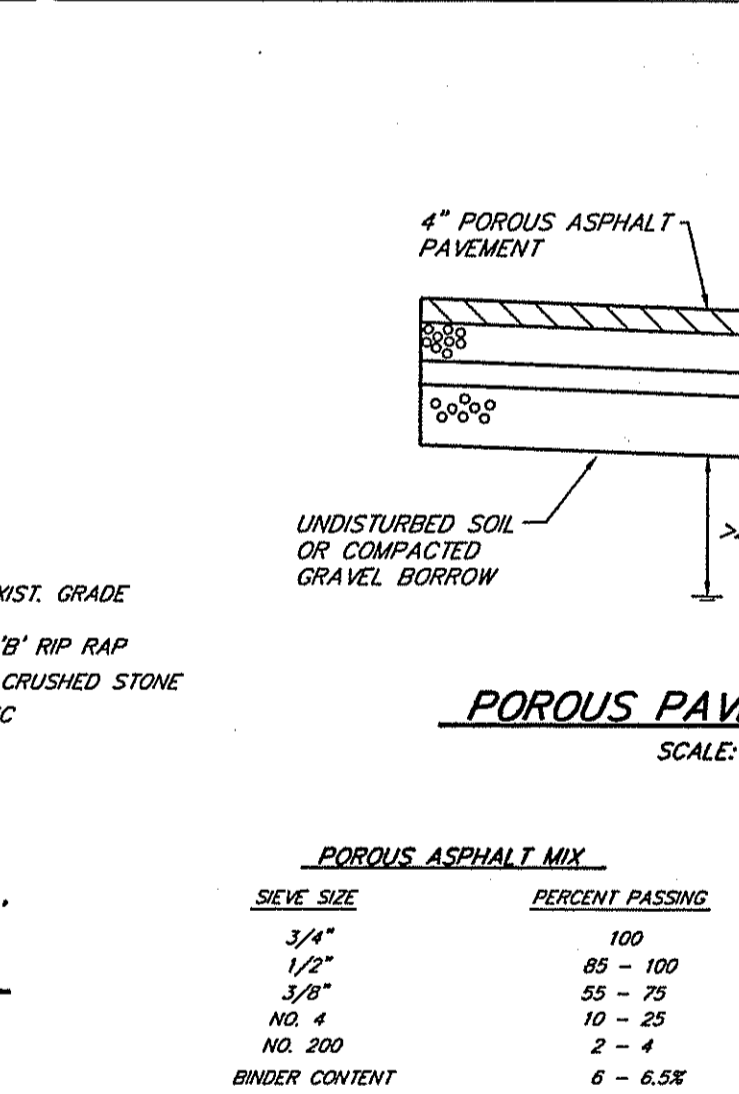
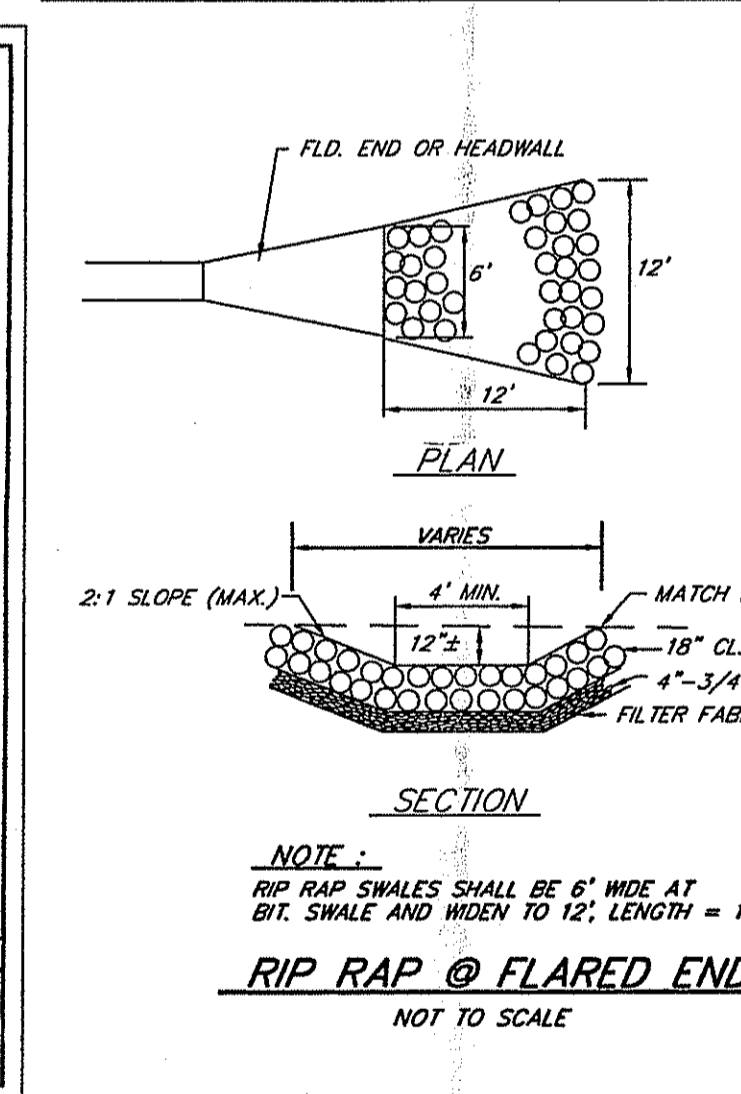
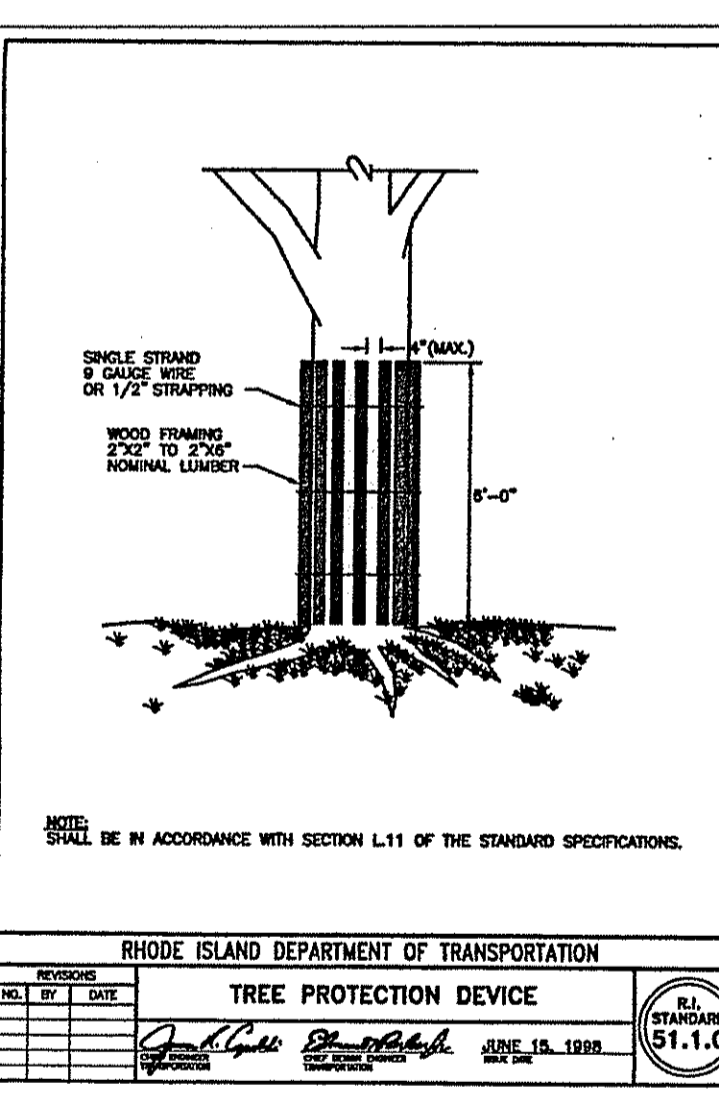
