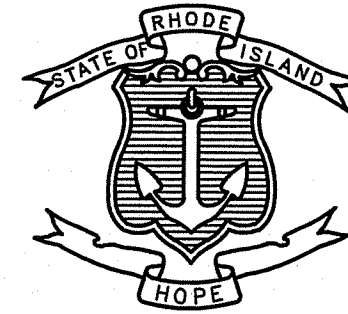


FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	XXX-XXX-XXX	2021	1	20

INDEX OF DRAWINGS

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3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND, & NOTES
6	TEMPORARY TRAFFIC CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL DETAILS
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DETENTION BASIN No. 7	
9	DEMOLITION AND EROSION SEDIMENTATION CONTROL PLAN
10	GENERAL PLAN
11	GRADING AND DRAINAGE PLAN
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17	GENERAL PLAN
18	GRADING AND DRAINAGE PLAN
19	LANDSCAPE PLAN
20	DETAILS NO. 1

STATE OF RHODE ISLAND



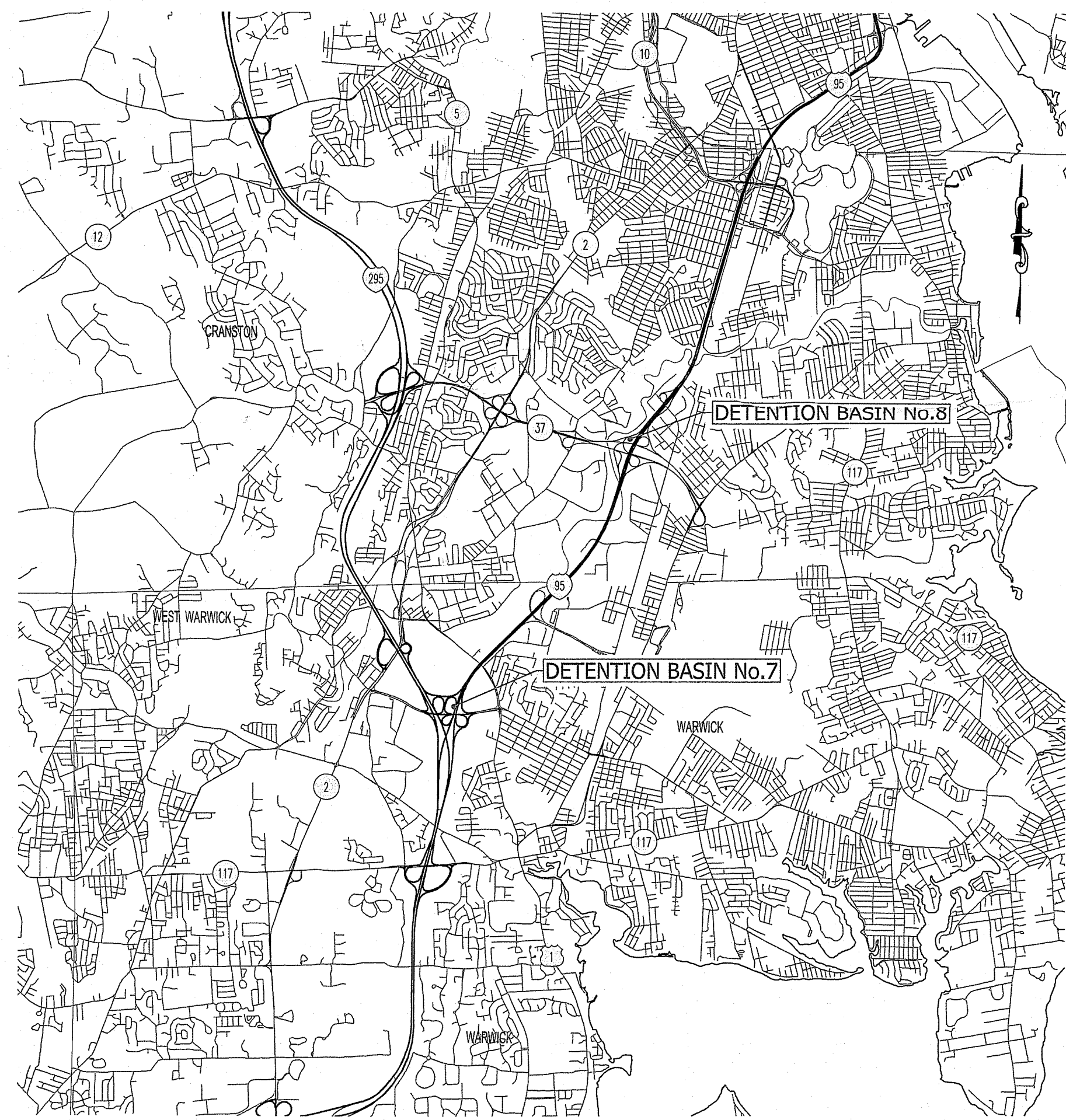
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED

DRAINAGE POND REHABILITATION AND PRESERVATION

ROUTE 113 WESTBOUND ON-RAMP TO I-95 SOUTHBOUND (BASIN 7)
 I-95 SOUTHBOUND OFF-RAMP TO ROUTE 37 (BASIN 8)
 WARWICK, RHODE ISLAND
 KENT COUNTY

R.I. CONTRACT NO. 2020-CH-XXX F.A. PROJECT NO. XXX-XXX-XXX



LOCATION MAP
SCALE: N.T.S.

SCALES OF DRAWINGS

PLANS: 1 INCH = 20 FEET

BASE OF LEVELS

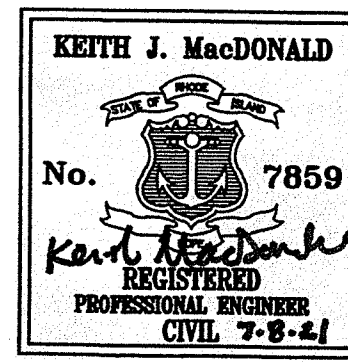
VERTICAL DATUM USED: NAVD-88

HORIZONTAL DATUM: RHODE ISLAND STATE PLANE, NAD-83 (2011) (2002.00)



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

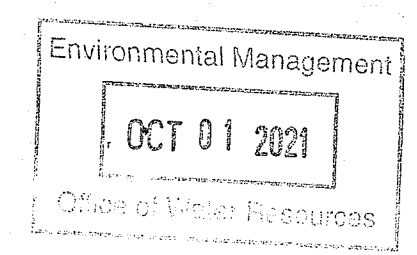
PERMIT SUBMISSION



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
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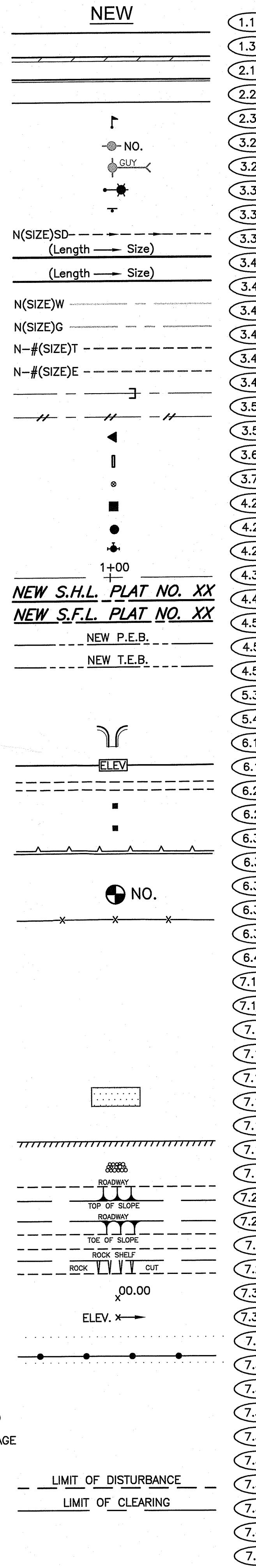
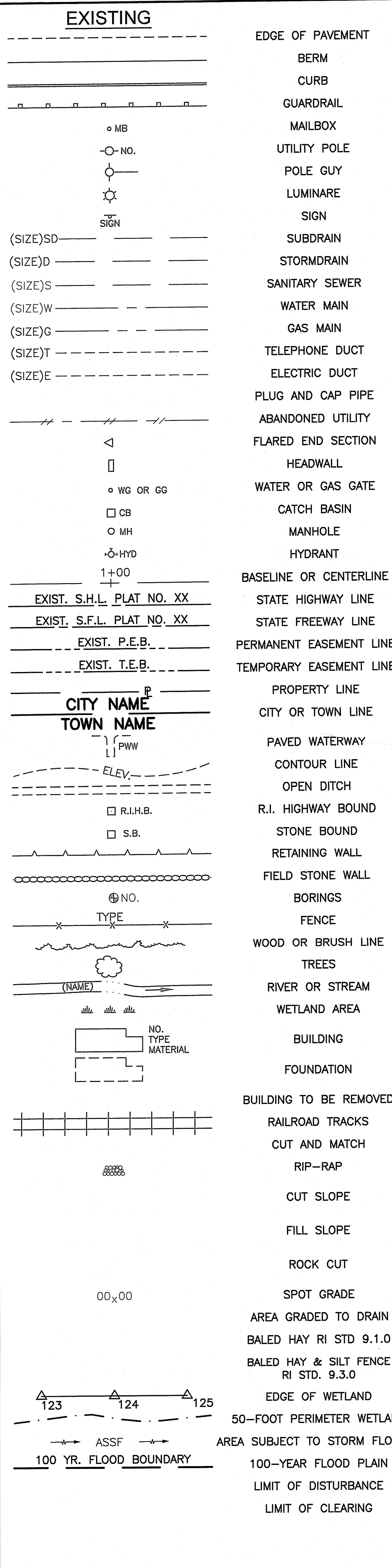
Martin D. Wenczek

