

---

**State of Rhode Island**  
**Coastal Resources Management Council**  
**Oliver H. Stedman Government Center**  
**4808 Tower Hill Road, Suite 3**  
**Wakefield, RI 02879**  
**(401)783-3370**

---

---

**State of Rhode Island**  
**Department of Environmental Management**  
**Office of Technical and Customer Asst.**  
**235 Promenade Street**  
**Providence, RI 02908-5767**  
**(401)222-6822**

---

**JOINT PUBLIC NOTICE**

(Corrected 04-28-2020 to make Joint Notice)

CRMC File No.: 2020-02-086

Date: April 27, 2020

RIDEM Water Quality Certification Number: 20-043

These offices have under consideration the application of:

**RI Department of Transportation**  
**Attn: Brian Moore, P.E.**  
**360 Lincoln Avenue**  
**Warwick, RI 02888**

for State of Rhode Island Assent (in accordance with the Coastal Resources Management Program), and State of Rhode Island Water Quality Certification (in accordance with Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the RIGL, as amended).

The Rhode Island Department of Transportation (RIDOT) plans to partially demolish the existing six-lane George Henderson Memorial Bridge No. 600 (Bridge) which spans the Seekonk River between Providence and East Providence and the expressway interchange in East Providence to construct a new smaller replacement bridge (the Project). The new bridge will be reduced to three 11-foot travel lanes, two westbound and one eastbound, two 3.5-foot shoulders, and a separated 12-foot Shared Use Path (SUP). The SUP will connect on-street bicycle networks in East Providence with the Blackstone River Bikeway in Providence.

In Providence, the Waterman Street approach ramp will be realigned and reduced to a single lane. The bridge egress to South Angel Street will not be modified. In East Providence, the existing freeway ramps will be removed. A two-lane roundabout will be installed at the intersection of the Bridge/Henderson Expressway/Waterfront Drive with a right-turn southbound slip ramp from Massasoit Avenue and an eastbound slip ramp from the Bridge to relocated Waterfront Drive. South of the roundabout, Waterfront Drive will be realigned to connect with Massasoit Avenue. This new combined roadway will have two lanes of traffic in each direction and will provide direct connectivity to the neighborhood east of existing Massasoit Avenue. Waterman Avenue will intersect with the relocated Waterfront Drive and north of the bridge Waterfront Drive will be terminated at a southbound slip lane from Massasoit Avenue to the Bridge. The project plans are provided as follows:

**Volume 1: Highway Plans Description**

The Volume 1 Plans show the Project layout. Proposed impact to Freshwater Wetland 1 north of the East Providence approach is depicted in the Project Overview figure. RIDOT will compensate for this partial wetland loss by restoring an adjacent historic wetland area filled by an abandoned railroad

grade and planting native wetland plants (see Wetland Mitigation Plan and Grading Plan No. 5). The restored wetland area will be 2.7 times the area filled by the Project. The Project meets stormwater treatment goals by removing existing impervious surface areas and constructing a new sand filter stormwater treatment unit (see Drainage Details sheet and Grading Plan No. 22) in East Providence.

## Volume 2: Bridge Plans

Profile Sheets 1 and 2 show how the new bridge will utilize the existing in-water pile supported foundations for Piers 1 through 6 that were inspected and determined structurally competent by RIDOT. Pier 7, nearest the East Providence shoreline, will be reconstructed 12.5-feet west (riverward) on a strengthened pile foundation to support a lengthened span to the new eastern abutment. The new bridge will be maintained at the existing height over the Seekonk River and the dimensions of the navigational channel between Piers 3 and 4 will remain the same. Marine mattresses will be installed at the foundations of Piers 2 through 6 to prevent scouring around the foundations. The Typical Sections sheet shows the proposed travel-lane layout of the bridge with two-westbound travel lane, one eastbound travel lane, and a SUP separated by a barrier from the vehicle travel lanes.

Project Location: Henderson Bridge & Expressway

City/Town: Providence/East Providence

Waterway: Seekonk River

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter. You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

This also serves as notice that the Rhode Island Department of Environmental Management, Office of Water Resources, Water Quality Certification Program has under consideration and review the same proposed activity as described above for compliance with the State's Water Quality Regulations (AUTHORITY: in accordance with Clean Water Act, as amended (33 U.S.C. 1251 et.seq.; Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the Rhode Island General Laws of 1956, as amended).

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing and be received at this office on or before May 28, 2020.

It is expected that objectors will review the application and associates plans thoroughly. Comments that pertain to this Joint Notice must be submitted in writing and must be addressed to Rhode Island Coastal Resources Management Council and Rhode Island Department of Environmental Management at the above referenced addresses.