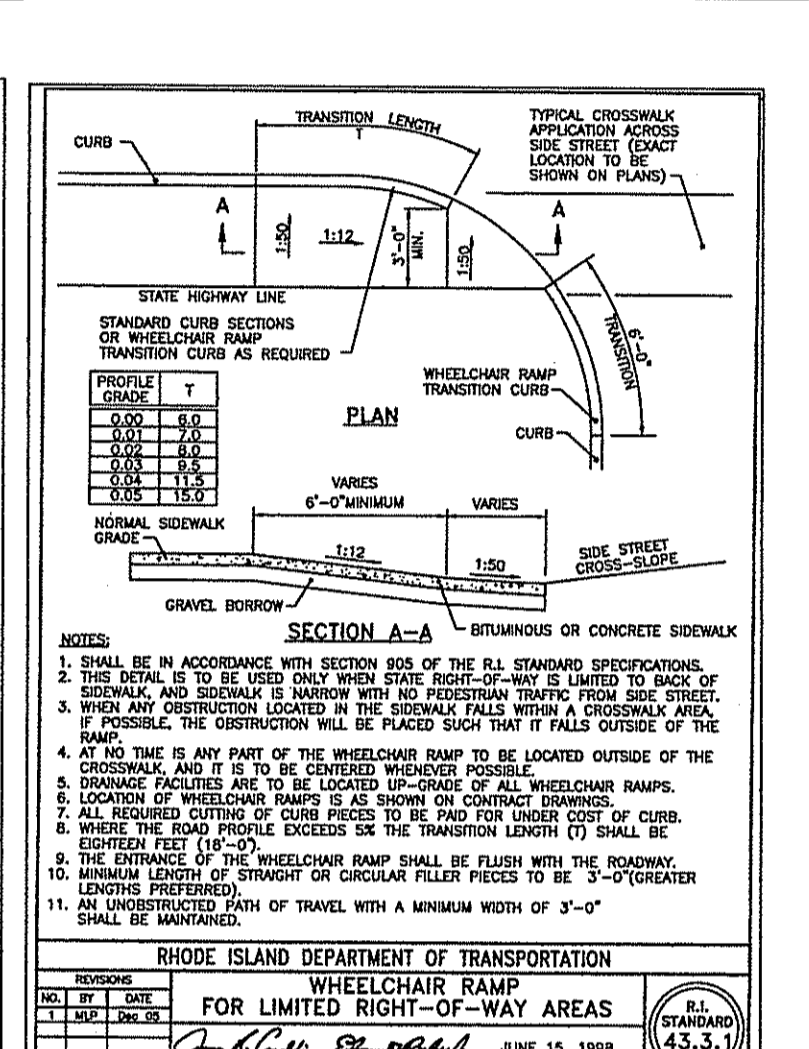
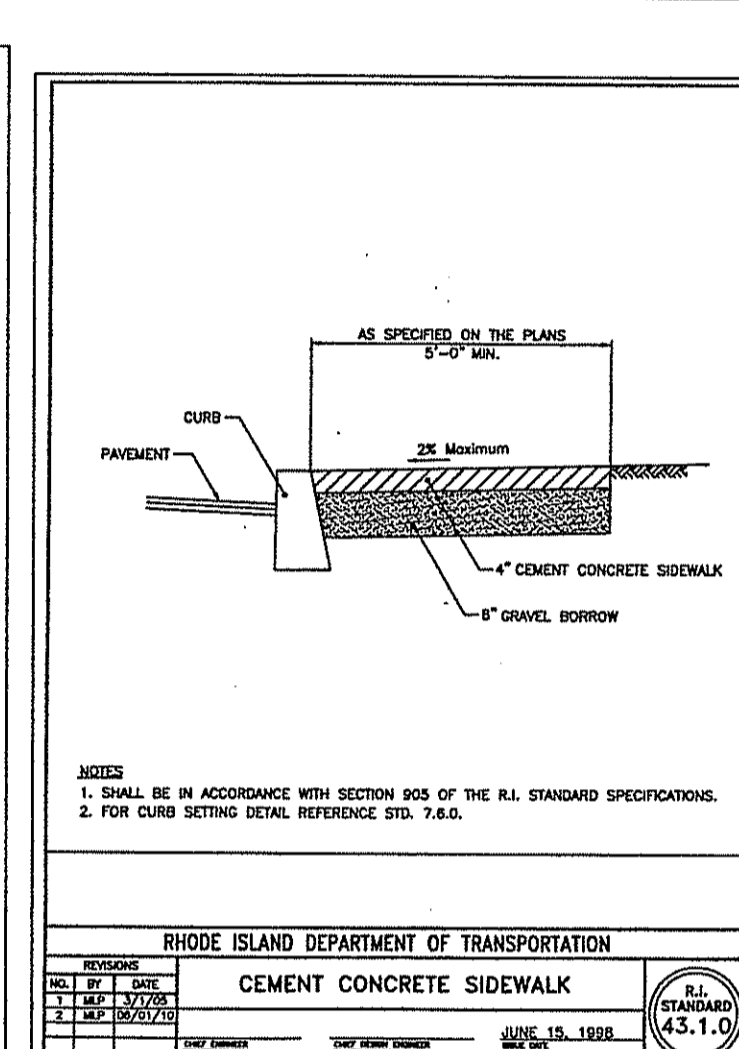
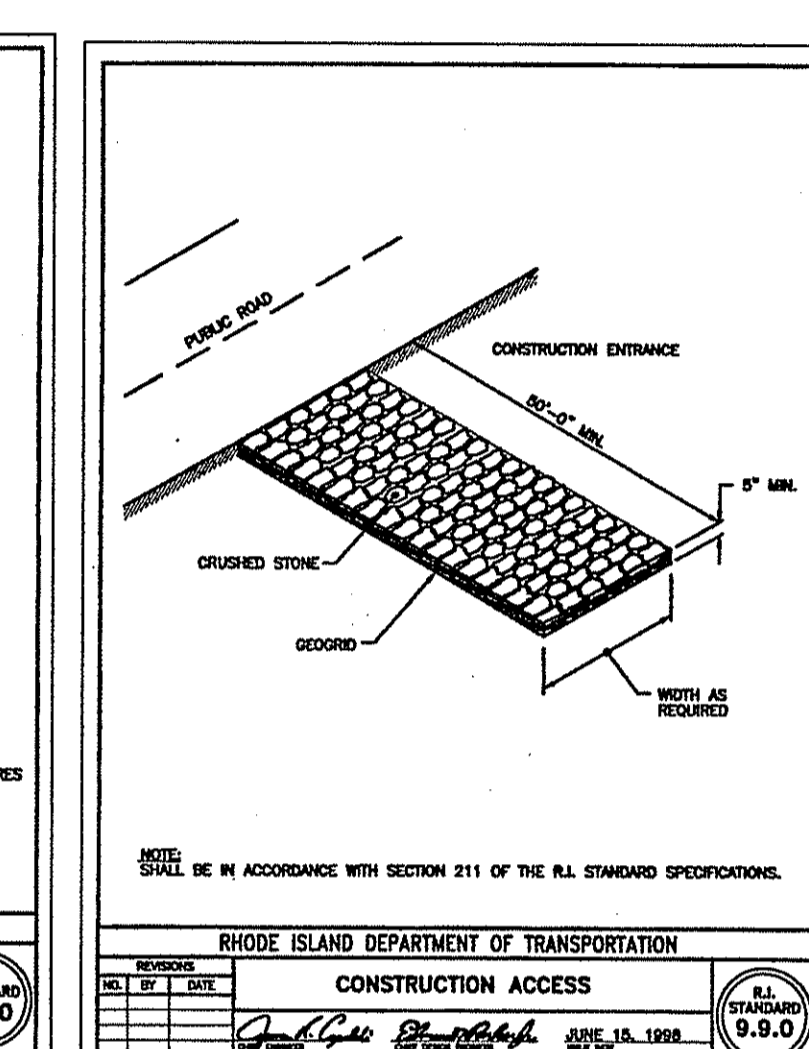
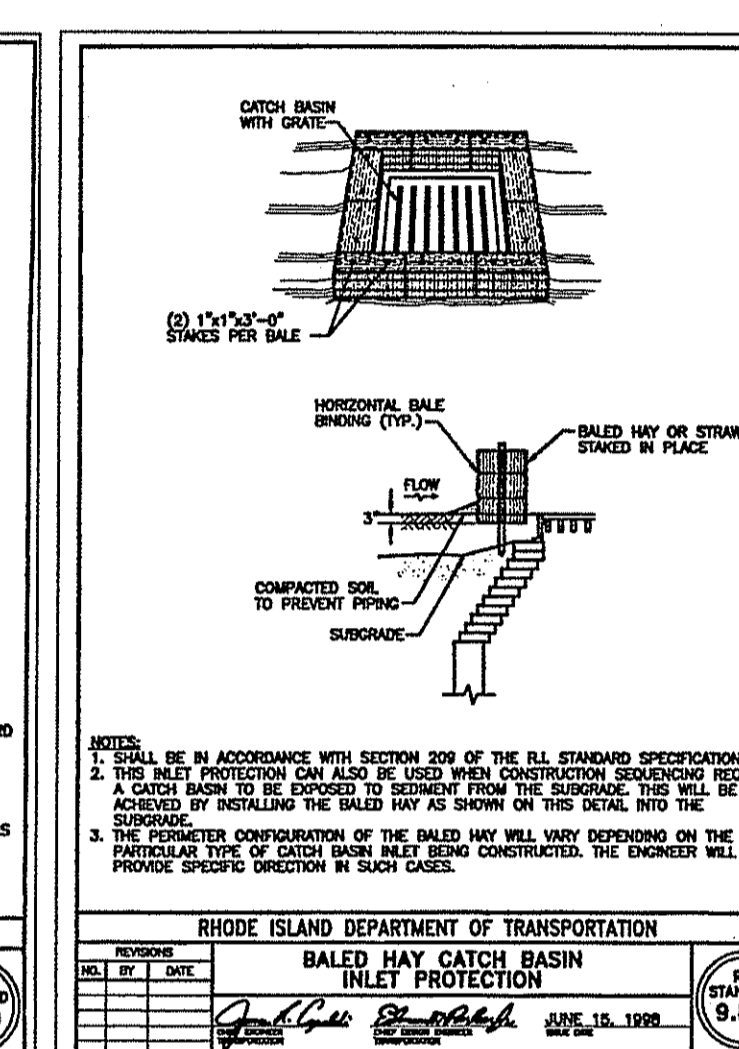
