State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

NOTICE OF PUBLIC HEARING

CRMC File No.: **2023-04-094** **Date:** **April 29, 2024**

In accordance with and pursuant to the provisions of the "Administrative Procedures Act", (Chapter 42-35 et. seq. of the General Laws of Rhode Island), and the Rules and Regulations of the Coastal Resources Management Council, a hearing will be held on the petition of:

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

relative to Title 46, Chapter 23, of Section 6 A, B, C, D, E, Title 46 Chapter 23 Section 18(b), Title 46, Chapter 6, Section 1, Title 46, Chapter 6, Section 2 of the Rhode Island General Laws of 1956, as amended, for a State of Rhode Island Assent for: for a State of Rhode Island Assent to construct and maintain the Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River (RIC #2022-DB-012) including the installation of new piers, abutments, truss spans, riprap scour protection, and stormwater management. This project requires special exceptions to CRMP § 1.3.1(L)(3)(c) – alterations to coastal wetlands not designated for preservation adjacent to Type3 Waters § 1.3.1(M)(2)(a) – the construction of new public transportation facilities in tidal waters, § 1.3.1(G)(3)(c) – the filling on a coastal feature or tidal waters, and § 1.3.1(J)(3)(a) – filling in Type 2 waters Variances are required for (CRMP § 1.3.1(B)(3)(a)(6)), filling rather than cutting on causeway slopes and §1.3.1(B)(3)(e)(1)(AA)).filling on slopes steeper than 15 percent.***Public Notice Revision*** -- The most recent revised submission has proposed to locate the public fishing pier on the western side of the Barrington River instead of the previously proposed eastern side. The fishing pier is a public recreational facility consisting of a 20'x7' and 40'x11'4" fixed pier and a 24'x11'4" terminal T.

The hearing will be held at 6:00 p.m. on Tuesday, May 28, 2024, at the Administration Building, in Conference Room A, located at One Capitol Hill, Providence, RI.

Parties interested in/or concerned with the above-mentioned matter are invited to be present and/or represented by counsel at the above-mentioned time and place. This meeting place is accessible to individuals with disabilities. The meeting location is accessible to handicapped persons. Any individual requiring a reasonable accommodation in order to participate in this meeting should contact CRMC offices at 401-783-3370 at least 72 hours prior to the meeting.

Plans of the proposed work may be seen in the office of the Coastal Resources Management Council, Oliver H. Stedman Government Center, 4808 Tower Hill Road, Wakefield, Rhode Island, between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday.

Oral statements will be heard and recorded, and statements may be submitted to the hearing officers at the time of hearing.

Jeffrey M. Willis, Executive Director 04-29-2024
Coastal Resources Management Council

CRMC Mailing List for **Department of Transportation**
CRMC File Number **2023-04-094**
Semimonthly Meeting - Public Hearing – Special Exception

Department of Transportation Attn: Alisa Richardson 360 Lincoln Avenue Warwick, RI 02888 Alisa.Richardson@dot.ri.gov Erik.Johnston@dot.ri.gov David.Walsh@dot.ri.gov	CRMC (2023-04-094) O. S. Government Center 4808 Tower Hill Road Wakefield, RI 02879 LTurner@crmc.ri.gov ASilva@crmc.ri.gov RSinger@crmc.ri.gov
RIDEM/ Technical & Customer Asst. 235 Promenade Street Providence, RI 02908-5767	Grace M. Anderson 23 Surrey Road Barrington, RI 02806
Town of Barrington (See Barrington Email List) 283 County Road Barrington, RI 02806 Brian Hunt, Harbormaster BHunt@barrington.ri.gov	Christopher & Kerin Lowe 14 New Meadow Road Barrington, RI 02806 ChrisPLowe@gmail.com
Stephen L. & Jane A. Mainella 81 County Road Barrington, RI 02806 mainellaj@gmail.com	Warren German American Club 27 Kelly Street Warren, RI 02885
Town of Warren (See Email List) 514 Main Street Warren, RI 02885	Scott Hobson VHB shobson@vhb.com
RI Salt Water Anglers Association Scott Travers travers@risaa.org	Richard Hittinger hittinger@risaa.org
Christopher D'Ovidio 225 Dyer Street, 2nd Floor Providence, RI 02903 chris@dovidiolaw.com	Michael Woods RhodeIsland@backcountryhunters.org Brian Bird Bird@backcountryhunters.org Chris Borgatti Borgatti@backcountryhunters.org
Adam Rojek Arojek1212@gmail.com Alex Brown, Al.brownman@gmail.com Howard Dooley, Howard.Dooley@gmail.com	Nelson L. Hawkins, Jr. Barrington Harbor Commission Nelson.hawkins.jr@wellsfargoadvisors.com Ben Carlson carlsonb21@icloud.com
The Sukheila Family amelhusseini@gmail.com	Caroline Contrata – ccontrata@gmail.com Bill Laird bl52752@gmail.com William Hayes WHayesRI@gmail.com
William Jacobson wjacob7991@aol.com William Hitchcock w.tim.hitchcock@gmail.com Thomas Horn th.4000@icloud.com Geoffrey McNally jeff_ri@cox.net	Town E-List – Barrington and Warren

Lisa Turner

From: Lisa Turner <lturner@crmc.ri.gov>
Sent: Monday, April 29, 2024 2:39 PM
To: 'Andres Aveledo'; 'asilva@crmc.ri.gov'; 'Hamid (DOT)"; 'Prezioso, Andrew'
Cc: 'shobson@vhb.com'; 'Amy L Silva'; 'Ross Singer'
Subject: CRMC File 2023-04-094 RIDOT EBBP-Barrington Warren - Rescheduling Notice/Public Notice
Attachments: ProJo Letter for Pub Hearing 05-28-2024.pdf; RIDOT Pub Hrg Notice 05-28-2024 mtg for ProJo.pdf

Good Afternoon All: Please see the attached letter and Public Hearing Notice. Please post in the Providence Journal by next week for proper notification.

Cordially,
Lisa Turner

Lisa A. Turner, Office Manager and Record Keeper
Programming Services Officer
Coastal Resources Management Council
Oliver Stedman Government Center
4808 Tower Hill Road; Room 116
Wakefield, RI 02879
401-783-3370

From: Andres Aveledo <aaveledo@aetnabridge.com>
Sent: Monday, April 29, 2024 12:43 PM
To: asilva@crmc.ri.gov; 'Hamid (DOT)" <Hamid.Akinfolarin@dot.ri.gov>; 'Prezioso, Andrew' <APrezioso@VHB.com>
Cc: shobson@vhb.com; Lisa Turner <lturner@crmc.ri.gov>
Subject: RE: CRMC File 2023-04-094 RIDOT EBBP-Barrington Warren - Rescheduling Notice/Public Notice

Hi Lisa –

We did not yet post the notice you sent to us on 4/9 in the Providence Journal. The question now is whether we can revise the "notice of public hearing" to reflect the new hearing date and proper location of the fishing pier, or if we should instead publish the original notice of public hearing and subsequent revisions sent to us on 4/24.

Please let us know what you think.

Thanks,
Andres

From: asilva@crmc.ri.gov <asilva@crmc.ri.gov>
Sent: Monday, April 29, 2024 11:13 AM
To: Andres Aveledo <aaveledo@aetnabridge.com>; 'Hamid (DOT)" <Hamid.Akinfolarin@dot.ri.gov>; 'Prezioso, Andrew' <APrezioso@VHB.com>
Cc: shobson@vhb.com; Lisa Turner <lturner@crmc.ri.gov>
Subject: RE: CRMC File 2023-04-094 RIDOT EBBP-Barrington Warren - Rescheduling Notice/Public Notice

Andres, the two attachments in my email should be what you need. One is the meeting notice for May 28, and the other is the revised public notice for the relocated timber pier.

Ive forwarded this to Lisa Turner, our office manager if its not.

-Amy

Amy Silva
Supervising Environmental Scientist, CRMC
(401)-783-3370p /(401)-783-2069f
http://www.crmc.ri.gov

From: Andres Aveledo <aaveledo@aetnabridge.com>
Sent: Monday, April 29, 2024 10:40 AM
To: asilva@crmc.ri.gov; 'Hamid (DOT)'' <Hamid.Akinfolarin@dot.ri.gov>; 'Prezioso, Andrew' <APrezioso@VHB.com>
Cc: shobson@vhb.com
Subject: RE: CRMC File 2023-04-094 RIDOT EBBP-Barrington Warren - Rescheduling Notice/Public Notice

Hi Amy – thanks for following up on this. I was going to bring this up as we got closer to the 20-day cutoff, I was assuming that CRMC would be providing us with an updated Notice of Public Hearing for posting in the ProJo since the language marked "Continued" in the email provided to us on the 24th still indicates that the proposed fishing pier is on the eastern side of the Barrington River. To be clear, we held off on posting the notice sent to us on 4/9 since we knew we would be making changes to the fishing pier location. I'm not sure if you were aware of that.

Since it has not yet been posted in the ProJo I was thinking that it would cleanest to simply modify the Notice of Public Hearing to include the May 28th hearing date as well as stating that the proposed pier is on the western side.

However, if we need to post the old notice as well as all the public notice revision provided to us on the 24th we can do that. Let us know what you think.

Andres

From: asilva@crmc.ri.gov <asilva@crmc.ri.gov>
Sent: Monday, April 29, 2024 10:25 AM
To: 'Hamid (DOT)'' <Hamid.Akinfolarin@dot.ri.gov>; 'Prezioso, Andrew' <APrezioso@VHB.com>; Andres Aveledo <aaveledo@aetnabridge.com>
Subject: FW: CRMC File 2023-04-094 RIDOT EBBP-Barrington Warren - Rescheduling Notice/Public Notice

Hamid- the email with the notice went out last week. See attached/email from 4/24.

Amyy

Amy Silva
Supervising Environmental Scientist, CRMC
(401)-783-3370p /(401)-783-2069f
http://www.crmc.ri.gov

From: Lisa Turner <lturner@crmc.ri.gov>
Sent: Wednesday, April 24, 2024 11:46 AM
To: 'Richardson, Alisa (DOT)' <Alisa.Richardson@dot.ri.gov>; 'Erik Johnstone' <erik.johnstone@dot.ri.gov>; 'Akinfolarin, Hamid (DOT)' <Hamid.Akinfolarin@dot.ri.gov>; 'Pompei, Anthony (DOT)' <anthony.pompei@dot.ri.gov>

Cc: Scott Hobson <shobson@vhb.com>; Aprezioso@vhb.com; 'Amy L Silva' <asilva@crmc.ri.gov>; 'Ross Singer' <rsinger@crmc.ri.gov>; 'Lisa Turner' <lturner@crmc.ri.gov>
Subject: CRMC File 2023-04-094 RIDOT EBBP-Barrington Warren - Rescheduling Notice/Public Notice

Good Morning All: Please see the attached CRMC Notices one of which is a CRMC Semimonthly meeting Rescheduling notice from Tuesday, May 14, 2024 to Tuesday, May 28, 2024. The Public Notice is for recent revisions to plans. Please feel free to contact CRMC is you have any questions.

Thank you,
Lisa Turner

Lisa A. Turner, Office Manager and
Programming Svcs Officer
Coastal Resources Management Council
Oliver Stedman Government Center
4808 Tower Hill Road; Room 116
Wakefield, RI 02879
401-783-3370

Virus-free.www.avg.com

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 116
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-3767

April 29, 2024

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

File Number: 2023-04-094
Site Address: East Bay Bike Path Bridges, Barrington River and Palmer River
Towns of Barrington and Warren

Dear Ms. Richardson:

Enclosed is the Public Hearing Notice for the above referenced CRMC File.

Please be advised that the enclosed Public Hearing notice for Special Exception must be advertised in the Providence Journal Bulletin at least 20 days prior to the hearing which is May 28, 2024.

Please provide us with a copy of the Advertisement article with the date intact. (See 4.3.4 of the RI CRMC Management Procedures).

Please call 783-3370 if you have any questions.

Sincerely,

Lisa A. Turner

Lisa A. Turner, Office Manager
Coastal Resources Management Council

/lat

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

NOTICE OF PUBLIC HEARING

CRMC File No.: **2023-04-094** **Date:** **April 29, 2024**

In accordance with and pursuant to the provisions of the "Administrative Procedures Act", (Chapter 42-35 et. seq. of the General Laws of Rhode Island), and the Rules and Regulations of the Coastal Resources Management Council, a hearing will be held on the petition of:

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

relative to Title 46, Chapter 23, of Section 6 A, B, C, D, E, Title 46 Chapter 23 Section 18(b), Title 46, Chapter 6, Section 1, Title 46, Chapter 6, Section 2 of the Rhode Island General Laws of 1956, as amended, for a State of Rhode Island Assent for: for a State of Rhode Island Assent to construct and maintain the Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River (RIC #2022-DB-012) including the installation of new piers, abutments, truss spans, riprap scour protection, and stormwater management. This project requires special exceptions to CRMP § 1.3.1(L)(3)(c) – alterations to coastal wetlands not designated for preservation adjacent to Type3 Waters § 1.3.1(M)(2)(a) – the construction of new public transportation facilities in tidal waters, § 1.3.1(G)(3)(c) – the filling on a coastal feature or tidal waters, and § 1.3.1(J)(3)(a) – filling in Type 2 waters Variances are required for (CRMP § 1.3.1(B)(3)(a)(6)), filling rather than cutting on causeway slopes and §1.3.1(B)(3)(e)(1)(AA)).filling on slopes steeper than 15 percent.***Public Notice Revision*** -- The most recent revised submission has proposed to locate the public fishing pier on the western side of the Barrington River instead of the previously proposed eastern side. The fishing pier is a public recreational facility consisting of a 20'x7' and 40'x11'4" fixed pier and a 24'x11'4" terminal T.

The hearing will be held at 6:00 p.m. on Tuesday, May 28, 2024, at the Administration Building, in Conference Room A, located at One Capitol Hill, Providence, RI.

Parties interested in/or concerned with the above-mentioned matter are invited to be present and/or represented by counsel at the above-mentioned time and place. This meeting place is accessible to individuals with disabilities. The meeting location is accessible to handicapped persons. Any individual requiring a reasonable accommodation in order to participate in this meeting should contact CRMC offices at 401-783-3370 at least 72 hours prior to the meeting.

Plans of the proposed work may be seen in the office of the Coastal Resources Management Council, Oliver H. Stedman Government Center, 4808 Tower Hill Road, Wakefield, Rhode Island, between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday.

Oral statements will be heard and recorded, and statements may be submitted to the hearing officers at the time of hearing.

Jeffrey M. Willis, Executive Director 04-29-2024
Coastal Resources Management Council

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-3767

RESCHEDULING NOTICE

April 23, 2024

Site Address: East Bay Bike Path Bridges
Site Town: Barrington
Proj. Desc: Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River

The application for State Assent of **Department of Transportation** CRMC File Number 2023-04-094 will **Not** be reviewed at the Tuesday, May 14th, 2024 meeting of the Coastal Resources Management Council as was scheduled via CRMC Public Hearing Notice dated April 9, 2024. Please see the enclosed Public Notice for project revisions.

This application has been **rescheduled** for review before the Council on **Tuesday, May 28th, 2024** at 6:00 p.m. in Conference Room A of the Administration Building, One Capitol Hill, Providence, RI.

Individuals requesting interpreter services for the hearing impaired must notify the Council office at 783-3370 at least 72 hours in advance of the hearing date.

Sincerely yours,

Lisa A. Turner

Lisa A. Turner, Office Manager
Coastal Resources Management Council

/lat

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

NOTICE OF PUBLIC HEARING

CRMC File No.: **2023-04-094** **Date:** **April 9, 2024**

In accordance with and pursuant to the provisions of the "Administrative Procedures Act". (Chapter 42-35 et. seq. of the General Laws of Rhode Island), and the Rules and Regulations of the Coastal Resources Management Council, a hearing will be held on the petition of:

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

relative to Title 46, Chapter 23, of Section 6 A, B, C, D, E, Title 46 Chapter 23 Section 18(b), Title 46, Chapter 6, Section 1, Title 46, Chapter 6, Section 2 of the Rhode Island General Laws of 1956, as amended, for a State of Rhode Island Assent for: **Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River (RIC #2022-DB-012) including the installation of new piers, abutments, truss spans, riprap scour protection, and stormwater management. The revised submission includes plans for fishing access and additional rip rap fill for scour protection. Fishing access consists of a permanent bulkhead on the western side of the Palmer River and a public fishing pier on the eastern side of the Barrington River. The fishing pier is a public recreational facility consisting of a 33'8"x11'4" fixed pier and 24'x11'4" terminal T. This project requires special exceptions to CRMP § 1.3.1(L)(3)(c) – alterations to coastal wetlands not designated for preservation adjacent to Type3 Waters § 1.3.1(M)(2)(a) – the construction of new public transportation facilities in tidal waters, § 1.3.1(G)(3)(c) – the filling on a coastal feature or tidal waters, and § 1.3.1(J)(3)(a) – filling in Type 2 waters Variances are required for (CRMP § 1.3.1(B)(3)(a)(6)), filling rather than cutting on causeway slopes and §1.3.1(B)(3)(e)(1)(AA)).filling on slopes steeper than 15 percent.**

The hearing will be held at 6:00 p.m. on Tuesday, May 14, 2024, at the Administration Building, in Conference Room A, located at One Capitol Hill, Providence, RI.

Parties interested in/or concerned with the above-mentioned matter are invited to be present and/or represented by counsel at the above-mentioned time and place. This meeting place is accessible to individuals with disabilities. The meeting location is accessible to handicapped persons. Any individual requiring a reasonable accommodation in order to participate in this meeting should contact CRMC offices at 401-783-3370 at least 72 hours prior to the meeting.

Plans of the proposed work may be seen in the office of the Coastal Resources Management Council, Oliver H. Stedman Government Center, 4808 Tower Hill Road, Wakefield, Rhode Island, between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday.

Oral statements will be heard and recorded, and statements may be submitted to the hearing officers at the time of hearing.

Signed this 9th day of April, 2024.

Jeffrey M. Willis, Executive Director
Coastal Resources Management Council

CONTINUED

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

PUBLIC NOTICE

File Number: 2023-04-094 Date: April 23, 2024

This office has under consideration the application of:

Department of Transportation
360 Lincoln Avenue
Warwick, RI 02888

for a State of Rhode Island Assent to construct and maintain the Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River (RIC #2022-DB-012) including the installation of new piers, abutments, truss spans, riprap scour protection, and stormwater management. This project requires special exceptions to CRMP § 1.3.1(L)(3)(c) – alterations to coastal wetlands not designated for preservation adjacent to Type3 Waters § 1.3.1(M)(2)(a) – the construction of new public transportation facilities in tidal waters, § 1.3.1(G)(3)(c) – the filling on a coastal feature or tidal waters, and § 1.3.1(J)(3)(a) – filling in Type 2 waters Variances are required for (CRMP § 1.3.1(B)(3)(a)(6)), filling rather than cutting on causeway slopes and §1.3.1(B)(3)(e)(1)(AA)).filling on slopes steeper than 15 percent.

Public Notice Revision

The most recent revised submission has proposed to locate the public fishing pier on the western side of the Barrington River instead of the previously proposed eastern side. The fishing pier is a public recreational facility consisting of a 20'x7' and 40'x11'4" fixed pier and a 24'x11'4" terminal T.

Project Location:	East Bay Bike Path Bridges	
Town:	Barrington and Warren	Waterway: Barrington River & Palmer River

Plans of the proposed work can be requested at Cstaff1@crmc.ri.gov.

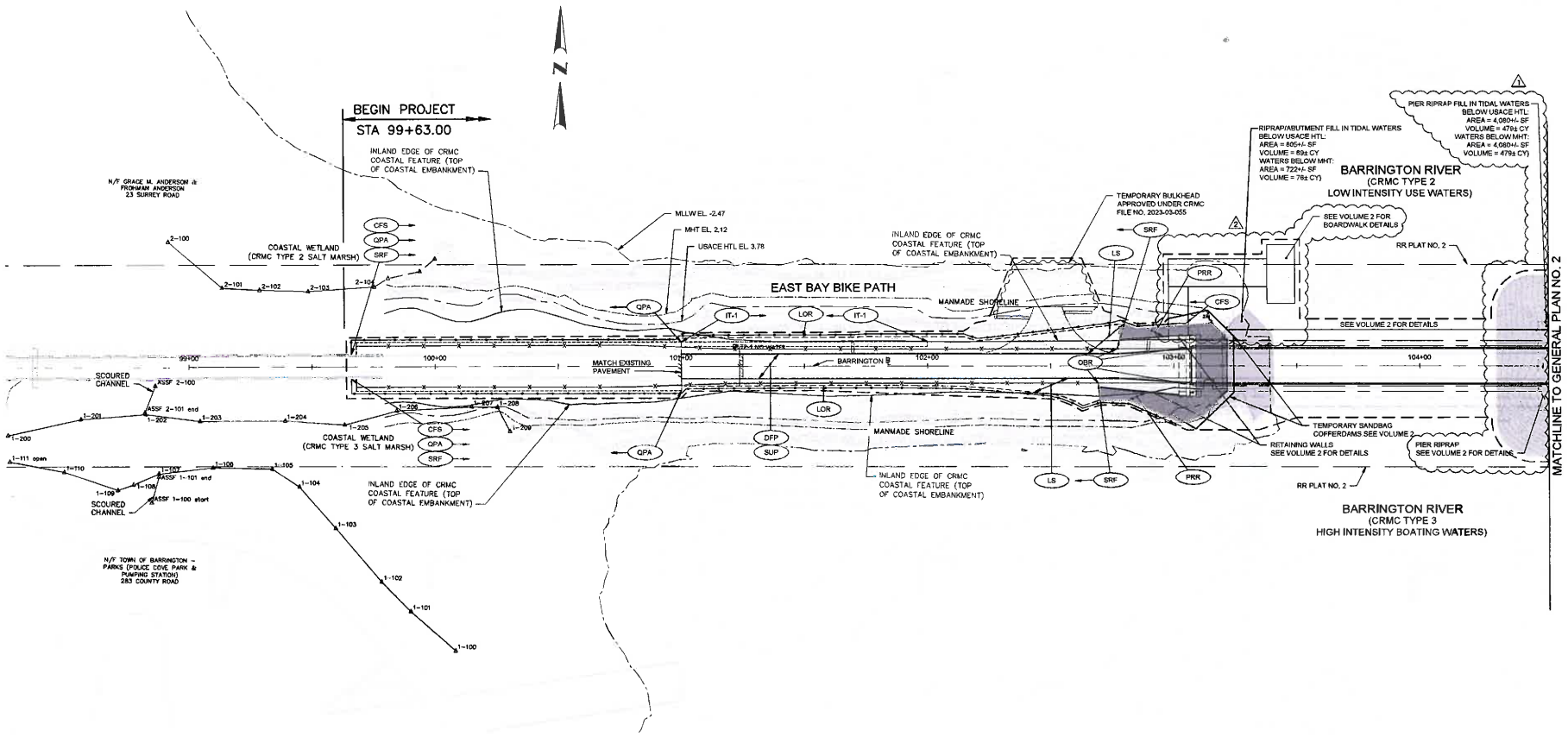
In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

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.

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 **(with your correct mailing address, e-mail address and valid contact number)** and be received at this office on or before **May 23, 2024**. Please email your comments/hearing requests to: cstaff1@crmc.ri.gov; or mail via USPS to: Coastal Resources Management Council; O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

R-2

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	9	26



AETNA Aetna Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 9
OF: 26

SCALE: 1"=20'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			
2	4/18/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

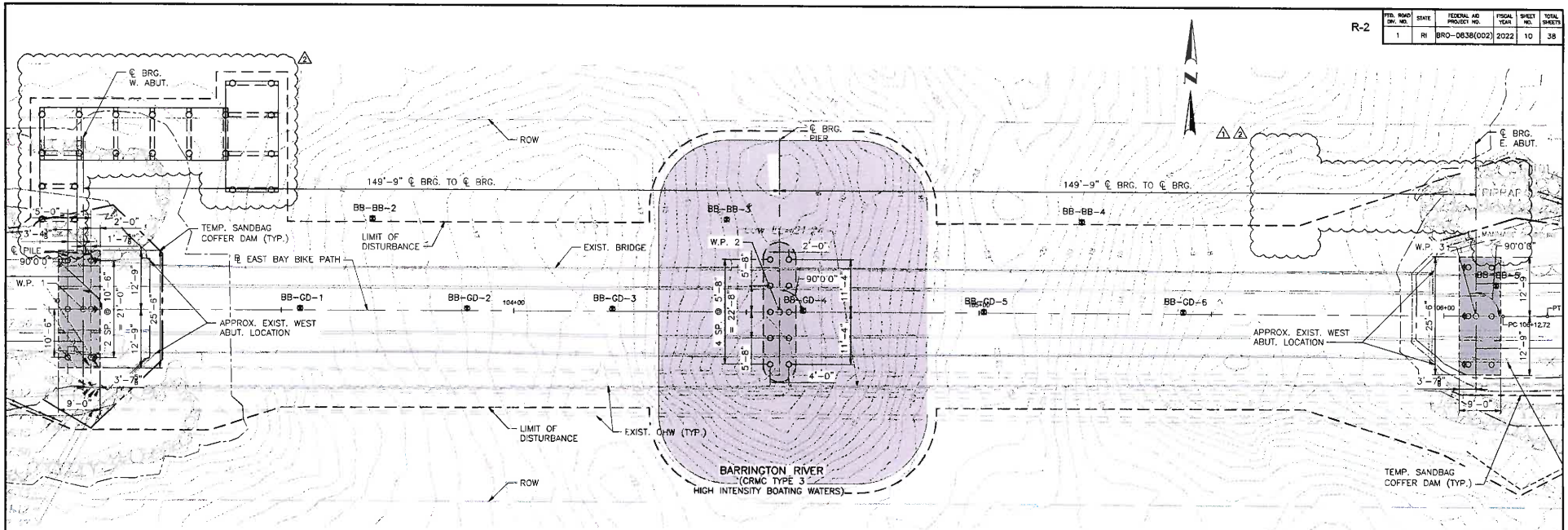
GENERAL PLAN NO. 1

RECEIVED 4/18/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

016BA_V1_009_GENERAL001

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	10	38

R-2



FOUNDATION PLAN

SCALE: 1"=10'

LEGEND

- PROPOSED FOUNDATION
- PIER CAP
- PROPOSED DRILLED MICROPILE (9.625" DIA.) (BATTERED 4:12)
- PROPOSED DRILLED MICROPILE (9.625" DIA. AT ABUTMENT, 14" DIA. AT PIER) (VERTICAL)
- PROPOSED DRILLED STEEL PIPE PILE AT FISHING PIER

EARLY RELEASE FOR CONSTRUCTION (ERC 2) JUNE 2023

AETNA Aetna Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 10
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			
2	4/18/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

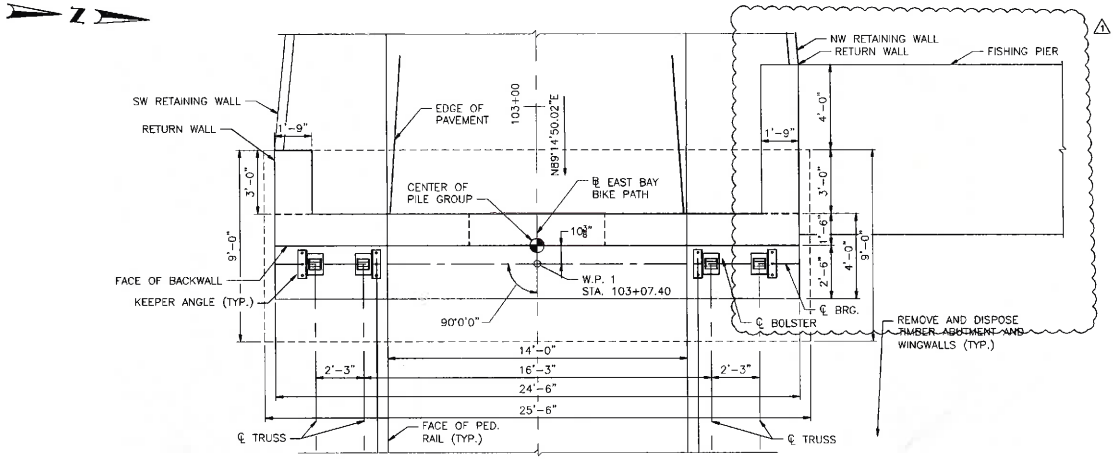
BR. 083751 FOUNDATION PLAN

0188A_V2_010_FOUNDATION_083751

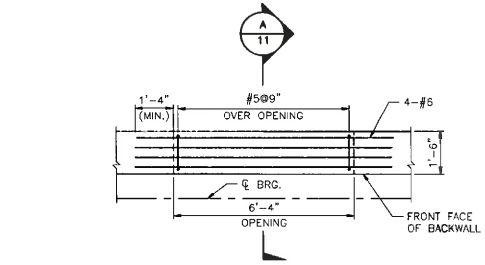
RECEIVED 4/18/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	11	38

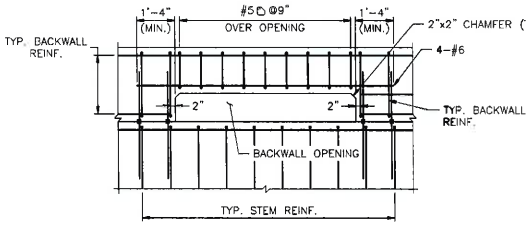
R-1



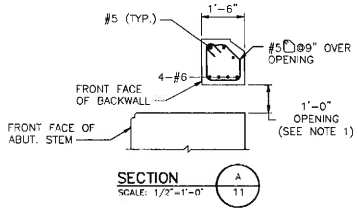
WEST ABUTMENT PLAN
SCALE: 3/8"=1'-0"



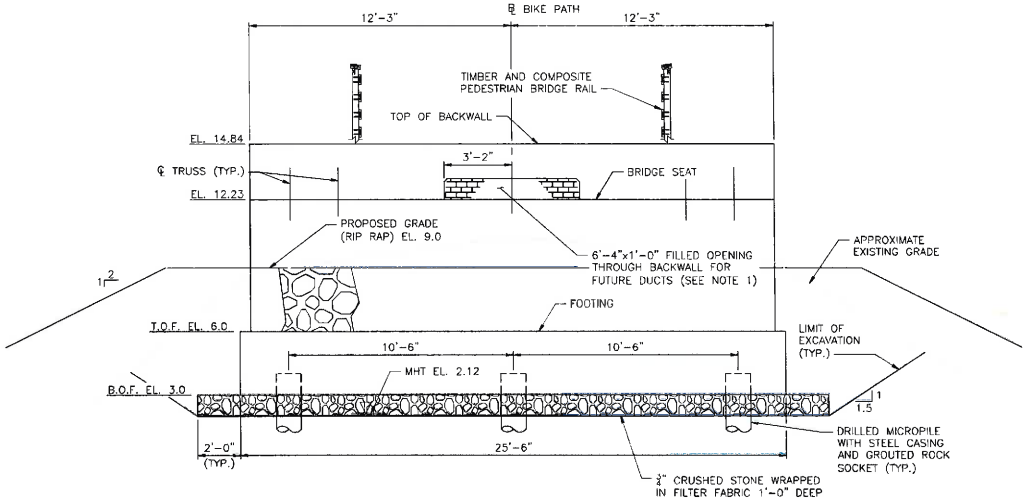
BACKWALL OPENING – PLAN
SCALE: 1/2"=1'-0"



BACKWALL OPENING – ELEVATION
SCALE: 1/2"=1'-0"



SECTION
SCALE: 1/2"=1'-0"



WEST ABUTMENT ELEVATION
SCALE: 3/8"=1'-0"

NOTE:

1. FILL FUTURE DUCT OPENING WITH CLAY BUILDING BRICK (M.04.03.1) AND MORTAR (M.04.03.5) FOR FULL THICKNESS OF BACKWALL.

AETNA Aetna Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 11
OF: 38

SCALE:

REVISIONS				REVISIONS		
NO.	DATE	BY		NO.	DATE	BY
1	4/18/24	VHB				

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 WEST ABUTMENT PLAN AND ELEVATION

0188A_V2_011_WABUT_083751

RECEIVED 4/18/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

CRMC Mailing List for Department of Transportation
CRMC File Number 2023-04-094

Department of Transportation Attn: Alisa Richardson 360 Lincoln Avenue Warwick, RI 02888 Alisa.Richardson@dot.ri.gov Erik.Johnston@dot.ri.gov Hamid.Akinfolarin@dot.ri.gov Anthony.pompei@dot.ri.gov	CRMC (2023-04-094) O. S. Government Center 4808 Tower Hill Road Wakefield, RI 02879 LTurner@crmc.ri.gov ASilva@crmc.ri.gov RSinger@crmc.ri.gov
RIDEM/ Technical & Customer Asst. 235 Promenade Street Providence, RI 02908-5767	Grace M. Anderson 23 Surrey Road Barrington, RI 02806
Town of Barrington 283 County Road Barrington, RI 02806	Christopher & Kerin Lowe 14 New Meadow Road Barrington, RI 02806
Warren German American Club 27 Kelly Street Warren, RI 02885	Scott Hobson, PWS, VHB - shobson@vhb.com Andrew Prezioso, PE, VHB aprezioso@vhb.com
Town of Warren 514 Main Street Warren, RI 02885	Howard Dooley Howard.dooley@gmail.com
RI Salt Water Anglers Association Scott Travers travers@risaa.org Richard Hittinger hittinger@risaa.org	Stephen and Jane Mainella 81 County Road; Barrington, RI 02806 mainellaj@gmail.com
Nicholas M. Toth Tothnm95@gmail.com	Alex Brown al.brownman@gmail.com
Adam Rojek arojek1212@gmail.com	Benjamin Carlson carlsonb21@icloud.com
William Hayes whayesri@gmail.com	Bill Laird bl52752@gmail.com
Tom Horn th.4000@icloud.com	Geoffrey McNally 84 Crest Road; Tiverton, RI 02878 jeff_ri@cox.net
William Hitchcock w.tim.hitchcock@gmail.com	A. Elhusseini amelhusseini@gmail.com
Brian Hunt BHunt@barrington.ri.gov Barrington Harbor Commission	Nelson Hawkins nelson.hawkins.jr@wellsfargoadvisors.com
Caroline Contrata ccontrata@gmail.com	William Jacobson wjacob7991@aol.com
M Woods NE Chapter Backcountry Hunters & Anglers rhodeisland@backcountryhunters.org	Chris D'Ovidio for Christopher Lowe chris@dovidiolaw.com chrisplowe@gmail.com
Town E-List – Barrington and Warren General E List	

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

NOTICE OF PUBLIC HEARING

CRMC File No.: 2023-04-094 **Date:** April 9, 2024

In accordance with and pursuant to the provisions of the "Administrative Procedures Act", (Chapter 42-35 et. seq. of the General Laws of Rhode Island), and the Rules and Regulations of the Coastal Resources Management Council, a hearing will be held on the petition of:

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

relative to Title 46, Chapter 23, of Section 6 A, B, C, D, E, Title 46 Chapter 23 Section 18(b), Title 46, Chapter 6, Section 1, Title 46, Chapter 6, Section 2 of the Rhode Island General Laws of 1956, as amended, for a State of Rhode Island Assent for: **Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River (RIC #2022-DB-012) including the installation of new piers, abutments, truss spans, riprap scour protection, and stormwater management. The revised submission includes plans for fishing access and additional rip rap fill for scour protection. Fishing access consists of a permanent bulkhead on the western side of the Palmer River and a public fishing pier on the eastern side of the Barrington River. The fishing pier is a public recreational facility consisting of a 33'8"x11'4" fixed pier and 24'x11'4" terminal T. This project requires special exceptions to CRMP § 1.3.1(L)(3)(c) – alterations to coastal wetlands not designated for preservation adjacent to Type3 Waters § 1.3.1(M)(2)(a) – the construction of new public transportation facilities in tidal waters, § 1.3.1(G)(3)(c) – the filling on a coastal feature or tidal waters, and § 1.3.1(J)(3)(a) – filling in Type 2 waters Variances are required for (CRMP § 1.3.1(B)(3)(a)(6)), filling rather than cutting on causeway slopes and §1.3.1(B)(3)(e)(1)(AA)).filling on slopes steeper than 15 percent.**

The hearing will be held at 6:00 p.m. on Tuesday, May 14, 2024, at the Administration Building, in Conference Room A, located at One Capitol Hill, Providence, RI.