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
ADMINISTRATOR, PROJECT MANAGEMENT	DATE
APPROVED	
CHIEF ENGINEER OF INFRASTRUCTURE	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE



Contract Number 2020-CH-XXX
 Number of Sheet 1
 Total Sheets 20

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
 SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018), WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1988 EDITION, WITH ALL REVISIONS.



- 1.1.0 UNDERDRAIN
- 1.3.0 CONCRETE CONNECTING COLLAR
- 2.1.0 CONCRETE HEADWALLS FOR PIPE CULVERTS
- 2.2.0 STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS
- 2.3.0 (DIA.) PRECAST CONCRETE FLARED END SECTION
- 3.2.0 BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE
- 3.2.1 (DIA.) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE
- 3.3.0 BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN
- 3.3.2 BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN
- 3.3.3 SOLID BLOCK FLUSH SQUARE CATCH BASIN
- 3.4.0 BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN
- 3.4.1 BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
- 3.4.2 BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN
- 3.4.3 BRICK/SOLID BLOCK TYPE "R" CATCH BASIN
- 3.4.4 SOLID BLOCK FLUSH ROUND CATCH BASIN
- 3.4.5 (DIA.) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN
- 3.5.0 SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN
- 3.5.1 (SIZE) SOLID BLOCK SHALLOW TYPE "D" SQUARE CATCH BASIN
- 3.6.0 BRICK/SOLID BLOCK DROP INLET
- 3.7.0 (DIA.) BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"
- 4.2.0 PRECAST 4'-0" ROUND MANHOLE
- 4.2.1 PRECAST 5'-0" ROUND MANHOLE
- 4.2.2 PRECAST 6'-0" ROUND MANHOLE
- 4.3.0 (SIZE) PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- 4.4.0 (DIA.) PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
- 4.5.0 PRECAST CONCRETE DROP INLET
- 4.5.1 PRECAST CONCRETE DROP INLET LATERAL OUTLET
- 4.5.2 PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET
- 5.3.0 CATCH BASIN AND MANHOLE STEP
- 5.4.0 CONCRETE COLLARS
- 6.1.0 LIGHT-DUTY SQUARE FRAME AND ROUND COVER
- 6.1.1 HEAVY DUTY SQUARE FRAME AND ROUND COVER
- 6.2.0 LIGHT-DUTY ROUND FRAME AND COVER
- 6.2.1 HEAVY-DUTY ROUND FRAME AND COVER
- 6.3.0 SQUARE FRAME AND GRATE
- 6.3.1 SQUARE FRAME AND GRATE
- 6.3.2 SQUARE FRAME AND GRATE (BICYCLE SAFE)
- 6.3.3 HIGH CAPACITY FRAME AND GRATE
- 6.3.4 HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
- 6.4.0 ROUND FRAME AND GRATE
- 7.1.0S PRECAST CONCRETE CURB (STRAIGHT)
- 7.1.0C PRECAST CONCRETE CURB (CIRCULAR)
- 7.1.1 3'-0" PRECAST CONCRETE TRANSITION CURB
- 7.1.2 6'-0" PRECAST CONCRETE TRANSITION CURB
- 7.1.4 PRECAST 2'-0" RADIUS CORNER
- 7.1.5 PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)
- 7.1.6 PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)
- 7.1.7 PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)
- 7.1.8 PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)
- 7.2.0S PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)
- 7.2.0C PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)
- 7.2.1 PRECAST CONCRETE SLOPED FACE TRANSITION CURB
- 7.2.2 PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)
- 7.3.0S GRANITE CURB (STRAIGHT)
- 7.3.0C GRANITE CURB (CIRCULAR)
- 7.3.1 3'-0" GRANITE TRANSITION CURB
- 7.3.2 6'-0" GRANITE TRANSITION CURB
- 7.3.3 GRANITE WHEELCHAIR RAMP TRANSITION CURB
- 7.3.4 GRANITE 2'-0" RADIUS CORNER
- 7.3.5 GRANITE INLET STONE (FOR SQUARE CATCH BASIN)
- 7.3.6 GRANITE INLET STONE (FOR ROUND CATCH BASIN)
- 7.3.7 GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
- 7.3.8 GRANITE APRON STONE (FOR ROUND CATCH BASIN)
- 7.4.0 GRANITE SLOPED FACE CURB
- 7.4.1 GRANITE SLOPED FACE TRANSITION CURB

- 7.4.2 GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
- 7.5.0 BITUMINOUS CONCRETE LIP CURB
- 7.5.1A BITUMINOUS BERM (CONSTRUCTION METHOD A)
- 7.5.1B BITUMINOUS BERM (CONSTRUCTION METHOD B)
- 7.6.0 CURB SETTING DETAIL
- 8.2.0 BITUMINOUS CONCRETE DITCH
- 8.3.0 RIP-RAP DITCH
- 8.4.0 PAVED WATERWAY
- 9.1.0 BALED HAY EROSION CHECK
- 9.2.0 SILT FENCE DETAIL
- 9.3.0 BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
- 9.4.0 BALED HAY DITCH AND SWALE EROSION CHECK
- 9.5.0 LOG AND HAY CHECK DAM
- 9.7.0 DEWATERING BASIN
- 9.8.0 BALED HAY CATCH BASIN INLET PROTECTION
- 9.9.0 CONSTRUCTION ACCESS
- 10.1.0 WET STONE MASONRY RETAINING WALL
- 10.2.0 RUBBLE MASONRY WALL
- 10.3.0 CONCRETE RETAINING WALL
- 10.4.0 STONE MASONRY STEPS
- 14.1.0 CONCRETE HIGHWAY BOUND
- 15.1.0 POST AND MOUNTINGS FOR RURAL MAILBOX
- 15.2.0 (NO.) POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
- 18.2.0 PRECAST TYPE "A" HANDHOLE
- 18.2.2 HEAVY DUTY TYPE "H" HANDHOLE
- 18.3.0 ALUMINUM LIGHTING STANDARDS
- 20.2.0 BI-DIRECTIONAL CONTROL DEVICE
- 24.6.1 STREET SIGN MOUNTING DETAIL
- 26.2.0 POLYETHYLENE DRUM WITH MARKINGS
- 26.3.0 PVC PLASTIC PIPE TYPE III BARRICADE
- 31.1.0 CHAIN LINK FENCE 3'-0" TO 4'-0"
- 31.2.0 CHAIN LINK FENCE 5'-0" TO 6'-0"
- 31.2.1 CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
- 31.3.0 WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)
- 34.1.0 TYPICAL GUARDRAIL INSTALLATION
- 34.2.0 STEEL BEAM GUARDRAIL
- 34.2.1 STEEL BEAM GUARDRAIL DETAILS
- 34.2.2 STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
- 34.2.3 STEEL BEAM GUARDRAIL FIXTURES
- 34.2.5 STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
- 34.3.1 GUARDRAIL END SECTION
- 34.3.2 TERMINAL END SECTION (SINGLE FACE)
- 34.3.3 ANCHORAGE DETAILS APPROACH END SECTION
- 34.3.4 ANCHORAGE DETAILS TRAILING END SECTION
- 34.4.0 STEEL BACKED TIMBER GUARDRAIL
- 34.4.1 STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
- 40.1.0 DOUBLE-FACED PRECAST MEDIAN BARRIER
- 40.2.0 SINGLE-FACED PRECAST MEDIAN BARRIER
- 40.2.1 SINGLE-FACED PRECAST MEDIAN BARRIER
- 40.3.0 PRECAST MEDIAN BARRIER TRANSITION UNIT
- 40.5.0 PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
- 43.1.0 CEMENT CONCRETE SIDEWALK
- 43.2.0 BITUMINOUS CONCRETE SIDEWALK
- 43.3.0 WHEELCHAIR RAMP
- 43.3.1 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
- 43.4.0 DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
- 43.4.1 DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
- 43.5.0 CEMENT CONCRETE DRIVEWAYS
- 48.1.0 DETECTABLE WARNING SYSTEM
- 51.1.0 TREE PROTECTION DEVICE
- 51.1.1 DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
- 51.2.0 SHRUB PROTECTION DEVICE
- 51.3.0 TREE WELL
- 51.4.0 TREE WALL