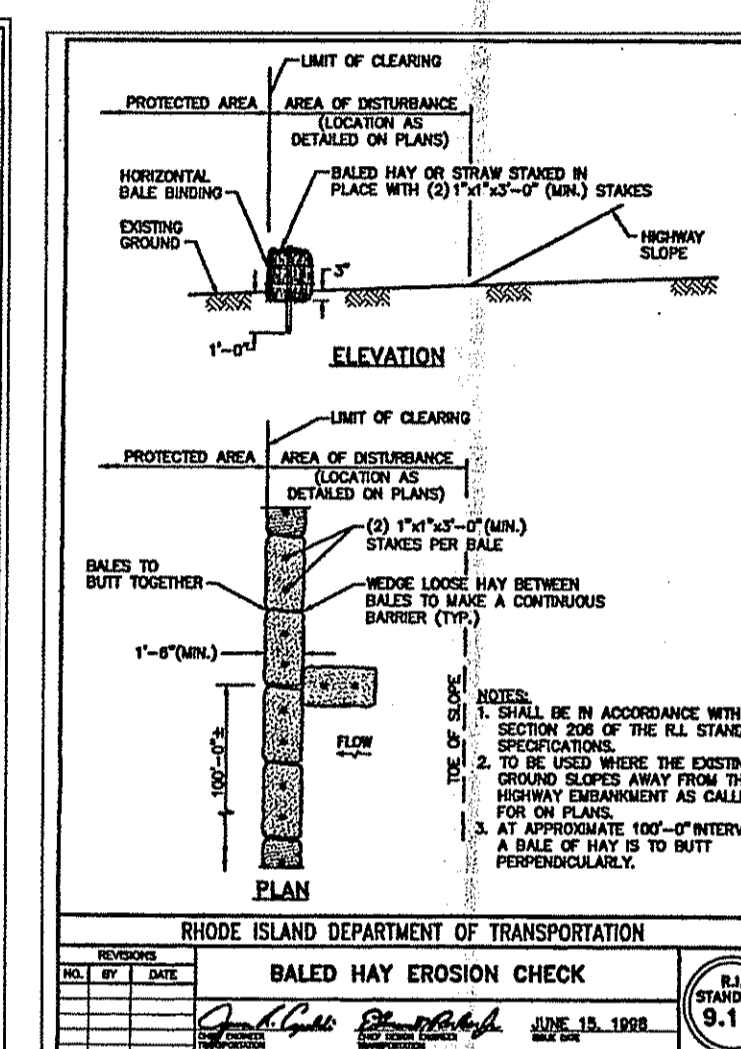
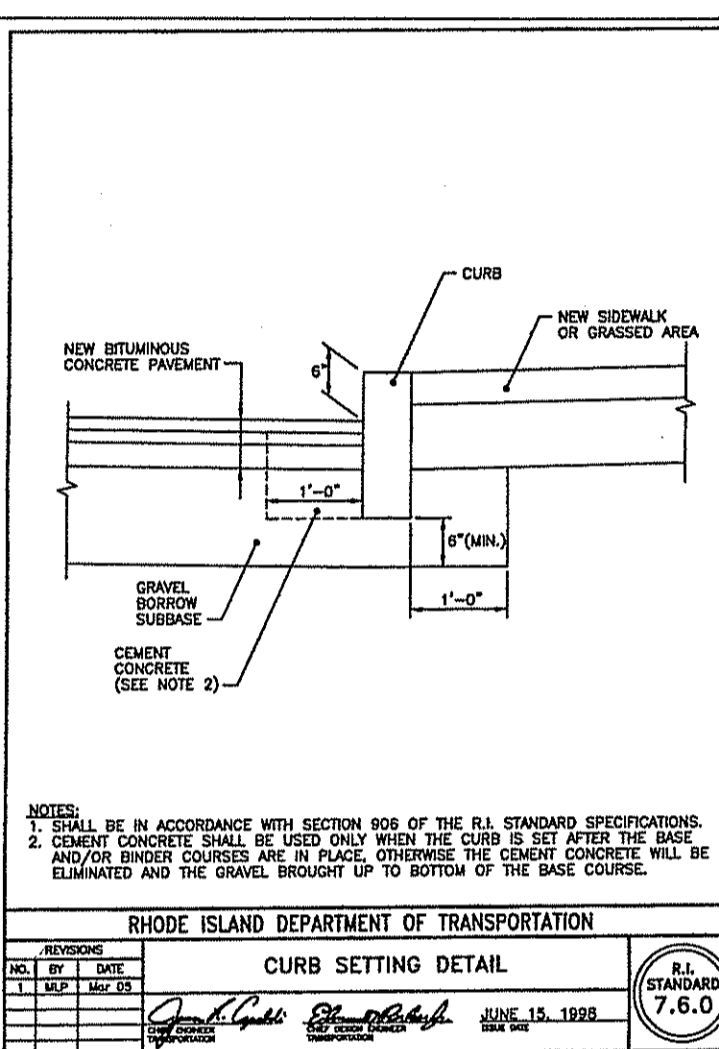
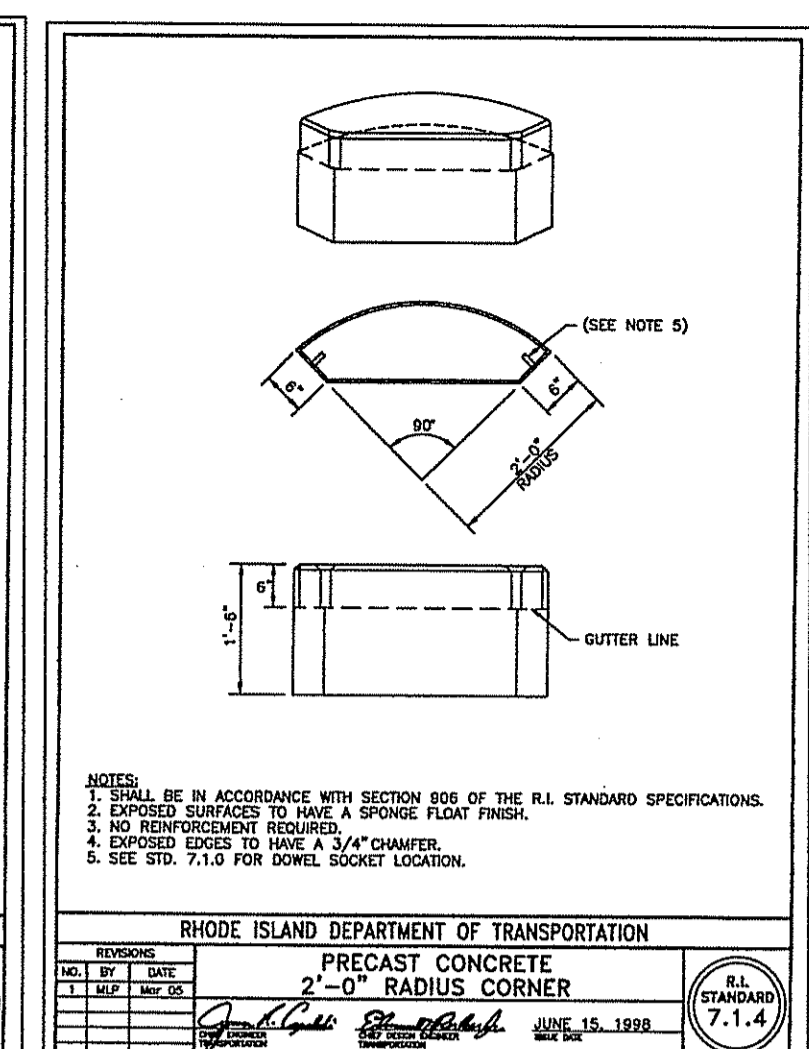