Parties interested in/or concerned with the above-mentioned matter are invited to be present and/or represented by counsel at the above-mentioned time and place. This meeting place is accessible to individuals with disabilities. The meeting location is accessible to handicapped persons. Any individual requiring a reasonable accommodation in order to participate in this meeting should contact CRMC offices at 401-783-3370 at least 72 hours prior to the meeting.

Plans of the proposed work may be seen in the office of the Coastal Resources Management Council, Oliver H. Stedman Government Center, 4808 Tower Hill Road, Wakefield, Rhode Island, between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday.

Oral statements will be heard and recorded, and statements may be submitted to the hearing officers at the time of hearing.

Signed this 9th day of April, 2024.

Jeffrey M. Willis, Executive Director
Coastal Resources Management Council

CRMC Mailing List for **Department of Transportation**
CRMC File Number **2023-04-094**
Semimonthly Meeting - Public Hearing – Special Exception

Department of Transportation Attn: Alisa Richardson 360 Lincoln Avenue Warwick, RI 02888 Alisa.Richardson@dot.ri.gov Erik.Johnston@dot.ri.gov David.Walsh@dot.ri.gov	CRMC (2023-04-094) O. S. Government Center 4808 Tower Hill Road Wakefield, RI 02879 LTurner@crmc.ri.gov ASilva@crmc.ri.gov RSinger@crmc.ri.gov
RIDEM/ Technical & Customer Asst. 235 Promenade Street Providence, RI 02908-5767 USPS	Grace M. Anderson 23 Surrey Road Barrington, RI 02806 USPS
Town of Barrington 283 County Road Barrington, RI 02806 Brian Hunt, Harbormaster BHunt@barrington.ri.gov Barr. Email list	Christopher & Kerin Lowe 14 New Meadow Road Barrington, RI 02806 ChrisPLowe@gmail.com
Stephen L. & Jane A. Mainella 81 County Road Barrington, RI 02806 mainellaj@gmail.com	Warren German American Club 27 Kelly Street Warren, RI 02885
Town of Warren 514 Main Street Warren, RI 02885 Warren Email list	Scott Hobson VHB shobson@vhb.com
RI Salt Water Anglers Association Scott Travers travers@risaa.org	Richard Hittinger hittinger@risaa.org
Christopher D'Ovidio 225 Dyer Street, 2nd Floor Providence, RI 02903 chris@dovidiolaw.com	Michael Woods RhodeIsland@backcountryhunters.org Brian Bird Bird@backcountryhunters.org Chris Borgatti Borgatti@backcountryhunters.org
Adam Rojek Arojek1212@gmail.com Alex Brown, Al.brownman@gmail.com Howard Dooley, Howard.Dooley@gmail.com	Town E-List – Barrington and Warren General Mailing E-List
The Sukheila Family amelhusseini@gmail.com Caroline Contrata – ccontrata@gmail.com Bill Laird bl52752@gmail.com William Hayes WHayesRI@gmail.com	Nelson L. Hawkins, Jr. Barrington Harbor Commission Nelson.hawkins.jr@wellsfargoadvisors.com Ben Carlson carlsonb21@icloud.com
William Jacobson wjacob7991@aol.com William Hitchcock w.tim.hitchcock@gmail.com Thomas Horn th.4000@icloud.com Geoffrey McNally jeff_ri@cox.net	

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 116
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-3767

April 9, 2024

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

File Number: 2023-04-094
Site Address: East Bay Bike Path Bridges, Barrington River and Palmer River
Towns of Barrington and Warren

Dear Ms. Richardson:

Enclosed is the Public Hearing Notice for the above referenced CRMC File.

Please be advised that the enclosed Public Hearing notice for Special Exception must be advertised in the Providence Journal Bulletin at least 20 days prior to the hearing. Please provide us with a copy of the Advertisement article with the date intact. (See 4.3.4 of the RI CRMC Management Procedures).

Please call 783-3370 if you have any questions.

Sincerely,

Lisa A. Turner

Lisa A. Turner, Office Manager
Coastal Resources Management Council

/lat

Lisa Turner

From:	Lisa Turner <lturner@crmc.ri.gov>
Sent:	Tuesday, April 9, 2024 1:50 PM
To:	'Akinfolarin, Hamid (DOT)'; 'Scott Hobson'; 'Soderlund, Steven (DOT)'; 'Pompei, Anthony (DOT)'; 'Richardson, Alisa (DOT)'
Cc:	'Jeff Willis'; 'Laura Miguel'; 'Amy L Silva'; 'Ross Singer'
Subject:	CRMC Notification of Public Hearing and Council review RIDOT 2023-04-094 East Bay Bike Path
Attachments:	CRMC Public Hearing Notification 2023-04-094 RIDOT EBBP.pdf; RIDOT ProJo Notice 05-14-2024 mtg.pdf

Good Afternoon All: Please see the attached Notification of Public Hearing for Special Exception and Council Review scheduled for Tuesday, May 14th, 2024. The Public Hearing will be held at the CRMC Semimonthly Meeting at 6:00 p.m. in Conference Room A of the Administration Building, One Capitol Hill, Providence, RI.

Please note that the Public Hearing Notification must be posted in the Providence Journal Legal Notices to provide no less than 20 days' notice of the public hearing. Please provide confirmation of posting for CRMC file.

Thank you,
Lisa Turner

Lisa A. Turner, Office Manager and
Programming Svcs Officer
Coastal Resources Management Council
Oliver Stedman Government Center
4808 Tower Hill Road; Room 116
Wakefield, RI 02879
401-783-3370

From: asilva@crmc.ri.gov <asilva@crmc.ri.gov>
Sent: Tuesday, April 9, 2024 8:52 AM
To: 'Akinfolarin, Hamid (DOT)' <Hamid.Akinfolarin@dot.ri.gov>; Ross Singer <rsinger@crmc.ri.gov>; Jeff Willis <jwillis@crmc.ri.gov>; Laura Miguel <lmiguel@crmc.ri.gov>; 'Scott Hobson' <shobson@vhb.com>; Lisa Turner <lturner@crmc.ri.gov>
Cc: 'Soderlund, Steven (DOT)' <steven.soderlund@dot.ri.gov>; 'Pompei, Anthony (DOT)' <anthony.pompei@dot.ri.gov>; 'Richardson, Alisa (DOT)' <Alisa.Richardson@dot.ri.gov>
Subject: RE: EBBP Submission/Hearing Date

Hamid et al-

The Bike Path has been scheduled for the first Council meeting in May (May 14th). Please work with Lisa Turner (lturner@crmc.ri.gov) to get the Special Exception notice published ASAP.

Also, if you have additional information, as was suggested in the submission, please provide it to staff ASAP for inclusion in the staff reports. While the deadline for submission of new information is 7 days prior to the hearing, the sooner we get it, the better we can review it.

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

PUBLIC NOTICE

File Number: 2023-04-094 Date: February 23, 2024

This office has under consideration the application of:

Department of Transportation
Attn: Alisa Richardson
360 Lincoln Avenue
Warwick, RI 02888

for a State of Rhode Island Assent to construct and maintain the Reconstruction of the East Bay Bike Path bridges over the Barrington River and Palmer River (RIC #2022-DB-012) including the installation of new piers, abutments, truss spans, riprap scour protection, and stormwater management. The revised submission includes plans for fishing access and additional rip rap fill for scour protection. Fishing access consists of a permanent bulkhead on the western side of the Palmer River and a public fishing pier on the eastern side of the Barrington River. The fishing pier is a public recreational facility consisting of a 33'8"x11'4" fixed pier and 24'x11'4" terminal T. This project requires special exceptions to CRMP § 1.3.1(L)(3)(c) – alterations to coastal wetlands not designated for preservation adjacent to Type3 Waters § 1.3.1(M)(2)(a) – the construction of new public transportation facilities in tidal waters, § 1.3.1(G)(3)(c) – the filling on a coastal feature or tidal waters, and § 1.3.1(J)(3)(a) – filling in Type 2 waters Variances are required for (CRMP § 1.3.1(B)(3)(a)(6)), filling rather than cutting on causeway slopes and §1.3.1(B)(3)(e)(1)(AA)).filling on slopes steeper than 15 percent.

Project Location:	East Bay Bike Path Bridges
City/Town:	Barrington and Warren
Waterway:	Barrington River and Palmer River

Plans of the proposed work can be requested at Cstaff1@crmc.ri.gov.

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.

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 (**with your correct mailing address, e-mail address and valid contact number**) and be received at this office on or before **March 25, 2024**. Please email your comments/hearing requests to: cstaff1@crmc.ri.gov; or mail via USPS to: Coastal Resources Management Council; O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

/lat

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	1	26

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 & NOTES
6	TYPICAL SECTIONS
7-8	TEMPORARY WORK PLATFORM PLAN AND SECTION NOS. 1-2
9-12	GENERAL PLAN NOS. 1-4
13-16	PROFILE NOS. 1-4
17	MISCELLANEOUS DETAILS
18-20	RESTORATION PLAN NOS. 1-3
21	WETLAND MITIGATION PLAN
22-26	CROSS SECTIONS

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

EAST BAY BIKE PATH BRIDGE REPLACEMENTS
BIKE PATH AND BRIDGE APPROACH PLANS
RECONSTRUCTION PLANS
ENVIRONMENTAL PERMITTING SET
VOLUME 1

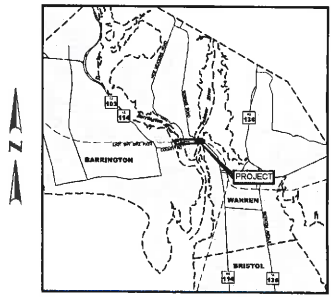
EAST BAY BIKE PATH OVER BARRINGTON RIVER AND PALMER RIVER

TOWNS OF BARRINGTON AND WARREN
COUNTY OF BRISTOL

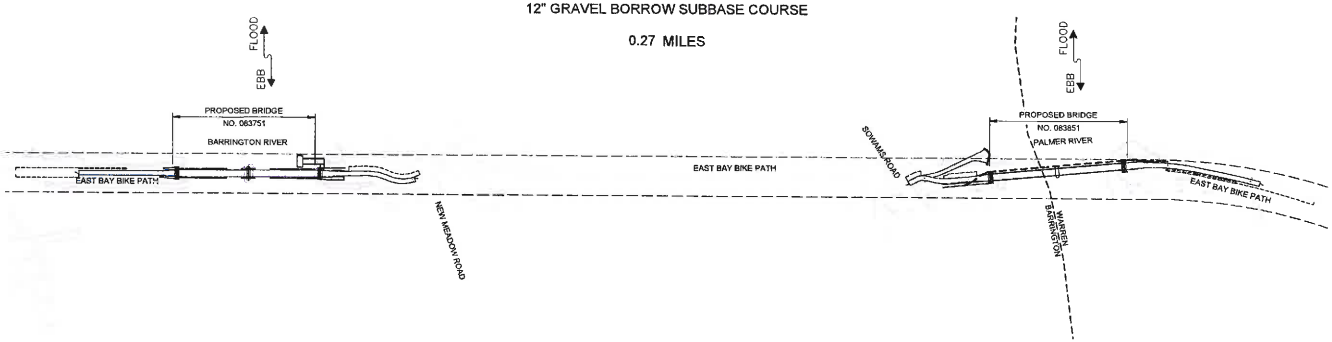
R.I. CONTRACT NO. 2022-DB-012 F.A. PROJECT NO. BRO-0838(002)

PAVEMENT STRUCTURE
1" CLASS 4.75 HMA
3" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE

0.27 MILES



LOCATION MAP
SCALE: 1"=5000'



LAYOUT PLAN
SCALE: 1"=120'

PERMIT PLAN
REVISIONS
FEBRUARY 2024

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MARCH 2019, 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.

SCALES OF DRAWINGS

Plans	1 inch = 20 feet	
Profiles	1 inch = 20 feet	Horizontal
Profiles	1 inch = 4 feet	Vertical
Cross Sections	1 inch = 4 feet	Horizontal
Cross Sections	1 inch = 4 feet	Vertical

BASE OF LEVELS
NAVD 88
NAD 83 (2011)

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

Contract Number 2022-DB-012
Number of Sheet 1
Total Sheets 26

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

RECEIVED
2/7/2024
CONSERVATION MANAGEMENT COUNCIL

0188A_V1_001_COVER

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	2	26

EXISTING		NEW
	EDGE OF PAVEMENT	
	BERM	
	CURB	
	GUARDRAIL	
	MAILBOX	
	UTILITY POLE	NO.
	POLE GUY	GUY
	LUMINARE	
	SIGN	
(SIZE)SD	SUBDRAIN	N(SIZE)SD (Length Size)
(SIZE)D	STORMDRAIN	
(SIZE)S	SANITARY SEWER	(Length Size)
(SIZE)W	WATER MAIN	N(SIZE)W
(SIZE)G	GAS MAIN	N(SIZE)G
(SIZE)T	TELEPHONE DUCT	N-#(SIZE)T
(SIZE)E	ELECTRIC DUCT	N-#(SIZE)E
	PLUG AND CAP PIPE	
	ABANDONED UTILITY	
	FLARED END SECTION	
	HEADWALL	
	WATER OR GAS GATE	
	CATCH BASIN	
	MANHOLE	
	HYDRANT	
1+00	BASELINE OR CENTERLINE	1+00
EXIST. S.H.L. PLAT NO. XX	STATE HIGHWAY LINE	NEW S.H.L. PLAT NO. XX
EXIST. S.F.L. PLAT NO. XX	STATE FREEWAY LINE	NEW S.F.L. PLAT NO. XX
EXIST. P.E.B.	PERMANENT EASEMENT LINE	NEW P.E.B.
EXIST. T.E.B.	TEMPORARY EASEMENT LINE	NEW T.E.B.
	PROPERTY LINE	
CITY NAME / TOWN NAME	CITY OR TOWN LINE	
	PAVED WATERWAY	
	CONTOUR LINE	ELEV.
	OPEN DITCH	
	R.I. HIGHWAY BOUND	
	STONE BOUND	
	RETAINING WALL	
	FIELD STONE WALL	
NO.	BORINGS	NO.
	FENCE	
	WOOD OR BRUSH LINE	
	TREES	
	RIVER OR STREAM	
	WETLAND AREA	
	BUILDING	
	FOUNDATION	
	BUILDING TO BE REMOVED	
	RAILROAD TRACKS	
	CUT AND MATCH	
	RIP-RAP	RIP-RAP
	CUT SLOPE	ROADWAY, TOP OF SLOPE
	FILL SLOPE	ROADWAY, TOE OF SLOPE
	ROCK CUT	ROCK SHELF, ROCK, CUT
	SPOT GRADE	00.00
	AREA GRADED TO DRAIN	ELEV.
	BALED HAY RI STD 9.1.0	
	BALED HAY & SILT FENCE RI STD. 9.3.0	
123 124 125	EDGE OF WETLAND	
	WETLAND PERIMETER	
ASSF	AREA SUBJECT TO STORM FLOW	
100 YR. FLOOD BOUNDARY	100-YEAR FLOOD PLAIN	
	LIMIT OF DISTURBANCE	LIMIT OF DISTURBANCE
	LIMIT OF CLEARING	LIMIT OF CLEARING

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 5'-0" OR 8'-0" 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 SPLOPED FACE)
7.3.0S	GRANITE CURB (STRAIGHT)
7.3.0C	GRANITE CURB (CIRCULAR)
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
7.5.1	BITUMINOUS BERM
7.6.0	CURB SETTING DETAIL
8.2.0	BITUMINOUS CONCRETE DITCH
8.3.0	RIP-RAP DITCH
8.4.0	PAVED WATERWAY
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	ROADSIDE GUARDRAIL (GENERAL NOTES, INSTALLATION, POST & OFFSET BLOCK DETAILS)
34.1.1	TYPICAL GUARDRAIL INSTALLATION AT STRUCTURES
34.1.2	STEEL BEAM GUARDRAIL ENCASED POST FOR SHALLOW INSTALLATION
34.1.3	STEEL BEAM GUARDRAIL DEEP POST INSTALLATION
34.1.4	STEEL BEAM GUARDRAIL INSTALLED IN CONCRETE OR HMA SURFACE
34.2.0	STEEL BEAM GUARDRAIL, TL-3
34.2.1	STEEL BEAM GUARDRAIL, TL-2
34.2.2	STEEL BEAM GUARDRAIL DOUBLE FACE ASSEMBLY
34.2.5	STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
34.3.0	STEEL BEAM GUARDRAIL APPROACH END TREATMENT
34.3.1	STEEL BEAM GUARDRAIL TERMINAL END SECTION
34.3.2	STEEL BEAM GUARDRAIL ANCHORAGE TRAILING END SECTION
34.3.3	STEEL BEAM GUARDRAIL THRIE BEAM TRANSITION PANEL
34.3.4	STEEL BEAM GUARDRAIL CONNECTION TO NEW END POST
34.3.5	GUARDRAIL CONNECTION TO EXISTING END POST APPROACH END SECTION
34.3.6	GUARDRAIL CONNECTION TO EXISTING END POST TRAILING END SECTION
34.3.7	STEEL BEAM GUARDRAIL TRANSITION TO RIGID BARRIER
34.3.8	MASH GUARDRAIL TRANSITION TO EXISTING GUARDRAIL
34.3.9	STEEL BEAM GUARDRAIL LONG SPAN, TL-3
34.5.3	STEEL THRIE BEAM GUARDRAIL SINGLE FACE
34.5.4	STEEL THRIE BEAM GUARDRAIL DOUBLE FACE
34.5.5	STEEL THRIE BEAM GUARDRAIL LONG SPAN
40.1.0	F SHAPE CONCRETE BARRIER DOUBLE FACE
40.2.0	F SHAPE CONCRETE BARRIER SINGLE FACE
40.2.1	F SHAPE CONCRETE BARRIER WITH CONCRETE SEPARATOR
40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT
40.4.0	PRECAST MEDIAN BARRIER FOR LIGHT STANDARD
40.5.0	BARRIER MOUNTED DELINEATOR
40.2.1	SINGLE-FACED PRECAST MEDIAN BARRIER
40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT
40.5.0	BARRIER MOUNTED DELINEATOR
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 3" CLASS 9.5 HMA 8" GRAVEL BORROW SUBBASE COURSE
BPS	BUILD NEW STRUCTURE OVER EXISTING PIPE
CCB	CLEAN CATCH BASIN
CCP	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
CFP	CLEAN AND FLUSH PIPE
CG	CLEARING AND GRUBBING
CMH	CLEAN MANHOLE
CP (DEPTH)	COLD PLANE
CPP	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
DB	REMOVE AND DISPOSE BITUMINOUS CURB
DC	REMOVE AND DISPOSE CONCRETE CURB
DCB	REMOVE AND DISPOSE CATCH BASIN
DDI	REMOVE AND DISPOSE DROP INLET
DF	REMOVE AND DISPOSE FENCE
DFC	REMOVE AND DISPOSE FRAME AND COVER
DFE	REMOVE AND DISPOSE FLARED END SECTION
DFG	REMOVE AND DISPOSE FRAME AND GRATE
DFH	REMOVE AND DISPOSE FIRE HYDRANT
DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
DG	REMOVE AND DISPOSE GUARDRAIL
DH	REMOVE AND DISPOSE HEADWALL
DHB	REMOVE AND DISPOSE HIGHWAY BOUND
DHH	REMOVE AND DISPOSE HANDHOLE
DL	REMOVE AND DISPOSE LIGHT AND FOUNDATION
DMB	REMOVE AND DISPOSE MEDIAN BARRIER
DMH	REMOVE AND DISPOSE MANHOLE
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
NFH	NEW FIRE HYDRANT WITH GATE VALVE
NIC	NOT IN THIS CONSTRUCTION CONTRACT
NWB	FURNISH AND INSTALL NEW WATER GATE VALVE BOX
NWVB	FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
NWCB	FURNISH AND INSTALL NEW WATER CURB STOP BOX
NWSB	FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
PCD	PERMANENT CHECK DAM
PS	4" PLANTABLE SOIL AND SEED
RCB	RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
RCM	R.I.D.O.T. COMMUNICATIONS MANHOLE
RHH	REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
RLP	RELOCATE LAMP POST
RMB	RELOCATE MAILBOX (BY OTHERS)
RPM	REMOVE PAVEMENT MARKINGS
RRP	RIP-RAP PAD (SEE DETAIL)
RRS	REMOVE AND RELOCATE SIGN
RUP	RELOCATE UTILITY POLE (BY OTHERS)
SB	STONE BAFFLE
SBAE	STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
SBTE	STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
SD-	STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
SF	REMOVE AND STOCKPILE FENCE
SGA	SPECIAL GRADED AGGREGATE
SGC	REMOVE AND STOCKPILE GRANITE CURB
SGR	REMOVE AND STOCKPILE GUARDRAIL
SH	REMOVE AND STOCKPILE HYDRANT
SS	REMOVE AND STOCKPILE SIGN
STS	REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
TB	CONCRETE THRUST BLOCK
TEP	TIE EXISTING PIPE INTO NEW STRUCTURE
TNP	TIE NEW PIPE INTO EXISTING STRUCTURE
TBT	THRIE BEAM TRANSITION
TBBC	THRIE BEAM BRIDGE CONNECTION
TT	TREE TRIMMING
WCM	4" WOOD CHIP MULCH
4DY	4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
6W	6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
12W	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
6WT	6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
4Y	4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
6Y	6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
P.G.L.	PROFILE GRADE LINE

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 2
OF:

SCALE: NOT TO SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/07	TRB			
2	12/22	RS			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

VOLUME 1

BARRINGTON/WARREN RHODE ISLAND

STANDARD PLAN SYMBOLS & STANDARD LEGEND

0188A_V1_002_STDSYM

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	3	25

GENERAL NOTES:

1. ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, DRAINAGE STRUCTURES, DRAINAGE PIPES, INFILTRATION AREAS, ROADSIDE, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
2. THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.05 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION. EQUIPMENT AND MATERIAL SHALL NOT BE STORED IN AREAS DESIGNATED FOR STORMWATER INFILTRATION OR OUTSIDE THE L.O.D. WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT DISTURBED OR OBLITERATED BEFORE SURVEY GROUND CONTROL POINTS ARE LOCATED, VERIFIED, AND DEEMED ADEQUATE FOR CONSTRUCTION LAYOUT. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING THE CONTRACTOR TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ACTIVITIES UNTIL ADEQUATE SURVEY GROUND CONTROL POINTS HAVE BEEN ESTABLISHED, TIED DOWN, AND VERIFIED IN WRITING BY THE CONTRACTOR'S PROFESSIONAL LAND SURVEYOR.
4. ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
5. THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF SECTION 907.
6. ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
7. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 7 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE INCIDENTAL TO THE APPLICABLE PAVEMENT ITEMS.
8. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE SHALL BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT ITS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED.
9. THE CONTRACTOR WILL NOT BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
10. CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. CLEANING WITH COMPRESSED AIR SHALL ONLY BE ALLOWED WITH THE APPROVAL OF THE ENGINEER.
11. PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS AND SHOP DRAWINGS OR AS MODIFIED BY THE ENGINEER.
12. THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
13. PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO MAINTAIN THE SAFE TRAVEL OF THE PUBLIC AT NO ADDITIONAL COST TO THE STATE.
15. NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO NEW AND EXISTING DRAINAGE STRUCTURES HAS BEEN PROPERLY ESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; ANY CORRECTIVE ACTION SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
17. ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
18. IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
19. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM), AND/OR THE ARMY CORPS OF ENGINEERS (ACOE), AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).

GENERAL NOTES (CONTINUED):

20. FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL ACTION WORK AND/OR SOIL MANAGEMENT PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
21. NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
22. THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

DRAINAGE AND EROSION CONTROL NOTES:

1. THE CONTRACTOR IS REQUIRED TO ADHERE WITH THE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE-SPECIFIC SWPPP FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AS SITE CONDITIONS WARRANT. A COPY OF THE SWPPP MUST BE ON-SITE AT ALL TIMES. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS.
2. NO UNDISTURBED AREAS SHALL BE GRUBBED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
3. STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODIBLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES TO STABILIZE. STOCKPILES OF CONTAMINATED MATERIALS MUST BE PLACED ON TOP OF A POLY-ETHYLENE SHEET AND COVERED AT ALL TIMES UNLESS IT IS AN ACTIVE WORKING PILE.
4. IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. ENVIRONMENTAL DIVISION.
5. SURFACE EROSION CONTROL MATTING SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
6. SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
   a. SEEDING TYPE I.
   b. ADHESIVE MULCH STABILIZER
7. UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
8. PRIOR TO CONSTRUCTION OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CATCH BASINS AND FLUSHING THE PIPES, AND THEN VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION.
9. ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EFFICACY OF THE DRAINAGE SYSTEM. ONCE CONSTRUCTION IS COMPLETED THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CATCH BASINS AND FLUSHING ALL PIPES OF ANY CONSTRUCTION RELATED DEBRIS AT NO ADDITIONAL COST.
11. CATCH BASIN RIM GRADES FOR STRUCTURES NOT IN A TRAVEL LANE NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
12. PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL STRICTLY ADHERE TO THE PLANS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. SEDIMENT AND EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
14. R.I. STD. 9.8.0 BALED STRAW INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
15. WHERE BALED STRAW INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

16. DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN REMOVED AND INFILTRATION IS REESTABLISHED. FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED TO COMPLY WITH THE PLANS, SPECIFICATIONS, AND PERMITS. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION AND COSTS REQUIRED TO RESOLVE SUCH ISSUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
17. THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
18. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
19. ALL COMPOST FILTER SOCK, STRAW BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
20. 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 STATE.
21. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
22. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEMS. ADDITIONAL SEDIMENT AND EROSION CONTROLS, SHALL BE INSTALLED IN ACCORDANCE WITH THE SWPPP REPORT. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.
23. ANY OBSERVATIONS OF ILLICIT CONNECTIONS OR DISCHARGES TO RIDOT'S DRAINAGE NETWORK OR OUTFALLS SHALL BE REPORTED TO THE RIDOT STORMWATER UNIT IMMEDIATELY.

UTILITY NOTES:

1. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
4. EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
5. UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
6. FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
7. ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.
9. THE CONTRACTOR SHALL PROVIDE 72-HOUR ADVANCE NOTICE TO THE RIDOT TMC (401-222-2378) FOR WORK AROUND RIDOT OWNED INFRASTRUCTURE (DRAINAGE, LIGHTING, ITS EQUIPMENT, TOLL GANTRIES, COUNTING STATIONS, ETC.). ANY DAMAGE TO THIS INFRASTRUCTURE MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT RIDOT IN ADVANCE, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.

RECEIVED 2/7/2024 OVERSIGHT MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 3
OF:

SCALE: NOT TO SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	4/07	TRB	4	12/22	JRP
2	3/10	RBH			
3	4/14	MLP			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

STANDARD NOTES - 1

0188A_V1_003_STDNOTES01

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	4	26

LANDSCAPE NOTES:

1. ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
2. ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
4. COORDINATE WITH THE R.I.D.O.T. CONSTRUCTION MANAGER PRIOR TO ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
5. ANY TOPSOIL USED AS PLANTABLE 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 TO SECTION M.18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
6. ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
7. ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
8. PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.
9. THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THERE ARE NO CONTAMINANTS THAT EXCEED THE R.I.D.E.M. PERMISSIBLE LEVELS IN THE SOILS USED AS LOAM OR PLANTABLE SOIL.

STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:

GENERAL

1. ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION AND REVISIONS, OF THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

CONSTRUCTION DRAWINGS AND DETAILS

1. THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
   - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG-TIGHT POSITION."
   - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
2. THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
3. THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

TRAFFIC SIGNAL NOTES:

1. ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888. THE COST FOR DELIVERY IS CONSIDERED INCIDENTAL TO THE WORK.
2. BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
3. THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
4. TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"H×44"W×24"D.
5. ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
6. INSULATED GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
8. A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
9. ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
10. WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
11. ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
12. ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
13. ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
14. TRAFFIC SIGNAL CONTROLLERS AND CABINETS SHALL BE PROGRAMMED AND WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
15. THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
4. ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"×18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
5. POLICE OFFICERS AND FLAGPERSONS SHALL BE UTILIZED AS OUTLINED IN SECTIONS 913 & 914 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
7. ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
8. TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
9. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
10. TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
11. THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. APPROVED PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT. FAILURE TO COMPLY WILL RESULT IN AN ASSESSMENT OF A CHARGE AS OUTLINED IN SECTION 937 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	5	26

R-1

JOB SPECIFIC LEGEND(HIGHWAY):

- 9.2.0 — SILT FENCE
- CFS — COMPOST FILTER SOCK 12" DIAMETER
- IT-1 — INFILTRATION TRENCH - 1 (SEE MISCELLANEOUS DETAILS)
- IT-2 — INFILTRATION TRENCH - 2 (SEE MISCELLANEOUS DETAILS)
- OBR — 54" OPEN BRIDGE RAIL (SEE VOLUME 2)
- PRR — PLACED STONE RIP RAP (SEE VOLUME 2)
- QPA — QUALIFIED PERVIOUS AREA (SEE MISCELLANEOUS DETAILS)
- SRF — SPLIT RAIL FENCE (SEE MISCELLANEOUS DETAILS)
- SUP — 1" CLASS 4.75 HMA
3" CLASS 19 HMA
12" GRAVEL BORROW SUBBASE COURSE
- RS — REMOVE AND RESET SIGN
- TLOR — TEMPORARY LIMIT OF REGRADING (DURING TEMPORARY PLATFORM CONSTRUCTION)

1

JOB SPECIFIC PLAN SYMBOLS

EXISTING	NEW
COMPOST FILTER SOCK	
SPLIT RAIL FENCE	
TIMBER AND COMPOSITE PEDESTRIAN BRIDGE APPROACH RAIL	
QUALIFIED PERVIOUS AREA	
STONE RIPRAP AT TEMPORARY BULKHEAD	
DUMPED RIPRAP TO SUPPLEMENT EXISTING RIPRAP	
PLACED RIPRAP PROTECTION FROM PROPOSED ABUTMENT TO EXISTING ABUTMENT	

JOB SPECIFIC GENERAL NOTES

1. ALL ITEMS NOT REFERENCED FOR MODIFICATION ON THE PLANS OR IN THE CONTRACT DOCUMENTS WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. ALL EQUIPMENT AND MATERIALS SHALL BE PLACED AN ADEQUATE DISTANCE (AS DETERMINED BY THE ENGINEER) FROM THE ROADWAY TO AVOID INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC.
3. THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE ANY EXISTING VEGETATION WHICH OVERHANGS OR IS ADJACENT TO THE CONSTRUCTION ZONE. ANY DAMAGE THAT IS CAUSED BY THE CONTRACTOR'S NEGLIGENCE WILL BE FIXED AT HIS OWN EXPENSE.
4. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE.
5. PER RIDOT STANDARD SPECIFICATIONS, CLEAR AND GRUB ALL AREAS WITHIN FILL LOCATIONS AND LESS THAN 3 FEET IN HEIGHT TO SUBGRADE WITHIN THE LIMITS OF DISTURBANCE OF THE PROJECT. AFTER CLEARING AND GRUBBING, THE AREA SHALL BE STABILIZED AND FINISHED WITH LOAM AND SEED.
6. ALL MATERIALS IMPORTED TO THE SITE BY THE CONTRACTOR SHALL BE CLEAN AND FREE OF CONTAMINATION AND IN ACCORDANCE WITH SECTION M OF THE R.I.D.O.T STANDARD SPECIFICATIONS, LATEST EDITION.
7. THE CONTRACTOR SHALL REUSE ANY CLEAN EXCAVATED MATERIAL REQUIRED FOR BULKHEAD ACCESS AS COMMON BORROW AS DIRECTED BY THE ENGINEER. IN LOCATIONS WHERE SUPPLEMENTAL MATERIAL IS NEEDED, CRUSHED STONE SHALL BE USED AS FILL.
8. THE CONTRACTOR SHALL CAREFULLY REMOVE EXISTING RIPRAP FROM THE EMBANKMENTS WITHIN THE LIMIT OF DISTURBANCE AS NECESSARY AS SHOWN ON PLANS. EXISTING RIPRAP MAY BE USED TEMPORARILY TO REINFORCE SIDE SLOPES OF TEMPORARY ACCESS LOCATIONS TO BULKHEADS OR IN OTHER APPLICATIONS AT THE SATISFACTION OF THE ENGINEER.
9. NON-WOVEN GEOTEXTILE FABRIC SHALL BE USED FOR SOIL SEPARATION. INSTALLATION SHALL BE AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. FILTER FABRIC SHALL CONFORM TO AASHTO M-288-06 AND BE A MATERIAL SUITABLE FOR SOIL SEPARATION APPLICATIONS AND BE ONE OF THOSE INCLUDED ON RIDOT'S APPROVED MATERIALS LIST.
10. ANY CONTAMINATED SOILS SHALL BE PROPERLY REMOVED, HANDLED, HAULED AND DISPOSED AS REQUIRED.
11. FOR DEWATERING THAT MAY BE REQUIRED FOR EXCAVATION AND INSTALLATION OF ABUTMENTS AND RETAINING WALLS, SEE PLANSET VOLUME 2.

JOB SPECIFIC UTILITY NOTES

1. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. LOCATIONS OF THE SERVICES WILL BE CHECKED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANIES.
2. ALL EXISTING MANHOLES, CATCH BASINS, ROADWAY BOXES, AND SIDEWALK CURB STOPS FOR ALL UTILITIES WITHIN THE PROJECT WORK LIMITS SHALL BE ADJUSTED TO GRADE AS REQUIRED EXCEPT WHERE REPLACEMENT OR RECONSTRUCTION IS CALLED FOR ON THE PLANS, IN THE CONTRACT DOCUMENTS, OR DIRECTED BY THE ENGINEER.
3. ONLY NON-MECHANICAL MEANS OF EXCAVATION SHALL BE USED IN AREAS ADJACENT TO UNDERGROUND UTILITIES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

JOB SPECIFIC EROSION CONTROL NOTES

1. INLET SEDIMENT CONTROL DEVICES (ISCD) SHALL BE INSTALLED, IN LIEU OF R.I. STD. 9.8.0 BALED HAY INLET PROTECTION, AT ALL CATCH BASINS WHENEVER SUBBASE IS EXPOSED OR AS DIRECTED BY THE ENGINEER, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
2. IN ORDER TO PREVENT CLOGGING IN THE ROADWAY AND SEDIMENT INTRUSION INTO THE DRAINAGE SYSTEM, ALL INLET SEDIMENT CONTROL DEVICES SHALL BE CLEANED OR REPLACED REGULARLY UNTIL THE CONTRIBUTING AREA HAS BEEN STABILIZED. THE INLET SEDIMENT CONTROL DEVICES SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. CONCRETE WASHOUT DISCHARGED INTO DRAINAGE SYSTEMS IS PROHIBITED. THE CONTRACTOR MUST PROVIDE A CONCRETE WASHOUT AREA.

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AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 5
OF:

SCALE: 1"=20'
20 0 20 40
SCALE IN FEET

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

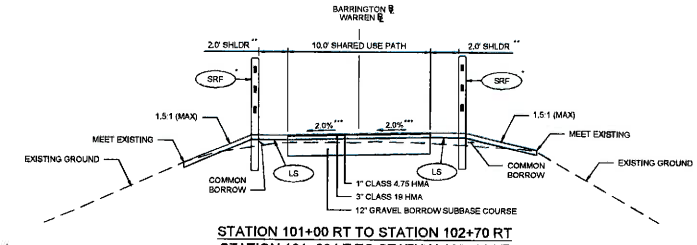
BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES

0188A_V1_005_JSNOTSYM

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	6	26



STATION 101+00 RT TO STATION 102+70 RT
STATION 101+00 LT TO STATION 102+80 LT
STATION 106+45 LT TO STATION 108+10 LT
STATION 106+58 RT TO STATION 108+10 RT
BARRINGTON BRIDGE APPROACH

STATION 199+53 RT TO STATION 200+30 RT
STATION 199+53 LT TO STATION 201+27 LT
STATION 205+00 LT TO STATION 206+50 LT
STATION 204+12 RT TO STATION 206+50 RT
WARREN BRIDGE APPROACH

SCALE: 1"=4'

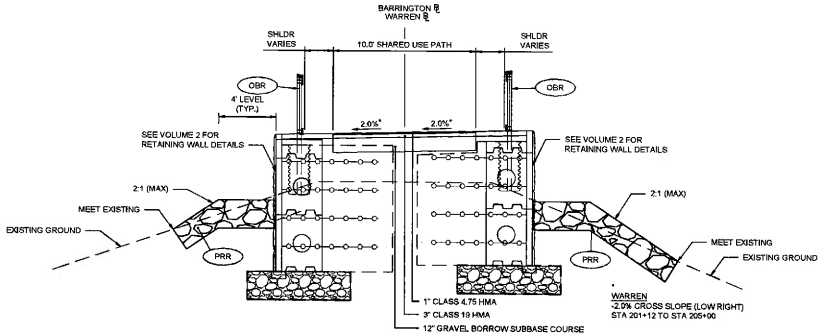
*
BARRINGTON
STA 101+00 LT TO STA 103+07 LT & RT
STA 106+07 LT TO STA 107+32 LT
STA 106+07 RT TO STA 107+37 RT

WARREN
STA 199+89 LT TO STA 201+27 LT
STA 200+02 RT TO STA 201+27 RT
STA 204+12 LT TO STA 205+50 LT
STA 204+12 RT TO STA 205+87 RT

**
INFILTRATION TRENCH (SEE DETAIL)
BARRINGTON
STA 101+00 LT TO STA 102+00 LT

WARREN
STA 205+00 RT TO STA 206+50 RT

***
WARREN
-2.0% CROSS SLOPE (LOW RIGHT)
STA 205+00 TO STA 206+50

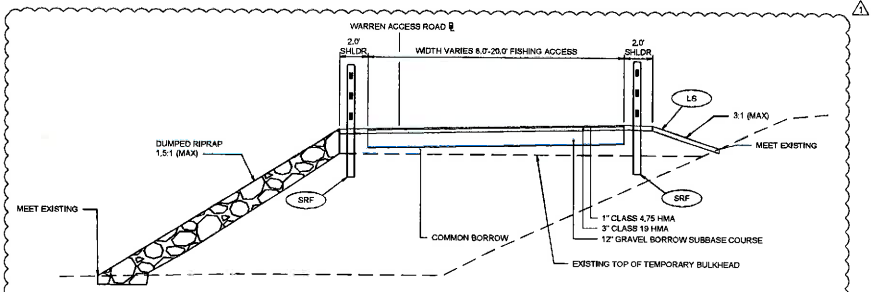


*
WARREN
-2.0% CROSS SLOPE (LOW RIGHT)
STA 201+12 TO STA 205+00

STATION 102+70 RT TO STATION 103+05 RT
STATION 102+80 LT TO STATION 103+05 RT
STATION 106+05 LT TO STATION 106+45 LT
STATION 106+05 RT TO STATION 106+58 RT
BARRINGTON BRIDGE APPROACH

STATION 200+30 RT TO STATION 201+27 RT
STATION 201+12 LT TO STATION 205+00 LT
WARREN BRIDGE APPROACH

SCALE: 1"=4'



STATION 10+18 TO STA 11+52
WARREN FISHING ACCESS

SCALE: 1"=4'

1

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vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 6
OF: 26

SCALE: 1"=4'

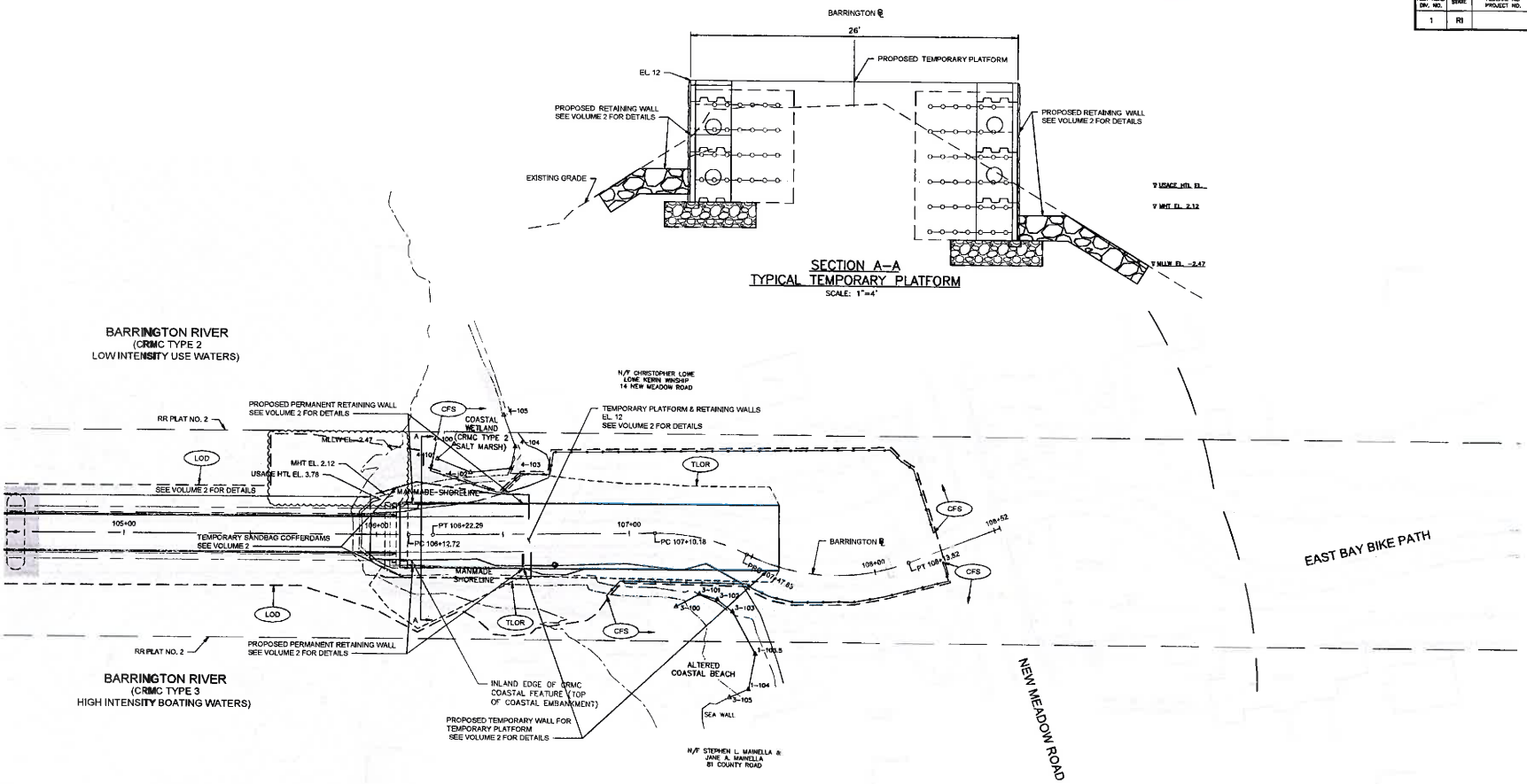
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
VOLUME 1
BARRINGTON/WARREN RHODE ISLAND

TYPICAL SECTIONS

0188A_V1_006_TYPICAL

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	7	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 7
OF: 26

SCALE: 1"=20'
20 0 20 40
SCALE IN FEET

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

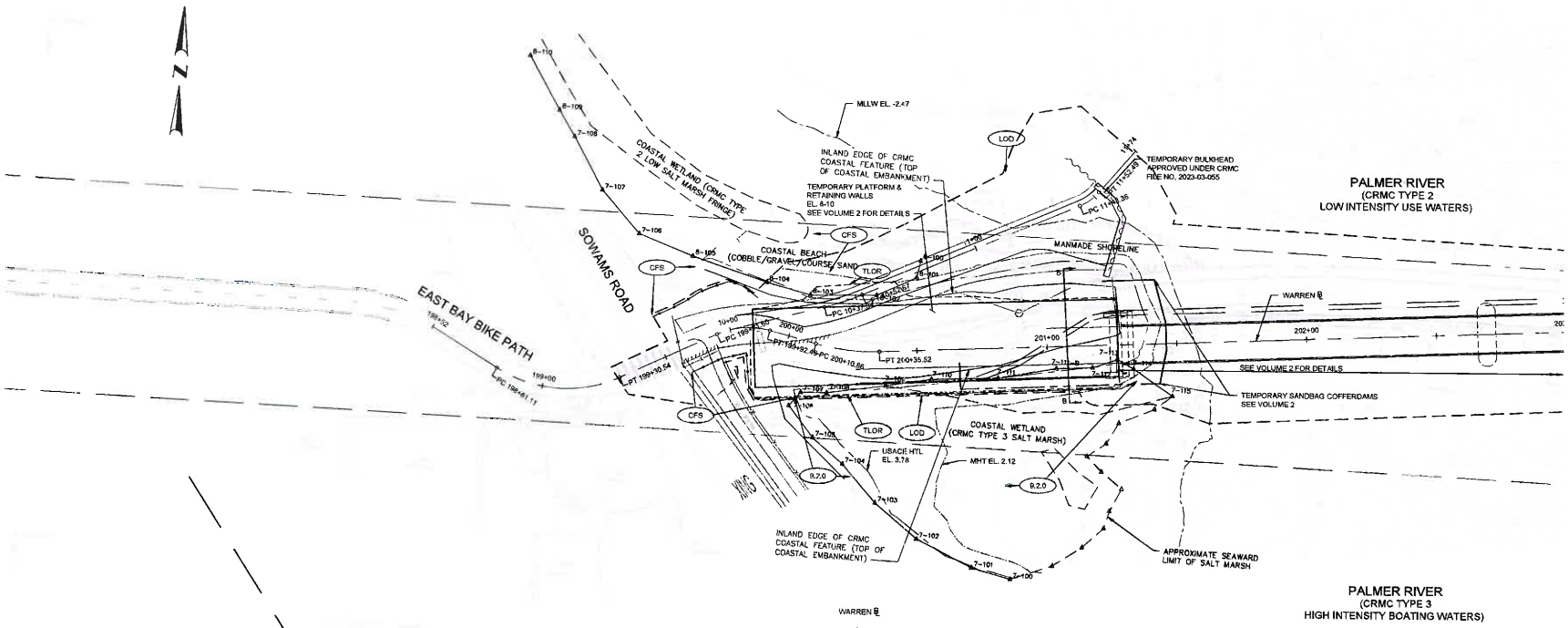
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

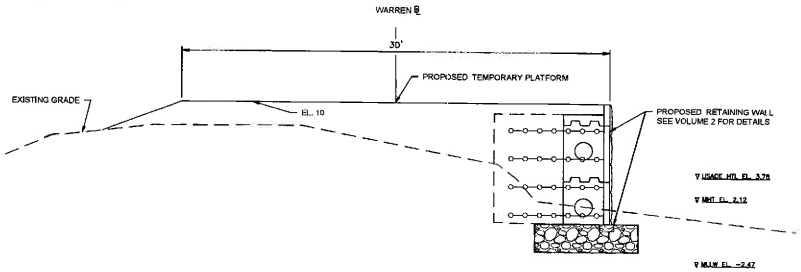
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

TEMPORARY WORK PLATFORM PLAN AND SECTION NO. 1

0188A_V1_007_TEMPPLAT001

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	8	26





SECTION B–B
TEMPORARY PLATFORM
SCALE: 1"=4'

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 8
OF: 26

SCALE: 1"=20'

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

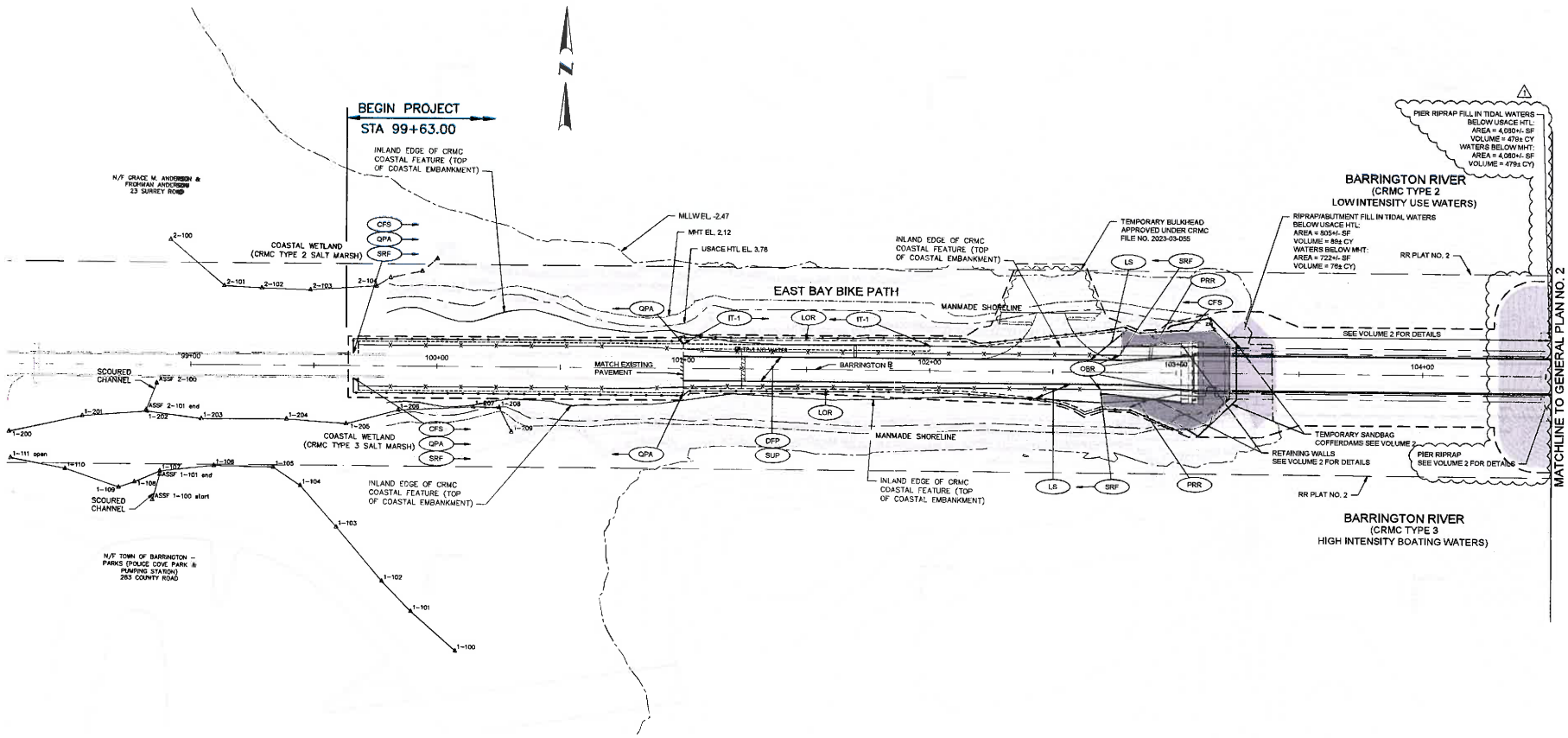
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

TEMPORARY WORK PLATFORM PLAN AND SECTION NO. 2

0188A_V1_008_TEMPPLAT002

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	9	26



RECEIVED 2/7/2024 CHARLES RIVER LAND MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 9
OF: 26

SCALE: 1"=20'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

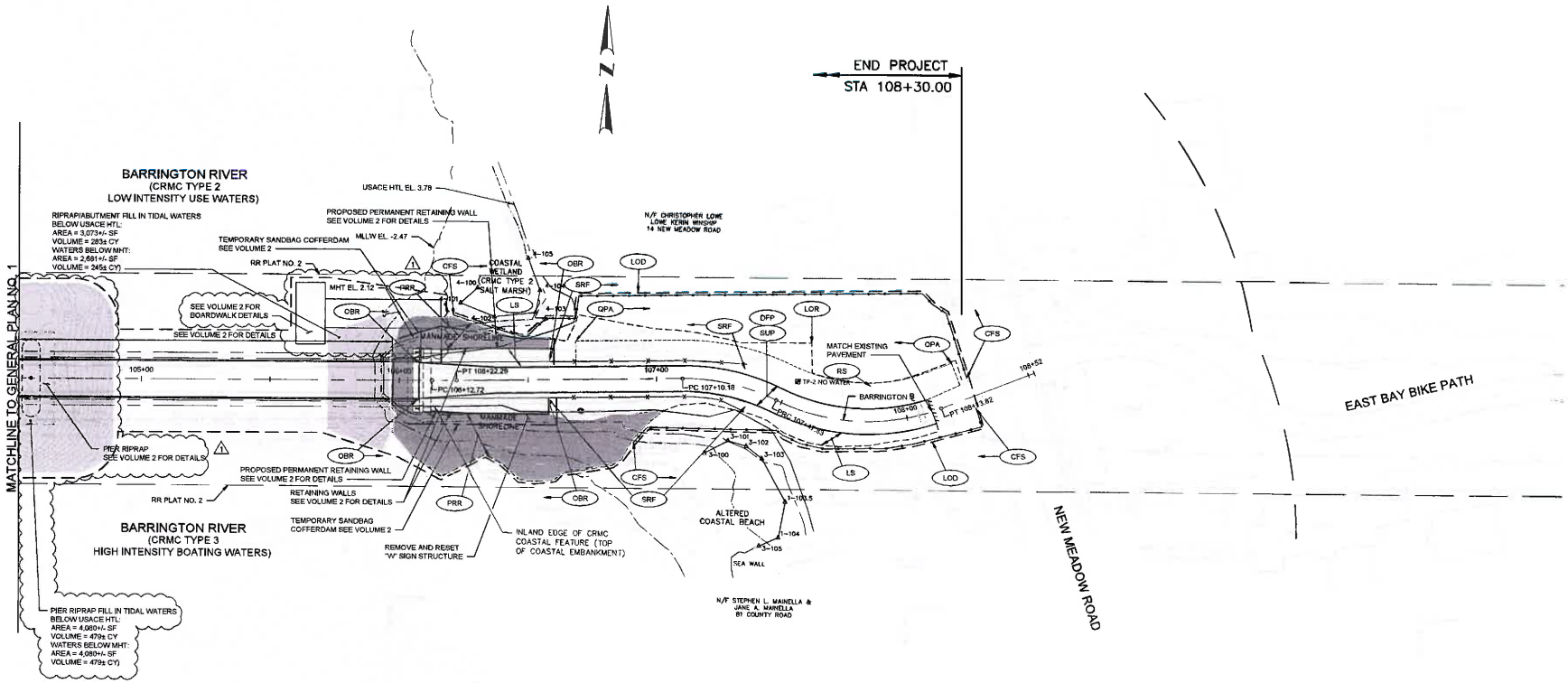
BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

GENERAL PLAN NO. 1

0188A_V1_009_GENERAL001

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	10	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 10
OF: 26

SCALE: 1" = 20'
20 0 20 40
SCALE IN FEET

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

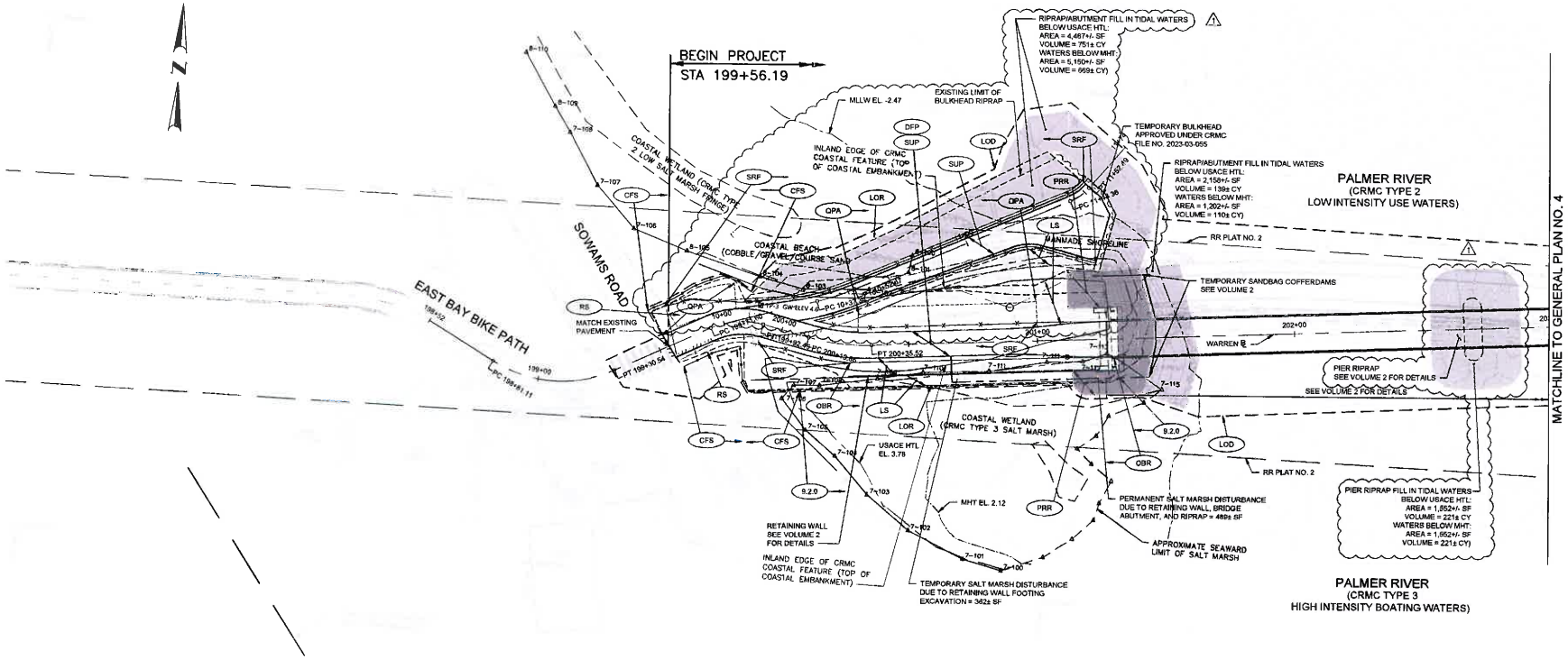
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

GENERAL PLAN NO. 2

0188A_V1_010_GENERAL002

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	11	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 11 OF: 26

SCALE: 1"=20'