- AB ADJUST CATCH BASIN TO GRADE
- ABM ADJUST CATCH BASIN TO MANHOLE
- AC ADJUST CURB STOP TO GRADE
- AD ADJUST DRAINAGE MANHOLE TO GRADE
- AE ADJUST ELECTRIC MANHOLE TO GRADE
- AFC ADJUST FRAME AND COVER TO GRADE
- AFG ADJUST FRAME AND GRATE TO GRADE
- AG ADJUST GAS GATE BOX TO GRADE
- AHH ADJUST HANDHOLE TO GRADE
- AS ADJUST SANITARY SEWER MANHOLE TO GRADE
- AT ADJUST TELEPHONE MANHOLE TO GRADE
- AW ADJUST WATER GATE BOX TO GRADE
- BCD BITUMINOUS CONCRETE DRIVEWAY
- BPS 3" BITUMINOUS CONCRETE TYPE 1-2
- CCB 8" GRAVEL BORROW SUBBASE COURSE
- CCP BUILD NEW STRUCTURE OVER EXISTING PIPE
- CFP CLEAN CATCH BASIN
- CG CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
- CMH CLEAN AND FLUSH PIPE
- CMH CLEARING AND GRUBBING
- CP (DEPTH) CLEAN MANHOLE
- CPP COLD PLANE
- DB CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
- DC REMOVE AND DISPOSE BITUMINOUS CURB
- DCB REMOVE AND DISPOSE CONCRETE CURB
- DDI REMOVE AND DISPOSE CATCH BASIN
- DF REMOVE AND DISPOSE DROP INLET
- DFC REMOVE AND DISPOSE FENCE
- DFG REMOVE AND DISPOSE FRAME AND COVER
- DFH REMOVE AND DISPOSE FLARED END SECTION
- DFP REMOVE AND DISPOSE FRAME AND GRATE
- DG REMOVE AND DISPOSE FIRE HYDRANT
- DH REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- DHB REMOVE AND DISPOSE GUARDRAIL
- DHH REMOVE AND DISPOSE HEADWALL
- DL REMOVE AND DISPOSE HIGHWAY BOUND
- DLB REMOVE AND DISPOSE HANDHOLE
- DMB REMOVE AND DISPOSE LIGHT AND FOUNDATION
- DMH REMOVE AND DISPOSE MEDIAN BARRIER
- DMM REMOVE AND DISPOSE MEDIAN MARKER
- DOW REMOVE AND DISPOSE OBSERVATION WELL
- DP REMOVE AND DISPOSE PIPE
- DPB REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
- DRB REMOVE AND DISPOSE RIGID BASE
- DS REMOVE AND DISPOSE SIGN
- DSS REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
- DSW REMOVE AND DISPOSE SIDEWALK
- DTD REMOVE AND DISPOSE TELEPHONE DUCT BANKS
- DUP REMOVE AND DISPOSE UTILITY POLE
- DWW REMOVE AND DISPOSE PAVED WATERWAY
- FF FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
- GET FLARED GUARDRAIL END TREATMENT
- IA IMPACT ATTENUATOR
- IDL IMPERVIOUS DITCH LINER
- LOD LIMIT OF DISTURBANCE
- LOR LIMIT OF REGRADING
- LS 4" LOAM AND SEED

NEW FIRE HYDRANT WITH GATE VALVE

NOT IN THIS CONSTRUCTION CONTRACT

FURNISH AND INSTALL NEW WATER GATE VALVE BOX

FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX

FURNISH AND INSTALL NEW WATER CURB STOP BOX

FURNISH AND INSTALL NEW WATER CURB STOP AND BOX

PERMANENT CHECK DAM

4" PLANTABLE SOIL AND SEED

RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET

R.I.D.O.T. COMMUNICATIONS MANHOLE

REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)

RELOCATE LAMP POST

RELOCATE MAILBOX (BY OTHERS)

REMOVE PAVEMENT MARKINGS

RIP-RAP PAD (SEE DETAIL)

REMOVE AND RELOCATE SIGN

RELOCATE UTILITY POLE (BY OTHERS)

STONE BAFFLE

STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)

STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)

STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION

REMOVE AND STOCKPILE FENCE

SPECIAL GRADED AGGREGATE

REMOVE AND STOCKPILE GRANITE CURB

REMOVE AND STOCKPILE GUARDRAIL

REMOVE AND STOCKPILE HYDRANT

REMOVE AND STOCKPILE SIGN

REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM

CONCRETE THRUST BLOCK

TIE EXISTING PIPE INTO NEW STRUCTURE

TIE NEW PIPE INTO EXISTING STRUCTURE

THREE BEAM TRANSITION

THREE BEAM BRIDGE CONNECTION

TREE TRIMMING

4" WOOD CHIP MULCH

4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW

6" EPOXY RESIN PAVEMENT MARKINGS - WHITE

12" EPOXY RESIN PAVEMENT MARKINGS - WHITE

6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)

4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW

6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW

PROFILE GRADE LINE

P.G.L.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 18 2021 FILE # 21-097
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenczek

REVISIONS		
NO.	DATE	BY
1	6/07	TRB

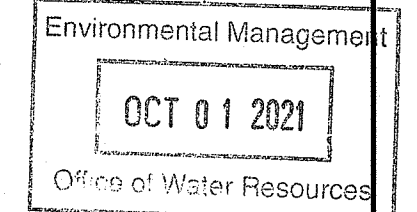
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DRAINAGE POND REHABILITATION AND PRESERVATION

STANDARD PLAN SYMBOLS & STANDARD LEGEND

CHECKED BY _____ DATE _____ SCALE _____

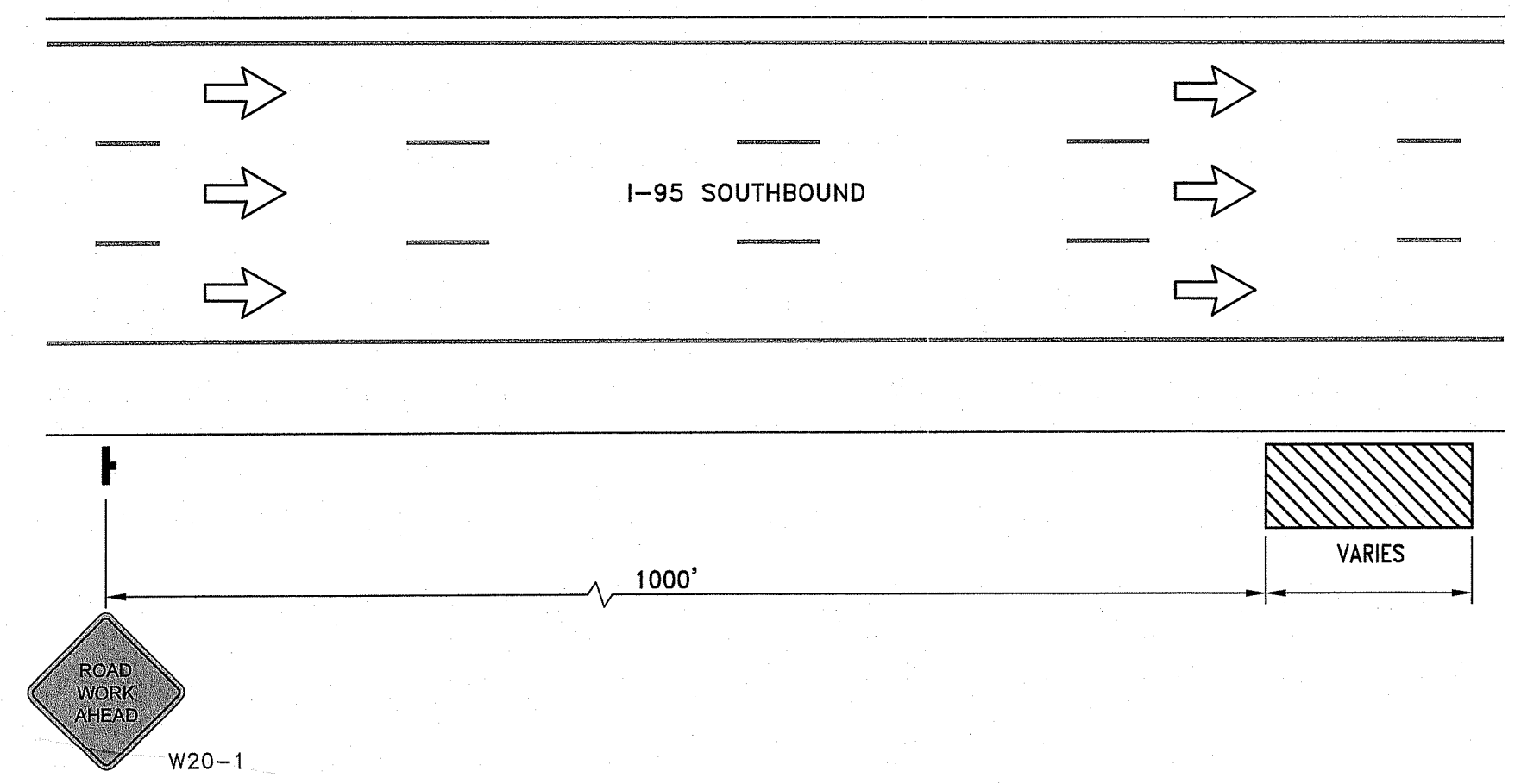
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100