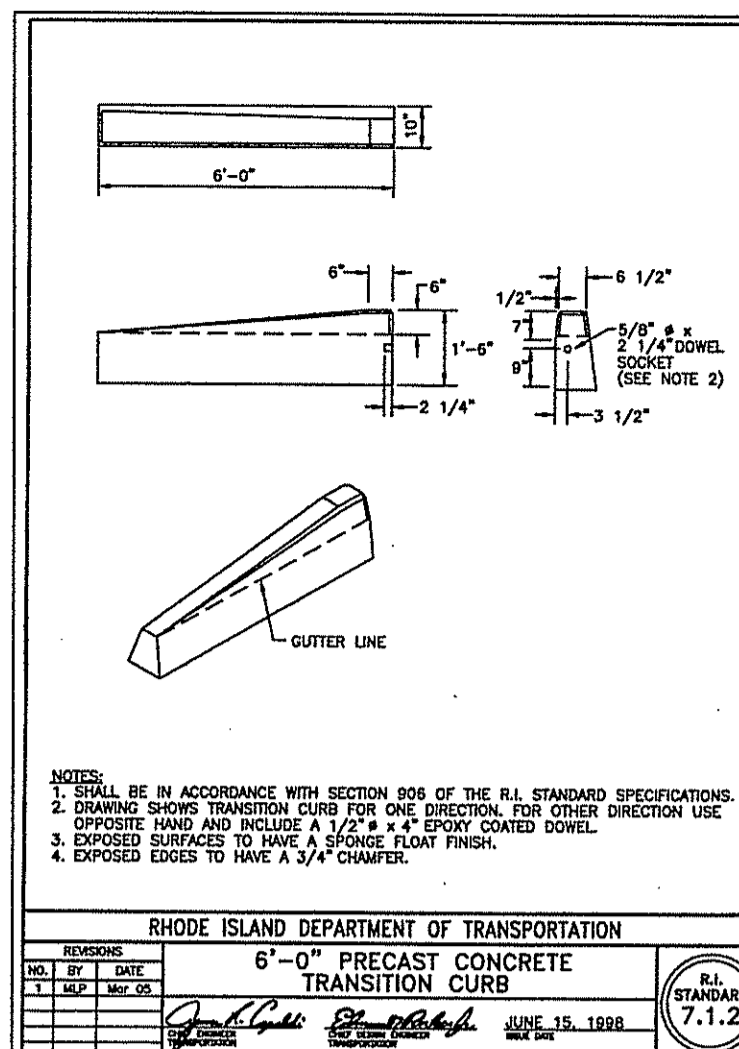
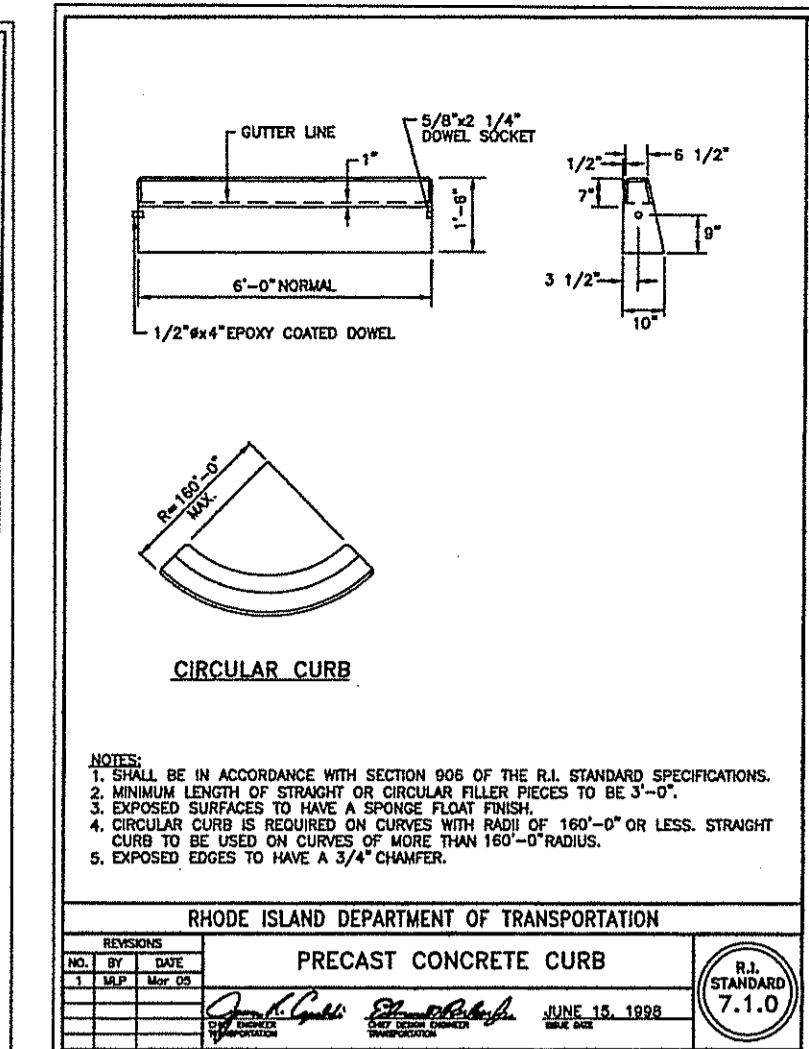
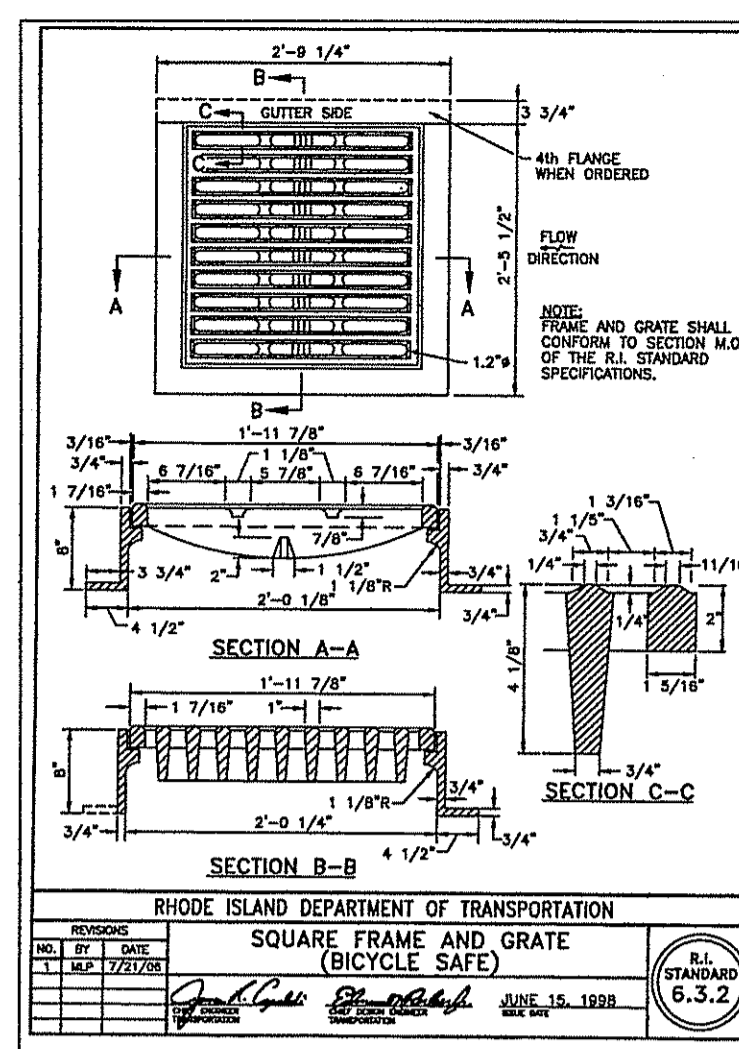
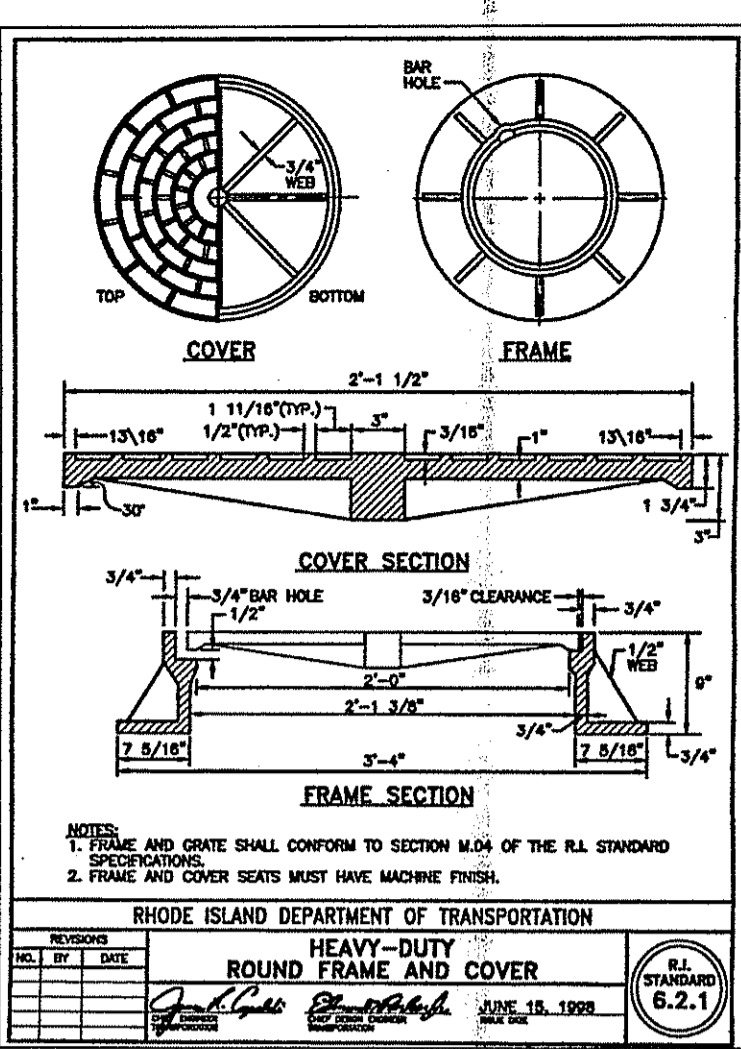