/lat

# VOLUME 1

## INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND AND NOTES
6	KEY PLAN
7-11	TYPICAL SECTIONS NOS. 1-5
12-32	SITE PREPARATION PLAN NOS. 1-21
33-53	GENERAL PLAN NOS. 1-21
54-59	MISCELLANEOUS DETAILS NOS. 1-6
60-90	DRAINAGE AND UTILITY PLAN NOS. 1-21
91	DRAINAGE DETAILS
92-102	LOCATION PLAN NOS. 1-21
103-104	LOCATION PLAN-TRAVERSE SHEET NOS. 1-2
105-106	PROFILE NOS. 1-21
126-147	GRADING PLAN NOS. 1-22
148	WETLAND MITIGATION PLAN
149-169	SIGNING AND STRIPING PLAN NOS. 1-21
170-172	SIGNING AND STRIPING TYPICAL DETAILS NOS. 1-3
173	TRAFFIC SIGNAL PLAN NO. 1
174	LIGHTING LEGEND
175-195	LIGHTING PLAN NOS. 1-21
196-197	LIGHTING DETAIL SHEET NOS. 1-2

## LIST OF VOLUMES

VOLUME 1 - HIGHWAY & LIGHTING PLANS  
VOLUME 2 - BRIDGE PLANS  
VOLUME 3 - TEMPORARY TRAFFIC CONTROL PLANS  
VOLUME 4 - CROSS SECTIONS

## R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 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, 1998 EDITION, WITH ALL REVISIONS.

STATE OF RHODE ISLAND



# DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

## STATE HIGHWAY

### BRIDGE GROUP 49 - HENDERSON

### RECONSTRUCTION OF HENDERSON BRIDGE NO. 600

PROVIDENCE - SOUTH ANGELL STREET AND WATERMAN STREET TO HENDERSON BRIDGE  
EAST PROVIDENCE - HENDERSON BRIDGE TO NORTH BROADWAY

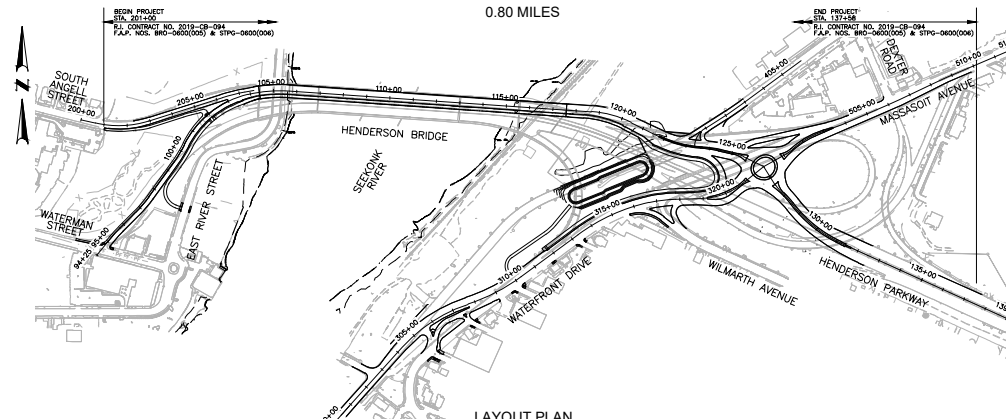
CITIES OF PROVIDENCE AND EAST PROVIDENCE

COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2019-CB-094 F.A. PROJECT NOS. BRO-0600(005) & STPG-0600(006)

PAVEMENT STRUCTURE

2" MODIFIED CLASS 9.5  
6" MODIFIED CLASS 19 HMA  
12" GRAVEL BORROW SUBBASE COURSE  
0.80 MILES



LAYOUT PLAN

SCALE: 1"=250'

SCALES OF DRAWINGS

Plans 1 inch = 20 feet

BASE OF LEVELS

NAVD 88

NAD 83 (2011) (EPOCH 2010)

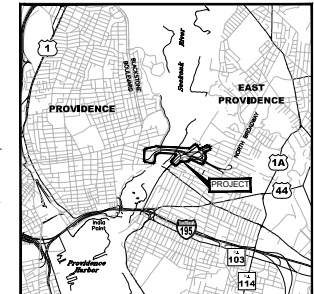


Contract Number 2019-CB-094

Number of Sheet 1

Total Sheets 197

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0600(005) & STPG-0600(006)	2020	1	197



LOCATION MAP

SCALE: 1"=300'