Environmental Management
OCT 01 2021
 Office of Water Resources

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. MAXIMUM SPACING OF CHANNELIZATION DEVICES FOR TAPER AND TANGENT SECTIONS ON RAMPS AND SIDE STREETS IS 25 FEET. MAXIMUM SPACING OF CHANNELIZATION DEVICES FOR TAPER AND TANGENT SECTIONS ON I-95 IS 65 FEET.
6. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF THE CHANNELIZATION DEVICES.
7. THE CONTRACTOR SHALL PROVIDE NECESSARY ACCESS FOR FIRE APPARATUS AND OTHER EMERGENCY VEHICLE THROUGH THE WORK ZONE AT ALL TIMES.
8. THE CONTRACTOR SHALL UTILIZE POLICE DETAILS AND ROLLING OPERATIONS FOR ACCESS AND EGRESS TO THE SITE. TEMPORARY TRAFFIC CONTROL SETUPS SHOULD BE MINIMIZED.



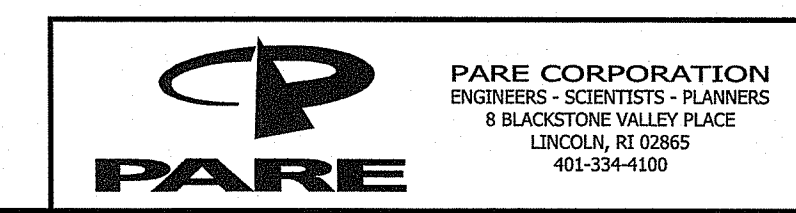
TYPICAL WORK BEYOND THE SHOULDER - I-95

LEGEND:

- DIRECTION OF TRAFFIC
- TEMPORARY SIGN
- WORK ZONE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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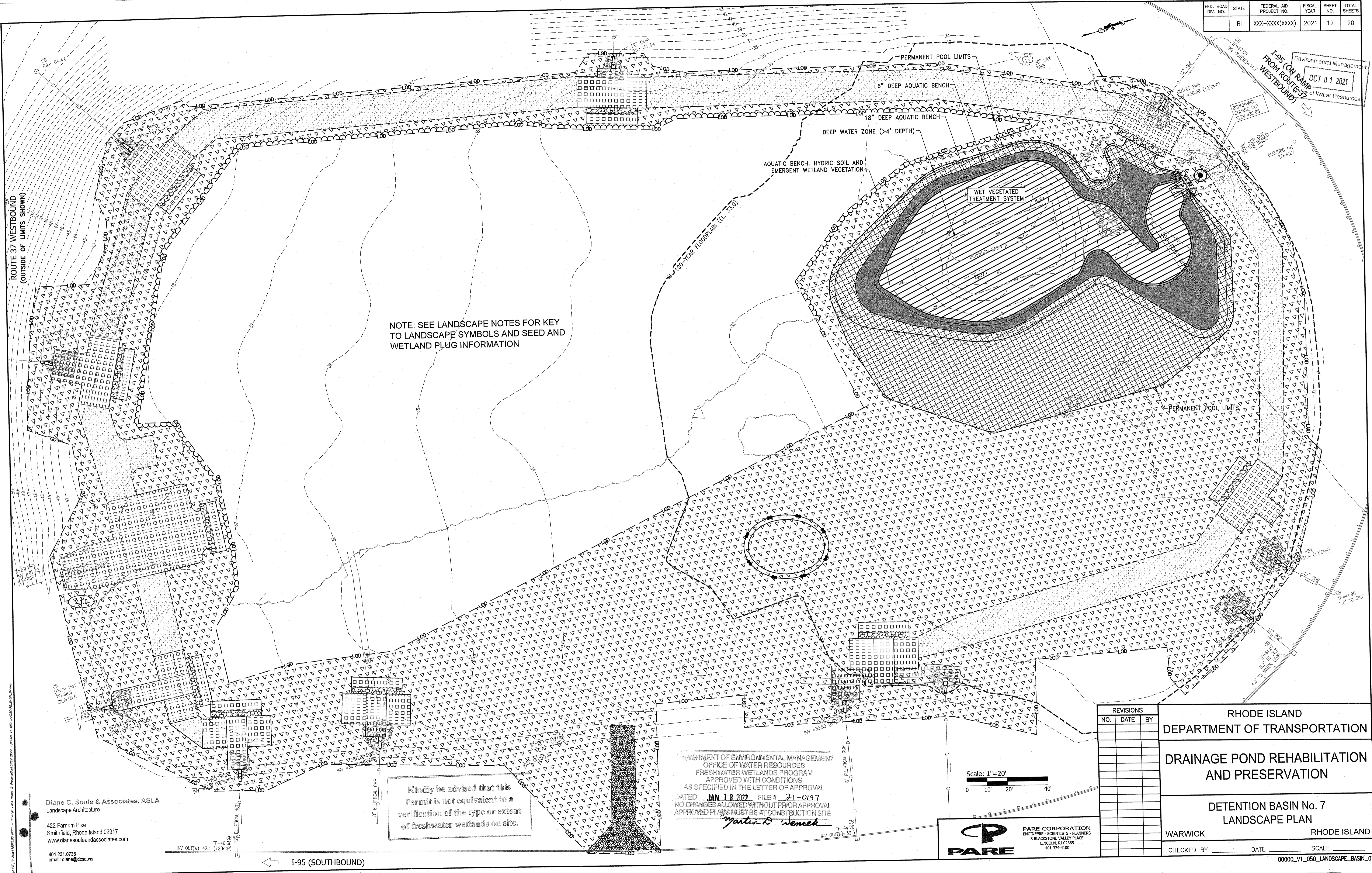
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO.	DATE	BY	
			DRAINAGE POND REHABILITATION AND PRESERVATION
			TEMPORARY TRAFFIC CONTROL PLAN
CHECKED BY _____ DATE _____			SCALE 1"=20'



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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	XXX-XXXX(XXXX)	2021	12	20

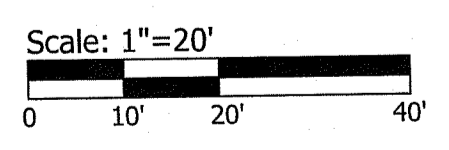
Environmental Management
 OCT 01 2021
 Office of Water Resources



NOTE: SEE LANDSCAPE NOTES FOR KEY TO LANDSCAPE SYMBOLS AND SEED AND WETLAND PLUG INFORMATION

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
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
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Martin D. Wenczek



REVISIONS		
NO.	DATE	BY

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
DRAINAGE POND REHABILITATION AND PRESERVATION
DETENTION BASIN No. 7 LANDSCAPE PLAN
 WARWICK, RHODE ISLAND
 CHECKED BY _____ DATE _____ SCALE _____