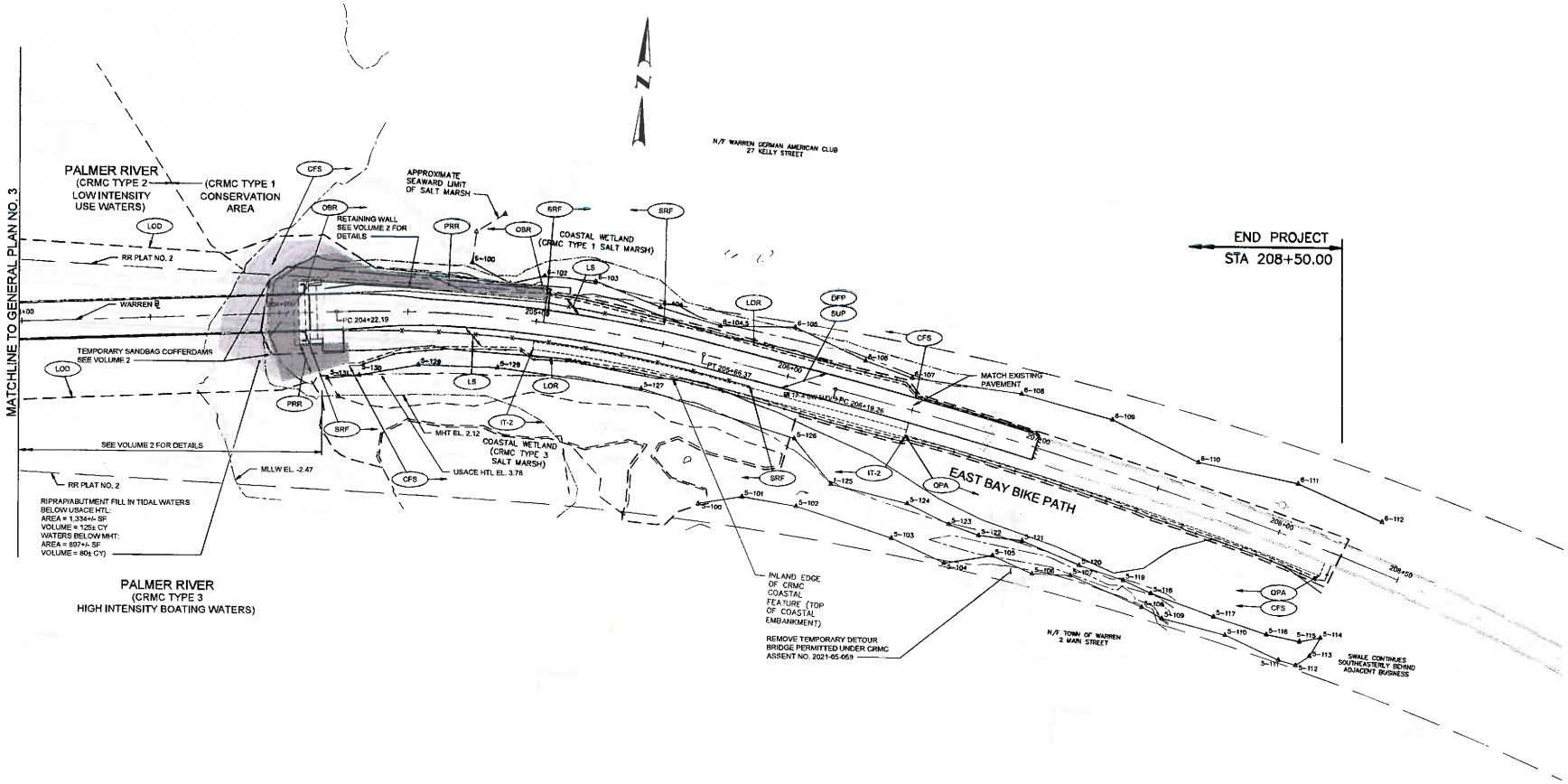
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

GENERAL PLAN NO. 3

0188A_V1_011_GENERAL003

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	12	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AECOM Bridge Company

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 12
OF: 26

SCALE: 1" = 20'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

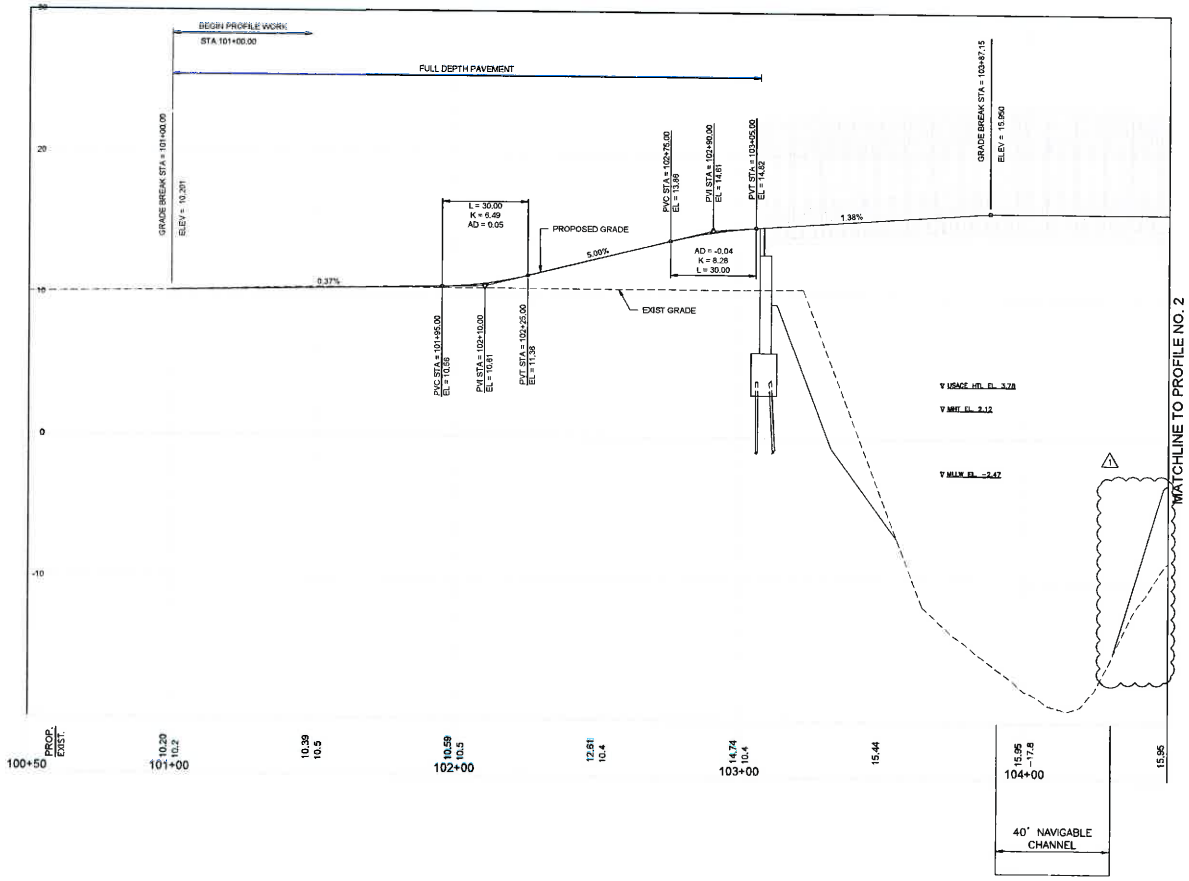
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

GENERAL PLAN NO. 4

0188A_V1_012_GENERAL004

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	13	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 13 OF: 26

SCALE: 1"=20' HOR., 1"=4' VERT.

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

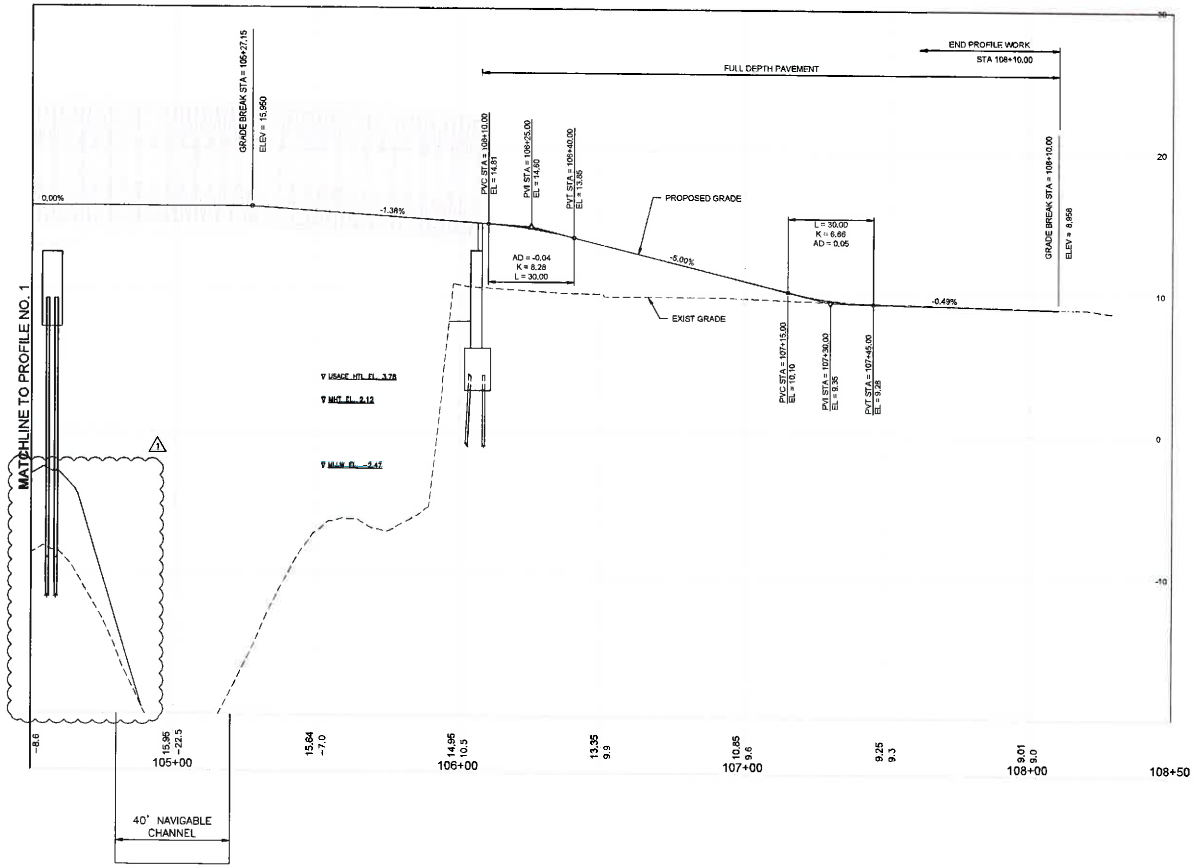
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

PROFILE NO. 1

0188A_V1_013_PROFILE001

R-1

FED. ROAD SIM. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	14	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 14
OF: 26

SCALE: 1"=20' HOR., 1"=4' VERT.

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

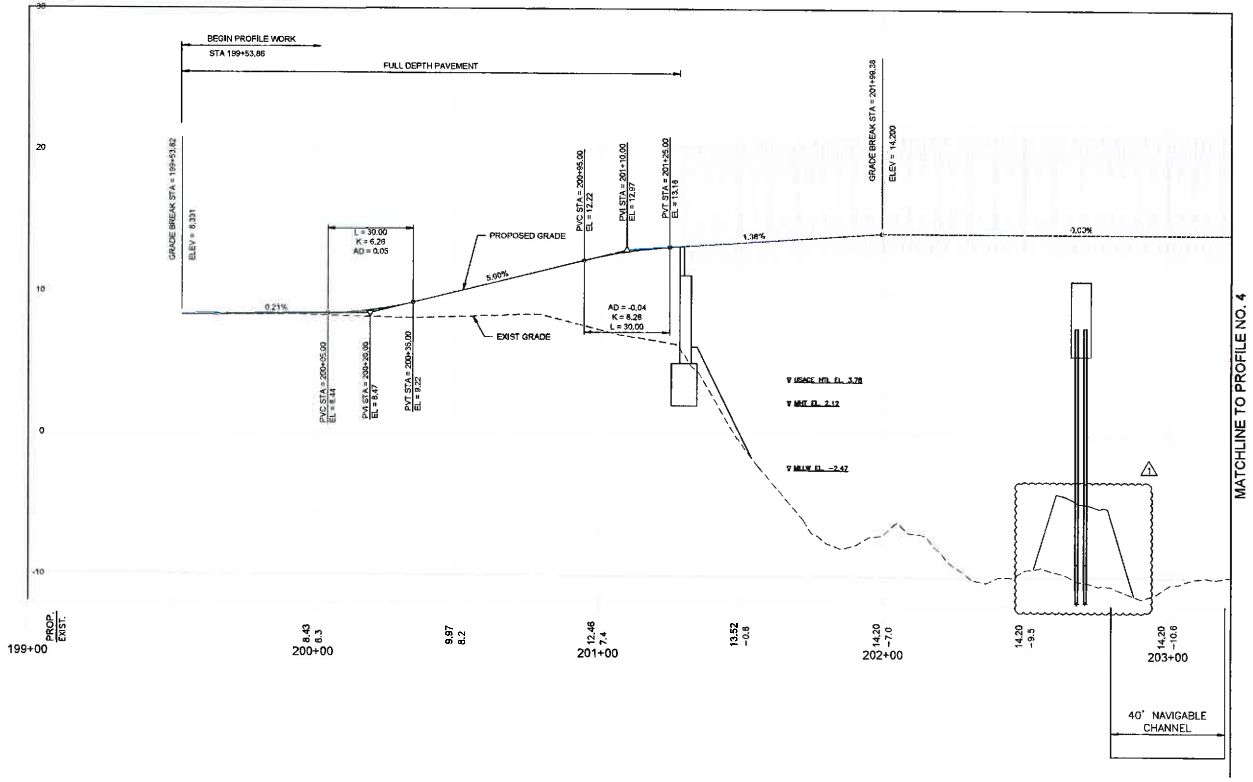
BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

PROFILE NO. 2

0188A_V1_014_PROFILE002

R-1

FED. RD. DIV. NO.	ROAD NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1		RI		2022	15	26



RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 15
OF: 26

SCALE: 1"=20' HOR., 1"=4' VERT.

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

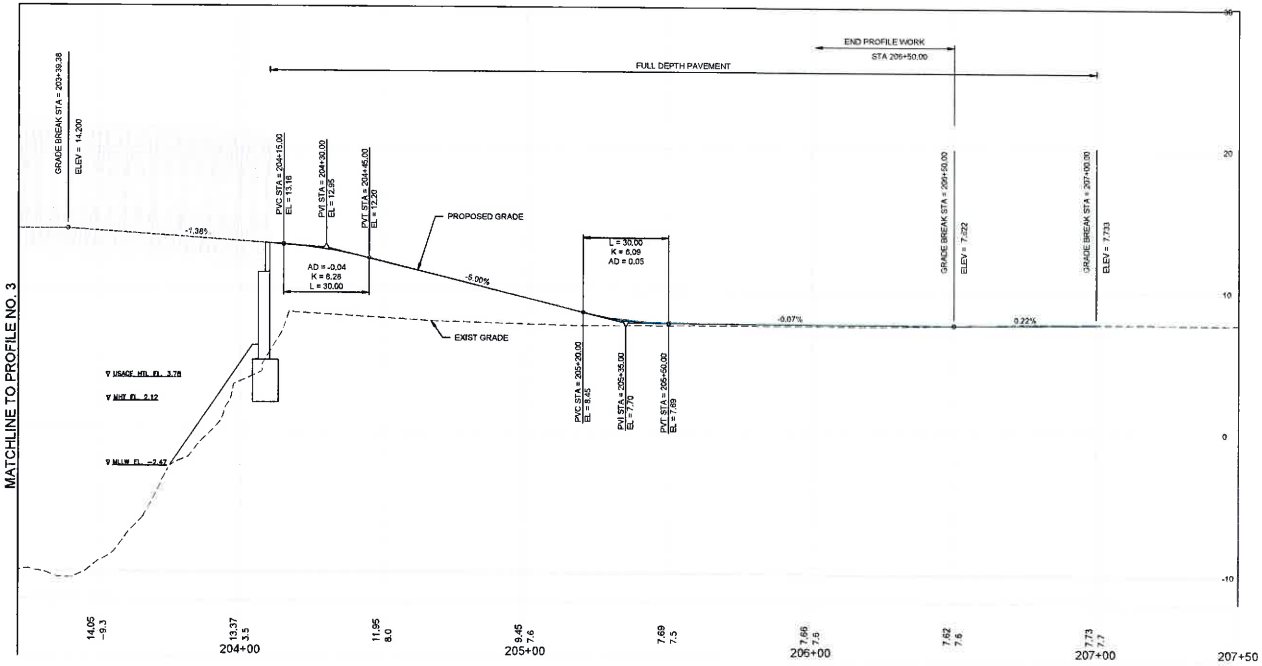
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN
VOLUME 1
RHODE ISLAND

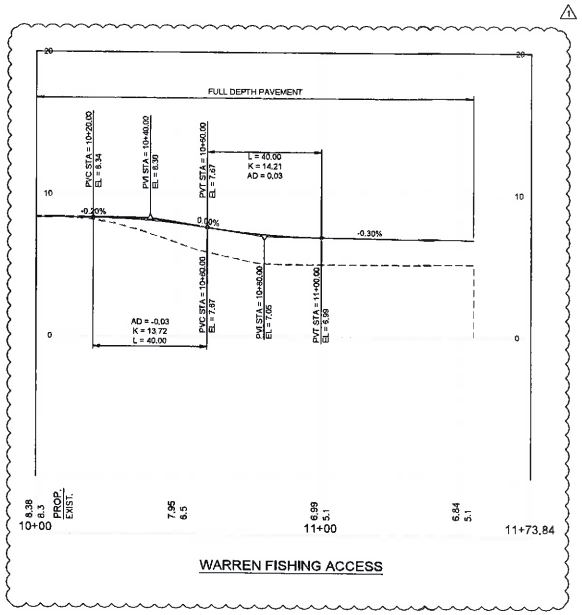
PROFILE NO. 3

0188A_V1_015_PROFILE003

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	16	26





WARREN FISHING ACCESS

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 16
OF: 26

SCALE: 1"=20' HOR., 1"=4' VERT.

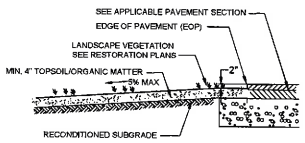
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

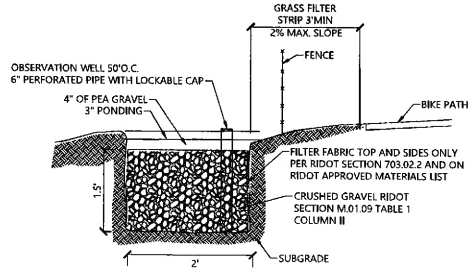
PROFILE NO. 4

0188A_V1_016_PROFILE004

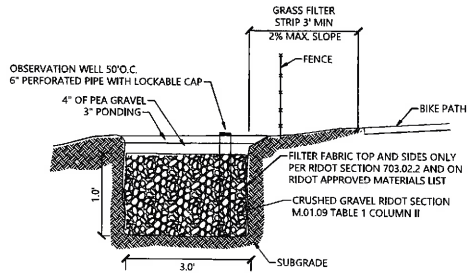
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	17	26



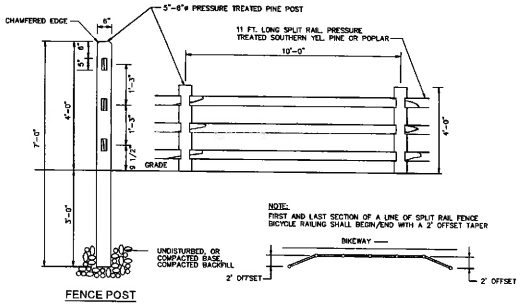
QUALIFIED PERVIOUS AREA (QPA)
NOT TO SCALE



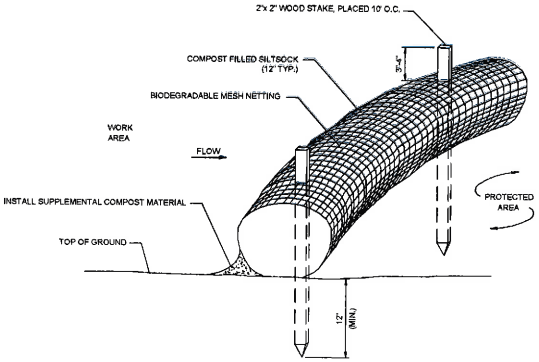
INFILTRATION TRENCH - 1 (IT-1)
NOT TO SCALE



INFILTRATION TRENCH - 2 (IT-2)
NOT TO SCALE



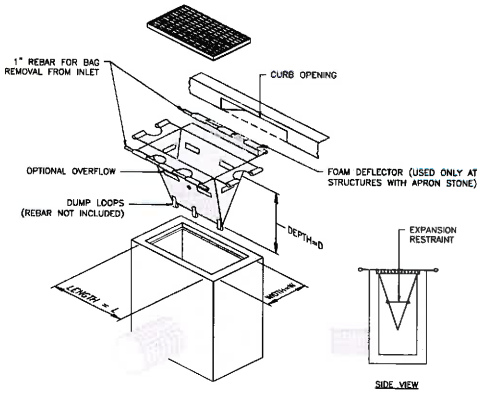
SPLIT RAIL FENCE (SRF)
NOT TO SCALE



NOTES:

1. FILTER SOCK SHALL OVERLAP A MINIMUM OF 12 INCHES.
2. FILTER SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
3. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
4. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

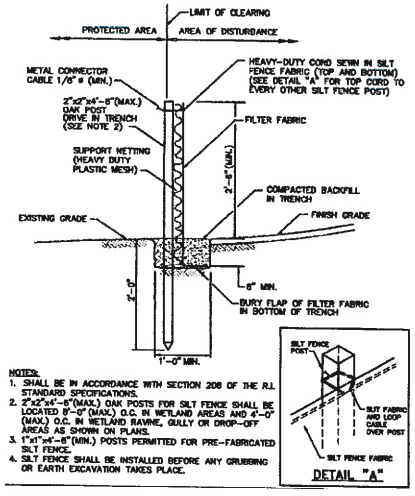
COMPOST FILTER SOCK (CFS)
NOT TO SCALE



INLET SEDIMENT CONTROL DEVICE NOTES:

1. MEASURE CATCH BASIN DIMENSIONS AND PROVIDE APPROPRIATELY-SIZED DEVICES PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL INLET PROTECTION IN CATCH BASIN BEFORE COMMENCING ANY ROADWORK.
3. GRATE TO BE PLACED OVER INLET PROTECTION.
4. INLET PROTECTION SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS. CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED WITH TOPSOIL AND GRASS.

INLET SEDIMENT CONTROL DEVICE DETAIL (IP)
NOT TO SCALE



NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-8"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-8"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

SILT FENCE DETAIL (9.2.0)
NOT TO SCALE

RECEIVED 2/7/2024 CHANNEL MANAGEMENT MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 17
OF: 26

SCALE: AS SHOWN

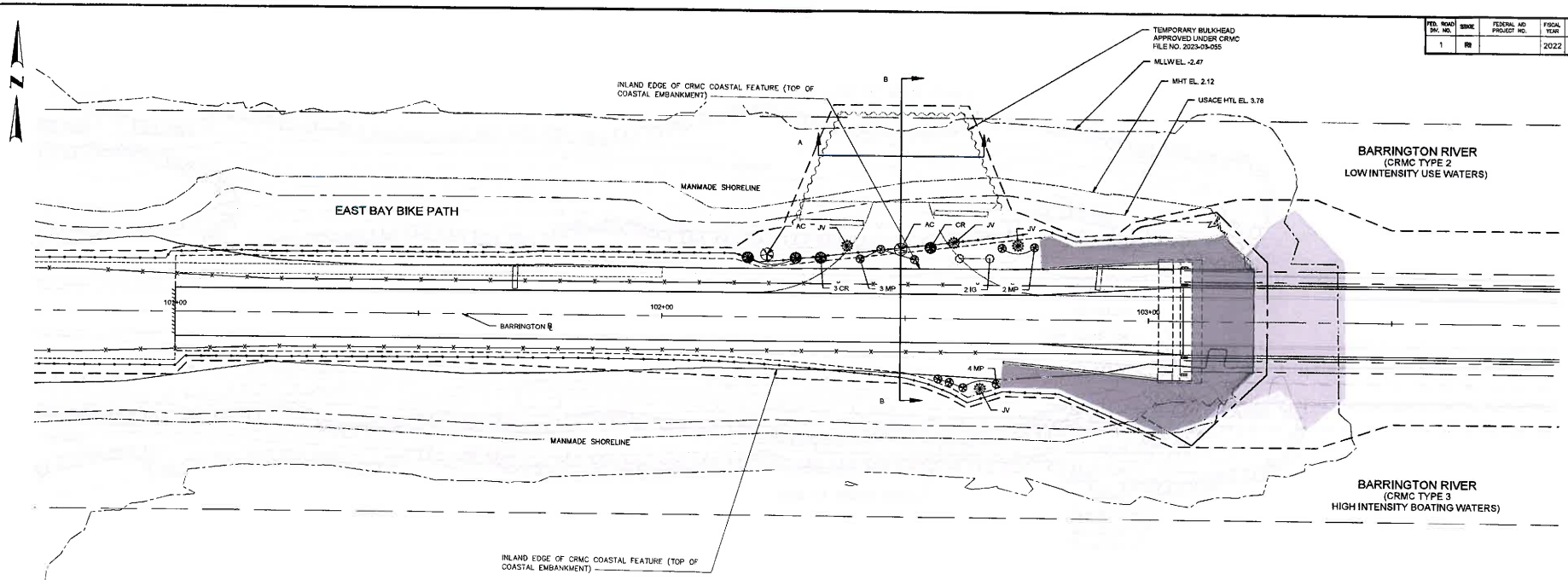
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

MISCELLANEOUS DETAILS

0188A_V1_017_MISCDET001

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	18	26

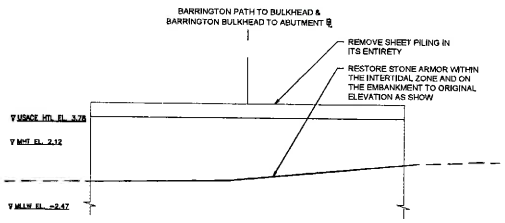


RESTORATION PLANT LIST

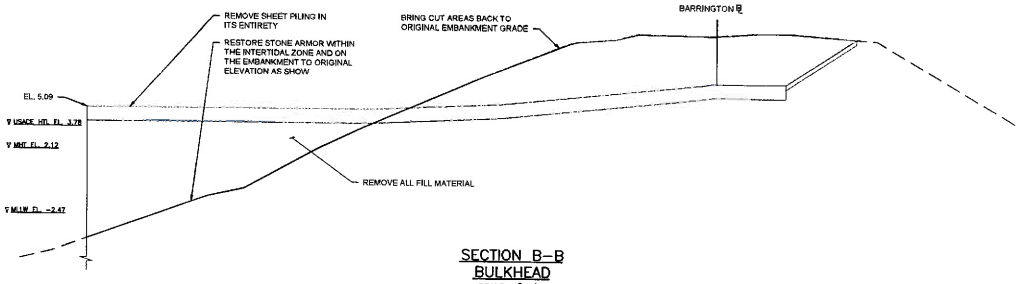
2	AC	AMERICAN SHADBUSH	*(AMELANCHIER CANADENSIS*	B&B	4' MIN.
4	JV	EASTERN RED CEDAR	*(JUNIPERUS VIRGINIANA)*	B&B	4' MIN.
9	MP	NORTHERN BAYBERRY	*(MORELLA PENSYLVANICA)*	B&B	3' MIN.
2	IG	INKBERRY HOLLY	*(ILEX GLABRA)*	B&B	3' MIN.
4	CR	GRAY DOGWOOD	*(CORNUS RACEMOSA)*	B&B	3' MIN.

RESTORATION NOTES

1. REMOVE SHEET PILING IN ITS ENTIRETY, AFTER REMOVING INTERIOR FILLS.
2. REMOVE ALL FILL MATERIAL AND BRING CUT AREAS BACK TO ORIGINAL EMBANKMENT GRADE.
3. RESTORE STONE ARMOR WITHIN THE INTERTIDAL ZONE AND ON THE EMBANKMENT TO ORIGINAL ELEVATION AS SHOWN.
4. REGRADE, LOAM AND SEED EMBANKMENT FROM EMBANKMENT STONE UP TO BIKE PATH.
5. INSTALL TREE AND SHRUB PLANTINGS AS SHOWN.



