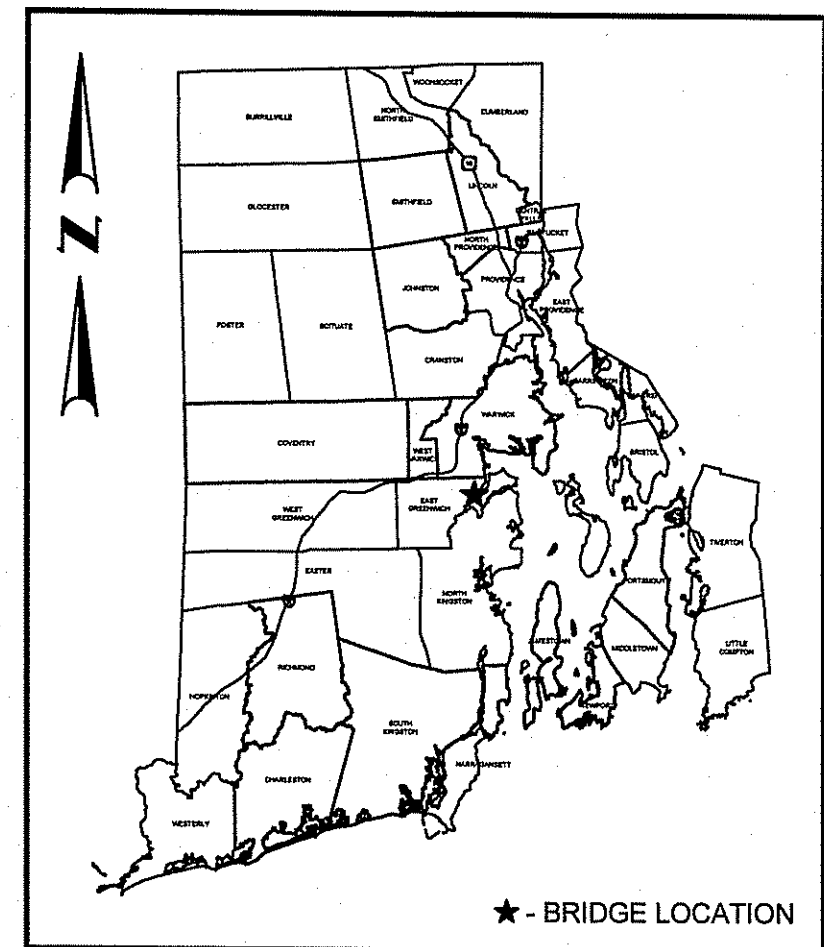


FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-887	2018	1	10



LOCATION MAP  
SCALE: 1" = 5000'

DESIGN DESIGNATION

BRIDGE NO. 4

2008 ADT	= 12,500 V.P.D.
2036 ADT	= 15,000 V.P.D.
T	= 10% MAR 23 2018
V	= 35 M.P.H.

HURRICANE EVACUATION ROUTE

BRIDGE NO. 4 IS LOCATED ON A DESIGNATED HURRICANE EVACUATION AND DIVERSIONARY ROUTE. REFER TO NOTE 18 ON SHEET 3 FOR SPECIAL REQUIREMENTS.

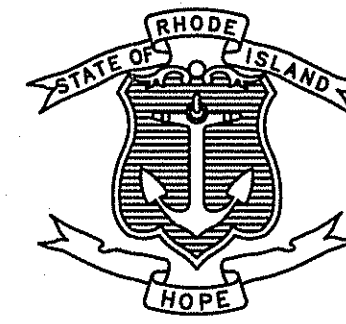
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
FILE # 18-0057  
DATED 03-19-18  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION STAGE  
ENVIRONMENTAL PLAN SUBMISSION  
MARCH 19, 2018

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
DEPUTY CHIEF ENGINEER	DATE
APPROVED	
CHIEF ENGINEER	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	LIST OF ABBREVIATIONS
6	JOB SPECIFIC GENERAL NOTES - 1
7	JOB SPECIFIC GENERAL NOTES - 2
8	GENERAL PLAN - BLEACHERY BRIDGE NO. 4
9	BRIDGE PLAN & ELEVATIONS - BLEACHERY BRIDGE NO. 4
10	ABUTMENT ELEVATIONS - BLEACHERY BRIDGE NO. 4