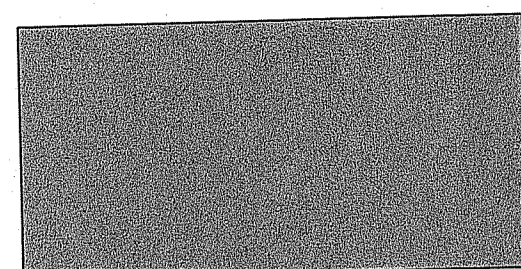
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 422 Farnum Pike
 Smithfield, Rhode Island 02917
 www.dianesouleandassociates.com
 401.231.0736
 email: diane@dcsa.ws



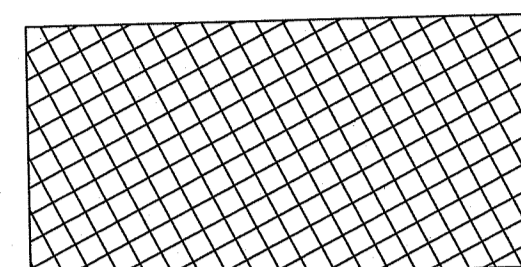
Environmental Management
OCT 01 2021
 Office of Water Resources

KEY

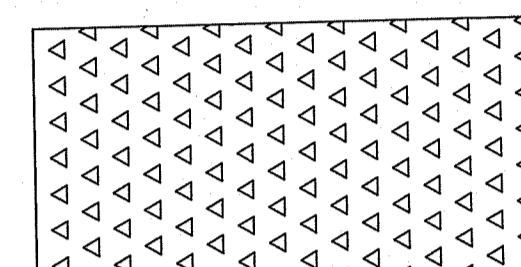
ZONE 2



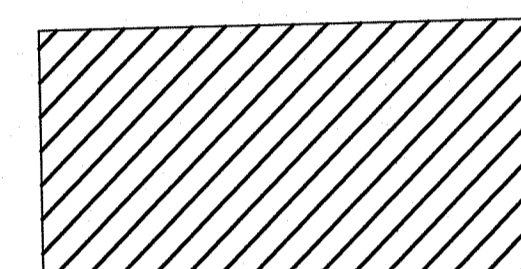
ZONE 3



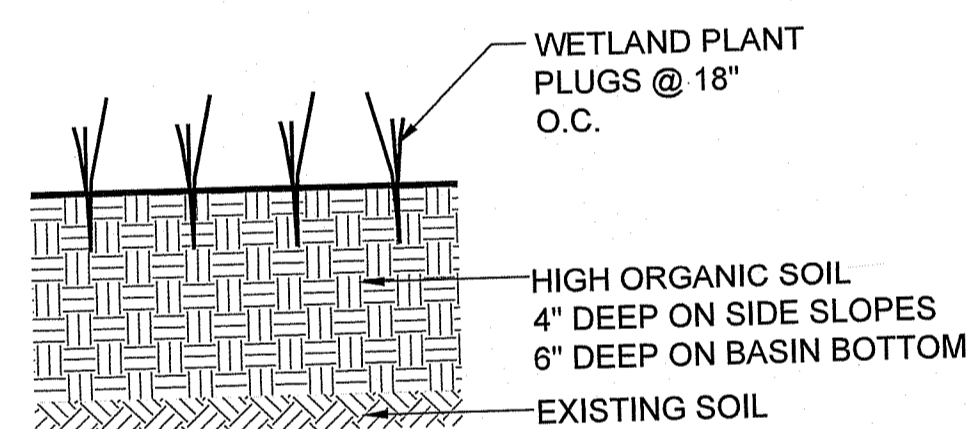
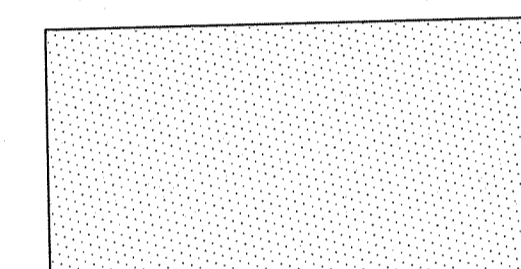
RESTORATION LIMITS



EXISTING HYDRIC SOIL TO REMAIN



PROPOSED HIGH ORGANIC SOIL



PLUG PLANTING

DETENTION POND PLANTING DETAIL

NO SCALE

DETENTION BASIN NO. 7 SEEDING PLAN

SEED FURNISHED BY NEW ENGLAND WETLAND PLANTS, INC.
 820 West Street, Amherst, MA
 www.newp.com OR APPROVED EQUAL

ZONE	BOTANICAL NAME	COMMON NAME	QUANTITY*	INDICATOR
2	Carex stricta	Tussock Sedge	665	OBL
	Eupatorium perfoliatum	Boneset	665	FACW+
	Scirpus cyperinus	Woolgrass	665	OBL

*2 inch plug; 18 inches on center

Carex stricta (Tussock Sedge)
 This hummock-forming sedge is used by geese and other birds for nesting sites.

Shallow water, shores, in full sun to full shade

Eupatorium perfoliatum (Boneset)
 A tall flowering herb found in wet meadows and marshes.

Shallow water, shores, wet meadows in full sun or partial shade

Scirpus cyperinus (Woolgrass)
 An aggressively rooting plant valuable for erosion control. Provides dense cover for wildlife and web support for various spiders.

Shallow water, shores, wet meadows in full sun

ZONE	BOTANICAL NAME	COMMON NAME	INDICATOR
3	NEW ENGLAND WETMIX		
	ALISMA PLANTAGO-AQUATICA	MUD PLANTAIN	OBL
	ASCLEPIAS INCARNATA	SWAMP MILKWEED	OBL
	ASTER NOV-BELGII	NEW YORK ASTER	FACW
	BIDENS CERNUA	NODDING BUR MARIGOLD	OBL
	CAREX COMOSA	BRISTLYCOSMOS SEDGE	OBL
	CAREX CRINITA	FRINGED SEDGE	OBL
	CAREX LUPULINA	HOP SEDGE	OBL
	CAREX LURIDA	LURID SEDGE	OBL
	CAREX SCOPARIA	BLUNT BROOM SEDGE	FACW
	CAREX VULPINOIDEA	FOX SEDGE	OBL
	EUPATORIUM MACULATUM	SPOTTED JOE PYE WEEED	FACW
	EUPATORIUM PERFOLIATUM	BONESET	OBL
	GLYCERIA CANADENSIS	RATTLESNAKE GRASS	OBL
	GLYCERIA STRIATA	FOWL MANNAGRASS	OBL
	JUNCUS EFFUSUS	SOFT RUSH	FACW
	MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER	OBL
	ONOCLEA SENSIBILIS	SENSITIVE FERN	FACW

NOTE: CONTRACTOR TO SOW ABOVE SEED AT 18 LBS/ACRE. SEED TO BE SOWN BY THE HAND BROADCAST METHOD.

The New England Wetmix (Wetland Seed Mix) contains a wide variety of native seeds that are suitable for most wetland restoration sites that are not permanently flooded. All species are best suited to moist ground as found in most wet meadows, scrub shrub, or forested wetland restoration areas. The mix is well suited for detention basin borders and the bottom of detention basins not generally under standing water. The seeds will not germinate under inundated conditions. If planted during the fall months, the seed mix will germinate the following spring. During the first season of growth, several species will produce seeds while other species will produce seeds after the second growing season. Not all species will grow in all wetland situations. This mix is comprised of the wetland species most likely to grow in created/restored wetlands and should produce more than 75% ground cover in two full growing seasons.

RESTORATION LIMITS	BOTANICAL NAME	COMMON NAME	INDICATOR
	NEW ENGLAND CONSERVATION/WILDLIFE MIX		
	ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW-
	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
	ANDROPOGON GERARDII	BIG BLUESTEM	FAC
	FESTUCA RUBRA	RED FESCUE	FACU
	SORGHASTRUM NUTANS	INDIAN GRASS	UPL
	PANICUM VIRGATUM	SWITCH GRASS	FAC
	CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
	DESMODIUM CANADENSE	SHOWY TICK TREEFOIL	FAC
	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	NJ
	BIDENS FRONDOSA	BEGGAR TICKS	FACW
	EUPATORIUM PURPUREUM	PURPLE JOE PYE WEEED	FAC
	RUBECKIA HIRTA	BLACK EYED SUSAN	FACU-
	ASTER PILOSUS	HEATH OR HAIRY ASTER	UPL
	SOLIDAGO JUNCEA	EARLY GOLDENROD	

NOTE: CONTRACTOR TO SOW ABOVE SEED AT 25 LBS/ACRE. SEED TO BE SOWN BY THE HAND BROADCAST METHOD.