SECTION A–A
BULKHEAD
SCALE: 1"=4'



SECTION B–B
BULKHEAD
SCALE: 1"=4'

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 16
OF: 26

SCALE: 1"=10'
10 0 10 20
SCALE IN FEET

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

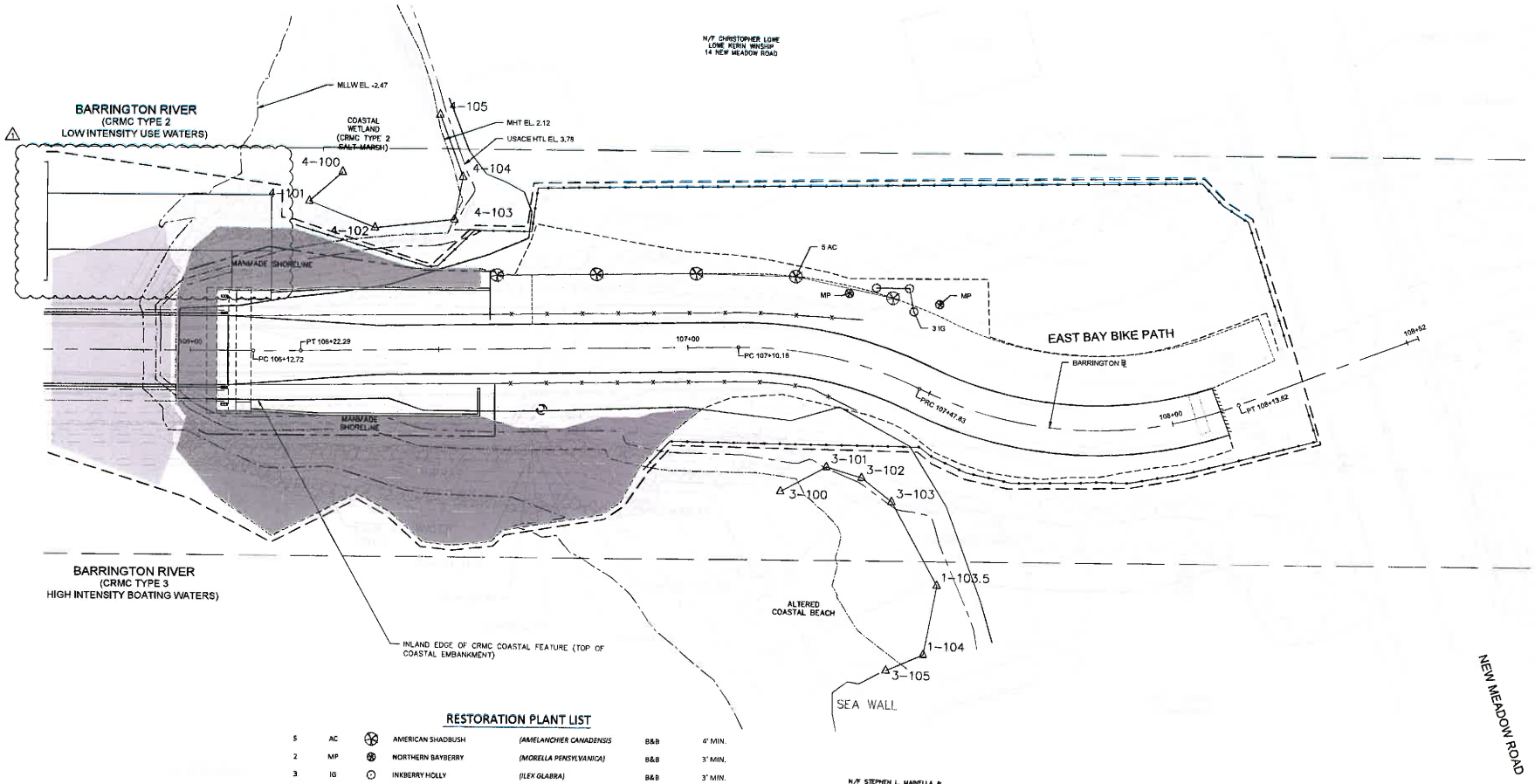
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

RESTORATION PLAN NO. 1

D188A_V1_D18_RESTORAT001

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	19	26



RESTORATION PLANT LIST

5	AC		AMERICAN SHADBUSH	*(AMELANCHIER CANADENSIS*	B&B	4' MIN.
2	MP		NORTHERN BAYBERRY	*(MORELLA PENSYLVANICA)*	B&B	3' MIN.
3	IG		INKBERRY HOLLY	*(ILEX GLABRA)*	B&B	3' MIN.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AECOM Tishman Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 19
OF: 26

SCALE: 1"=10'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

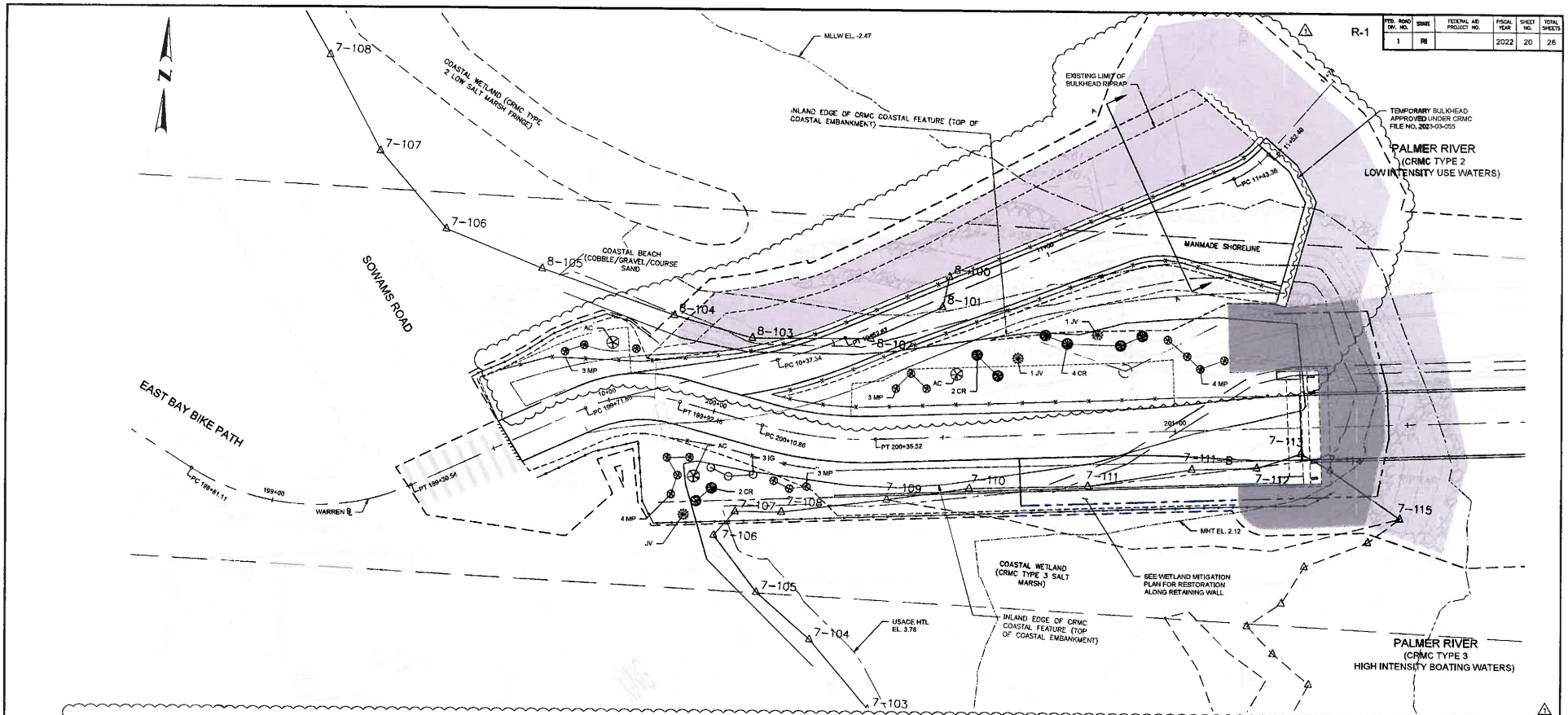
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

RESTORATION PLAN NO. 2

D188A_V1_019_RESTORAT002

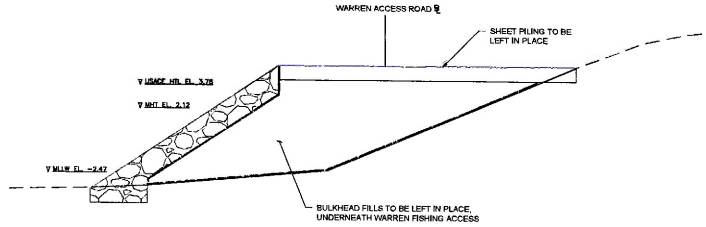
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	20	26

R-1



RESTORATION PLANT LIST

3	AC	AMERICAN SHADBUSH	(AMELANCHIER CANADENSIS	B&B	4' MIN.
3	JV	EASTERN RED CEDAR	(JUNIPERUS VIRGINIANA)	B&B	4' MIN.
17	MP	NORTHERN BAYBERRY	(MORELLA PENSYLVANICA)	B&B	3' MIN.
3	IG	INKBERRY HOLLY	(ILEX GLABRA)	B&B	3' MIN.
8	CR	GRAY DOGWOOD	(CORNUS RACEMOSA)	B&B	3' MIN.



SECTION A–A
ACCESS ROAD
SCALE: 1"=4'

RESTORATION NOTES

1. SHEET PILING TO BE LEFT IN PLACE.
2. NON-WOVEN GEOTEXTILE FABRIC TO BE LEFT IN PLACE.
3. REGRADE, LOAM, AND SEED AREA BETWEEN WARREN BIKE PATH AND WARREN FISHING ACCESS
4. REGRADE, LOAM, AND SEED SHOULDER BETWEEN EMBANKMENT CREST AND PAVEMENT OF WARREN FISHING ACCESS.
5. INSTALL TREE AND SHRUB PLANTINGS AS SHOWN.

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RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 20
OF: 26

SCALE: 1"=10'

REVISIONS NO.	DATE	BY
1	2/1/24	VHB

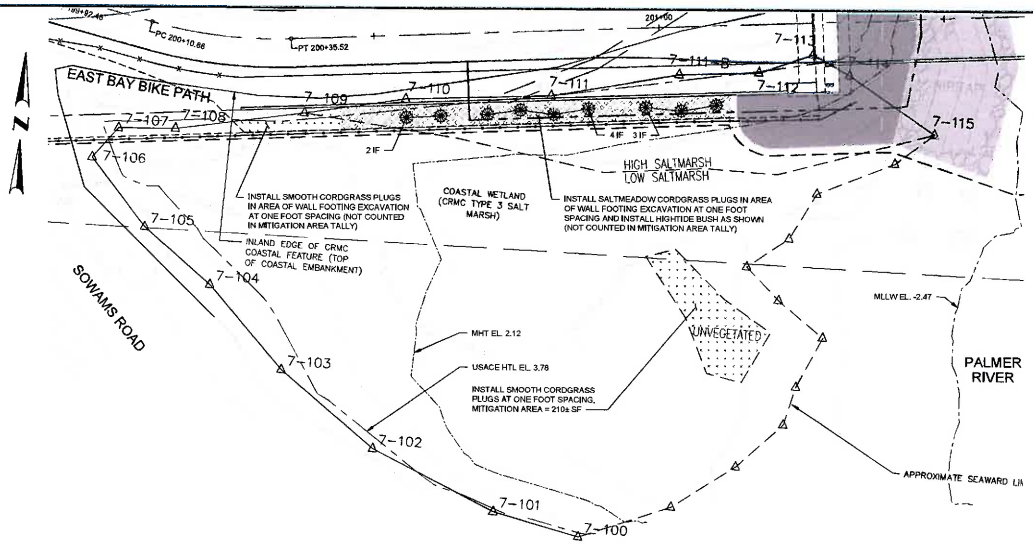
REVISIONS NO.	DATE	BY

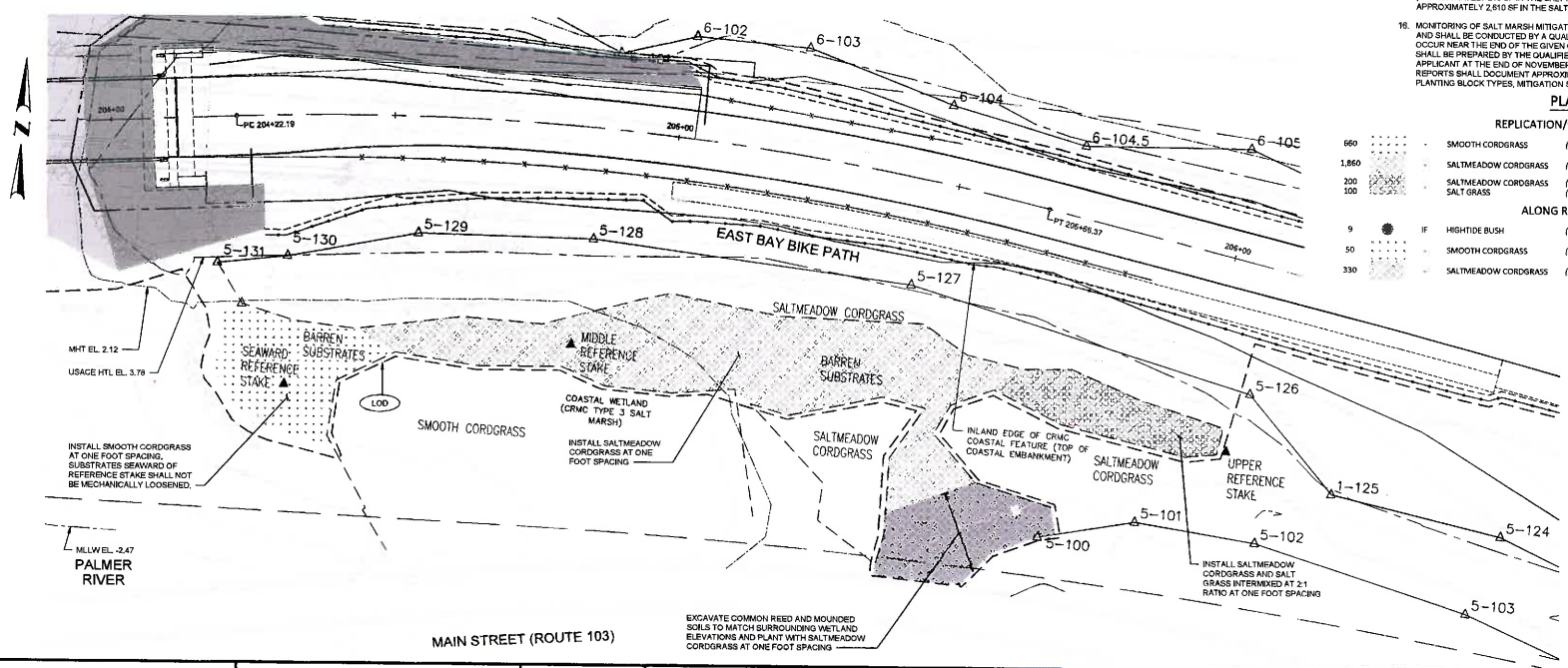
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

RESTORATION PLAN NO. 3

0188A_V1_020_RESTORAT003

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	21	26





LEGEND

- SEAWARD MOST BLOCK AND ON THE WEST SIDE OF THE RIVER: SMOOTH CORDGRASS (Spartina alterniflora) TO BE PLANTED AT ONE FOOT SPACING OVER ENTIRE DESIGNATED AREA.
- MIDDLE BLOCK: SALTMEADOW CORDGRASS (Spartina patens) TO BE PLANTED AT ONE FOOT SPACING OVER ENTIRE DESIGNATED AREA.
- UPPER (EASTERNMOST) BLOCK: SALTMEADOW CORDGRASS AND SALT GRASS (Distichlis spicata) TO BE PLANTED AT ONE FOOT SPACING OVER ENTIRE DESIGNATED AREA AT A RATIO OF 2 PLUGS SALTMEADOW CORDGRASS TO ONE PLUG SALT GRASS RANDOMLY INTERMIXED.

SOIL PREPARATION NOTES FOR SALT MARSH RESTORATION AREA

1. SUBSTRATES ON CHANNEL SIDE OF SEAWARD REFERENCE STAKE SHALL NOT BE MECHANICALLY LOOSENED OR AMENDED SO THEY CAN REMAIN HARDENED AGAINST CURRENTS AND WAVE ACTION.
2. SUBSTRATES BETWEEN SEAWARD AND MIDDLE REFERENCE STAKES SHALL BE MECHANICALLY LOOSENED TO A DEPTH OF ONE FOOT AND AUGMENTED WITH CLEAN MEDIUM TO COARSE SAND AT AN APPROXIMATE RATIO OF 3 PARTS EXISTING SUBSTRATE TO ONE PART INTRODUCED SAND. THE EXISTING SUBSTRATE ELEVATION AND CONTOURING SHALL BE MAINTAINED, SUCH THAT EXISTING SUBSTRATES SHALL BE REMOVED PRIOR TO SAND INTRODUCTION. INTRODUCED SAND SHALL THEN BE WELL MIXED WITH THE EXISTING SUBSTRATES TO THE ONE-FOOT DEPTH.
3. SUBSTRATES BETWEEN THE MIDDLE AND UPPER STAKES SHALL BE MECHANICALLY LOOSED TO AN APPROXIMATE 30 INCH DEPTH SO THAT IT BECOMES FRIABLE. THE UPPER ONE FOOT SHALL BE REMOVED AND REPLACED WITH 9 INCHES OF CLEAN MEDIUM TO COARSE SAND. THE FINAL SURFACE ELEVATION SHALL BE APPROXIMATELY THREE INCHES LOWER THAN THE EXISTING SURFACE ELEVATION AND GRADED SMOOTHLY AND EVENLY UPWARD TO THE UPPER REFERENCE STAKE TO INCREASE THE LANDWARD AREA OF TIDAL INUNDATION.
4. THE MOUNDED AREA CURRENTLY OCCUPIED BY COMMON REED (PHRAGMITES AUSTRALIS) SHALL BE LOWERED IN ELEVATION TO MATCH SURROUNDING SALT MARSH GRADES AND MECHANICALLY LOOSENED TO A DEPTH OF APPROXIMATELY 30 INCHES. ALL COMMON REED RHIZOMES SHALL BE REMOVED AND LAWFULLY DISPOSED OFF SITE.

GENERAL MITIGATION NOTES

1. ALL WORK SHALL COMPLY WITH THE APPROVED SITE PLANS AND ALL PERMITS AND PERMIT CONDITIONS ISSUED BY THE CRMC, RIDEM, AND USACE.
2. A QUALIFIED WETLAND BIOLOGIST SHALL BE PRESENT AT LEAST PART TIME WHILE MITIGATION ACTIVITIES ARE BEING CONDUCTED TO OBSERVE WORK ACTIVITIES AND PROVIDE GUIDANCE AS MAY BE NECESSARY.
3. PRIOR TO WORK COMMENCEMENT, AN ON-SITE MEETING SHALL BE HELD WITH THE CONTRACTOR, QUALIFIED BIOLOGIST, AND ANY INTERESTED REGULATORY PERMITTING PERSONNEL TO REVIEW WORK LIMITS AND METHODS.
4. WORK WILL NEED TO BE TIMED WITH LOW TIDE CYCLES.
5. TO THE EXTENT PRACTICABLE, SALT MARSH MITIGATION SHALL OCCUR DURING THE FIRST FULL GROWING SEASON OF THE PROJECT, PRIOR TO THE PROPOSED SALT MARSH DISPLACEMENT.
6. MACHINERY ACCESS SHALL OCCUR FROM THE BIKE PATH, AT A LOCATION ACCEPTABLE TO THE QUALIFIED WETLANDS BIOLOGIST AND REGULATORY PERSONNEL.
7. MACHINERY WORK IN THE SALT MARSH SHALL OCCUR SEQUENTIALLY FROM SEAWARD TO LANDWARD IN A MANNER THAT MINIMIZES EQUIPMENT PASSES AND AVOIDS PASSING OVER SUBSTRATES THAT HAVE BEEN MECHANICALLY LOOSENED.
8. PLUGS OF SALT MARSH GRASSES SHALL BE OF NATIVE VARIETY AND OBTAINED FROM REPUTABLE NURSERIES IN THE NORTHEAST.
9. PLUGS OF SALT MARSH GRASSES SHALL BE SECURED FIRMLY IN THE SUBSTRATE SO THEY DO NOT FLOAT DURING TIDAL INUNDATION.
10. A FERTILIZER SUPPLEMENT SHALL ACCOMPANY EACH PLUG AT TIME OF PLANTING, AS RECOMMENDED BY THE PLANT SUPPLIER.
11. TO THE EXTENT POSSIBLE, PLUGS OF SALT MARSH GRASSES SHALL BE PLANTED IN THE SPRING TO ALLOW MAXIMUM ROOT DEVELOPMENT OVER A FULL GROWING SEASON.
12. MECHANICAL MEANS OF CANADA GOOSE DETERRENT SHALL BE EMPLOYED, AS WITH ELEVATED TWINE AND FLAGGING TO DISTRACT ENTRY AND INTERFERE WITH LANDING. SUCH DETERRENT SHALL REMAIN IN PLACE FOR AT LEAST ONE GROWING SEASON, UNTIL ROOTS ARE WELL ESTABLISHED AND PROVIDE SUFFICIENT ANCHORING. THE METHOD OF DETERRENT SHALL BE APPROVED BY CRMC PERMITTING PERSONNEL PRIOR TO INSTALLATION.
13. CLUMPS OF COMMON REED (Phragmites australis) PRESENT OUTSIDE OF THE AREA SHOWN FOR REMOVAL SHALL BE REMOVED MANUALLY, SUCH THAT ENTIRE RHIZOMES ARE REMOVED.
14. ALL SAND INTRODUCED TO AMEND EXISTING SUBSTRATES SHALL BE OF LOCAL SOURCE, CLEAN, AND FREE OF DEBRIS AND CONTAMINATION.
15. APPROXIMATELY 2,820 SF OF WETLAND REPLICATION/RESTORATION/ENHANCEMENT IS PROPOSED (APPROXIMATELY 210 SF IN THE SALT MARSH ON THE WEST SIDE OF THE PALMER RIVER AND APPROXIMATELY 2,610 SF IN THE SALT MARSH ON THE EAST SIDE OF THE PALMER RIVER).
16. MONITORING OF SALT MARSH MITIGATION CONDITIONS SHALL OCCUR FOR THREE FULL GROWING SEASONS AND SHALL BE CONDUCTED BY A QUALIFIED WETLANDS BIOLOGIST. FINAL ANNUAL INSPECTIONS SHALL OCCUR NEAR THE END OF THE GIVEN GROWING SEASON, AND A SINGLE ANNUAL MONITORING REPORT SHALL BE PREPARED BY THE QUALIFIED WETLANDS BIOLOGIST AND SUBMITTED BY, OR ON BEHALF OF, THE APPLICANT AT THE END OF NOVEMBER OF THE GIVEN CALENDAR YEAR. THE ANNUAL MONITORING REPORTS SHALL DOCUMENT APPROXIMATE VEGETATIVE COVER ACHIEVED IN EACH OF THE THREE PLANTING BLOCK TYPES, MITIGATION SUCCESS AND FAILURES, AND ANY NEEDED CORRECTIVE ACTIONS.

PLANT LIST

REPLICATION/RESTORATION AREAS

660	-	SMOOTH CORDGRASS	*(SPARTINA ALTERNIFLORA)*	PLUGS	-
1,860	-	SALTMEADOW CORDGRASS	*(SPARTINA PATENS)*	PLUGS	-
200 100	-	SALTMEADOW CORDGRASS SALT GRASS	*(SPARTINA PATENS)* *(DISTICHLIS SPICATA)*	PLUGS	-

ALONG RETAINING WALL

9	IF	HIGHTIDE BUSH	*(IVA FRUTESCENS)*	B&B	3' MIN.
50	-	SMOOTH CORDGRASS	*(SPARTINA ALTERNIFLORA)*	PLUGS	-
330	-	SALTMEADOW CORDGRASS	*(SPARTINA PATENS)*	PLUGS	-

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AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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CHECKED BY:
DATE:
SHEET: 21
OF: 26

SCALE: 1"=10'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

WETLAND MITIGATION PLAN

0188A_V1_021_WETLAND

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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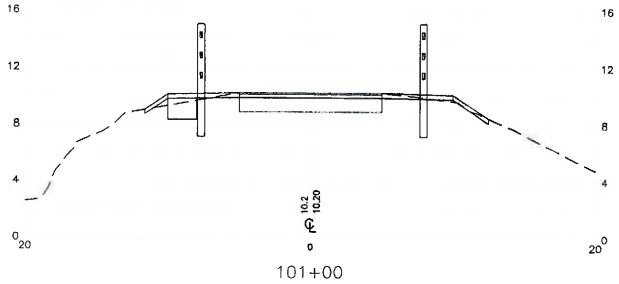

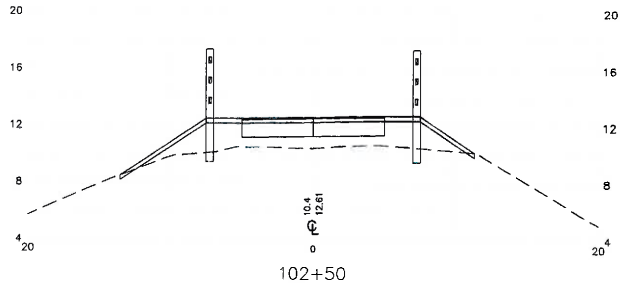

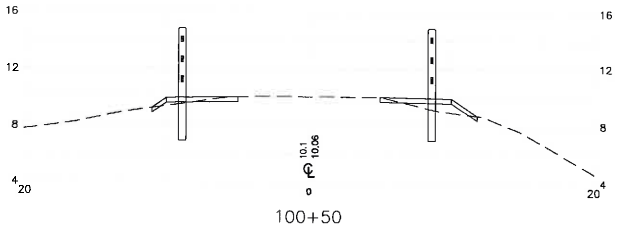

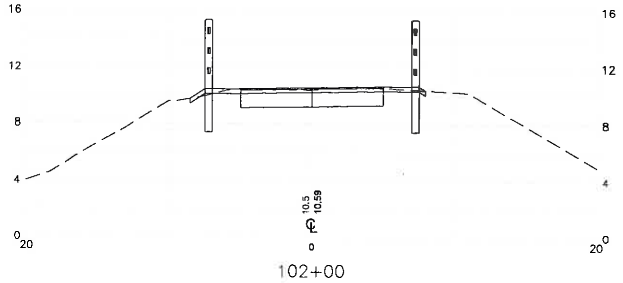

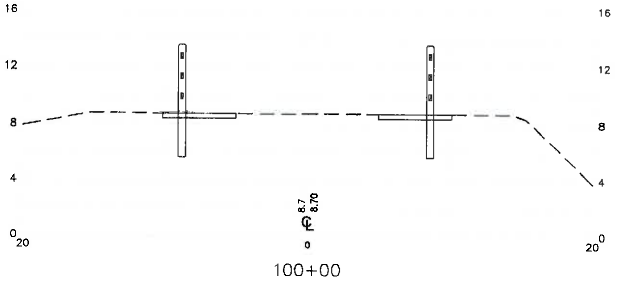

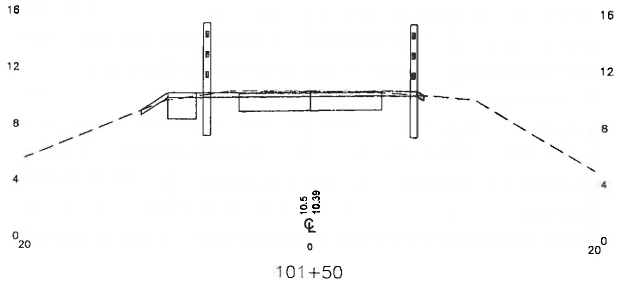

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 22
OF: 26

SCALE: 1"=4'
SCALE IN FEET

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

CROSS SECTIONS

0188A_V1_022_XSECTION001

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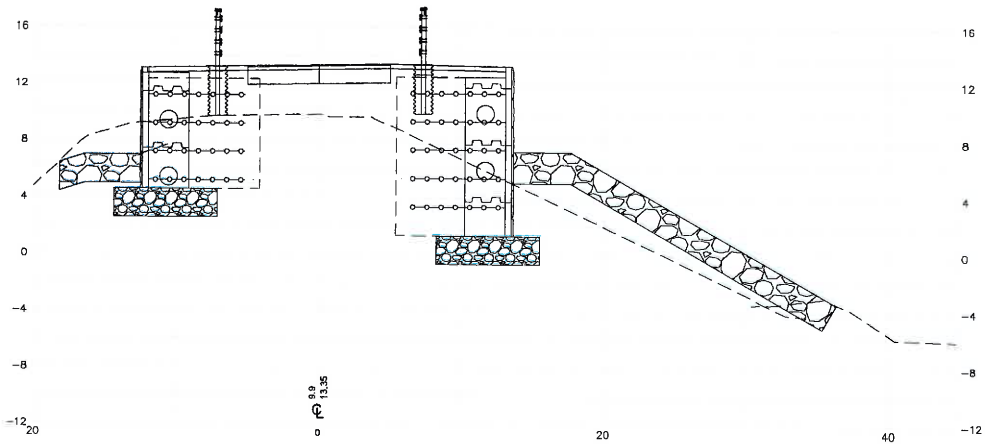

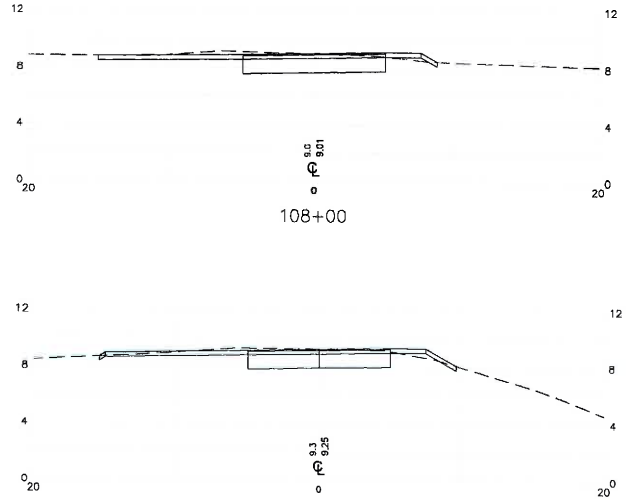

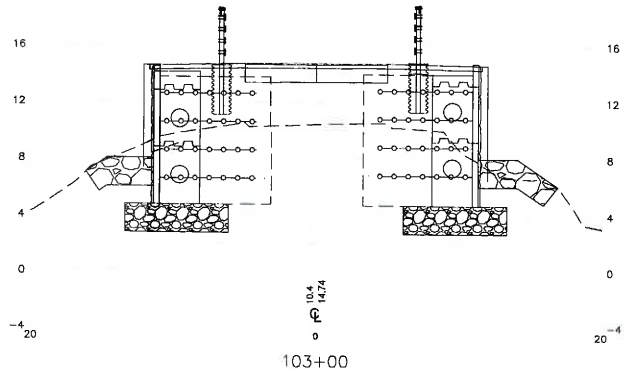

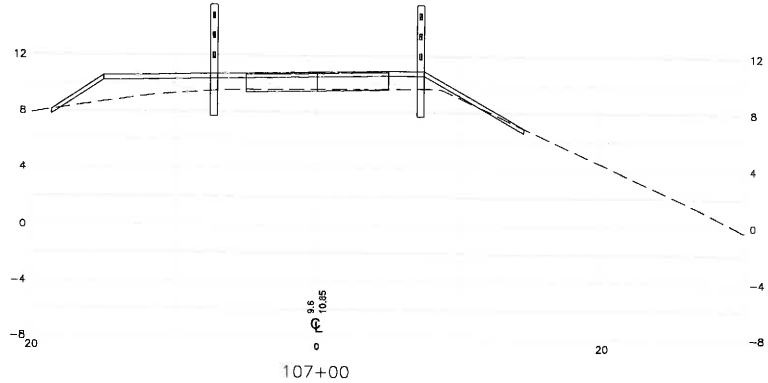

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RI DOT

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
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DATE:
SHEET: 23 OF: 26

SCALE: 1"=4'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

CROSS SECTIONS

0188A_V1_022_XSECTION001

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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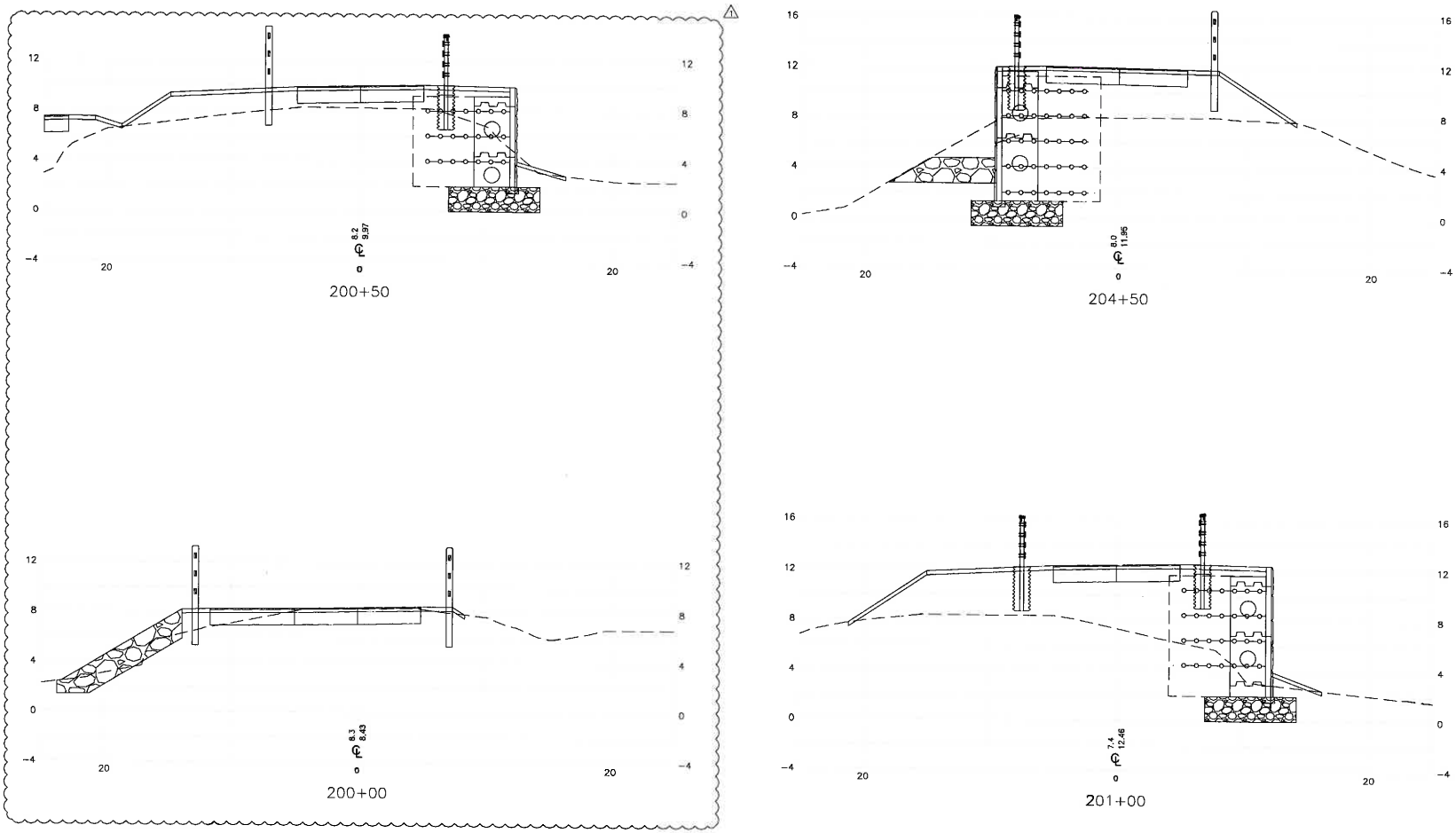