STATE OF RHODE ISLAND



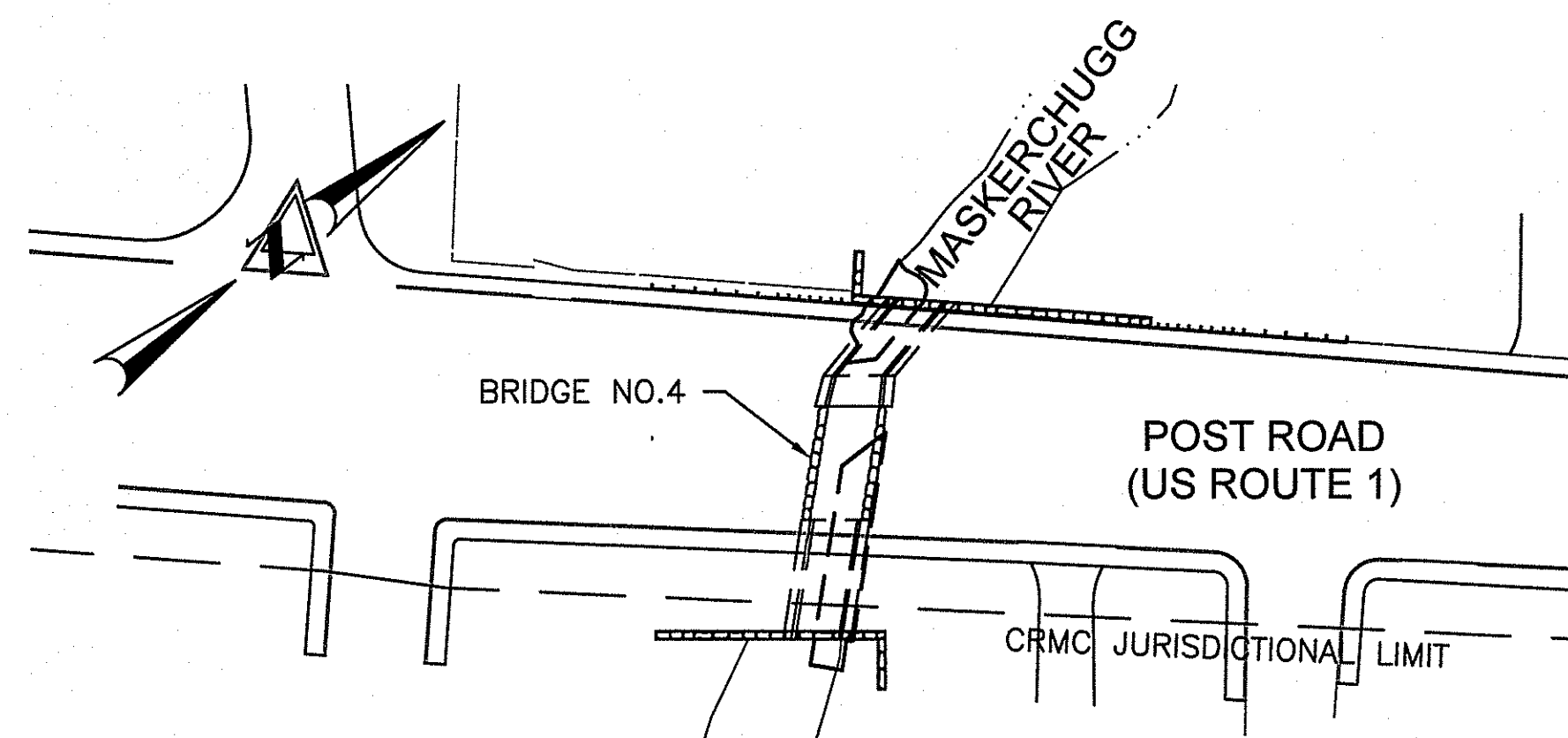
DEPARTMENT OF TRANSPORTATION

PLANS, SECTIONS, & DETAILS OF PROPOSED  
STATE HIGHWAY

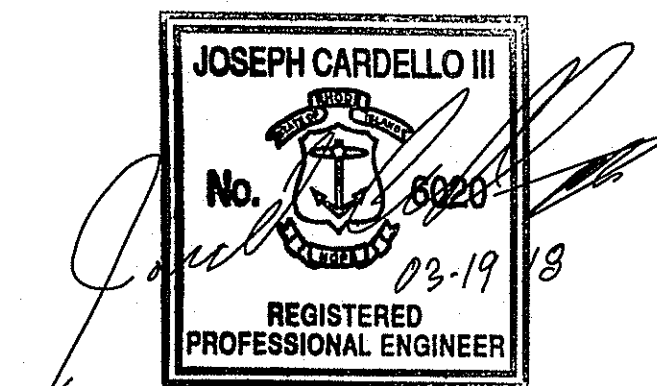
HIGH PRIORITY REPAIRS TO BLEACHERY BRIDGE NO. 4