## DESIGN DESIGNATION

	HENDERSON BRIDGE	HENDERSON PARKWAY AVENUE	MASSASOIT AVENUE	WATERFRONT DRIVE
2019 AADT	20,900 V.P.D.	9,600 V.P.D.	10,500 V.P.D.	4,500 V.P.D.
2043 AADT	24,000 V.P.D.	11,100 V.P.D.	11,200 V.P.D.	24,200 V.P.D.
D	55% WB	60% WB	56% NB	82% NB
K	11.2%	10.7%	9.5%	9.1%
T	2.1%	1.4%	8.3%	8.9%
2019 DHV	2,340 V.P.H.	1,030 V.P.H.	1,000 V.P.H.	410 V.P.H.
2043 DHV	2,690 V.P.H.	1,190 V.P.H.	1,070 V.P.H.	2,200 V.P.H.
DESIGN SPEED	35 M.P.H.	35 M.P.H.	30 M.P.H.	35 M.P.H.

## HURRICANE EVACUATION ROUTE

This project does not include work on a designated Hurricane Evacuation and Diversionary Route.

## CRMC SUBMISSION FEBRUARY 2020

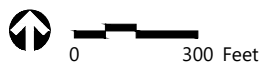
R.I. DEPARTMENT OF TRANSPORTATION

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





Source: RIGIS 2018 Aerial

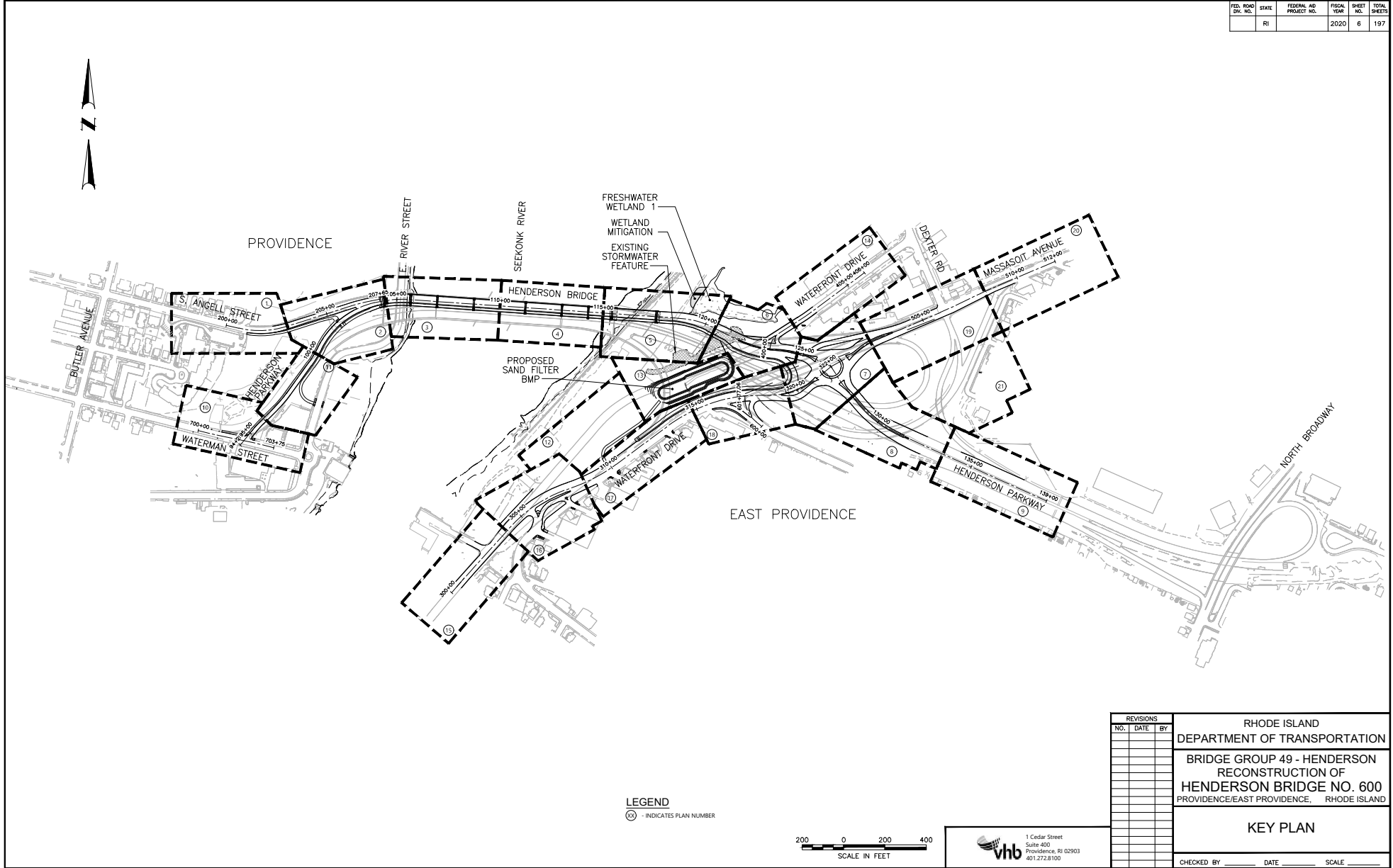


- |  |   |
|--|---|
|  Proposed Bridge and Road Structure |  Access Road to Proposed Stormwater Treatment Unit |
|  Proposed Shared-Use Path           |  Freshwater Wetland                                |