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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DESIGNED BY:
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SHEET: 24
OF: 26

SCALE: 1"=4'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

CROSS SECTIONS

0188A_V1_022_XSECTION001

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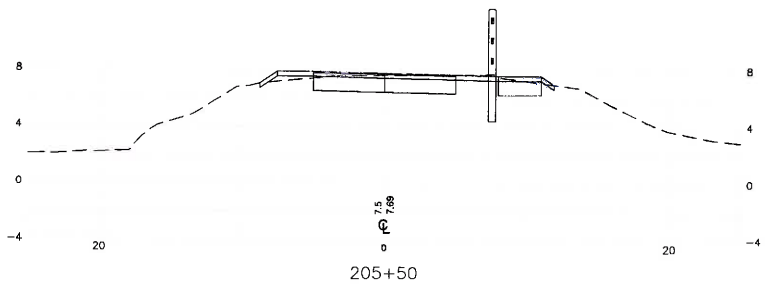

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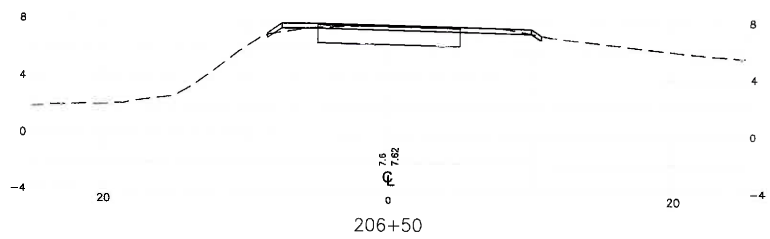

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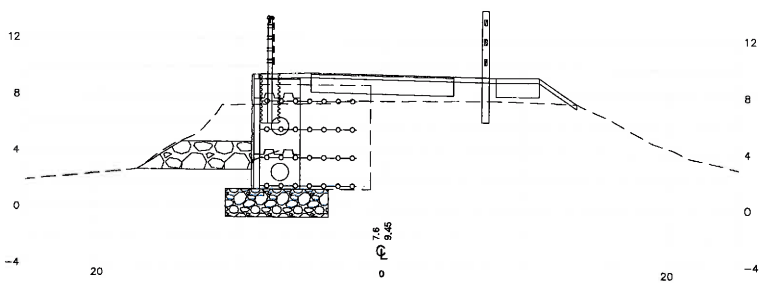

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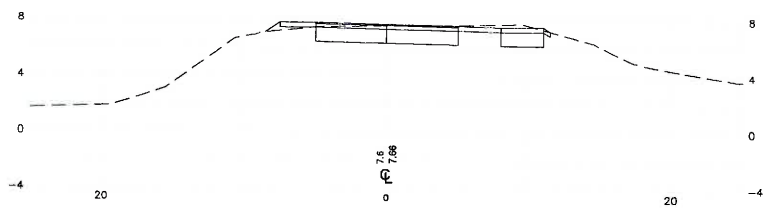

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OF: 26

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SCALE IN FEET

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

BARRINGTON/WARREN — VOLUME 1 — RHODE ISLAND

CROSS SECTIONS

0188A_V1_022_XSECTION001

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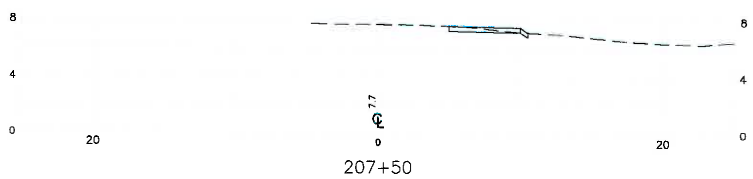

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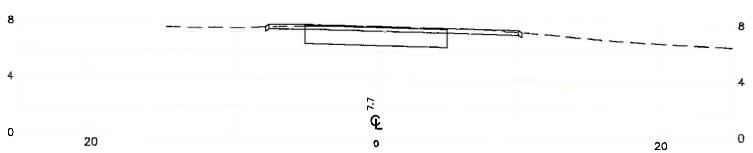

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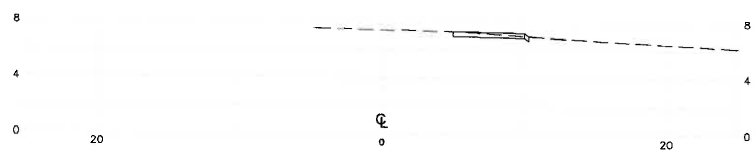

208+00

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ÆTNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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OF: 26

SCALE: 1"=4'

REVISIONS			REVISIONS		
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EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)

BARRINGTON/WARREN VOLUME 1 RHODE ISLAND

CROSS SECTIONS

01B8A_V1_022_XSECTION001

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	1	38

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

EAST BAY BIKE PATH BRIDGE REPLACEMENTS
BRIDGE NOS. 083751 & 083851
RECONSTRUCTION PLANS
ENVIRONMENTAL PERMITTING SET
VOLUME 2

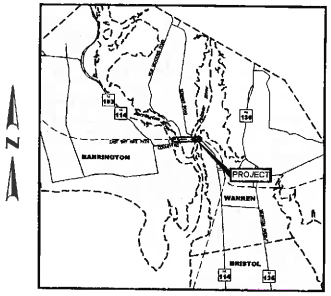
EAST BAY BIKE PATH OVER BARRINGTON RIVER AND PALMER RIVER

TOWNS OF BARRINGTON AND WARREN
COUNTY OF BRISTOL

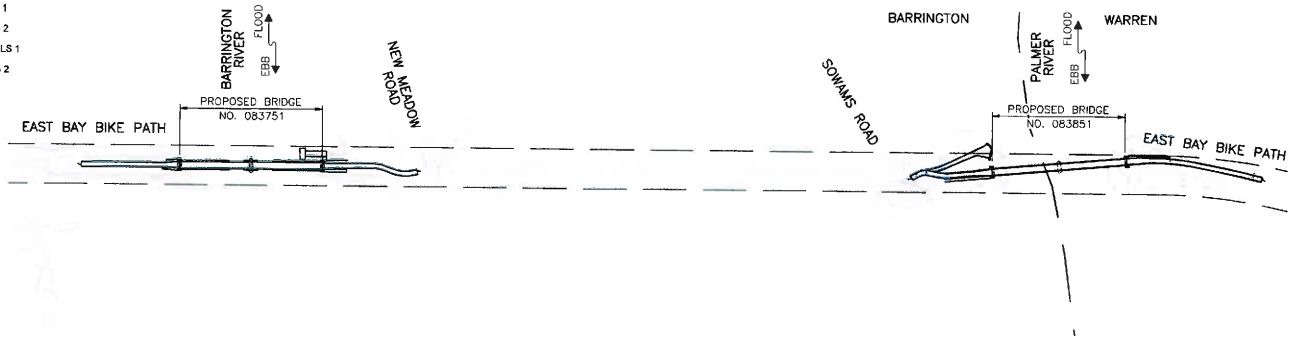
R.I. CONTRACT NO. 2022-DB-012 F.A. PROJECT NO. BRO-0838(002)

INDEX

Sheet Number	Sheet Description
1	COVER
2	LIST OF ABBREVIATIONS AND LEGEND
3	JOB SPECIFIC GENERAL NOTES 1
4	JOB SPECIFIC GENERAL NOTES 2
5	JOB SPECIFIC GENERAL NOTES 3
6	JOB SPECIFIC GENERAL NOTES 4
7	BR. 083751 GENERAL PLAN
8	BR. 083751 BRIDGE TYPICAL SECTION
9	BR. 083751 PROFILE
10	BR. 083751 FOUNDATION PLAN
11	BR. 083751 WEST ABUTMENT PLAN AND ELEVATION
12	BR. 083751 EAST ABUTMENT PLAN AND ELEVATION
13	BR. 083751 ABUTMENT DETAILS
14	BR. 083751 RETAINING WALL PLAN 1
15	BR. 083751 RETAINING WALL PLAN 2
16	BR. 083751 RETAINING WALL PLAN 3
17	BR. 083751 RETAINING WALL PLAN 4
18	BR. 083751 PIER DETAILS
19	Br. 083751 FISHING PIER GENERAL PLAN
20	BR. 083751 FISHING PIER ELEVATION
21	BR. 083751 FISHING PIER TYPICAL SECTION
22	BR. 083851 BRIDGE GENERAL PLAN
23	BR. 083851 BRIDGE TYPICAL SECTION
24	BR. 083851 BRIDGE PROFILE
25	BR. 083851 FOUNDATION PLAN
26	BR. 083851 WEST ABUTMENT PLAN AND ELEVATION
27	BR. 083851 EAST ABUTMENT PLAN AND ELEVATION
28	BR. 083851 ABUTMENT DETAILS
29	BR. 083851 RETAINING WALL PLAN 1
30	BR. 083851 RETAINING WALL PLAN 2
31	BR. 083851 PIER DETAILS
32	BR. 083851 FISHING PIER GENERAL PLAN
33	Br. 083751 & 083851 RIP RAP DETAILS 1
34	BR. 083751 & 083851 RIP RAP DETAILS 2
35	BR. 083751 & 083851 BRIDGE RAIL DETAILS 1
36	BR. 083751 & BR. 083851 RAIL DETAILS 2
37	BR. 083751 & 083851 RAIL DETAILS 3
38	BR. 083751 & 083851 RAIL DETAILS 4



LOCATION MAP
SCALE: 1"=5000'



LAYOUT PLAN
SCALE 1"=120'

PERMIT PLAN
REVISIONS
FEBRUARY 2024

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

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 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.

RECEIVED
2/7/2024
RI HISTORICAL PRESERVATION & HERITAGE COMMISSION

RI DOT

AETNA
Aetna Bridge Company

BASE OF LEVELS
NAVD 88
NAD 83 (2011)

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

Contract Number 2022-DB-012
Number of Sheet 1
Total Sheets 38

0188A_V2_XXX_BCOVER

FED. ROAD INV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	2	38

LIST OF ABBREVIATIONS

ABANDONED = ABD.
ABUTMENT = ABUT.
ADDITIONAL = ADD'L
ALTERNATE = ALT.
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS = AASHTO
ANCHOR BOLT = A.B.
AMERICAN PETROLEUM INSTITUTE = API
APPROVED = APPD.
APPROXIMATE = APPROX.
AT = @
AVERAGE = AVG.

B
BASELINE OF CONSTRUCTION = ℄
BACK TO BACK = B TO B
BEAM = BM.
BEARING = BRG.
BEND POINT = B.P.
BETWEEN = BTWN
BITUMINOUS = BIT.
BITUMINOUS COATED CORRUGATED METAL PIPE = B.C.C.M.P.
BUILDING = BLDG.
BUILDING LINE = B.L.
BOLT CIRCLE = B.C.
BOTH SIDES = B.S.
BOTTOM = BOT.
BOTTOM OF FOOTING = B.O.F.

C
CAST IN PLACE = C.I.P.
CENTER TO CENTER = C TO C, C/C
COLLECTOR/DISTRIBUTOR = C/D
CENTERLINE = ℄
CIRCLE = CIR.
CONTROLLED LOW STRENGTH MATERIAL = CLSM
CLEARANCE = CLR.
COLUMN = COL.
CONCRETE = CONC.
CONDUIT = COND.
CONNECTION = CONN.
CONSTRUCTION = CONST.
CONTINUOUS = CONT.
CONTRACTION = CONTR.
CORRUGATED METAL PIPE = CMP
COUNTERSINK = CSK.
COUPLING = CPLG.

D
DETAIL = DET.
DIAGONAL = DIAG.
DIAPHRAGM = DIAPHM.
DIAMETER = DIA.
DIMENSION = DIM.
DRAIN = DR.
DRAWING = DWG.
DRILL & GROUT = D&G

E
EACH = EA.
EACH FACE = E.F.
EACH WAY = E.W.
EAST = E.
EASTBOUND = EB
ELECTRIC = ELEC.
ELEVATION = EL.
EMBANKMENT = EMBANK.
EMBEDMENT = EMBED.
EXISTING = EXIST.
EXPANSION = EXP.
EQUAL = EQ.

F
FABRICATE = FAB.
FACE TO FACE = F TO F
FAR FACE = F.F.
FAR SIDE = F.S.
FLANGE = FLG.
FLAT HEAD = F.H.
FOOTING = FTG.
FOUNDATION = FDN.
FURNISH, FABRICATE & ERECT = F.F. & E.

G
GAGE = GA.
GALVANIZED = GALV.
GRADE = GR.
GRATING = GRTG.
GROUND = GND.

H
HEIGHT = HGT., HT.
HEXAGON = HEX.
HIGH STRENGTH = HS
HIGH TIDE LINE = H.T.L.
HOT MIXED ASPHALT = HMA
HOLLOW STRUCTURAL SECTION = HSS
HORIZONTAL = HORIZ.

I
INCH = IN.
INFORMATION = INFO.
INSIDE DIAMETER = I.D.
INTELLIGENT TRANSPORTATION SYSTEMS = I.T.S.
INVERT = INV.

J
JOINT = JT.

L
LEFT = LT.
LENGTH = LGTH.
LIGHTING = LTG.
LONG = LG.
LONGITUDINAL = LONGIT.

M
MATERIAL = MATL.
MAXIMUM = MAX.
MEAN HIGH TIDE = M.H.T.
MEAN HIGH WATER = M.H.W.
MEAN LOW LOWER WATER = M.L.L.W
MEAN LOW WATER = M.L.W.
MEAN SEA LEVEL = M.S.L.
MINIMUM = MIN.
MISCELLANEOUS = MISC.

N
NEAR FACE = N.F.
NEAR SIDE = N.S.
NORTH = N.
NORTHBOUND = NB, N.B.
NOT IN CONTRACT = N.I.C.
NOT TO SCALE = N.T.S.
NUMBER = NO.

O
ON CENTER = O.C.
OPENING = OPNG.
OPPOSITE = OPP.
OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION = OSHA
OUTSIDE DIAMETER = O.D.
OPTIONAL = OPT.
OVERHEAD WIRE = O.H.W.

P
PARALLEL = PRL.
PEDESTRIAN = PED.
PLATE = PL
POINT OF VERTICAL CURVATURE = P.V.C.
POINT OF VERTICAL TANGENCY = P.V.T.
POINT = PT.
POINT OF CURVATURE = PC
POINT OF TANGENCY = PT
POLYVINYL CHLORIDE = PVC
POUNDS PER SQUARE INCH = P.S.I.
PRECAST CONCRETE INSTITUTE = PCI
PRECAST = P/C
PRESTRESSED = P/S
PROFILE GRADE LINE = PGL
PROPOSED = PROP.

R
RADIUS = RAD., R
RAILROAD = RR.
REHABILITATION = REHAB.
REINFORCED CONCRETE PIPE = RCP
REINFORCING = REINF.
RELOCATED = RELOC.
REMOVE & DISPOSE = R&D
REMOVE & RESET = R&R
REQUIRED = REQD.
RETAINING = RET.
RHODE ISLAND = R.I.
RIGHT = RT.
RIGID STEEL CONDUIT = R.S.C.
ROAD WEATHER INFORMATION SYSTEM = RWIS

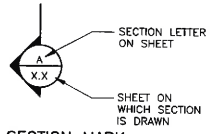
S
SECTION = SECT.
SCHEDULE = SCH.
SCHEMATIC = SCHEM.
SHEET = SH., SHT.
SHOULDER = SHLDR.
SIMILAR = SIM.
SOLDIER PILE & LAGGING = SPL
SOUTH = S.
SOUTHBOUND = SB, S.B.
SPACES = SP.
SPACING = SPC.
STANDARD = STD.
STAY-IN-PLACE = S.I.P.
STANDARD = STD.
STATION = STA.
STAINLESS STEEL = S.S.
STIFFENER = STIFF.
SUPPORT OF EXCAVATION = SOE, S.O.E.
SYMMETRICAL = SYM.

T
TANGENT = TAN.
TEMPORARY = TEMP.
TOP = T
TOP AND BOTTOM = T&B
TOP OF STEEL = T.O.S.
TOP OF WALL = T.O.W.
TRANSVERSE = TRANSV.
TUBE SECTION = TS
TYPICAL = TYP.

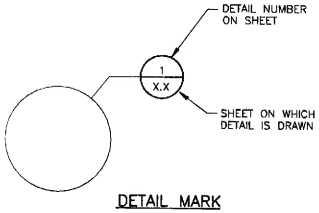
U
UNLESS NOTED OTHERWISE = U.N.O.
ULTRA HIGH PERFORMANCE CONCRETE = UHPC
UNITED STATES ARMY CORPS OF ENGINEERS = USACE

V
VARIES = VAR.
VERTICAL CURVE = V.C.
VERTICAL = VERT.

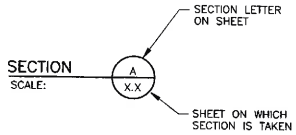
W
WEARING SURFACE = W.S.
WELDED WIRE FABRIC = W.W.F.
WEST = W.
WESTBOUND = WB
WITH = W/
WIDE FLANGE = W
WORKING POINT = W.P.



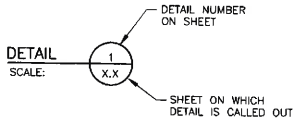
SECTION MARK



DETAIL MARK



SECTION TITLE



DETAIL TITLE

SECTION & DETAIL DESIGNATIONS

RECEIVED 2/7/2024 CONTRACT MANAGEMENT SERVICES

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 2
OF: 38

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

LIST OF ABBREVIATIONS AND LEGEND

01BBA_V2_002_INDEXABBR

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	3	38

GENERAL NOTES:

1. ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
   - THE 2004 EDITION (AMENDED MARCH 2018) OF, AND SUPPLEMENTS TO, THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).
   - THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION, 2017, INCLUDING THE LATEST INTERIM REVISIONS.
   - THE SPECIFICATIONS ACCOMPANYING THESE PLANS.

   IN CASE OF CONFLICT BETWEEN THE PLANS, SPECIFICATIONS OR MANUAL LISTED ABOVE, THE SPECIAL PROVISIONS OF THE SPECIFICATIONS ACCOMPANYING THESE PLANS SHALL GOVERN
2. ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF NAVD 88.
3. COORDINATES USED ON THESE PLANS ARE BASED ON THE STATEWIDE COORDINATE SYSTEM, THE NORTH AMERICAN DATUM OF 1983 (NAD 83 / 2011).
4. DIMENSIONS, STATIONS, AND ELEVATIONS ARE SHOWN TO THE NEAREST ONE-HUNDREDTH OF A FOOT OR ONE-EIGHTH OF AN INCH, EXCEPT STRUCTURAL STEEL DIMENSIONS WHICH ARE TO THE NEAREST ONE-SIXTEENTH OF AN INCH.
5. ALL ANGLES ARE SHOWN TO THE NEAREST SECOND.
6. TOPOGRAPHIC CONDITIONS WERE OBTAINED FROM AERIAL PHOTOGRAMMETRY. ACCURACY OF VERTICAL TOPOGRAPHY IS WITHIN ONE-HALF OF A FOOT.
7. FOR BENCH MARKS AND TIES SEE HIGHWAY LOCATION PLANS.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, DETAILS, ANGLES, STRUCTURAL MEMBER SIZES, AND LAYOUTS AS SHOWN ON THESE PLANS. THIS PRIOR FIELD VERIFICATION IS ESPECIALLY PERTINENT FOR PRE-FABRICATED STRUCTURAL ITEMS AND WORK IN THE VICINITY OF UTILITIES.
9. TEMPORARY PROTECTIVE SHIELDING:
   DEBRIS SHIELDS SHALL BE PROVIDED AND INSTALLED TO PROTECT MOTORISTS, WATER WAYS, ETC. FROM ANY DEMOLITION OR CONSTRUCTION DEBRIS.
10. EXISTING DETAILS, DIMENSIONS AND ELEVATIONS PROVIDED IN THIS PLAN SET HAVE BEEN OBTAINED FROM THE ORIGINAL DRAWINGS AND SURVEY AND ARE NOT GUARANTEED.
11. FIELD CONDITIONS MAY EXIST WHICH DEVIATE FROM THE TYPICAL AND THEORETICAL DIMENSIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.
12. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTION TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS DURING ALL PHASED CONSTRUCTION UNTIL THE TOTAL STRUCTURE IS IN PLACE.
13. THE CONTRACTOR SHALL CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO STARTING THE WORK TO VERIFY LOCATIONS OF EXISTING UTILITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH UTILITY OWNERS.
15. ALL FOOTINGS SHALL BE APPROVED BY THE ENGINEER AS TO DIMENSIONS, ELEVATIONS, AND SUITABILITY OF FOUNDATION MATERIAL BEFORE THE PLACING OF CONCRETE.
16. ALL WORKING POINTS ARE SHOWN AT THE CENTERLINES OF BEARINGS OF ABUTMENTS, UNLESS OTHERWISE NOTED.
17. ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT THE EXPOSED FACES.
18. THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE LOCATED USING THE BEST AVAILABLE INFORMATION. NO BUILDING SERVICE CONNECTIONS (ELECTRIC, TELEPHONE, GAS, WATER, SANITARY AND OTHERS) ARE SHOWN. THE CONTRACTOR IS TO ASSUME THAT SERVICES TO ALL BUILDINGS ARE PRESENT.
19. BOTH FEDERAL AND STATE LAW (RI. GENERAL LAW 39-1.2) REQUIRE NOTIFICATION OF APPROPRIATE UTILITY COMPANIES BEFORE DIGGING, TRENCHING, BLASTING, DEMOLISHING, BORING, BACK FILLING, 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.

DESIGN DATA

DESIGN SPECIFICATIONS

- THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020, INCLUDING ALL INTERIM REVISIONS.
- THE AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009 INCLUDING ALL INTERIM REVISIONS.
- THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL 2007 EDITION INCLUDING ALL REVISIONS.
- ALL OTHER APPLICABLE DESIGN SPECIFICATIONS ARE REFERENCED IN SECTION 1 OF THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL DATED 2007.
- THE 2004 EDITION (AMENDED MARCH 2018) OF, AND SUPPLEMENTS TO, THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).

IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN.

LOAD MODIFIERS

UNLESS NOTED OTHERWISE, THE LOAD MODIFIERS FOR THIS PROJECT ARE AS FOLLOWS:

- THE LOAD MODIFIER FOR DUCTILITY SHALL BE TAKEN AS 1.0 FOR ALL LIMIT STATES.
- THE LOAD MODIFIER FOR REDUNDANCY SHALL BE TAKEN AS 1.0 FOR ALL LIMIT STATES.
- THE LOAD MODIFIER FOR OPERATIONAL IMPORTANCE SHALL BE TAKEN AS 1.0 FOR ALL LIMIT STATES.

LOAD FACTORS

ALL LOAD FACTORS SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT AS MODIFIED IN THE RHODE ISLAND BRIDGE DESIGN MANUAL.

- THE LOAD FACTOR FOR LIVE LOAD FOR THE EXTREME EVENT I LIMIT STATE SHALL BE TAKEN AS ZERO.
- THE LOAD FACTOR FOR DEAD LOAD FOR THE EXTREME EVENT I AND EXTREME EVENT II LIMIT STATE SHALL BE TAKEN AS 1.0
- THE LOAD FACTOR FOR SETTLEMENT FOR ALL LIMIT STATES SHALL BE TAKEN AS 1.0

LIVE LOADS

- THE DESIGN VEHICULAR LIVE LOAD SHALL BE THE H15-44 DESIGNATION ADJUSTED FOR THE DYNAMIC LOAD ALLOWANCE, MULTIPLE PRESENCE FACTOR AND PER RI TAC 0347.

WIND LOADING DESIGN DATA

THE WIND LOADING DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL, AND AS MODIFIED HEREIN.

- EXCEPT DURING CONSTRUCTION, THE DESIGN WIND PRESSURE IS BASED ON A DESIGN WIND SPEED OF 140 MPH.
- THE DESIGN WIND PRESSURES DURING CONSTRUCTION SHALL BE AS SPECIFIED UNDER THE NOTES TITLED "GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS".

TRAFFIC DATA

NOT APPLICABLE

THERMAL DESIGN FORCE DATA

UNIFORM TEMPERATURE EFFECTS HAVE BEEN TAKEN INTO CONSIDERATION IN ACCORDANCE WITH THE PROCEDURE B OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE MINIMUM DESIGN TEMPERATURE SHALL BE -10 DEGREES F, AND THE MAXIMUM TEMPERATURE SHALL BE 105 DEGREES F.

SEISMIC DESIGN DATA

PER RIDOT LRFD BRIDGE MANUAL AND AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EAST BAY BIKE PATH BRIDGES 083751 & 083851 SHALL MEET SEISMIC ZONE 1 DESIGN CRITERIA AND RFP ADDENDUM 3 CRITERIA.

ALL REFERENCES IN THESE GENERAL NOTE SHEETS AND THROUGHOUT THE CONTRACT DRAWINGS TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL EXCLUDE THE METHOD OF MEASUREMENT SECTION AND BASIS OF PAYMENT SECTION FOR ITEMS PAID FOR BY THE LUMP SUM ITEMS IN THIS CONTRACT.

FOUNDATION DESIGN DATA:

SPREAD FOUNDATIONS:

THE FACTORED BEARING RESISTANCE FOR THE VARIOUS SHALLOW FOUNDATION TYPES ARE AS FOLLOWS:

		BEARING RESISTANCE (KSF)	
LOCATION	TYPE OF BEARING MATERIAL	STRENGTH LIMIT STATES (ϕ=0.45)	SERVICE LIMIT STATES (ϕ=1.0)
ABUTMENTS	UNDISTURBED NATURAL GRANULAR SOILS	7	3.2

DEEP FOUNDATIONS:

THE FACTORED AXIAL AND UPLIFT RESISTANCES FOR THE VARIOUS DEEP FOUNDATION TYPES ARE AS FOLLOWS:

		FACTORED AXIAL RESISTANCE (KIPS)	
LOCATION	TYPE	STRENGTH LIMIT STATES	EXTREME LIMIT STATES
BR. 083751 PIER	DMP	200	286
BR. 083851 PIER	DMP	220	315
BR. 083751 ABUTMENT	DMP	218	312

		FACTORED UPLIFT RESISTANCE (KIPS)	
LOCATION	TYPE	STRENGTH LIMIT STATES	EXTREME LIMIT STATES
BR. 083751 PIER	DMP	123	141
BR. 083851 PIER	DMP	127	145
BR. 083751 ABUTMENT	DMP	23	26.5

- THE FACTORED DESIGN AXIAL RESISTANCE AT EACH LOCATION IS THE LESSER VALUE OF THE FACTORED GEOTECHNICAL AND THE FACTORED STRUCTURAL RESISTANCES INDICATED.
- THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE STRENGTH LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE AS DETERMINED USING A NOMINAL BOND RESISTANCE OF 3.6 KSF AND A RESISTANCE FACTOR OF 0.7 (FOR COMPRESSION LOADING).
- THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE EXTREME LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE AS DETERMINED USING A NOMINAL BOND RESISTANCE OF 3.6 KSF AND A RESISTANCE FACTOR OF 1.0 (FOR COMPRESSION LOADING).
- THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE STRENGTH LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE AS DETERMINED USING A NOMINAL BOND RESISTANCE OF 3.6 KSF AND A RESISTANCE FACTOR OF 0.7 (FOR TENSION).
- THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE EXTREME LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE AS DETERMINED USING A NOMINAL BOND RESISTANCE OF 3.6 KSF AND A RESISTANCE FACTOR OF 0.8 (FOR TENSION).

NOTE:
MODULAR WALLS SHALL BE DESIGNED BY THE WALL SUPPLIER. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL DESIGN CALCULATIONS AND WORKING DRAWINGS SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF RHODE ISLAND.

EARLY RELEASE FOR CONSTRUCTION (ERC 1) APRIL 2023

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0B38(002)	2022	4	38

MATERIALS

STRUCTURAL STEEL:

- AASHTO DESIGNATION M 270, GRADE 50, GALVANIZED
- TRUSS BRIDGE STEEL, REFER TO CODE 801.9901 PREFABRICATED MODULAR BRIDGE FOR MATERIAL.
- API N80 CASING

REINFORCING STEEL:

- AASHTO DESIGNATION M 31, GRADE 60
- GALVANIZED COATING ASTM A767, CLASS I
- ASTM A615 GRADE 75 OR ASTM 722 GRADE 150 FOR MICRO-PILES

TREATED TIMBER

- 2x4 THRU 2x10, 4x4, 4x6 SHALL BE SOUTHERN PINE, GRADE NO. 1 OR BETTER

HARDWARE AND FASTENERS:

- CARRIAGE BOLTS, THREADED RODS, LAG SCREWS — ASTM A307 GRADE A
- HEX BOLTS — ASTM A307 GRADE A
- OGEE WASHERS — ASTM A48

COMPOSITE TOP RAIL:

- COMPOSITE TOP RAIL BOARDS SHALL BE CONSTRUCTED, MANUFACTURED, AND FABRICATED IN ACCORDANCE WITH ASTM D7032-6A STANDARD SPECIFICATIONS. BOARDS SHALL BE SOLID COMPOSITE AND CAPPED. COLOR OF TOP RAIL SHALL BE GRAY.