LANDSCAPE NOTES:

- ALL PLANT MATERIALS MUST BE TAGGED AT THE NURSERY BY RIDOT'S LANDSCAPE ARCHITECT IN ACCORDANCE WITH SECTION L.06.03.3 OF THE R.I. STANDARD SPECIFICATIONS.
- ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATIONS MUST BE APPROVED BY RIDOT'S LANDSCAPE ARCHITECT IN ACCORDANCE WITH SECTION L.06.03.4 AND L.06.03.5 OF THE R.I. STANDARD SPECIFICATIONS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 18 2021 FILE # 21-097
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

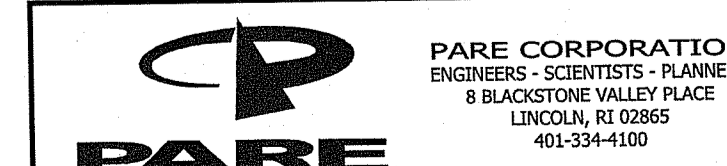
Martin O. Senech

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO.	DATE	BY	
			DRAINAGE POND REHABILITATION AND PRESERVATION
			DETENTION BASIN No. 7 LANDSCAPE NOTES
			WARWICK, RHODE ISLAND
			CHECKED BY _____ DATE _____ SCALE _____

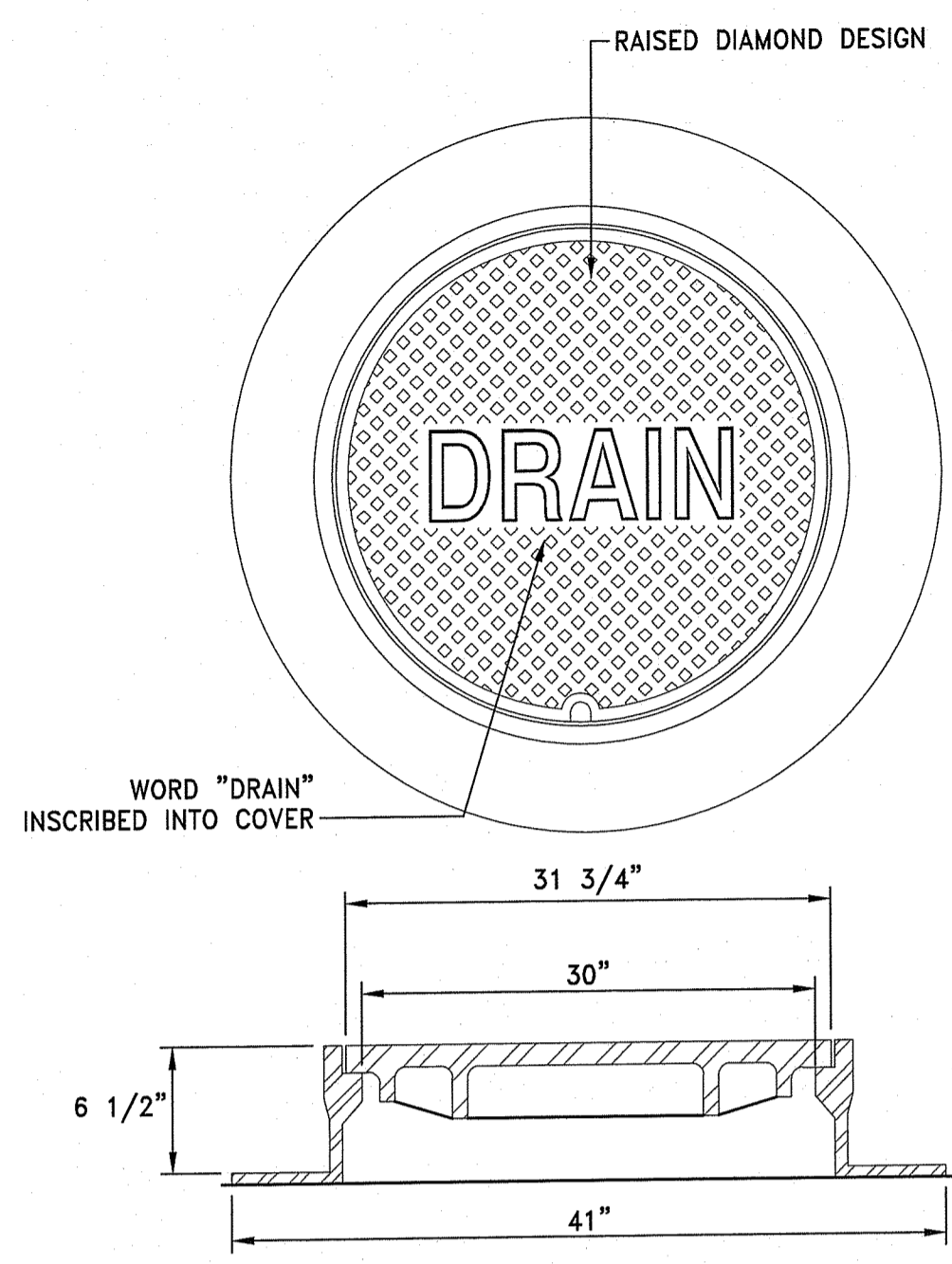
Diane C. Soule & Associates, ASLA
 Landscape Architecture

422 Farnum Pike
 Smithfield, Rhode Island 02917
 www.dianesouleandassociates.com

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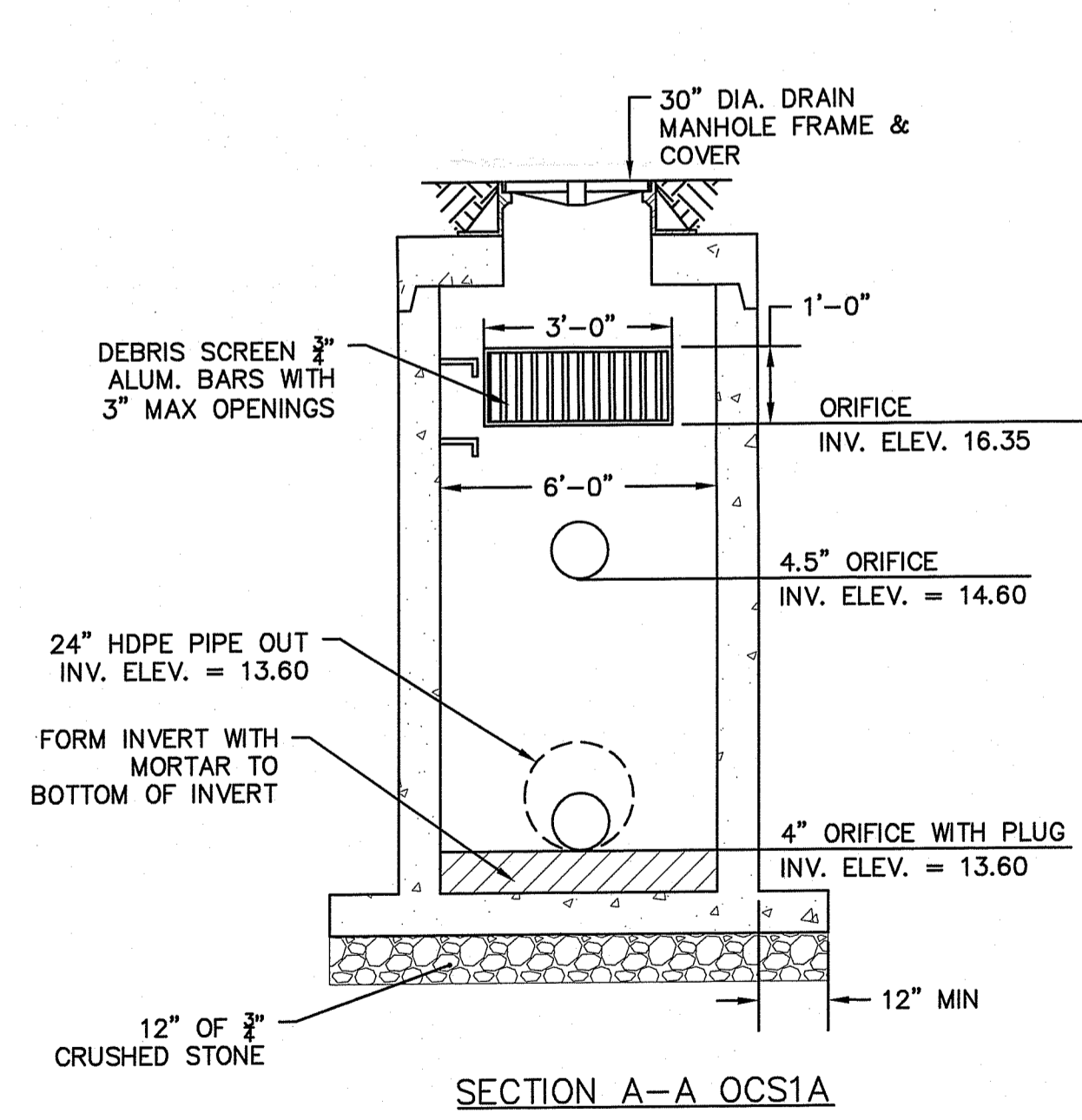