Project Overview  
Reconstruction of Henderson Bridge No. 600  
Bridge Group 49 - Henderson  
Providence/East Providence, Rhode Island

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	6	197

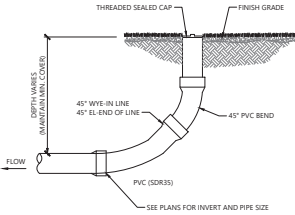


**LEGEND**  
 (X) - INDICATES PLAN NUMBER

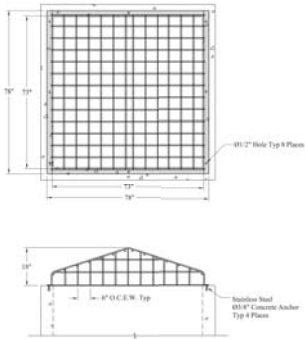
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
			BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND	
			KEY PLAN	
			CHECKED BY _____ DATE _____ SCALE _____	

**vhb**  
 1 Cedar Street  
 Suite 400  
 Providence, RI 02903  
 401.272.8100

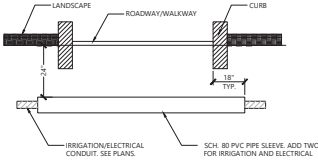
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	81	197



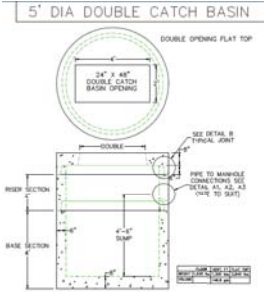
**Cleanout - BMP Area**  
 N.T.S. Source: VHB 2/20 LD\_302



**Top Grate Peaked Roof 6'x6'**  
 N.T.S. 01/2020

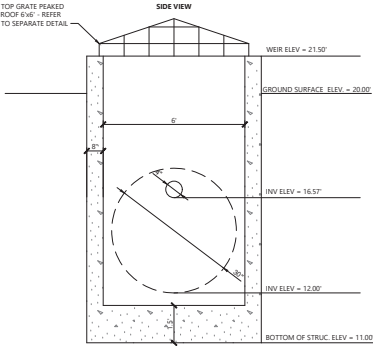
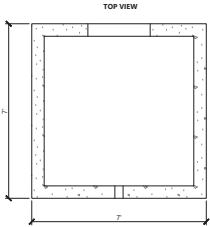