TOWN OF EAST GREENWICH  
KENT COUNTY

R.I. CONTRACT NO. 2018-CB-040 F.A. PROJECT NO. 405-421-887



LAYOUT PLAN - BRIDGE NO. 4  
SCALE: 1" = 50'



PROFESSIONAL ENGINEER'S  
CERTIFICATION

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS  
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2013 EDITION, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

BASE OF LEVELS  
NAVD 1988  
NAD 1983



Contract Number 2018-CB-040  
Number of Sheet 1  
Total Sheets 10











FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-887	2018	7	10

**SUGGESTED CONSTRUCTION SEQUENCE**



**BLEACHERY BRIDGE NO. 4:**

1. INSTALL ALL SOIL EROSION AND SEDIMENTATION CONTROLS.
2. INSTALL GEOTEXTILE, GROUT BAGS, AND PVC FILL AND VENT PIPES ALONG CONCRETE ARCH FOOTINGS.
3. PUMP GROUT THROUGH PVC FILL PIPES INTO UNDERMINED CAVITY UNTIL CLEAN GROUT CAN BE SEEN COMING OUT OF VENT PIPES.
4. CUT PVC PIPES FLUSH WITH GROUT BAG SURFACE.
5. INSTALL TEMPORARY WATER CONTROL STRUCTURE ALONG NORTH ABUTMENT.
6. DEWATER TO BELOW THE BOTTOM OF STONE VOID TO BE REPAIRED.
7. PACK MORTAR (TYPE S) TO SEAL VOIDS BETWEEN EXISTING STONE ARCH RING AND EXISTING BACKFILL MATERIAL.
8. FORM VOID AND INJECT WITH SEMI RIGID POLYURETHANE FOAM TO LIMITS SHOWN ON PLANS.
9. ALLOW FOAM TO SET AND REMOVE FORMS.
10. WET LAY GRANITE FACING STONES.
11. FORM AND PUMP ABANDONED STORM DRAINS WITH CONTROLLED LOW STRENGTH MATERIAL AT LOCATIONS INDICATED ON THE PLANS.
12. CLEAN AND RESTORE WORK AREA WITHIN WATERWAY.
13. REMOVE TEMPORARY WATER CONTROL STRUCTURE.
14. CLEAN AND RESTORE WORK SITE.


**UTILITY NOTES**

1. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE LOCATED USING THE BEST AVAILABLE INFORMATION.
2. BOTH FEDERAL AND STATE LAW (RI GENERAL LAW 39-1.2) REQUIRE NOTIFICATION OF APPROPRIATE UTILITY COMPANIES BEFORE DIGGING, TRENCHING, BLASTING, DEMOLISHING, BORING, BACKFILLING, GRADING, LANDSCAPING, OR OTHER EARTH MOVING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES (INCLUDING THROUGH THE "DIG SAFE" PROGRAM) TO ENSURE THAT ALL UTILITIES, BOTH UNDERGROUND AND OVERHEAD, HAVE BEEN MARKED BEFORE COMMENCEMENT OF SUCH WORK. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE "DIG SAFE" PROGRAM. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANIES, SHALL BE REPAIRED OR REPLACED (AS DEEMED APPROPRIATE BY THE STATE AND/OR THE IMPACTED UTILITY COMPANY) AT NO ADDITIONAL COST TO THE STATE.
3. CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL FOLLOW OSHA REGULATIONS INCLUDING MINIMUM CLEARANCE TO ENERGIZED OVERHEAD LINES.
4. OVERHEAD OR UNDERGROUND UTILITY LINES MAY BE IN CONFLICT WITH REQUIRED TEMPORARY OR PERMANENT CONSTRUCTION, OR THE EQUIPMENT NECESSARY TO PERFORM THIS REQUIRED CONSTRUCTION. DEPENDING UPON THE CONTRACTOR'S METHODS OF CONSTRUCTION, THESE UTILITIES MAY NEED TO BE RELOCATED FOR PORTIONS OF THE CONSTRUCTION PERIOD AND THEN MOVED BACK TO PERMANENT LOCATIONS WHICH MAY BE OTHER THAN CURRENT LOCATIONS. THE ACTUAL RELOCATIONS (TEMPORARY OR PERMANENT) ARE THE RESPONSIBILITY OF THE INDIVIDUAL UTILITY OWNER. HOWEVER, THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THE EXACT LOCATION AND TIMING OF ALL UTILITY RELOCATIONS WITH THE INDIVIDUAL UTILITY OWNER, AND TO PHASE HIS CONSTRUCTION OPERATIONS AS REQUIRED TO ACCOMMODATE ALL (TEMPORARY AND PERMANENT) UTILITY RELOCATIONS. IN ADDITION TO FIELD MEETINGS AND CORRESPONDENCE, THIS COORDINATION MAY INCLUDE STAKINGS AND LOCATIONS, EXCAVATION AND TEMPORARY GRADING, PROVIDING ACCESS TO EXISTING AND FUTURE UTILITY POLE AND CONDUIT LOCATIONS, OR OTHER PHYSICAL WORK AS REQUIRED TO ALLOW FOR UTILITY RELOCATION WORK. THE CONTRACTOR SHALL ENGAGE IN THE NECESSARY COORDINATION OF UTILITY RELOCATIONS AND ASSOCIATED WORK AT NO ADDITIONAL COST TO THE PROJECT OR THE STATE, AND SHALL HAVE NO RIGHT TO ADDITIONAL COMPENSATION FOR DELAYS OR STAGING AND PHASING OF HIS WORK AS A RESULT OF UTILITY RELOCATION WORK.