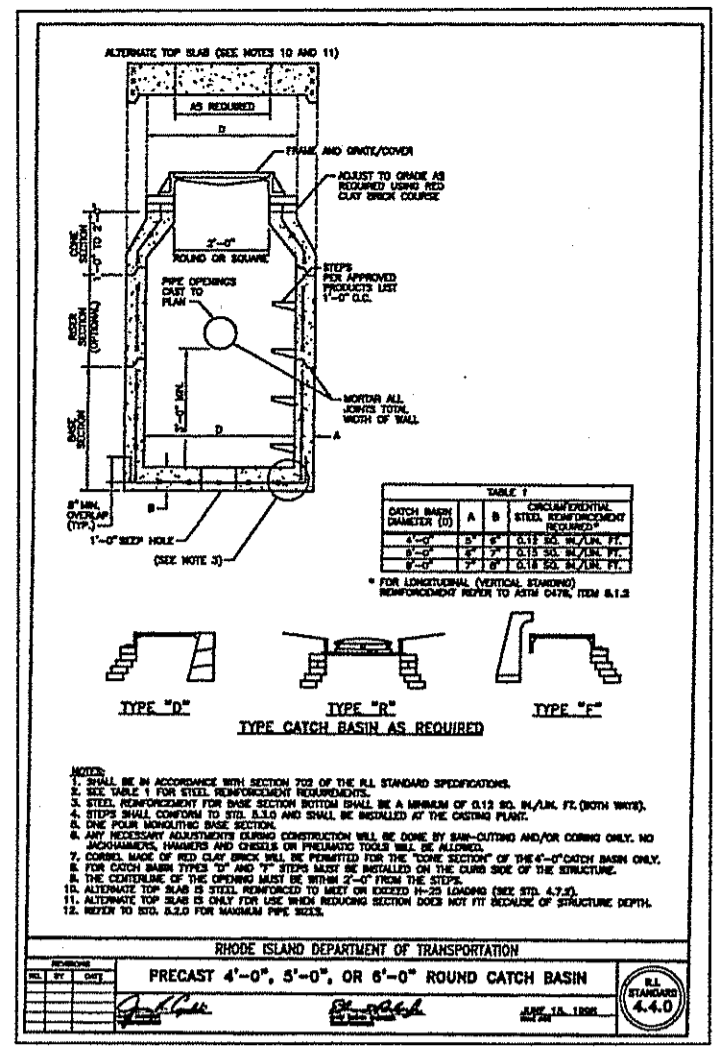
A.P. 18 PORTION OF LOT 50-1  
 ARCADIA MANAGEMENT/AREA  
 EXETER & RICHMOND, RHODE ISLAND