**Sleeving**  
 N.T.S. REV 1/16 LD\_840 4.7.2M



THIS DETAIL IS PROVIDED FOR THE TOP SLAB ONLY. STRUCTURE BASES TO BE SUPPLIED PER RIDOT STANDARD DETAILS

**4.7.2M Alternate Top Cover**  
 N.T.S. 01/2020 4.7.2M



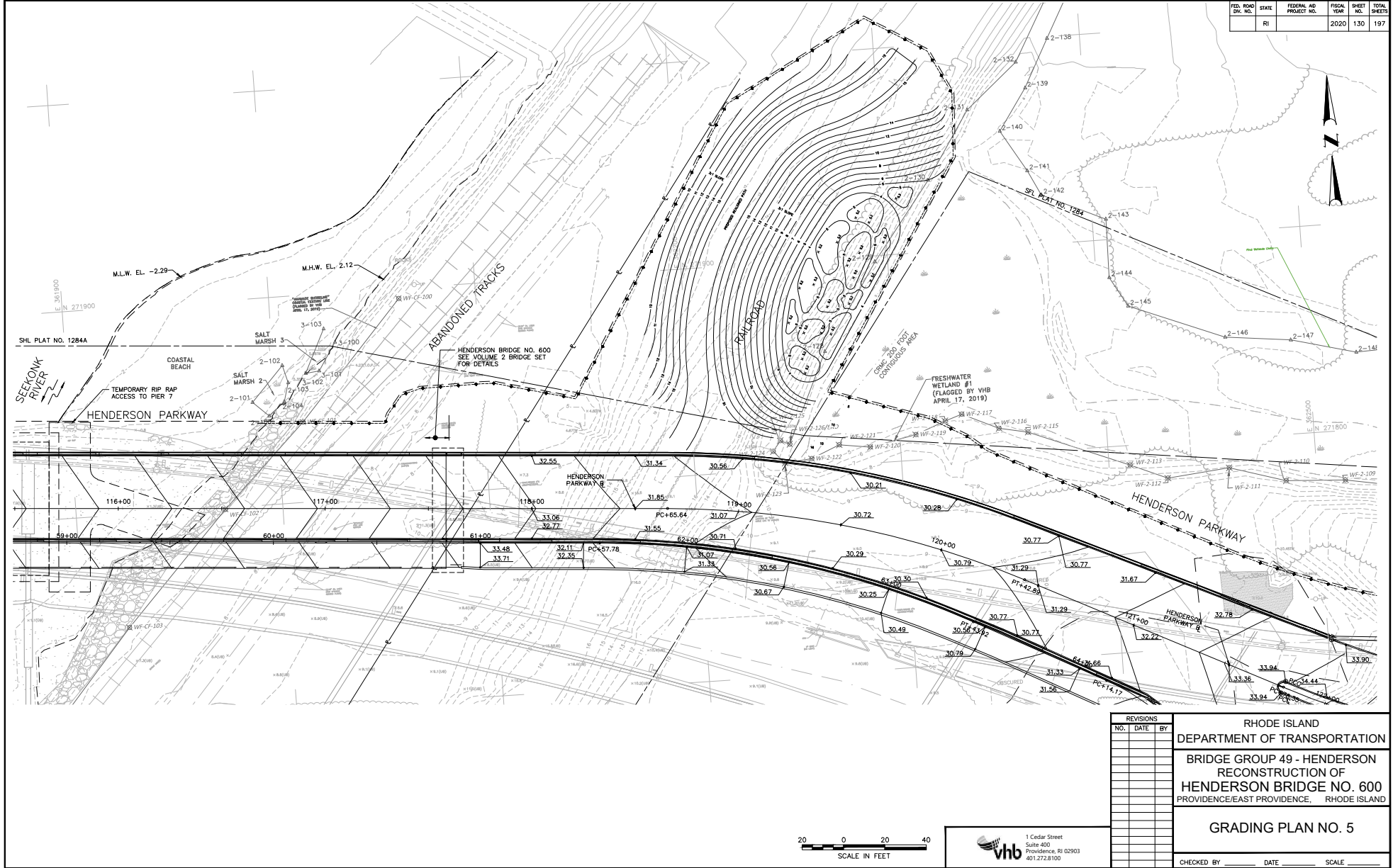
- NOTES:
1. STRUCTURE TO BE MANUFACTURED TO MEET OR EXCEED ASTM C-478 & AASHTO M 199 SPECS.
  2. CONCRETE = 4000 PSI MINIMUM CEMENT PER ASTM C-478 (B.1)
  3. REINFORCED STEEL PER MANUFACTURES RECOMMENDATION AND CONFORMING TO LATEST ASTM A 185 SPECIFICATIONS
  4. BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-198

**Sand Filter BMP Outlet Control Structure**  
 N.T.S. 11/19 LD.

REVISIONS			NO.	DATE	BY	RHODE ISLAND DEPARTMENT OF TRANSPORTATION  BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND
						DRAINAGE DETAILS
CHECKED BY _____ DATE _____ SCALE _____						