Environmental Management
 OCT 01 2021
 Office of Water Resources



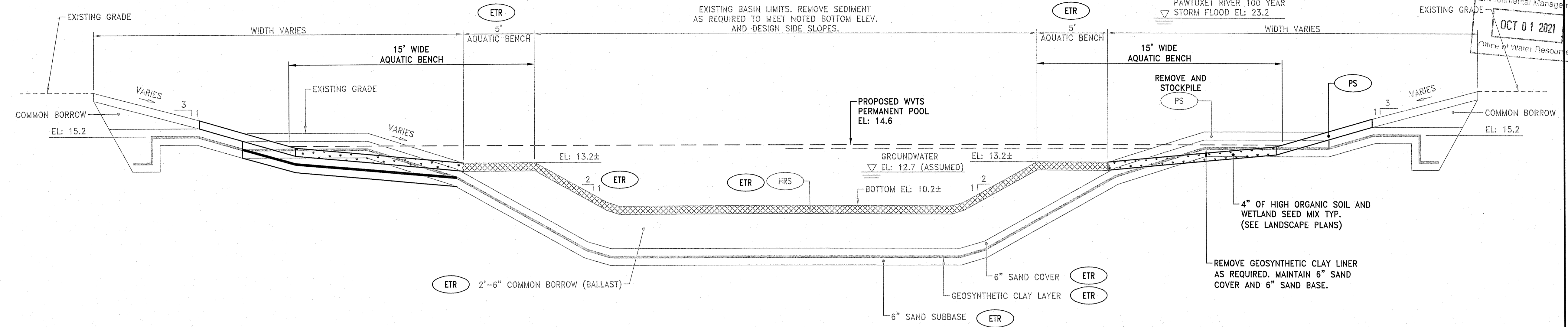
- NOTES:**
1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
 2. PROVIDE:
 30" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.