CONCRETE STRENGTHS:

- CLASS HP ¾" F'C=5,000 PSI
  RETURN WALLS, BACKWALLS
- CLASS MC ¾" F'C=3,500 PSI @ 28 DAYS, F'C=5,000 PSI @ 56 DAYS
  ALL COMPONENTS GREATER THAN 3 FEET IN THICKNESS, INCLUDING, BUT NOT LIMITED TO: ABUTMENT STEMS, PIER CAPS
- CLASS XX ¾" F'C=4,000 PSI
  FOOTINGS
- 4,000 PSI NEAT CEMENT GROUT
  MICRO-PILES
- CLASS A CONCRETE ¾" F'C=3,000 PSI
  PEDESTRIAN BRIDGE RAIL POSTS

CONCRETE NOTES:

1. CLASSES OF CONCRETE SHALL BE HIGH PERFORMANCE CLASS HP, CLASS MC AND CLASS XX, AS DESCRIBED THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE SPECIAL PROVISIONS OF THE SPECIFICATIONS. REFER TO THE "MATERIALS" NOTES FOR CLASSES OF CONCRETE SPECIFIED FOR VARIOUS COMPONENTS.
2. THE CONTRACTOR MAY, AT THE APPROVAL OF THE ENGINEER, PROPOSE THE USE OF SELF-CONSOLIDATING CONCRETE FOR ANY CLASS OF CONCRETE ON THIS PROJECT. SECTION 606 "SELF CONSOLIDATING CONCRETE (SCC)", CONTAINS THE REQUIREMENTS FOR MODIFYING ALL CLASSES OF CONCRETE MIX DESIGN FOR SELF-CONSOLIDATING APPLICATIONS. THE MAXIMUM WATER-CEMENT RATIO FOR SCC SHALL BE 0.40.
3. ALL PORTLAND CEMENT CONCRETE SHALL BE AIR-ENTRAINED.
4. ALL REINFORCING STEEL SHALL BE GALVANIZED. ALL WIRE TIES AND MISCELLANEOUS HARDWARE USED FOR PLACEMENT OF GALVANIZED REINFORCING SHALL ALSO BE GALVANIZED. GALVANIZED COATING FOR REINFORCING STEEL SHALL CONFORM TO ASTM A767 CLASS 1.
5. ALL LAP SPLICES NOT SHOWN ON THE PLANS SHALL BE LAPPED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR CLASS B LAP SPLICES.
6. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL MAIN REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM COVER:

	COVER
CONCRETE CAST AGAINST OR PERMANENTLY EXPOSED TO EARTH (FOOTINGS, ABUTMENT WALL FACES, AND BACKWALLS)	3"
ALL OTHER BARS	2"

   COVER TO TIES AND STIRRUPS MAY BE 0.5 INCH LESS THAN ABOVE VALUES SPECIFIED FOR MAIN REINFORCING, BUT IN NO CASE LESS THAN 1.5 INCHES.
7. UNLESS OTHERWISE NOTED ON THE PLANS, ALL ANCHOR BOLTS SHALL BE ASTM DESIGNATION F1554, GR 55, AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 232 OR METALIZED IN ACCORDANCE WITH SECTION M.05. SWEDGED RODS SHALL BE AASHTO DESIGNATION M 270 GRADE 36 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 232.
8. ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATES PRIOR TO PLACEMENT OF CONCRETE UNLESS OTHERWISE INDICATED ON THE PLANS OR AUTHORIZED BY THE ENGINEER.
9. HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON PLANS WILL NOT BE PERMITTED WITHOUT A WRITTEN REQUEST BY THE CONTRACTOR AND PRIOR AUTHORIZATION BY THE ENGINEER.
10. UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CONCRETE SURFACES VISIBLE IN ELEVATION TO ONE FOOT BELOW FINAL GROUND LINE, SHALL RECEIVE A CONCRETE SURFACE RUBBED FINISH IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS.
11. THE ENTIRE TOPSIDE SURFACES OF ABUTMENT BEAM SEATS, AS WELL AS VERTICAL FACES OF BACKWALLS SHALL BE PROVIDED WITH A FILM-FORMING SEALER (M12.03.1) CONCRETE SURFACE TREATMENT-PROTECTIVE COATING IN ACCORDANCE WITH SECTION 820 OF THE RI STANDARD SPECIFICATIONS.
12. ALL EXPOSED EDGES AND REENTRANT CORNERS NOT OTHERWISE DETAILED ON THE PLANS SHALL HAVE A MINIMUM ¾" CHAMFER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING CONCRETE STAINS OR DISCOLORATIONS DURING CONSTRUCTION UNTIL SUCH TIME AS THE SURFACES ARE APPROVED AND ACCEPTED BY THE ENGINEER. ANY CONCRETE STAINS OR DISCOLORATIONS OCCURRING PRIOR TO ACCEPTANCE OF THE SURFACES SHALL BE REMOVED BY THE CONTRACTOR.
14. ALL JOINT SEALANT SHALL BE POLYURETHANE, POLYURETHANE ELASTOMERIC, OR SILICONE SEALANT AS DESIGNATED ON THE PLANS. THE COLOR OF THE JOINT SEALANT, WHERE EXPOSED, SHALL BE NEUTRAL (LIGHT GRAY OR TAN). THE COLOR OF THE SEALANT, WHERE NOT EXPOSED, WILL BE AT THE DISCRETION OF THE CONTRACTOR.
15. UNLESS OTHERWISE NOTED ON THE PLANS, JOINT FILLER IS TO BE A PREFORMED, NON-EXPANSIVE, NON-EXTRUDING TYPE IN ACCORDANCE WITH SECTION M.02.11.1 OF THE RI STANDARD SPECIFICATIONS.
16. EMBEDMENT LENGTHS FOR DRILLED AND GROUTED DOWELS SHALL BE IN ACCORDANCE WITH SECTION 819 OF THE RI STANDARD SPECIFICATIONS, UNLESS OTHERWISE INDICATED ON THE PLANS.
17. IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS, ALL METAL TIES, NON-METALLIC TIES OR ANCHORAGES WHICH ARE REQUIRED FOR CONCRETE FORMWORK SHALL BE SO CONSTRUCTED THAT THEY CAN BE REMOVED TO AT LEAST TWO INCHES BELOW THE EXPOSED SURFACE OF THE CONCRETE WITHOUT CAUSING DAMAGE TO THE CONCRETE SURFACE. SNAP TIES MAY BE USED ONLY IF APPROVED BY THE ENGINEER. IF THE CONTRACTOR PROPOSES TO USE THEM, A CATALOG CUT AND OTHER NECESSARY INFORMATION MUST BE SUBMITTED TO THE ENGINEER TO DEMONSTRATE THAT THE TIES WILL SNAP-OFF FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR PROPER PATCHING. SNAP TIES MUST PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FORMS. ALL CAVITIES SHALL BE FILLED WITH AN APPROVED CEMENT MORTAR MEETING THE REQUIREMENTS OF ASTM C 928.
18. HAND-HELD VIBRATORS SHALL BE EQUIPPED WITH RUBBER TIPPED HEADS WHEN USED TO CONSOLIDATE CONCRETE AROUND REINFORCEMENT AND EMBEDMENTS.
19. WATER STOPS ARE REQUIRED FOR HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ABUTMENTS AND WALLS WHEN EXPOSED TO BACKFILL EARTH MATERIAL. WATER STOPS SHALL BE INSTALLED AT THE LOCATIONS DETAILED ON THE PLANS, AT THE LOCATIONS AS SPECIFIED ABOVE AND AT ALL LOCATIONS AS DIRECTED BY THE ENGINEER, ALL IN ACCORDANCE WITH SECTION 812 OF THE RI STANDARD SPECIFICATIONS.
20. UNLESS OTHERWISE DIMENSIONED ON THE PLANS, ALL REINFORCEMENT BENDS SHOWN ARE STANDARD HOOKS.
21. ALL EXPOSED FACES ABUTMENTS FROM THE BRIDGE SEATS TO THE GROUND SURFACE AND EXPOSED WALL SURFACES SHALL RECEIVE A CONCRETE SURFACE TREATMENT - PROTECTIVE SEALER THAT SHALL BE GRAY IN COLOR. A CLEAR, NON-SACRIFICIAL TYPE ANTI-GRAFFITI COATING THAT CONFORMS TO SECTION 842 SHALL BE APPLIED OVER THE FULLY CURED CONCRETE PROTECTIVE COATING.
22. ANY METALLIC ELEMENTS THAT ARE TO BE LEFT IN PLACE AND NOT STATED HEREIN SHALL BE GALVANIZED. THIS INCLUDES, BUT IS NOT LIMITED TO REINFORCING STEEL, WIRE MESH, SNAP TIES, METAL TIES, ANCHORAGES FOR FORM WORK, SUPPORTS FOR MASS CONCRETE COOLING PIPES, ETC.

REINFORCEMENT NOTE:

THE CONTRACTOR'S REINFORCING BAR FABRICATOR SHALL VERIFY THE CORRECTNESS IN PREPARING HIS ORDER LISTS AND BENDING DIAGRAMS. SHOP DRAWINGS FOR ALL REINFORCEMENT DETAILS AND SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER IN SUFFICIENT TIME TO PERMIT CAREFUL CHECKING.

EARLY RELEASE FOR CONSTRUCTION (ERC 1) APRIL 2023

RECEIVED 2/7/2024 CONSTRUCTION MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: . CHECKED BY: . DATE: SHEET: 4 OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

JOB SPECIFIC GENERAL NOTES 2

0188A_V2_004_JSBRGNOT002

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	5	38

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CODE 801.9901 PREFABRICATED MODULAR BRIDGE AND SECTION 824 OF THE RI STANDARD SPECIFICATIONS AS APPLICABLE.

TIMBER CONSTRUCTION NOTES

1. ALL TIMBER SHALL BE PRESSURE TREATED. WOOD SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA).
2. GROUP CONTACT POSTS SHALL BE TREATED WITH PRESERVATIVES TO THE REQUIREMENTS FOR GROUND CONTACT/FRESHWATER, GENERAL USE SERVICE CONDITIONS (UC4A) IN ACCORDANCE WITH AWPA STANDARD U1 OR ICC-ES EVALUATION REPORTS.
3. ALL BOLTS SHALL BE ASTM A307 OR AS ALTERNATE A3125, GRADE A325.
4. ALL BOLTED CONNECTIONS SHALL INCLUDE WASHERS AT BOLT HEADS AND NUTS.
5. LAG SCREWS SHALL BE LOW CARBON STEEL, ASTM A307 OR BETTER.
6. ALL BOLTS, WASHERS AND OTHER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.
7. TIMBER WHICH AT THE DISCRETION OF THE ENGINEER IS SEVERELY WARPED, BOWED, SPLIT, OR SPLINTERED SHALL NOT BE USED.
8. RAILS AND RAIL CAPS SHALL BE CONTINUOUS OVER 1 POST MINIMUM. BUTT JOINTS IN RAILS AND RAIL CAPS SHALL BE STAGGERED AS SHOWN ON SHEET 35 TYPICAL ELEVATION OF PEDESTRIAN BRIDGE RAIL.
9. ALL TIMBER RAILING COMPONENTS SHALL BE TREATED WITH PRESERVATIVES TO THE REQUIREMENTS FOR AN ABOVE GROUND, EXPOSE SERVICE CONDITION (UC3B) IN ACCORDANCE WITH AWPA STANDARD U1 OR ICC-ES EVALUATION REPORTS.
10. TREAT ALL CUT ENDS, HOLES, NOTCHES AND RECESSES WITH COPPER NAPHTHENATE PRESERVATIVE.
11. ALL TIMBER SIZES ARE NOMINAL DIMENSION LUMBER UNLESS OTHERWISE NOTED.
12. LUMBER SUPPLIED SHALL MEET THE REQUIREMENTS OF "SECTION 806 OF THE STANDARD SPECIFICATIONS" AND "THE 2018 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION". CONDITION AND TREAT STRUCTURAL TIMBER AND LUMBER IN ACCORDANCE WITH THE "2018 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".
13. GALVANIZED CARRIAGE BOLTS TO BE USED FOR ALL RAILING/POST CONNECTIONS.

DEMOLITION NOTES

1. DIMENSIONS ARE BASED ON ORIGINAL DESIGN DRAWINGS AND ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL ABUTMENTS SHALL REMAIN IN PLACE, SO AS NOT TO CAUSE ANY SHORELINE DISTURBANCES. ONCE THE ENVIRONMENTAL APPROVALS FOR CONSTRUCTION OF THE NEW BRIDGES HAS BEEN GRANTED, THE EXISTING ABUTMENTS MAY BE DEMOLISHED.
3. IF THE CONTRACTOR'S DEMOLITION OPERATIONS CAUSE ANY DAMAGE TO ACCESS ROUTES AND PROPERTIES OUTSIDE OF THE PROJECT WORK AREA, THE CONTRACTOR SHALL BE REQUIRED TO REPAIR THE AREA TO THE SATISFACTION OF THE ENGINEER.
4. ALL DEMOLITION MATERIALS SHALL BE CONTAINED, COLLECTED, AND LEGALLY DISPOSED. IF DEBRIS FALLS TO THE RIVER, THE CONTRACTOR SHALL IMMEDIATELY REMOVE THE DEBRIS FROM THE WATER.
5. TIMBER PILES SHALL BE REMOVED IN THEIR ENTIRETY. STEEL PILES, THE STONE PIER IN THE BARRINGTON RIVER, AND ANY TIMBER PILES THAT BREAK MUST BE TRIMMED A MINIMUM OF 2'-0" BELOW THE RIVERBED SUBSTRATE LINE.
6. ALL DEMOLITION MATERIALS SHALL BE TAKEN FROM THE SITE TO AN APPROVED DESTINATION AS THE WORK PROGRESSES.
7. THE CONTRACTOR IS NOTIFIED THAT THE EXISTING PAINT SYSTEM OF THE STEEL AND THE TIMBER MAY CONTAIN TOXIC SUBSTANCES, SUCH AS LEAD, CHROMIUM, OR CREOSTATE, WHICH MAY REQUIRE SPECIAL HANDLING AND MAY BE HAZARDOUS WASTE WHEN REMOVED. PROTECT PERSONS AND ENVIRONMENT DURING THE REMOVAL OF THE EXISTING STEEL, IN ACCORDANCE WITH SECTION 826 OF THE STANDARD SPECIFICATIONS.
8. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, IN WRITING, HIS PROPOSED METHOD OF DEMOLITION. DEMOLITION OPERATIONS SHALL NOT BEGIN UNTIL HIS METHOD HAS BEEN APPROVED BY THE ENGINEER. THIS SUBMISSION SHALL INCLUDE THE DEMOLITION PLANS, EQUIPMENT, SEQUENCE AND METHOD THE CONTRACTOR PROPOSED TO USE, IN DETAIL.

   THE DEMOLITION AND FALSEWORK SUBMITTALS MUST BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF RHODE ISLAND. THE FURNISHING OF DEMOLITION AND FALSEWORK SUBMITTALS AND PLANS SHALL NOT SERVE TO RELIEVE THE CONTRACTOR OF ANY PART OF HIS/HER RESPONSIBILITY FOR THE SAFETY OF THE WORK OR FOR THE SUCCESSFUL COMPLETION OF THE WORK.

EARLY RELEASE FOR CONSTRUCTION
(ERC 1)
APRIL 2023

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: .
CHECKED BY: .
DATE: .
SHEET: 5
OF: 38

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

JOB SPECIFIC GENERAL NOTES 3

0188A_V2_005_/SBRGNOT003

GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS:

1. DESIGN WIND PRESSURES FOR CONSTRUCTION:

   MINIMUM WIND PRESSURES TO BE USED BY THE CONTRACTOR FOR DESIGN DURING THE CONSTRUCTION CONTRACT (WITH THE EXCEPTION OF SIGNS) SHALL BE FROM THE FOLLOWING TABLE:

HEIGHT ABOVE GROUND	WIND PRESSURE (PSF)
UP TO 17'	33
OVER 17' AND UP TO 33'	37
OVER 33' AND UP TO 50'	41
OVER 50' AND UP TO 75'	44
OVER 75' AND UP TO 100'	47

   TABLE NOTES:

   A. APPLICATION OF THE TABULAR PRESSURE:

   - BRIDGE COMPONENTS DURING CONSTRUCTION, PRIOR TO THE INSTALLATION OF THE PERMANENT BRACING SYSTEMS, NOT INCLUDING CRANE LIFTING.
   - FALSE WORK, SHORING, AND SCAFFOLDING AS DEFINED IN FHWA GUIDE DESIGN SPECIFICATION FOR BRIDGE TEMPORARY WORKS, EXCLUDING 3-DIMENSIONAL LATTICED OR TRUSSED FRAMES OR TOWERS;
   - TEMPORARY SHIELDING.

   WIND PRESSURES FOR ALL OTHER STRUCTURES SHALL BE CALCULATED BASED ON ASCE DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION, SEI/ASCE 37-02 (ALL REFERENCES TO THE ASCE 7 IN THE SEI/ASCE 37-02 PUBLICATION, SHALL BE THE LATEST REVISION OF ASCE 7). THE EXPOSURE CATEGORY SHALL BE C.

   B. WHERE APPLICABLE HIGHER AMTRAK WIND REQUIREMENTS SHALL SUPERSEDE THESE REQUIREMENTS.

   C. FOR STRUCTURES SITUATED ABOVE LIVE INTERSTATE TRAFFIC, THE TABULAR VALUES SHALL BE INCREASED BY 5 PSF.

2. ERECTION OF BRIDGE COMPONENTS:

   FOR THE ERECTION OF STRUCTURES, THE FOLLOWING SHALL APPLY:

   - THE CONTRACTOR SHALL SUBMIT AN ERECTION PLAN THAT PROVIDES COMPLETE DETAILS OF THE PROCESS INCLUDING, BUT NOT LIMITED TO, TEMPORARY SUPPORTS, SCHEDULING AND OPERATION SEQUENCING, CRANE PLACEMENT, AND ASSUMED LOADS AND CALCULATED STRESSES DURING VARYING STAGES OF LIFTING. THIS APPLIES TO STRUCTURES OF ANY KIND. THE CAPACITY OF THE CRANE AND ALL LIFTING AND CONNECTING DEVICES SHALL BE ADEQUATE FOR 125 PERCENT (150 PERCENT OVER AMTRAK) OF THE TOTAL PICK LOAD INCLUDING SPREADERS, RIGGING, HOOKS, AND ALL OTHER MATERIALS. THIS FACTOR OF SAFETY SHALL BE IN ADDITION TO ALL MANUFACTURERS' PUBLISHED FACTORS OF SAFETY.
   - A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF RHODE ISLAND, WILL BE REQUIRED TO STAMP THE CONTRACTOR'S ERECTION PLAN.
   - THE CONTRACTOR'S PROFESSIONAL ENGINEER WILL BE REQUIRED TO INSPECT AND PROVIDE WRITTEN APPROVAL OF INSTALLATION, PRIOR TO ALLOWING VEHICLES OR PEDESTRIANS ON OR BELOW THE STRUCTURE. THE PROFESSIONAL ENGINEER MUST ALSO STAMP ALL CHANGES TO THE CONTRACTOR'S ERECTION PLAN. ADDITIONALLY, ALL PROPOSED CHANGES MUST BE SUBMITTED TO RIDOT FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
   - A MANDATORY PRE-ERECTION CONFERENCE WILL BE HELD AT LEAST TWO WEEKS PRIOR TO THE START OF THE GIRDER INSTALLATION TO DISCUSS THE PLAN AND PROCEDURES, WORK SCHEDULES, CONTINGENCY PLANS, SAFETY REQUIREMENTS AND TRAFFIC CONTROL. THE CONTRACTOR'S PROFESSIONAL ENGINEER AND ERECTION SUBCONTRACTOR WILL BE REQUIRED TO ATTEND THIS MEETING, AS WILL THE RIDOT RESIDENT ENGINEER, THE DESIGN PROJECT ENGINEER AND THE DESIGN CONSULTANT. BASED UPON DISCUSSIONS AT THIS MEETING AND A REVIEW OF THE CONTRACTOR'S ERECTION PLAN, RIDOT MAY ORDER THE CONTRACTOR TO MODIFY AND RESUBMIT THE ERECTION PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
   - THE CONTRACTOR WILL BE REQUIRED TO PERFORM DAILY INSPECTIONS OF THE ERECTED GIRDERS UNTIL THE BRIDGE DECK IS COMPLETELY POURED.

CONSTRUCTION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION, CONSTRUCTION, OPERATION AND SAFETY OF ALL EQUIPMENT AND PROCEDURES.
2. THE CONTRACTOR SHALL SUBMIT WORKING DOCUMENTS SHOWING PROPOSED METHODS OF LIFTING, SEQUENCING OF LIFTING, LOCATION OF CRANES, CRANE CAPACITIES, LOCATION OF THE LIFTING POINTS ON THE BRIDGE COMPONENTS, WEIGHTS OF THE COMPONENTS, LIFTING DEVICES AND LOAD DISTRIBUTION DEVICE DETAIL. THE METHOD AND ALL SUBMISSIONS SHALL BE PREPARED AND STAMPED BY A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
3. COORDINATE ALL CONSTRUCTION ACTIVITIES WITHIN THE WORKING AREA WITH RIDOT REGARDING UTILITIES, PROTECTION OF TRAFFIC AND SCHEDULE.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE TO EXISTING STRUCTURES. ALL STRUCTURES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
5. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER IN SUFFICIENT TIME TO PERMIT CAREFUL CHECKING AS NOT TO DELAY THE PROJECT.
6. ALL RIGGING IS TO BE IN EXCELLENT WORKING CONDITION.
7. UNLOADED CRANES ARE ALLOWED TO TRAVEL IN THE WORKING AREA.
8. CRANE DELIVERY LOCATIONS MAY VARY AS LONG AS MAXIMUM CRANE RADIUS IS NOT EXCEEDED.
9. TEMPORARY EXCAVATION SUPPORT SYSTEM SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY EXCAVATION.
10. CONTRACTOR SHALL SECURE ALL WORK AREAS AT ALL TIMES TO PREVENT UNAUTHORIZED ACCESS.
11. STOCKPILED SOIL SHALL BE NOT CLOSER THAN 30 FEET FROM PIERS, WALLS AND ABUTMENTS.

UTILITY NOTES:

1. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE LOCATED USING THE BEST AVAILABLE INFORMATION. NO BUILDING SERVICE CONNECTIONS (ELECTRIC, TELEPHONE, GAS, WATER, SANITARY AND OTHERS) ARE SHOWN. THE CONTRACTOR IS TO ASSUME THAT SERVICES TO ALL BUILDINGS ARE PRESENT.
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 OR PERSONNEL SHALL FOLLOW OSHA REGULATION IN REGARDS TO MINIMUM CLEARANCE TO ENERGIZED OVERHEAD LINES.
4. 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 METHOD 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 STAKING OF 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.

TEMPORARY CONSTRUCTION STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO THE LATEST PROVISIONS OF THE ASTM DESIGNATION A 709 GRADE 36 OR AS DESIGNATED ON THE PLANS.
2. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM DESIGNATION A F3125 GRADE A325. THE CONTRACTOR SHALL REFER TO SECTION 824 "CONNECTIONS USING HIGH STRENGTH BOLTS" OF THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1997) FOR MATERIAL AND INSTALLATION REQUIREMENTS. ALL HIGH STRENGTH BOLTS SHALL BE 7/8" DIAMETER ON 15/16" DIAMETER HOLES UNLESS OTHERWISE NOTED.
3. WASHERS MEETING ASTM DESIGNATION F 436 ARE TO BE USED OVER ALL HOLES THAT ARE MORE THAN 1/16" IN DIAMETER GREATER THAN THE BOLT DIAMETER AND UNDER ALL PARTS TURNED DURING ASSEMBLY.
4. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE ANSI/AASHTO/AWS D1.5-2015 (INCLUDING ALL INTERIMS TO DATE) AND APPLICABLE SUPPLEMENTAL AWS PUBLICATIONS. ALL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE NOTED.
5. WELDING ELECTRODES SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BASE METAL.
6. NO SHOP FILLET WELD SHALL BE LESS THAN 3/16", UNLESS OTHERWISE SPECIFIED.
7. PRIOR TO FABRICATION, ALL MATERIALS SHALL BE BLAST-CLEANED TO AT LEAST SSPC-SP6 TO REMOVE ALL OIL, DIRT, GREASE, MILL SCALE AND OTHER DELETERIOUS MATERIALS FROM THE SURFACES OF THE STEEL TO BE FABRICATED.
8. WHEN STEEL DIE STAMPS ARE USED TO IDENTIFY PIECES AND MEMBERS, FABRICATORS SHALL UTILIZE LOW STRESS STAMPS.

DESIGN TIDAL INFORMATION

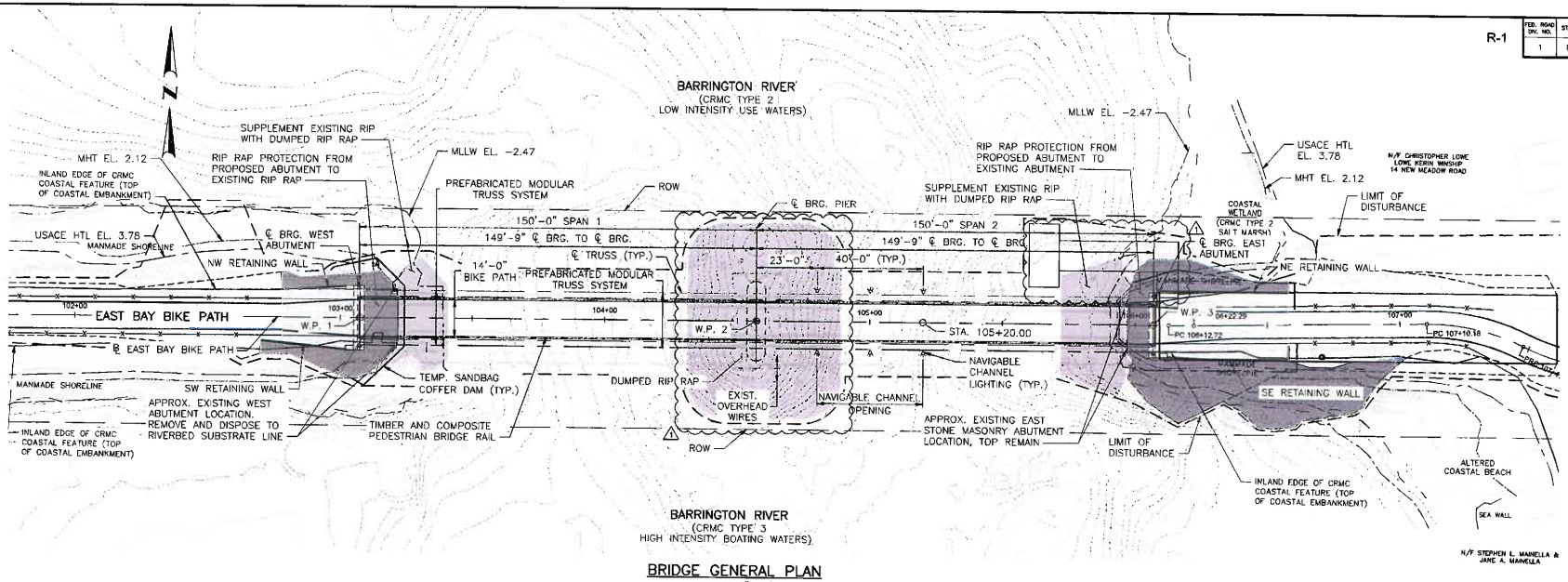
UNITED STATES ARMY CORPS ENGINEERS HIGH TIDE LINE (USACE HTL)	=	EL. 3.78
MEAN HIGH WATER (MHW)	=	EL. 2.12
MEAN LOW WATER (MLW)	=	EL. -1.90
MEAN LOW LOW WATER (MLLW)	=	EL. -2.47
100 YEAR FLOOD (BARRINGTON RIVER)	=	EL. 9.70
100 YEAR FLOOD (PALMER RIVER)	=	EL. 8.20

THE CONTRACTOR SHALL NOTE THAT HIGHER AND LOWER TIDES ARE POSSIBLE.

EARLY RELEASE FOR CONSTRUCTION (ERC 1) APRIL 2023

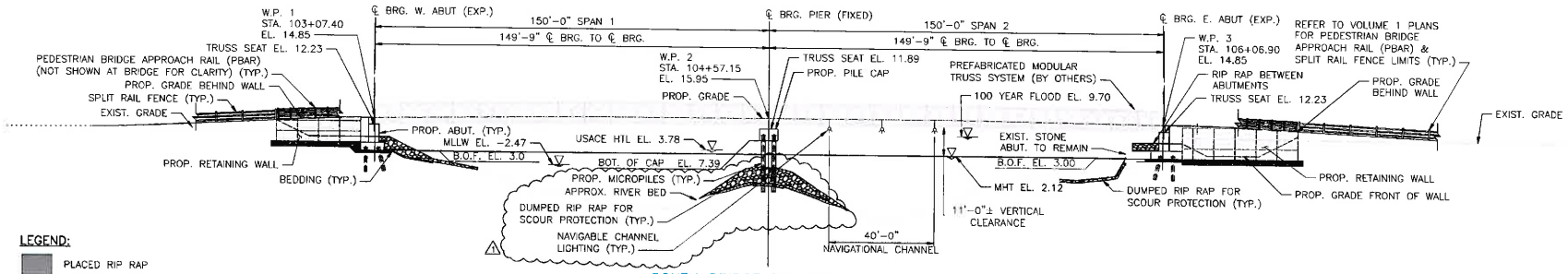
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	7	38

R-1



BRIDGE GENERAL PLAN

SCALE: 1"=20'



SOUTH BRIDGE ELEVATION

(LOOKING NORTH)

SCALE: 1"=20'

LEGEND:

- PLACED RIP RAP
- DUMPED RIP RAP

WORKING POINTS			
WORKING POINT	STATION	NORTHING	EASTING
W.P. 1	103+07.40	238481.4311	383709.3991
W.P. 2	104+57.15	238483.3985	383859.1362
W.P. 3	106+06.90	238485.3659	384008.8732

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AECOM Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 7
OF: 38

SCALE:

REVISIONS				REVISIONS		
NO.	DATE	BY		NO.	DATE	BY
A	2/1/24	VHB				

EAST BAY BIKE PATH BRIDGE REPLACEMENT
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ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 GENERAL PLAN

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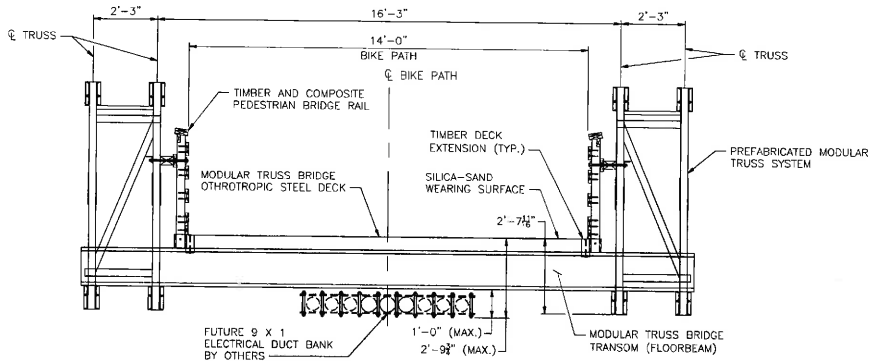
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	8	38

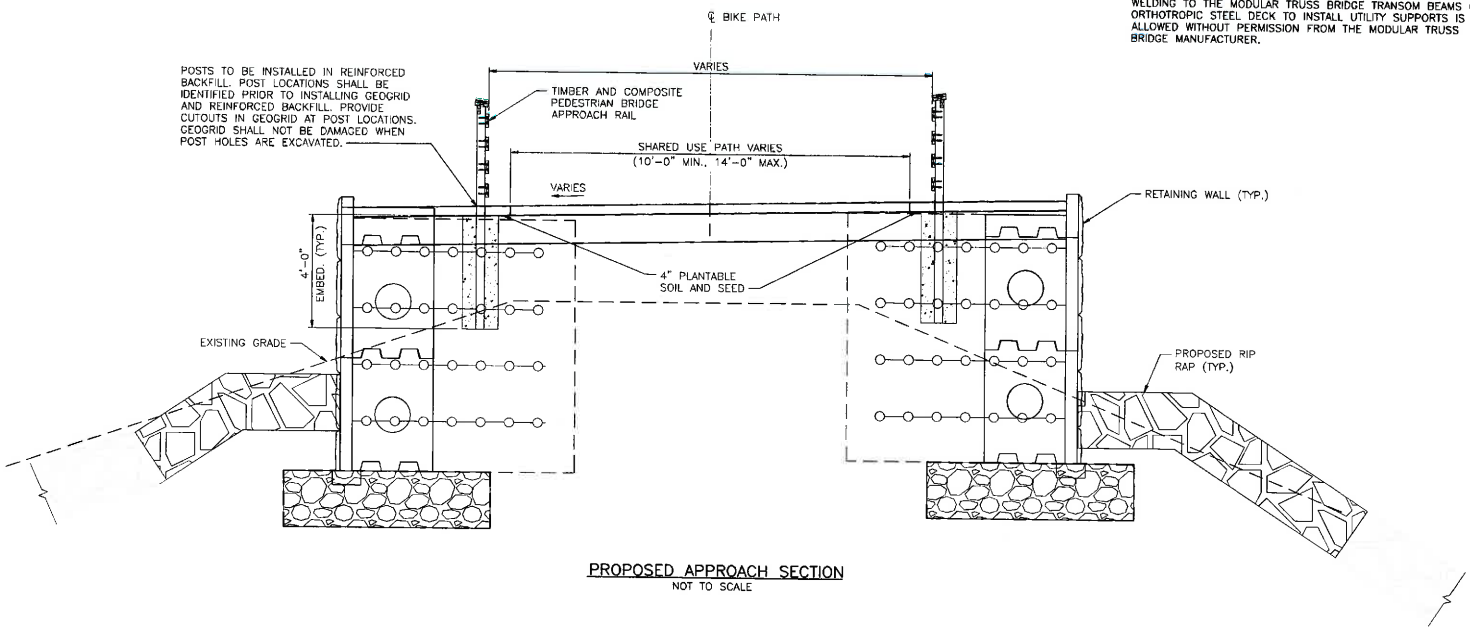


TYPICAL TRUSS SECTION

NOT TO SCALE

NOTES:

1. FUTURE DUCT BANK AND SUPPORTS BY OTHERS. DRILLING AND WELDING TO THE MODULAR TRUSS BRIDGE TRANSOM BEAMS OR ORTHOTROPIC STEEL DECK TO INSTALL UTILITY SUPPORTS IS NOT ALLOWED WITHOUT PERMISSION FROM THE MODULAR TRUSS BRIDGE MANUFACTURER.