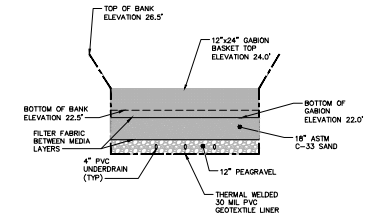
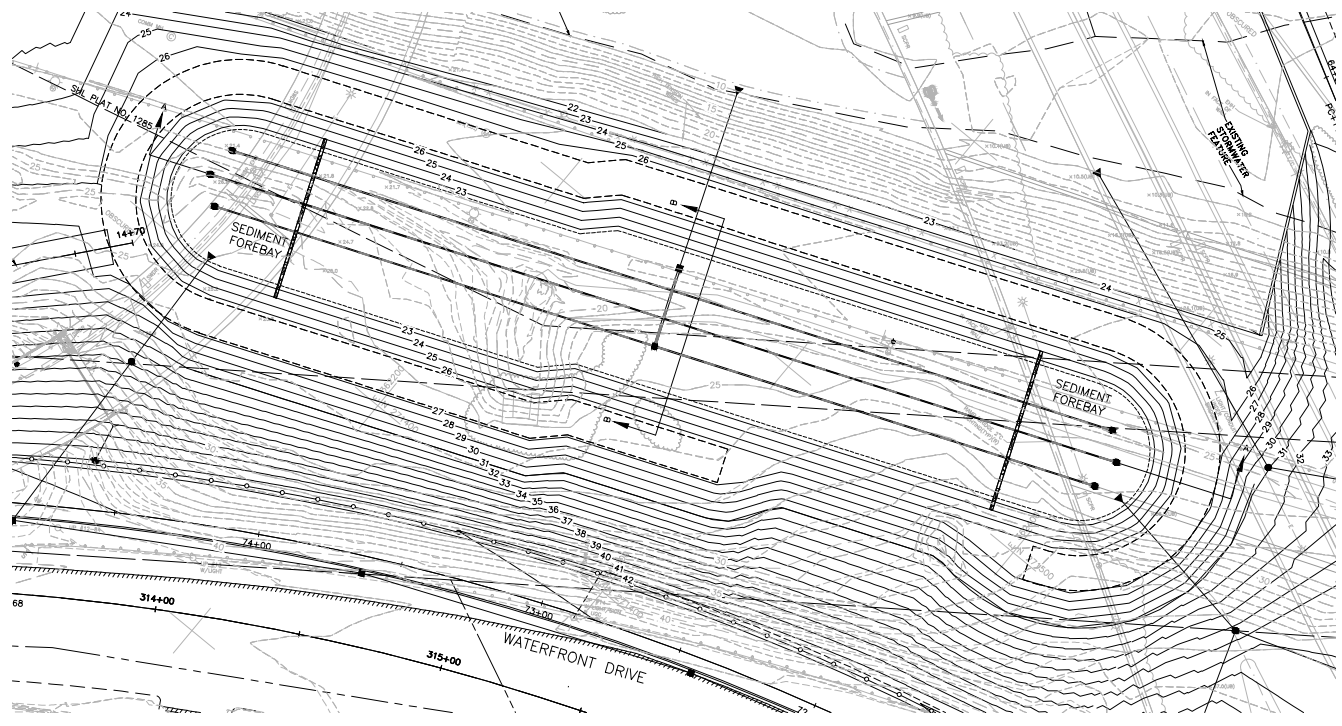
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	130	197



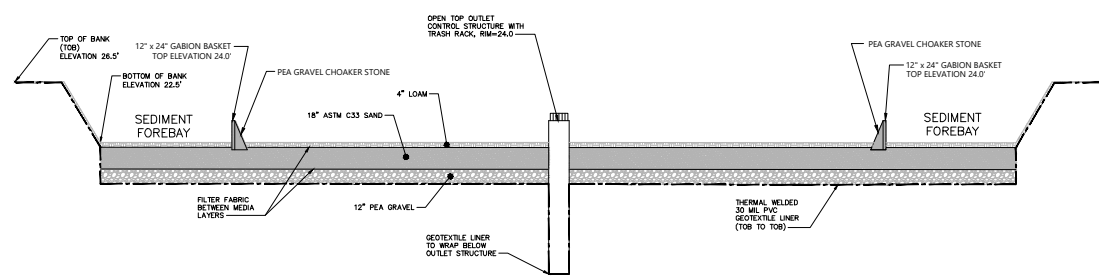
**vhb**  
 1 Cedar Street  
 Suite 400  
 Providence, RI 02903  
 401.272.8100

REVISIONS			DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
			BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND	
			GRADING PLAN NO. 5	
			CHECKED BY _____ DATE _____ SCALE _____	

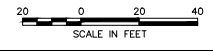
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	147	197



**SECTION B-B  
TYPICAL BASIN**  
 SCALES:  
 VERTICAL 4"=1"  
 HORIZONTAL 20'=1"



**SECTION A-A  
TYPICAL BASIN**  
 SCALES:  
 VERTICAL 4"=1"  
 HORIZONTAL 20'=1"



**vhb**  
 1 Cedar Street  
 Suite 400  
 Providence, RI 02903  
 401.272.8100

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			BRIDGE GROUP 49 - HENDERSON	
			RECONSTRUCTION OF	
			HENDERSON BRIDGE NO. 600	
			PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND	
			GRADING PLAN NO. 22	
			CHECKED BY	DATE





## VOLUME 2

### INDEX

FOR VOLUME 2 INDEX REFER TO SHEET 2

### LIST OF VOLUMES

VOLUME 1 - HIGHWAY & LIGHTING PLANS  
VOLUME 2 - BRIDGE PLANS  
VOLUME 3 - TEMPORARY TRAFFIC CONTROL PLANS  
VOLUME 4 - CROSS SECTIONS