**JOB SPECIFIC LEGEND**

-  COMPOST FILTER SOCK
-  CONTROLLED LOW STRENGTH MATERIAL

**JOB SPECIFIC SYMBOLS**

 12" COMPOST FILTER SOCK

**EROSION CONTROL AND ENVIRONMENTAL NOTES:**

1. IF RIPRAP IS PRESENT IN AREAS OF PROPOSED COMPOST FILTER SOCK OR COMPOST FILTER SOCK CANNOT BE PLACED DUE TO OPEN FLOWS, COMPOST FILTER SOCK MAY BE OMITTED.
2. ALL EROSION CONTROLS, INCLUDING TURBIDITY CURTAINS AND WATER CONTROL DEVICES SHALL BE IN PLACE AND ACCEPTED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION.
3. ALL TEMPORARY WATER CONTROLS AND/OR TURBIDITY CURTAINS SHALL BE REMOVED IN THEIR ENTIRETY UPON COMPLETION OF THE WORK.
4. ALL WORK WILL RESULT IN NO NET CHANGE OF THE CHANNEL CROSS-SECTION.
5. THERE WILL BE NO ADVERSE IMPACTS TO THE STREAM OR AQUATIC SPECIES AS A RESULT OF THIS PROJECT. SEE WETLAND DELINEATION AND SITE RECONNAISSANCE BY MASON & ASSOCIATES DATED FEBRUARY 22, 2018.