DRAIN MANHOLE FRAME & COVER
 NOT TO SCALE

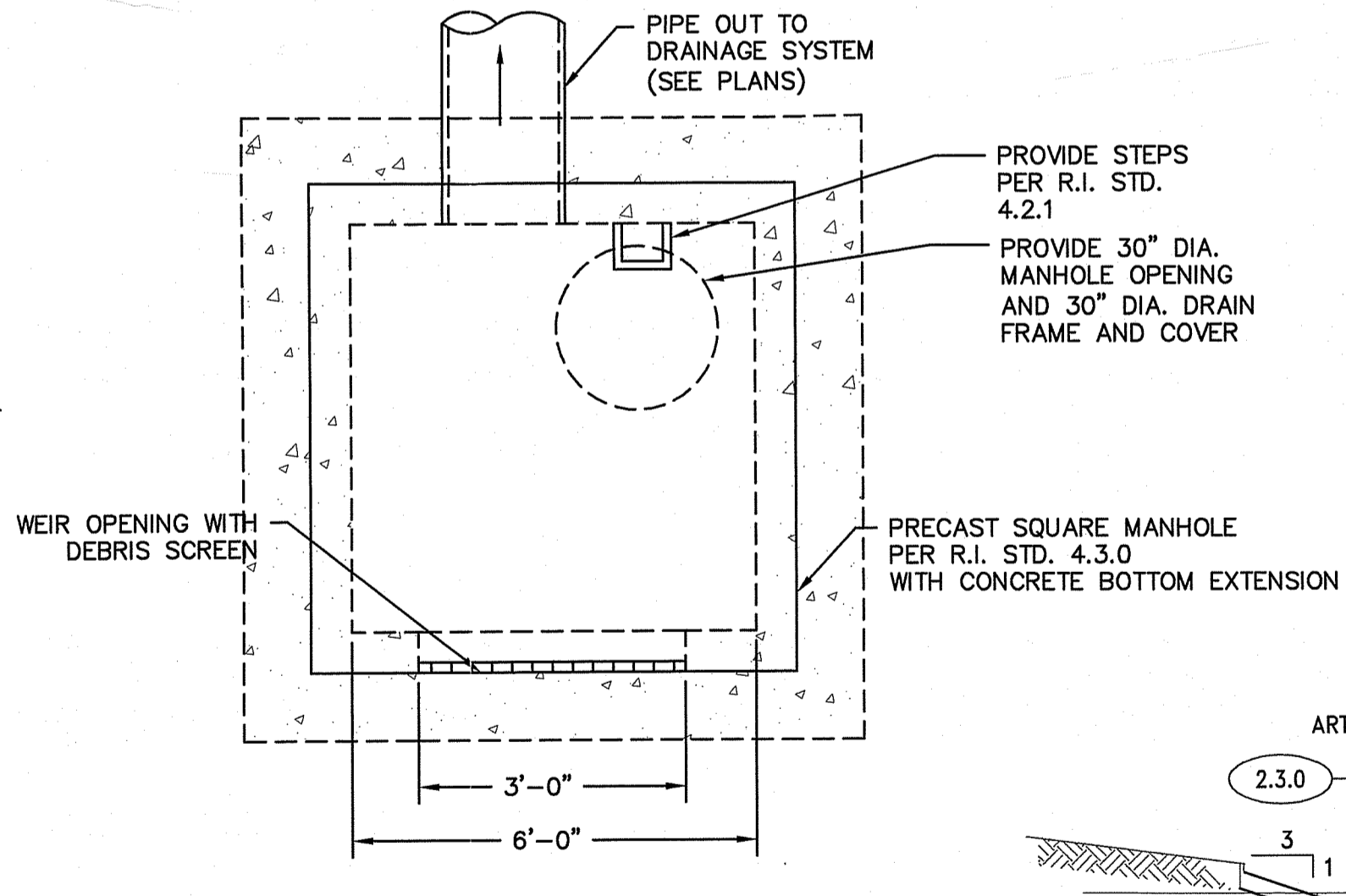


SECTION A-A OCS1A

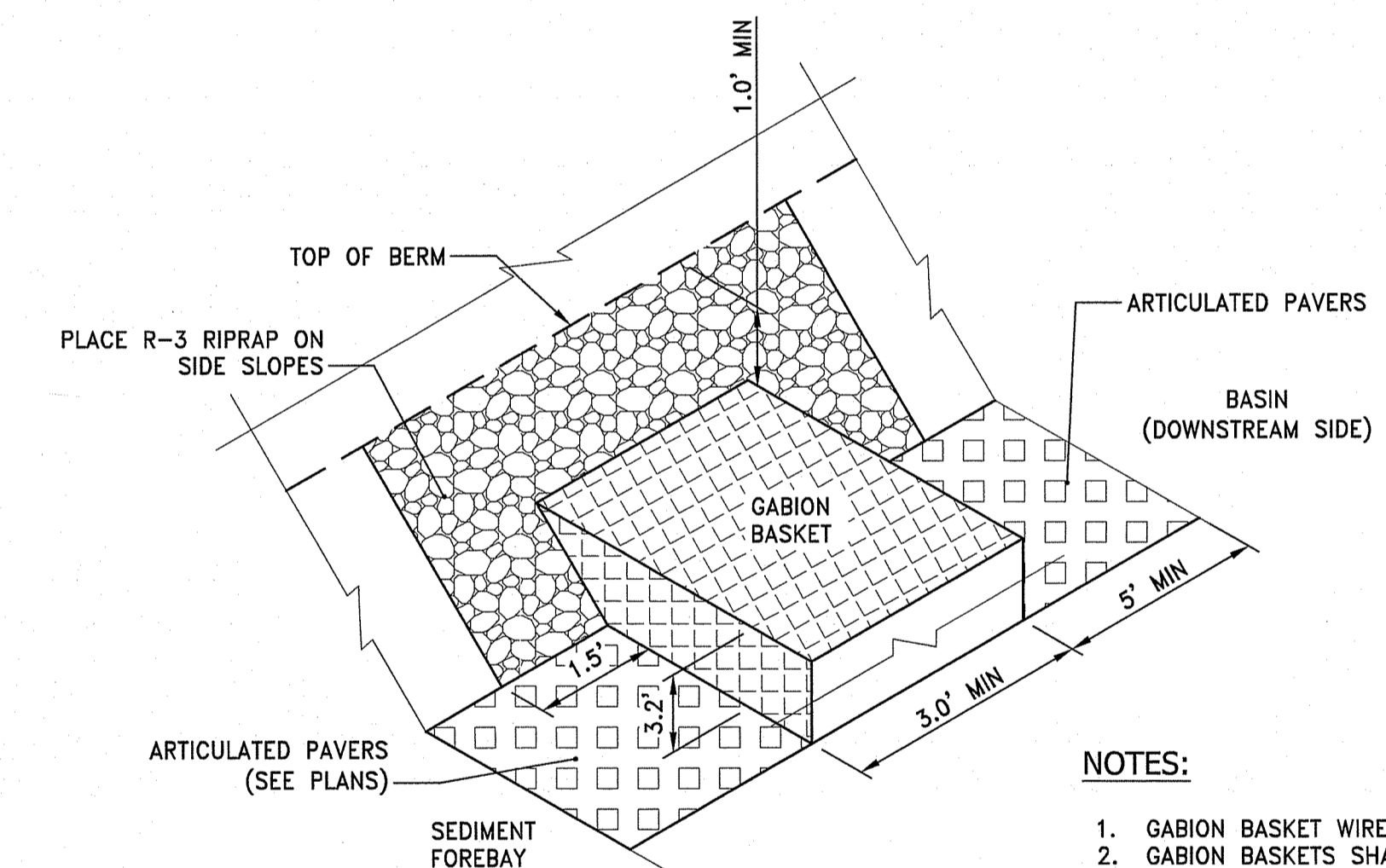
**BASIN 8 - WET ED
 OUTLET CONTROL STRUCTURE**
 NOT TO SCALE



**WET EXTENDED DETENTION BASIN WITH
 ENHANCED POLLUTANT REMOVAL**
 TYPICAL SECTION
 NOT TO SCALE



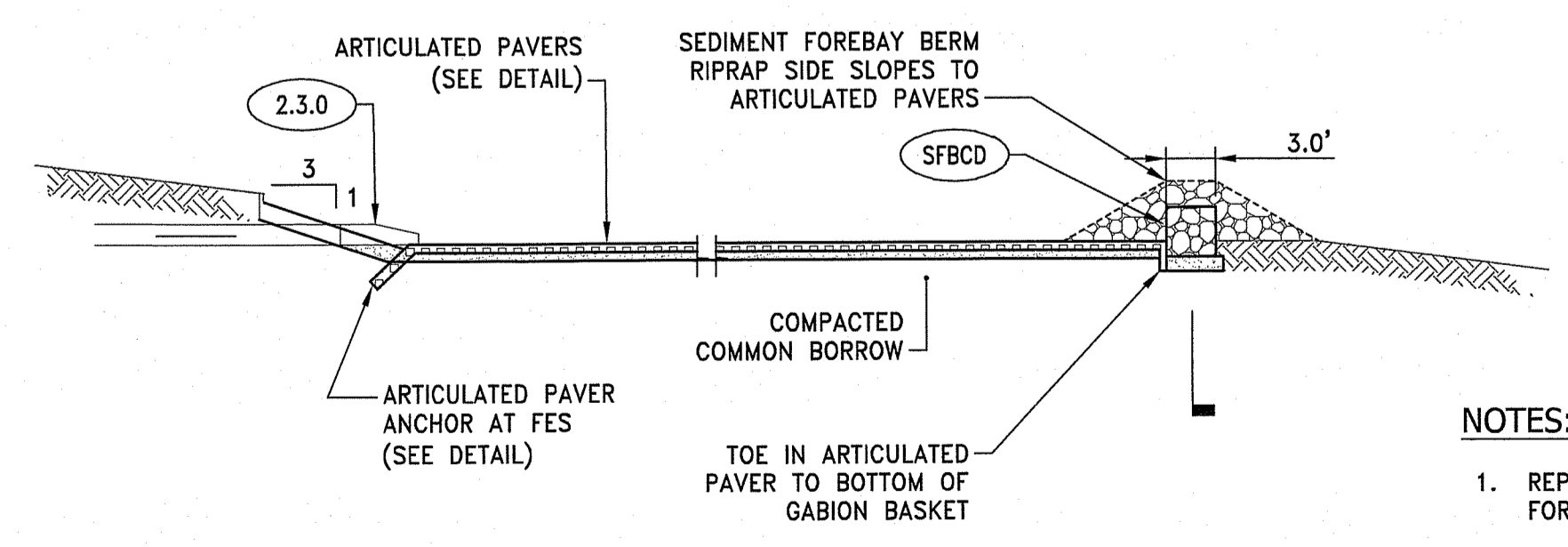
OCS1A PLAN



NOTES:

1. GABION BASKET WIRE SHALL HAVE A MINIMUM NOMINAL WIRE DIAMETER OF 3/8".
2. GABION BASKETS SHALL BE FILLED WITH ANGULAR CRUSHED STONE RANGING FROM 3"-6" IN THE GREATEST DIMENSION.
3. GABION BASKET SHALL MEET ASTM A-974-97 AND US FEDERAL SPECIFICATION QQ-W-461H AND COATED IN ACCORDANCE WITH ASTM A641, FINISH 5 CLASS 3.
4. GEOTEXTILE FABRIC MAY BE USED IN LIEU OF FILTER STONE SETTING BED.

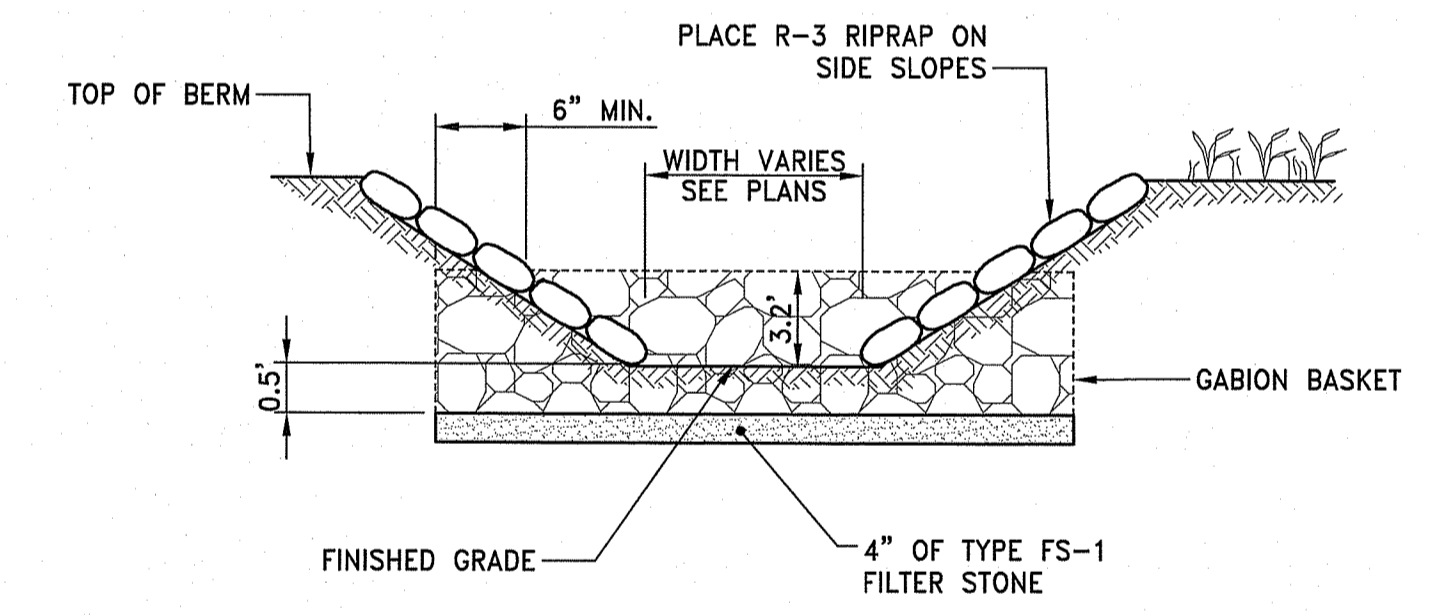
SFB CD SEDIMENT FOREBAY CHECKDAM
 NOT TO SCALE



SEDIMENT FOREBAY DETAIL
 NOT TO SCALE

NOTES:

1. REPLACE EXISTING RIPRAP AT OUTLET TO SEDIMENT FOREBAY WITH ARTICULATED PAVERS.



ELEVATION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 10 2022 FILE # 21-0197
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Martin D. Senczek

REVISIONS		
NO.	DATE	BY
1	10/1/21	RJS

**RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE POND REHABILITATION
 AND PRESERVATION**

**DETENTION BASIN No. 8
 DETAILS NO. 1**

NORTH KINGSTOWN, RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE _____