STATE OF RHODE ISLAND



## DEPARTMENT OF TRANSPORTATION

### PLANS OF PROPOSED STATE HIGHWAY

## BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600

PROVIDENCE - SOUTH ANGELL STREET AND WATERMAN STREET TO HENDERSON BRIDGE  
EAST PROVIDENCE - HENDERSON BRIDGE TO NORTH BROADWAY

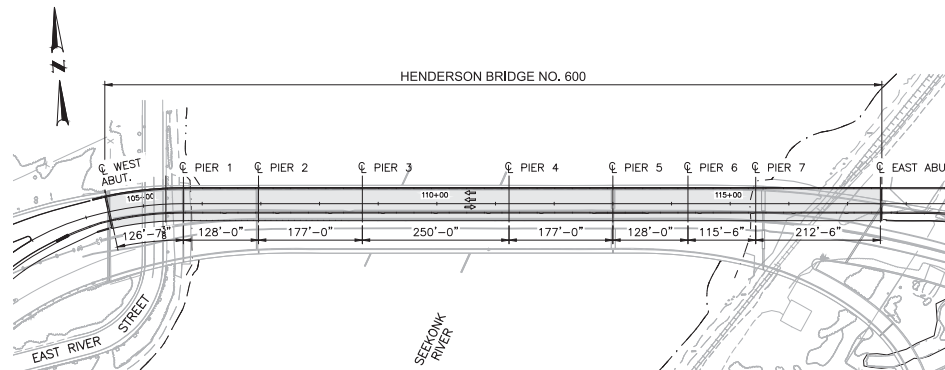
CITIES OF PROVIDENCE AND EAST PROVIDENCE  
COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2019-CB-094 F.A. PROJECT NOS. BRO-0600(005) & STPG-0600(006)

0.80 MILES

### R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 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, 1998 EDITION, WITH ALL REVISIONS.



LAYOUT PLAN  
SCALE: 1"=100'

SCALES OF DRAWINGS  
Plans AS SHOWN

BASE OF LEVELS  
NAVD 88  
NAD 83 (2011) (EPOCH 2010)

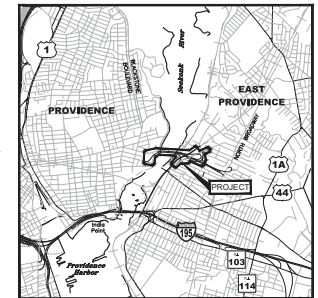


Contract Number 2019-CB-094

Number of Sheet 1

Total Sheets 149

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0600(005) & STPG-0600(006)	2020	1	149



LOCATION MAP  
SCALE: 1"=3600'

### DESIGN DESIGNATION

HENDERSON BRIDGE	
2019 AADT	20,900 V.P.D.
2043 AADT	24,000 V.P.D.
D	55% WB
K	11.2%
T	2.1%
2019 DDHV	2,340 V.P.H.
2043 DHV	2,690 V.P.H.
DESIGN SPEED	35 M.P.H.

### HURRICANE EVACUATION ROUTE

This project does not include work on a designated Hurricane Evacuation and Diversionary Route.

### CRMC SUBMISSION FEBRUARY 2020

R.I. DEPARTMENT OF TRANSPORTATION

APPROVED

ADMINISTRATOR, PROJECT MANAGEMENT DATE

APPROVED

CHIEF ENGINEER OF INFRASTRUCTURE DATE

APPROVED

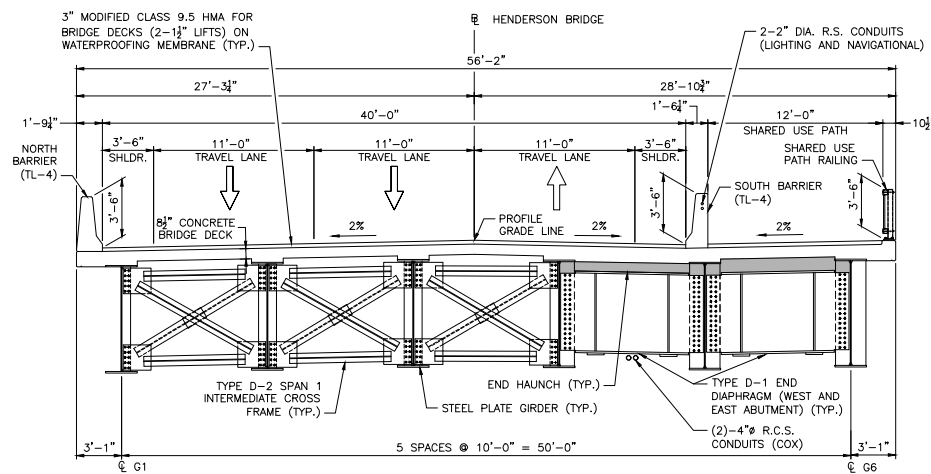
DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