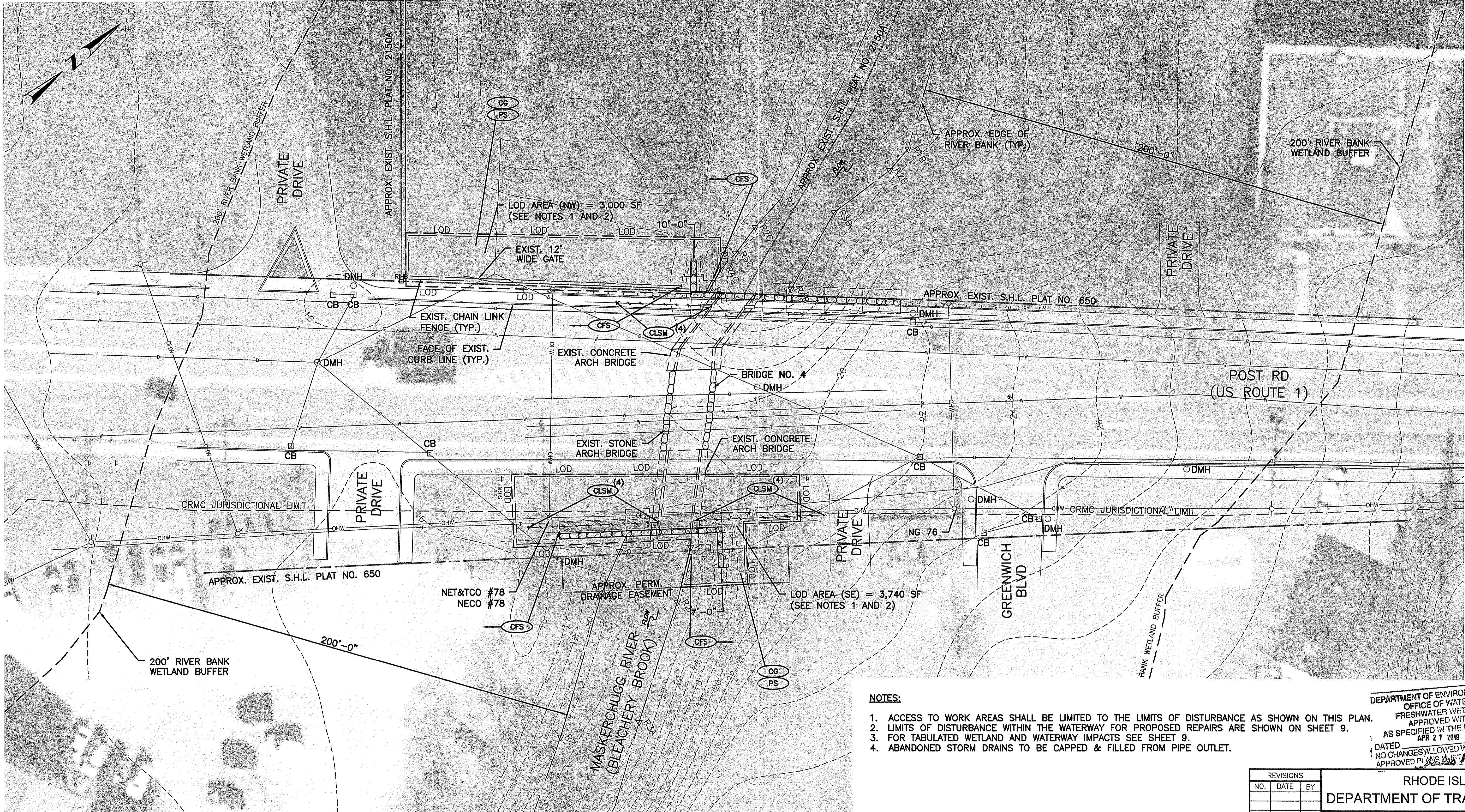
MAR 23 2018

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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 DATED APR 27 2018 FILE # 18-0054  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*James A. Herbert*

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION HIGH PRIORITY REPAIRS TO BLEACHERY BRIDGE NO. 4 & POTTER HILL CULVERT NO. 51 EAST GREENWICH & HOPKINTON RHODE ISLAND
NO.	DATE	BY	
			JOB SPECIFIC GENERAL NOTES - 2



CHECKED BY MJA DATE MAR 2018 SCALE NO SCALE



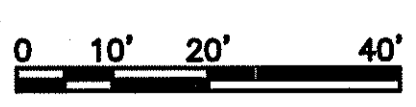
MAR 23 2018

**NOTES:**

1. ACCESS TO WORK AREAS SHALL BE LIMITED TO THE LIMITS OF DISTURBANCE AS SHOWN ON THIS PLAN.
2. LIMITS OF DISTURBANCE WITHIN THE WATERWAY FOR PROPOSED REPAIRS ARE SHOWN ON SHEET 9.
3. FOR TABULATED WETLAND AND WATERWAY IMPACTS SEE SHEET 9.
4. ABANDONED STORM DRAINS TO BE CAPPED & FILLED FROM PIPE OUTLET.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 APR 27 2018 FILE # 18-0054  
 DATED  
 NO CHANGES ALLOWED WITHOUT APPROVAL  
 APPROVED PLANS LISTED AS: *[Signature]*

GENERAL PLAN  
 SCALE: 1" = 20'-0"



REVISIONS		
NO.	DATE	BY

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION  
 HIGH PRIORITY REPAIRS TO  
 BLEACHERY BRIDGE NO. 4 &  
 POTTER HILL CULVERT NO. 51  
 EAST GREENWICH RHODE ISLAND

GENERAL PLAN  
 BLEACHERY BRIDGE NO. 4



CHECKED BY MJA DATE MAR 2018 SCALE 1"=20'