PREPARED FOR:  
 BURGIN LAMBERT ARCHITECTS, INC.  
 150 BELLEVUE AVENUE  
 NEWPORT, RHODE ISLAND 02840

**SITE LAYOUT PLAN**      C-3

DATE: NOV. 27, 2013    SCALE: 1"= 20'    SHEET 3 OF 6





**GENERAL NOTES**

- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEC. 2010 EDITION, WITH ALL REVISIONS AND THE R.I. STD. DETAILS, DEC. 1, 2010 EDITION, WITH ALL REVISIONS.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEEDED. SEE EROSION CONTROL PROGRAM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL STATE AND TOWN REGULATIONS AND PERMITS.
- THE TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, WITH ALL REVISIONS.

**EROSION CONTROL & SOIL STABILIZATION PROGRAM**

- DEVELOPED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- THE TOP SOIL 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.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:
 

A. MOVED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)		
MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL	200 LBS./AC	
- UNMOVED AREA OF INFREQUENTLY MOVED (FLAT OR SLOPES GREATER THAN 3:1)
 

MIXTURE	% BY WT.	SEEDING DATES
FALL FESCUE	70	APRIL 1 - JUNE 15
PERENNIAL BENTGRASS	5	AUG. 15 - OCT. 15
PERENNIAL RYEGRASS	10	
GRASSBERRY TREFOIL	15	
TOTAL	100 LBS./AC	
- CONSERVATION SEEDING AREAS
 

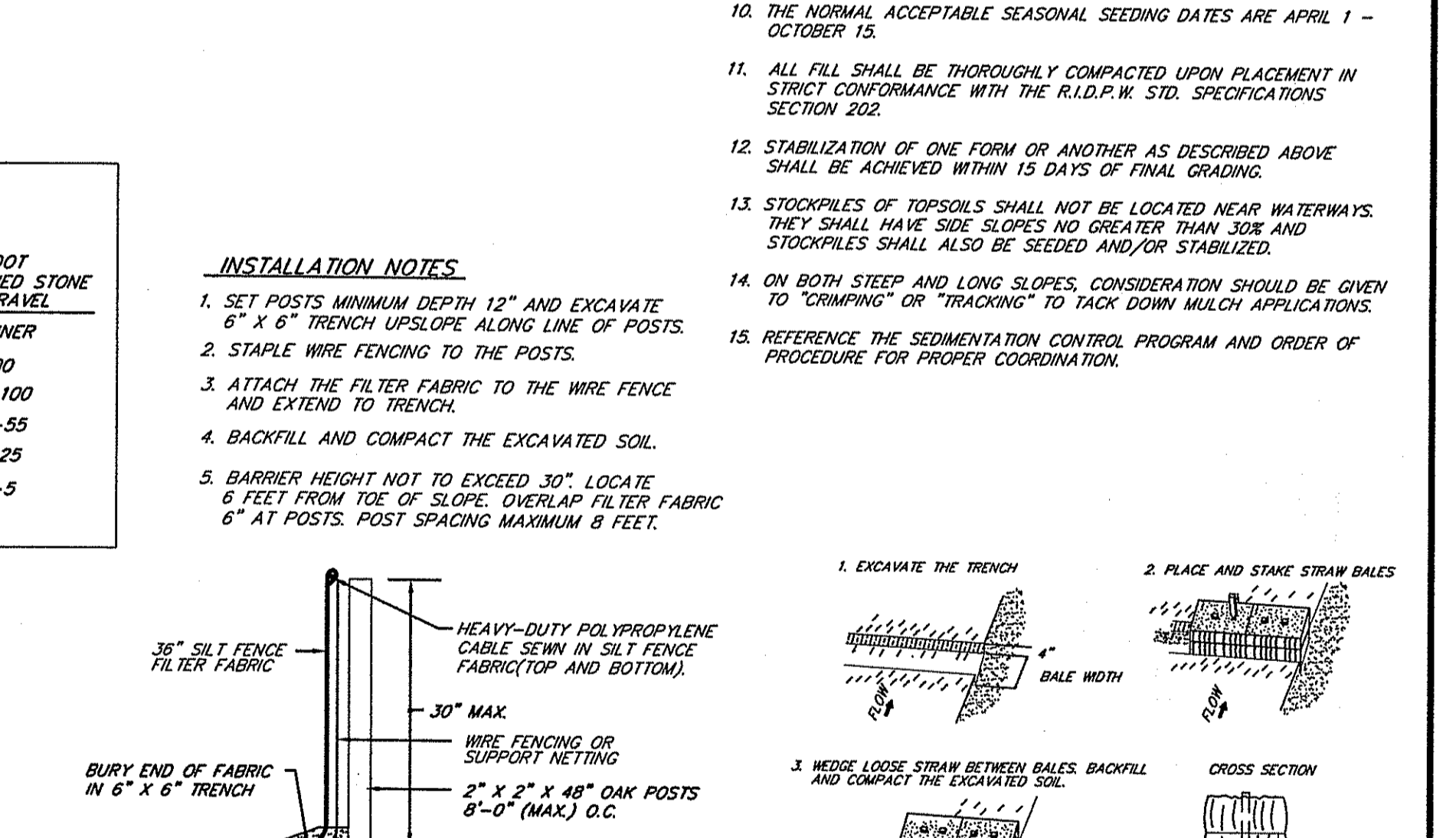
MIXTURE	% BY WT.	SEEDING DATES
FALL FESCUE	32	APRIL 1 - JUNE 15
RED FESCUE	24	AUG. 15 - OCT. 15
PERENNIAL RYEGRASS	19	
WILDFLOWER MIX	15	
REDTOP	4	
TOTAL	200 LBS./AC	