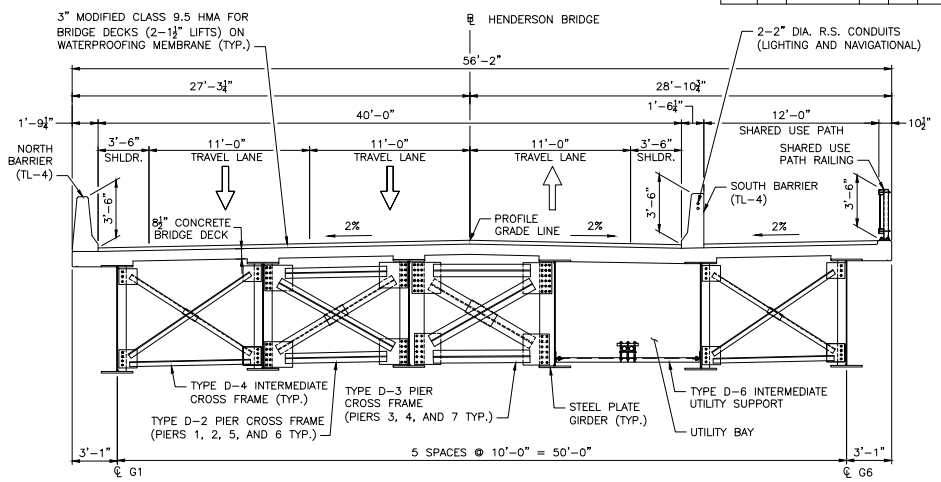
APPROVED

DIVISION ADMINISTRATOR DATE

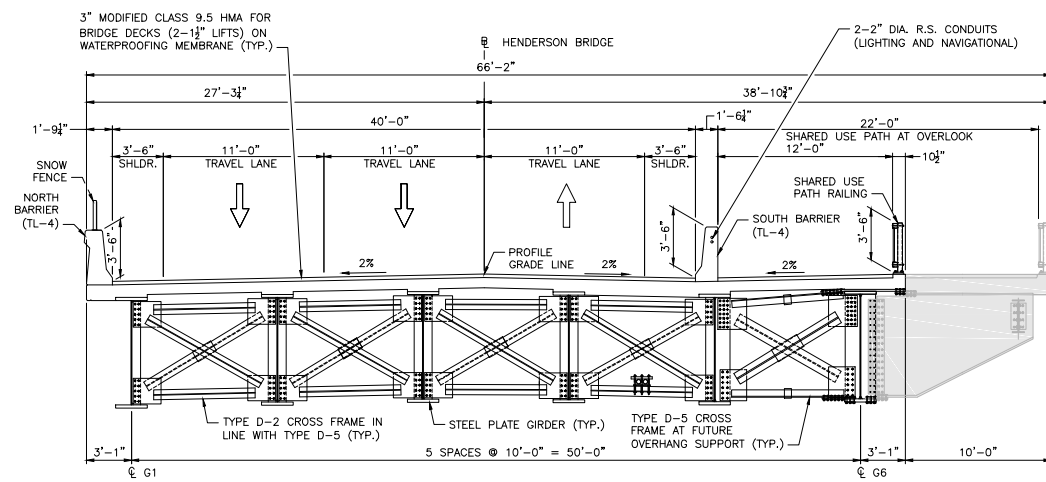
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	10	149



**BRIDGE TYPICAL SECTION - SPAN 1**  
(LOOKING UPSTATION)  
SCALE: 1/4"=1'-0"



**BRIDGE TYPICAL SECTION - SPAN 2-8**  
(LOOKING UPSTATION)  
SCALE: 1/4"=1'-0"



**BRIDGE TYPICAL SECTION AT FUTURE SHARED USE PATH OVERLOOK**  
(LOOKING UPSTATION)  
SCALE: 1/4"=1'-0"

**LEGEND**  
[Shaded Area] SHARED USE PATH OVERLOOK (N.I.C.)

**NOTES**

- FOR ELECTRICAL AND NAVIGATIONAL LIGHTING PLANS SEE VOLUME 1.
- THE SHARED USE PATH SHALL RECEIVE THE SAME BRIDGE PAVEMENT AS THE ROADWAY.

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			BRIDGE GROUP 49 - HENDERSON	
			RECONSTRUCTION OF	
			HENDERSON BRIDGE NO. 600	
			PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND	
			TYPICAL SECTIONS	
			CHECKED BY	DATE

**vhb**  
1 Cedar Street  
Suite 400  
Providence, RI 02903  
401.272.8100