**ORDER OF PROCEDURE**

- PRIOR TO ANY CONSTRUCTION OR EXCAVATION, HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE PROPERTY LINE OR LIMIT OF DISTURBANCE. TEMPORARY HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
- IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
- TEMPORARY HAYBALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
- HAYBALES LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

**INSTALLATION NOTES**

- SET POSTS MINIMUM DEPTH 12" AND EXCAVATE 6" x 6" TRENCH UPSLOPE ALONG LINE OF POSTS.
- STAPLE WIRE FENCING TO THE POSTS.
- ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND TO TRENCH.
- BACKFILL AND COMPACT THE EXCAVATED SOIL.
- BARRIER HEIGHT NOT TO EXCEED 30". LOCATE 6 FEET FROM TOE OF SLOPE. OVERLAP FILTER FABRIC 6" AT POSTS. POST SPACING MAXIMUM 8 FEET.



**DEPARTMENT OF ENVIRONMENT & NATURE RESOURCES**

**FRESHWATER WETLANDS PROGRAM**

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: MAY 3 0 2014 FILE # 14-0076

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

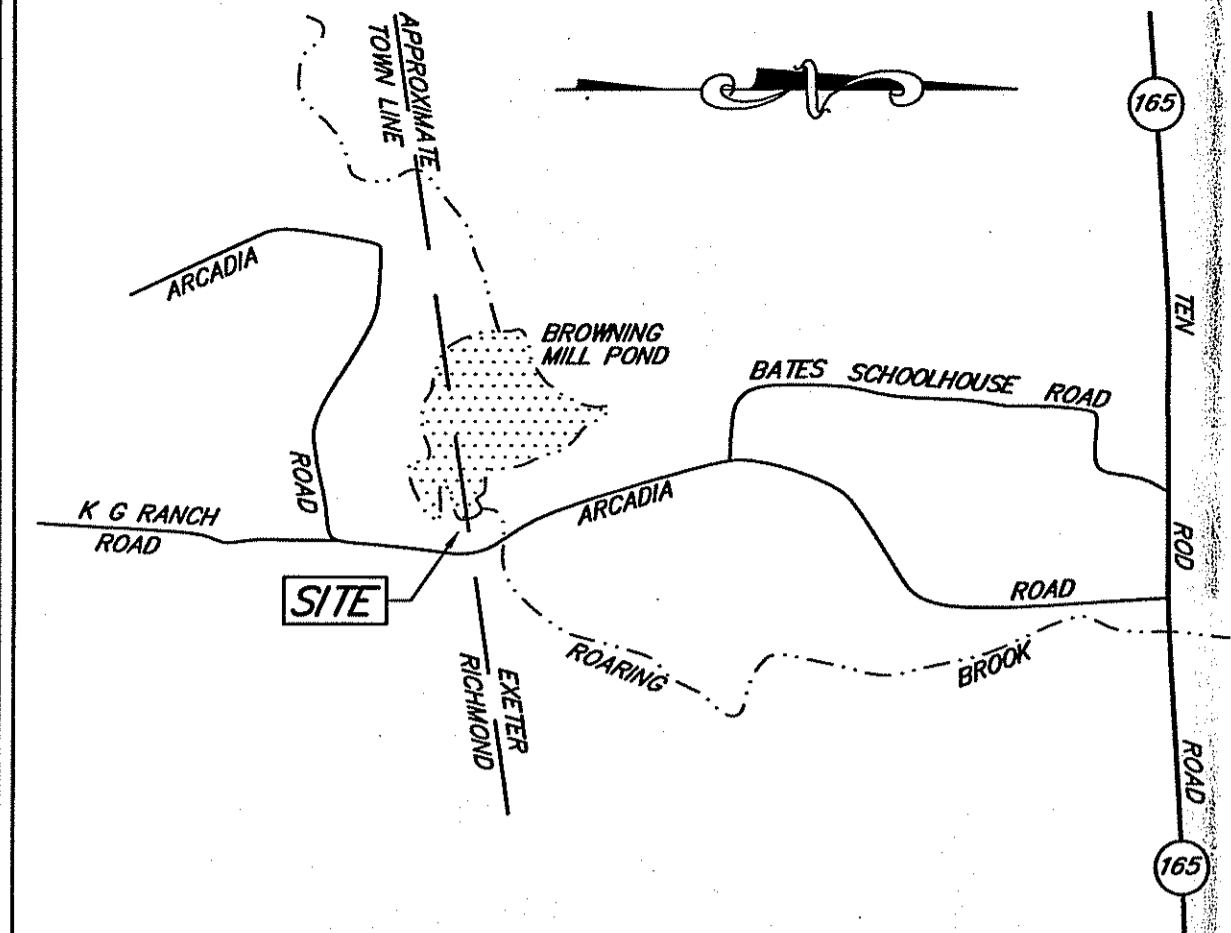
Charles H. Lambert

**RIDEM NATURAL RESOURCE CENTER**

A.P. 1B PORTION OF LOT 50-1  
ARCADIA MANAGEMENT AREA  
EXETER & RICHMOND, RHODE ISLAND

PREPARED FOR:  
BURGIN LAMBERT ARCHITECTS, INC.  
150 BELLEVUE AVENUE  
NEWPORT, RHODE ISLAND 02840

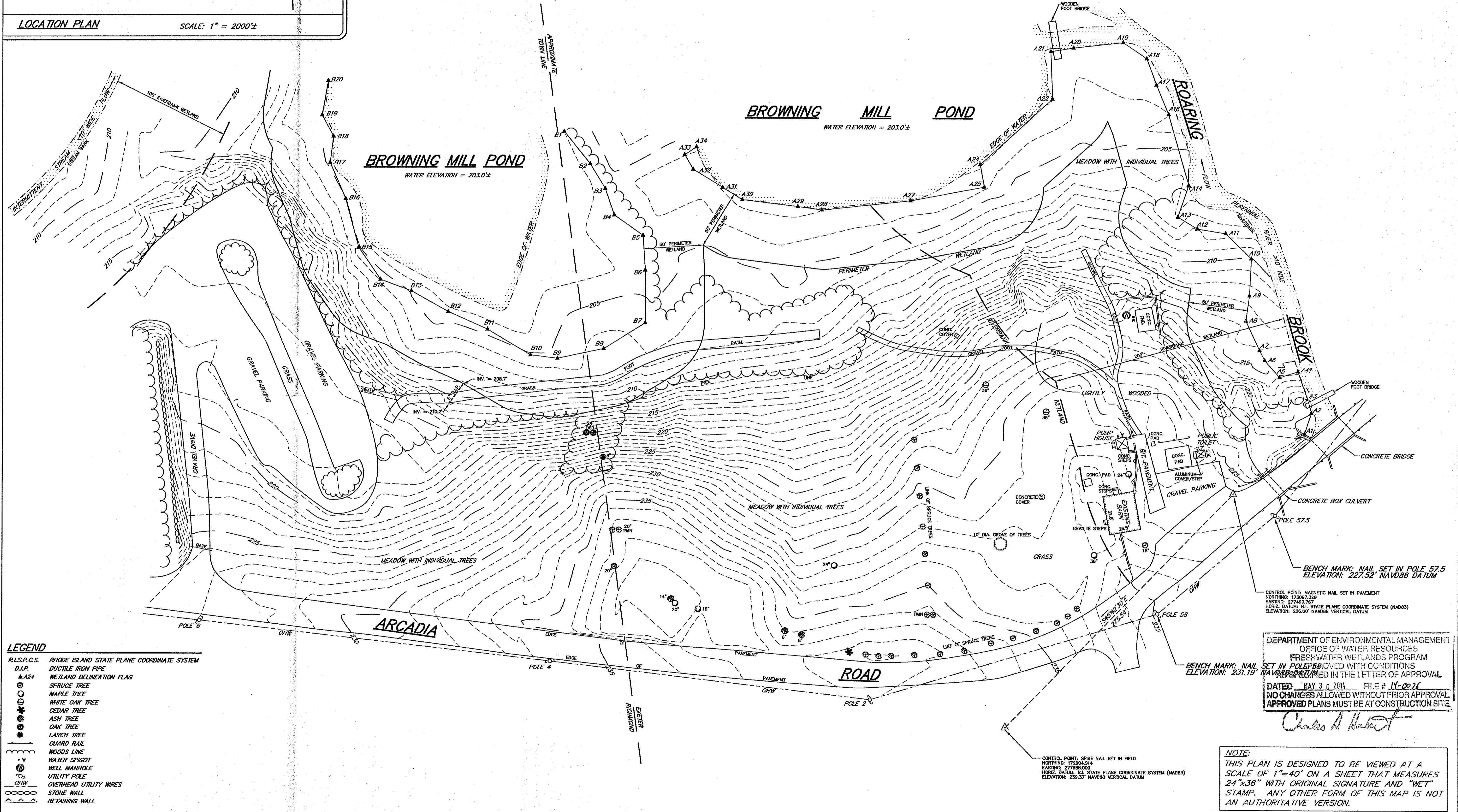
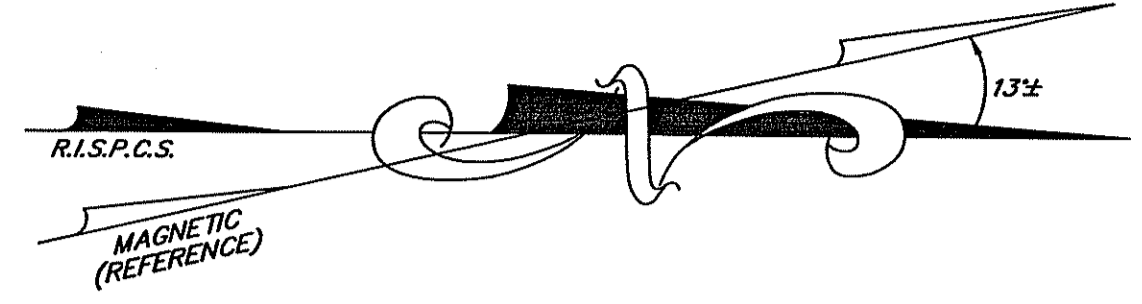
DATE: NOV. 27, 2013 SCALE: AS NOTED SHEET 5 OF 6



LOCATION PLAN SCALE: 1" = 2000'±

**NOTES**

- HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED BY THE USE OF HIGH-ORDER GPS EQUIPMENT. TOPOGRAPHIC SURVEY AND THE LOCATION OF FEATURES WAS CONDUCTED IN PART BY GPS DATA COLLECTION AND IN PART BY CONVENTIONAL (TOTAL STATION) SURVEYING METHODS. NO PORTION OF THIS MAP WAS COMPILED FROM THIRD PARTY SOURCES.
- THE LOCATION OF THE TOWN LINE IS APPROXIMATE.
- WETLAND DELINEATION WAS CONDUCTED BY NATURAL RESOURCE SERVICES, INC. OF HARRISVILLE, R.I. IN JANUARY 2011. DUE TO SNOW COVER AT THE TIME OF THE DELINEATION, NATURAL RESOURCE SERVICES, INC. WILL REVIEW THE DELINEATED EDGES AT SUCH TIME AS THOSE EDGES BECOME CRUCIAL TO PROJECT DESIGN GOALS.



**LEGEND**

R.I.S.P.C.S.	RHODE ISLAND STATE PLANE COORDINATE SYSTEM
D.I.P.	DUCTILE IRON PIPE
▲ A24	WETLAND DELINEATION FLAG
○	SPRUCE TREE
○	MAPLE TREE
○	WHITE OAK TREE
○	CEDAR TREE
○	ASH TREE
○	OAK TREE
○	LARCH TREE
○	GUARD RAIL
○	WOODS LINE
○	WATER SHOOTS
○	WELL MANHOLE
○	UTILITY POLE
○	OVERHEAD UTILITY WIRES
○	STONE WALL
○	RETAINING WALL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS ADAPTED BY THE RHODE ISLAND STATE BOARD OF PROFESSIONAL LAND SURVEYORS  
IN THE LETTER OF APPROVAL  
DATED MAY 3 0 2014 FILE # 14-0276  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Horvath*

**NOTE:**  
THIS PLAN IS DESIGNED TO BE VIEWED AT A SCALE OF 1"=40' ON A SHEET THAT MEASURES 24"x36" WITH ORIGINAL SIGNATURE AND "WET" STAMP. ANY OTHER FORM OF THIS MAP IS NOT AN AUTHORITY VERSION.

**SCITUATE SURVEYS, INC.**  
410 TIOGUE AVENUE  
COVENTRY, RHODE ISLAND 02816  
401-821-8101  
LAND SURVEYING/MAPPING/SITE PLANNING

EDLE STREET AND ROAD INDEX FILE UNDER:  
**ARCADIA ROAD**

THIS DATA COLLECTION SURVEY AND PLAN CONFORM TO A CLASS III MEASUREMENT STANDARD AS ADOPTED BY THE RHODE ISLAND STATE BOARD OF PROFESSIONAL LAND SURVEYORS

BY: *John Mensinger*  
JOHN MENSINGER, PROFESSIONAL LAND SURVEYOR NO. 1806

10/23/13 ADDITIONAL LOCATION

JOHN MENSINGER  
No. 1806  
PROFESSIONAL  
LAND SURVEYOR

EXISTING CONDITIONS PLAN  
**BROWNING MILL POND FACILITY**  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
ARCADIA ROAD  
EXETER & RICHMOND, RHODE ISLAND

PROJECT NO.: SS2457  
DRAWING NO.: SS3762

DATE: APRIL 19, 2011  
REVISION: OCTOBER 23, 2013  
SCALE: 1"=40'

SHEET 6 OF 6