PROPOSED APPROACH SECTION

NOT TO SCALE

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 8
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

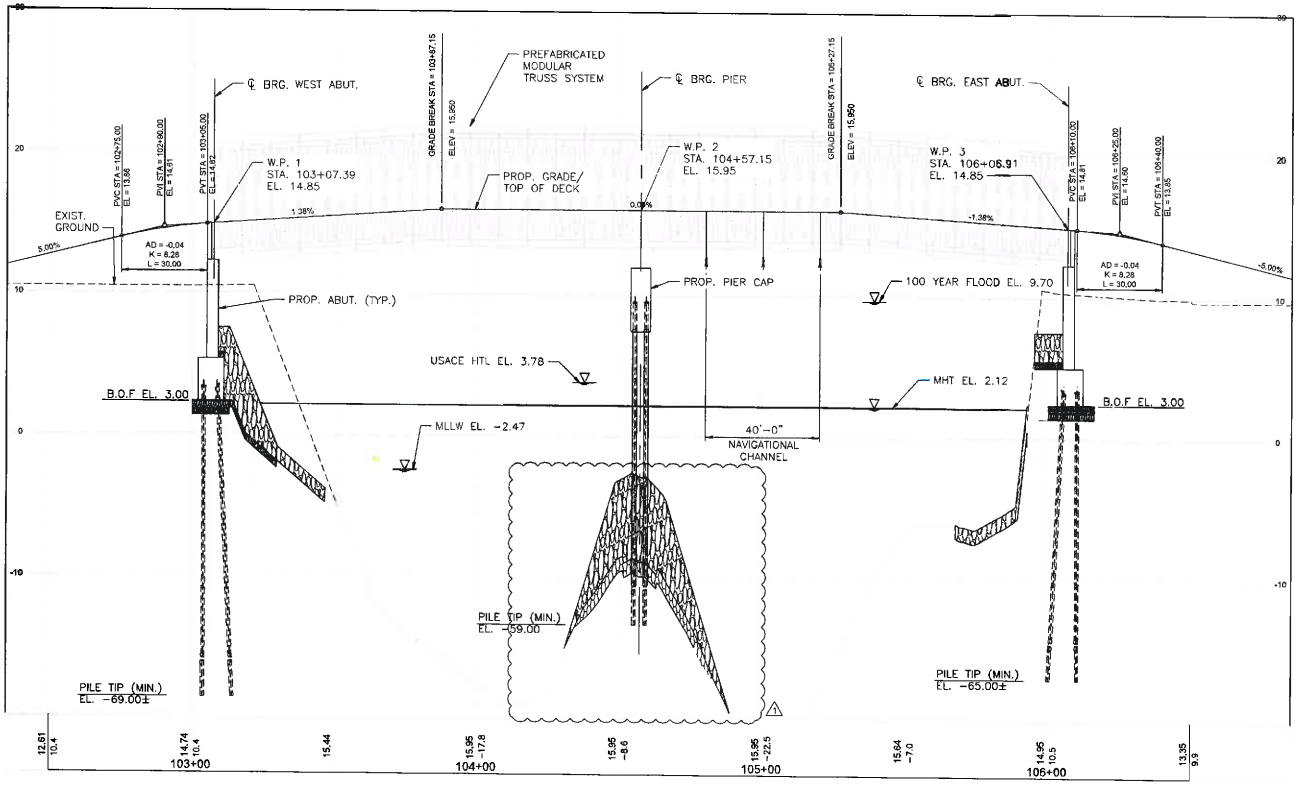
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 BRIDGE TYPICAL SECTION

0168A_V2_008_BTYPICAL_083751

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	9	38



℄ BARRINGTON PROFILE

SCALE HORIZONTAL: 1"=20'
SCALE VERTICAL: 1"=4'

NOTE:
REFER TO HIGHWAY PLANS FOR ADDITIONAL INFORMATION.

RECEIVED 2/7/2024 CAMBELL BRIDGE-CON MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY: .
CHECKED BY: .
DATE:
SHEET: 9
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

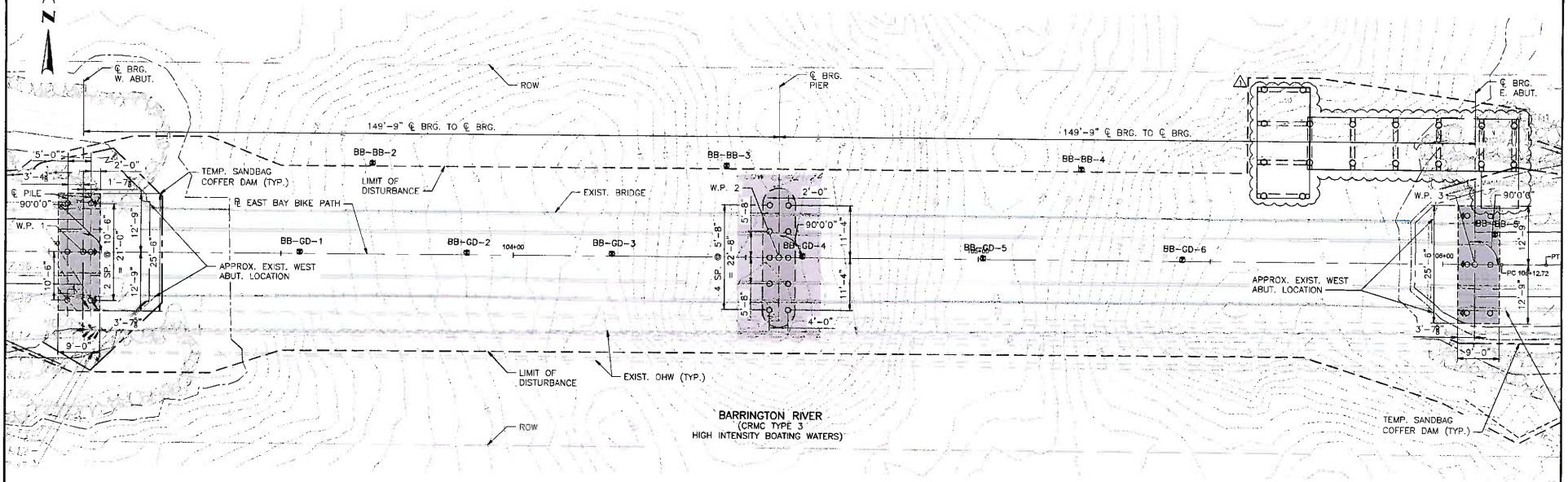
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 PROFILE

0188A_V2_009_BPROFILE_083751

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	10	38



FOUNDATION PLAN

SCALE: 1"=10'

LEGEND

- PROPOSED FOUNDATION
- PIER CAP
- PROPOSED DRILLED MICROPILE (9.625" DIA.) (BATTERED 4:12)
- PROPOSED DRILLED MICROPILE (9.625" DIA. AT ABUTMENT, 14" DIA. AT PIER) (VERTICAL)
- PROPOSED DRILLED STEEL PIPE PILE AT FISHING PIER △1

EARLY RELEASE FOR CONSTRUCTION (ERC 2) JUNE 2023

RECEIVED 2/7/2024 COMMERCIAL BUSINESS MANAGEMENT CO. INC.

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY: CHECKED BY: DATE: SHEET: 10 OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
△1	2/1/24	VHB			

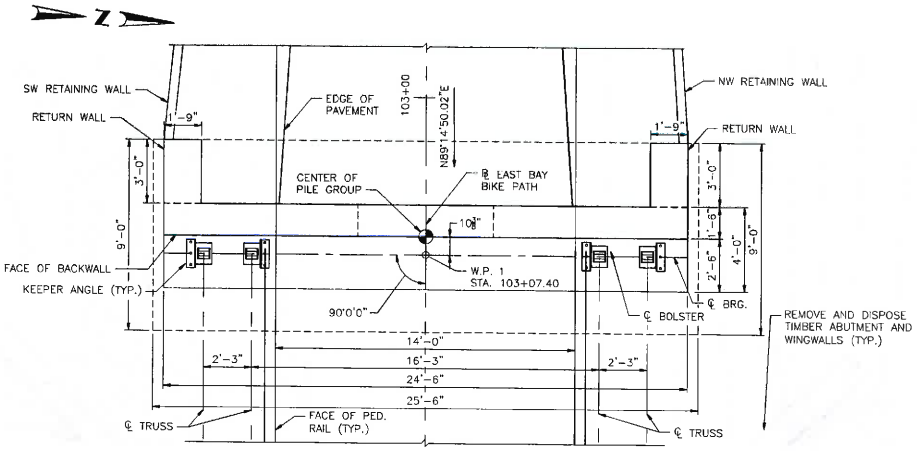
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING

BARRINGTON/WARREN RHODE ISLAND

BR. 083751 FOUNDATION PLAN

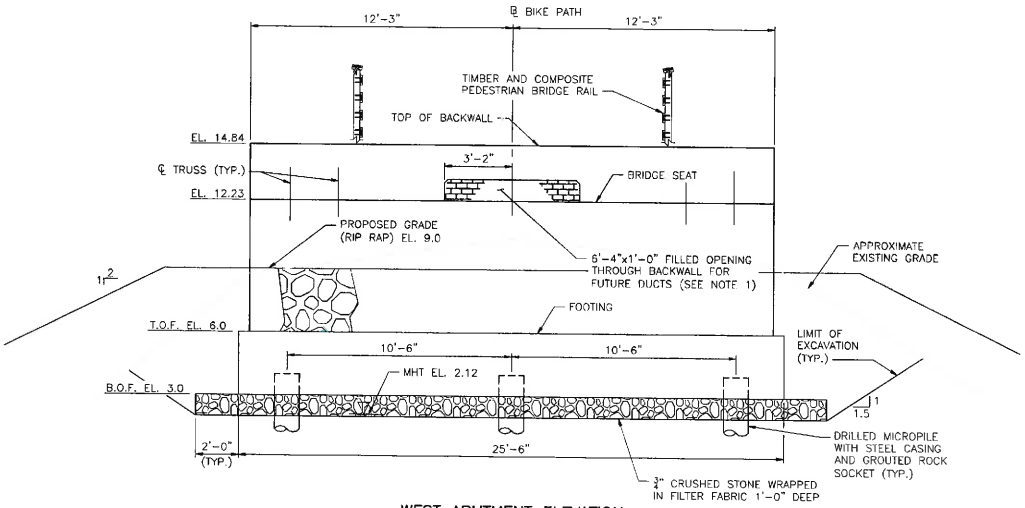
0188A_V2_010_FOUNDATION_083751

FED. RDWY. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	11	38



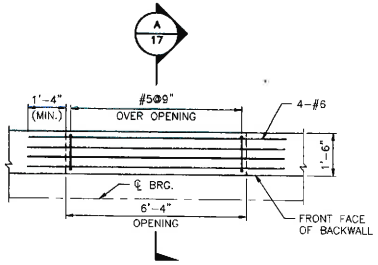
WEST ABUTMENT PLAN

SCALE: 3/8"=1'-0"



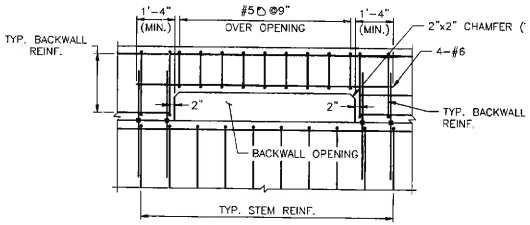
WEST ABUTMENT ELEVATION

SCALE: 3/8"=1'-0"



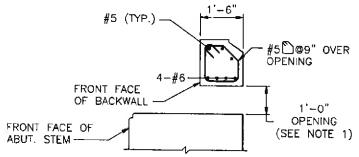
BACKWALL OPENING – PLAN

SCALE: 1/2"=1'-0"



BACKWALL OPENING – ELEVATION

SCALE: 1/2"=1'-0"



SECTION A/17

SCALE: 1/2"=1'-0"

NOTE:

1. FILL FUTURE DUCT OPENING WITH CLAY BUILDING BRICK (M.04.03.1) AND MORTAR (M.04.03.5) FOR FULL THICKNESS OF BACKWALL.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: -
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DATE:
SHEET: 11
OF: 38

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

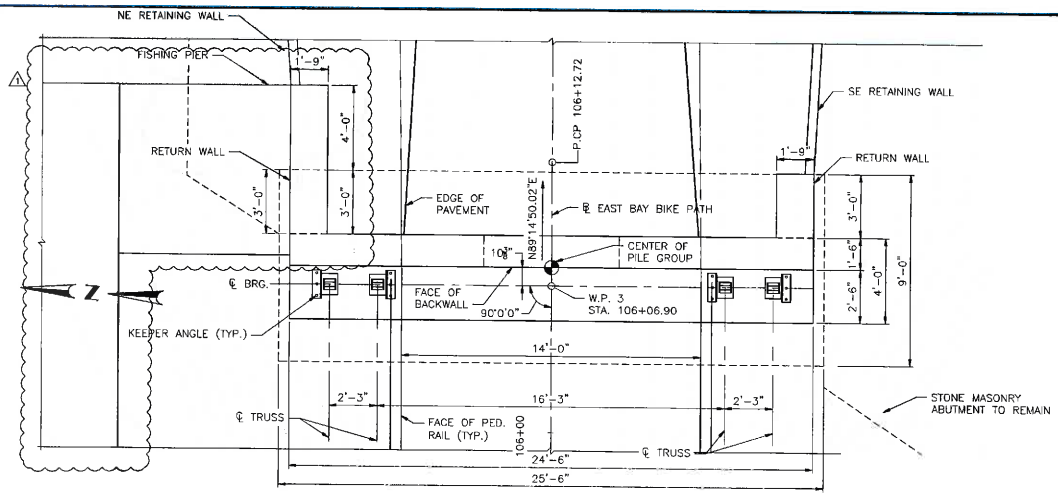
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 WEST ABUTMENT PLAN AND ELEVATION

0188A_V2_011_WABUT_083751

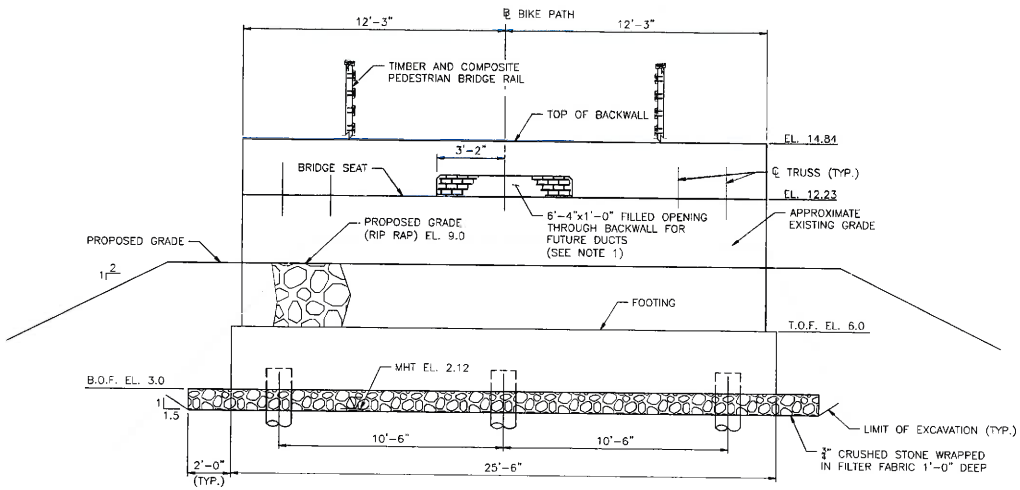
R-1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	12	38



EAST ABUTMENT PLAN

SCALE: 3/8"=1'-0"



EAST ABUTMENT ELEVATION

SCALE: 3/8"=1'-0"

NOTE:

1. FILL FUTURE DUCT OPENING WITH CLAY BUILDING BRICK (M.04.03.1) AND MORTAR (M.04.03.5) FOR FULL THICKNESS OF BACKWALL.
2. SEE BR. 083751 WEST ABUTMENT PLAN AND ELEVATION FOR BACKWALL OPENING DETAILS.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA The Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY: -
CHECKED BY: -
DATE: -
SHEET: 12
OF: 38

SCALE:

REVISIONS NO.	DATE	BY
1	2/1/24	VHB

REVISIONS NO.	DATE	BY

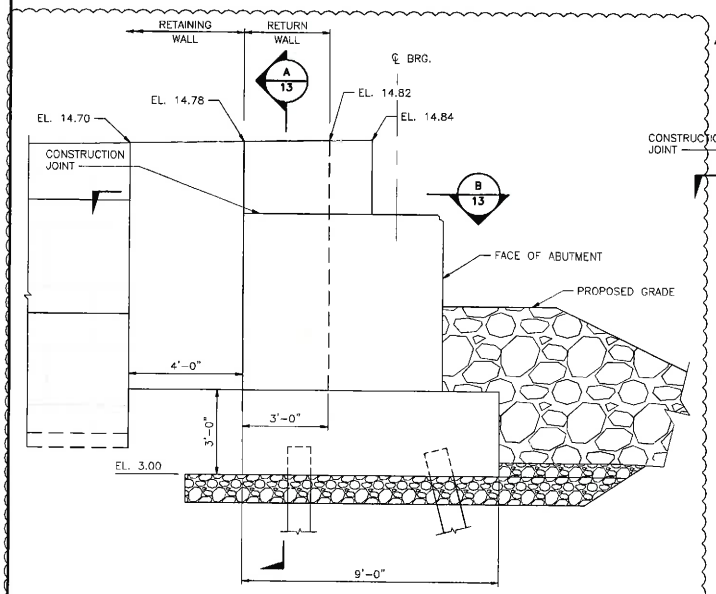
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 EAST ABUTMENT PLAN AND ELEVATION

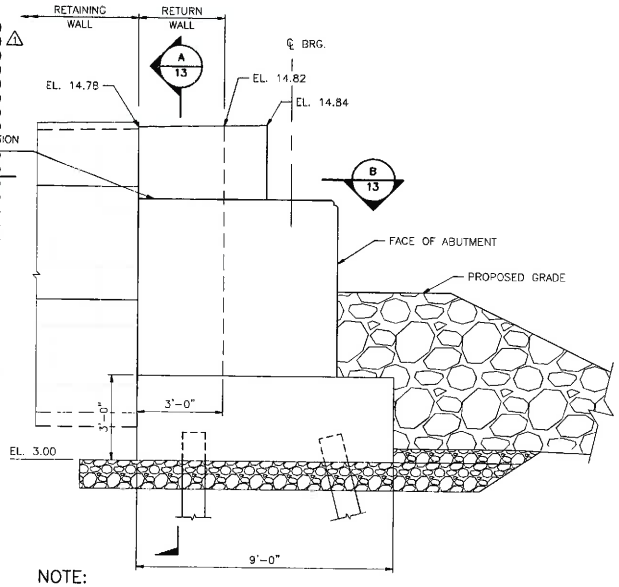
0188A_V2_012_EABUT_083751

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	13	38

R-1

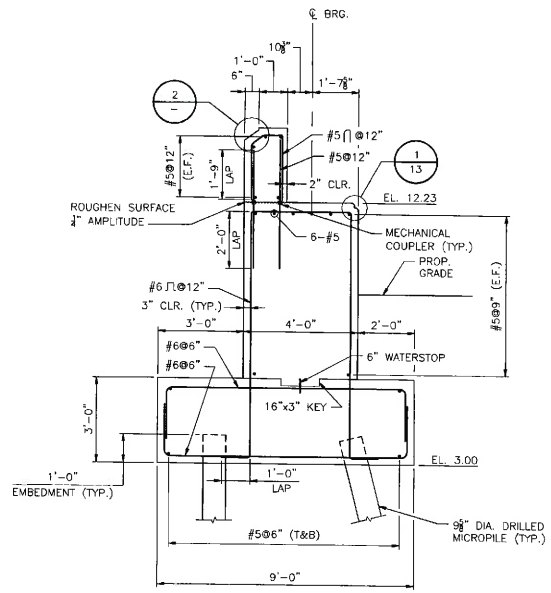


NORTHEAST RETURN WALL ELEVATION
SCALE: 1/2"=1'-0"

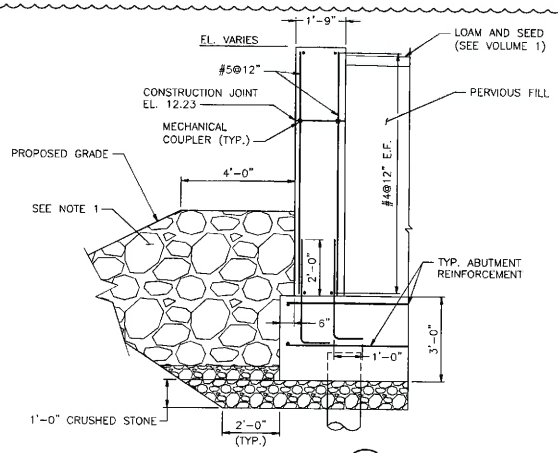


NOTE:
WEST RETURN WALL SHOWN, EAST RETURN WALL SIMILAR.

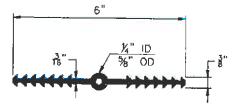
TYPICAL RETURN WALL ELEVATION
SCALE: 1/2"=1'-0"



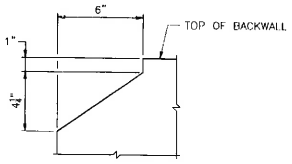
TYPICAL ABUTMENT SECTION
SCALE: 1/2"=1'-0"



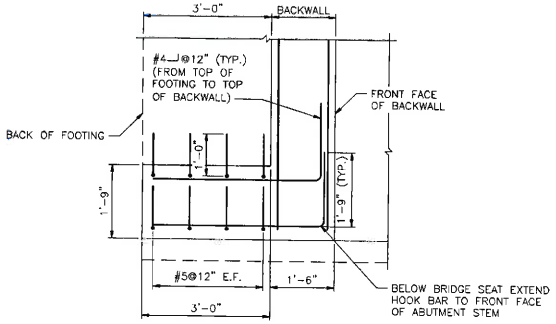
SECTION A/13
SCALE: 1/2"=1'-0"



6" WATER STOP DETAIL
SCALE: 6"= 1'-0"



DETAIL 2/–
SCALE: 3"=1'-0"



SECTION B/13
SCALE: 3/4"=1'-0"

NOTE:
1. SEE Br. 083751 & 083851 RIP RAP DETAILS 1

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY: . CHECKED BY: . DATE: SHEET: 13 OF: 38

SCALE:

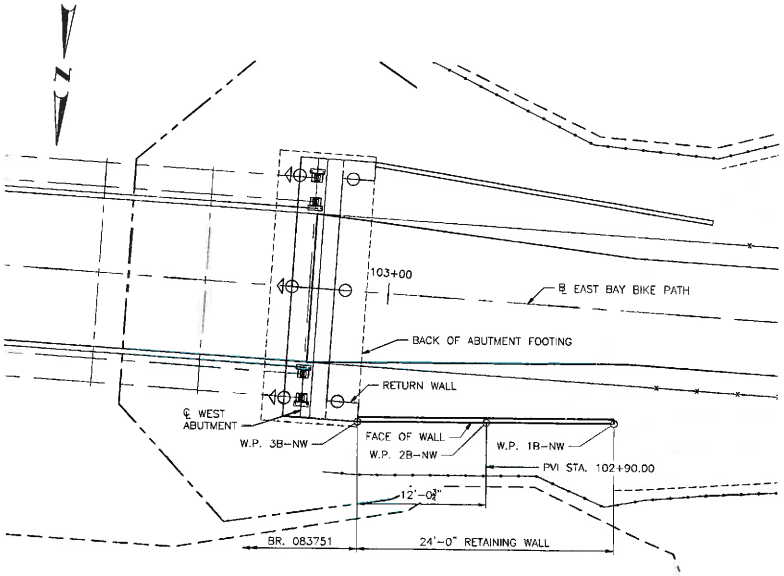
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 ABUTMENT DETAILS

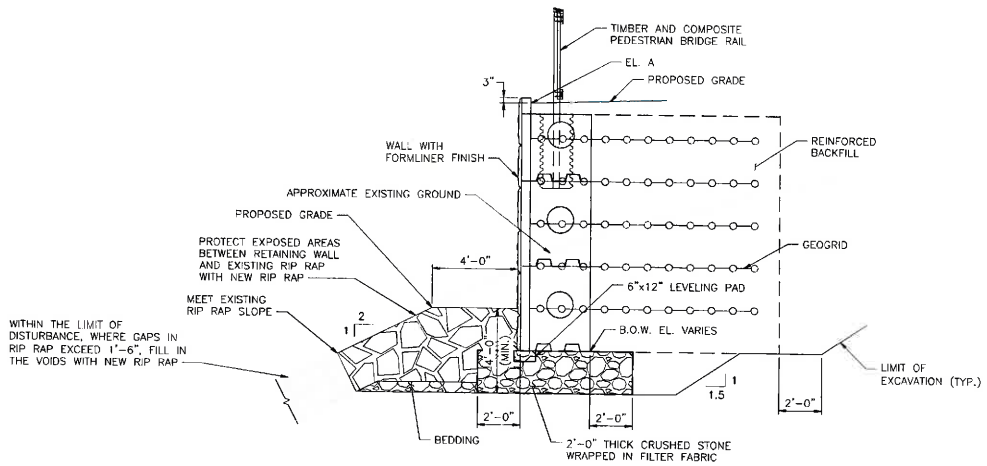
D:\BBA_V2_013_083751_ABUTDETL

FED. RDWY. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2022	14	38



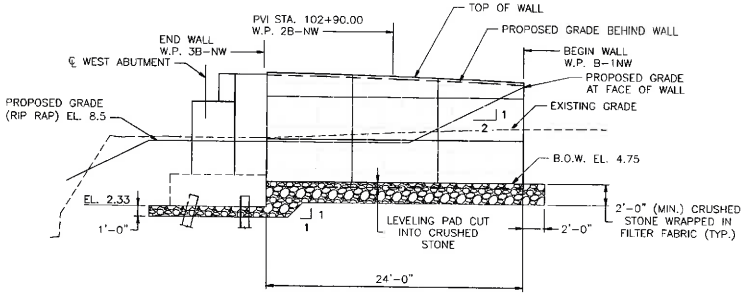
NORTHWEST RETAINING WALL PLAN

SCALE: 3/16"=1'–0"



TYPICAL RETAINING WALL SECTION

SCALE: 3/8"=1'–0"



NORTHWEST RETAINING WALL ELEVATION

SCALE: 3/16"=1'–0"

NORTHWEST RETAINING WALL					
WORKING POINT	STATION	OFFSET	NORTHING	EASTING	EL. A*
W.P. 1B–NW	102+78.09	–10.69	238491.7362	383679.9507	14.02
W.P. 2B–NW	102+90.00	–11.47	238492.6676	383691.8458	14.50
W.P. 3B–NW	103+02.04	–12.25	238493.6093	383703.8737	14.77

* ELEVATION IS GIVEN AT PROPOSED GRADE BEHIND WALL. SEE TYPICAL RETAINING WALL SECTION THIS SHEET.

NOTES:

1. REFER TO HIGHWAY PLANS FOR COMPLETE GEOMETRY AND CURVE DATA FOR BIKE PATH.
2. PANEL SLIP JOINTS ARE NOT SHOWN. SLIP JOINT LOCATION AND QUANTITY SHALL BE DETERMINED BY THE WALL MANUFACTURER.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: CHECKED BY: DATE: SHEET: 14 OF: 38

SCALE:

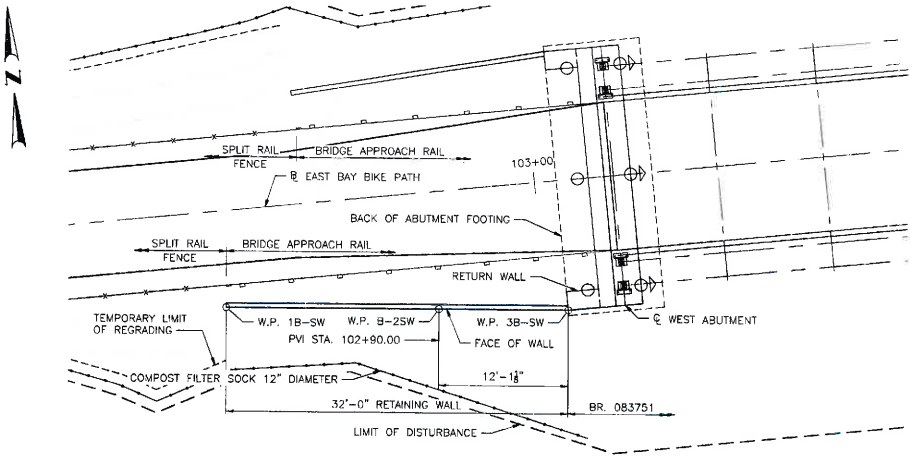
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 RETAINING WALL PLAN 1

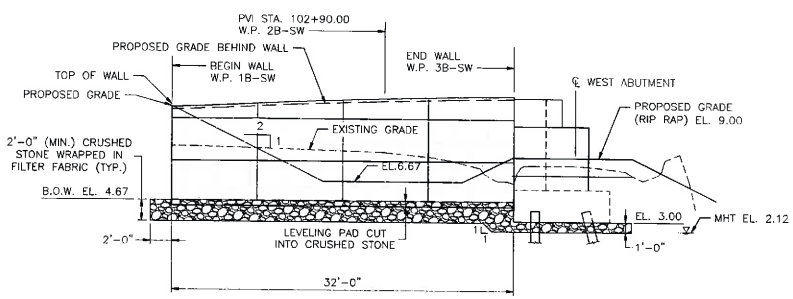
0188A_V2_014_RETWALL01_083751

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	15	38



SOUTHWEST RETAINING WALL PLAN

SCALE: 3/16"=1'-0"



SOUTHWEST RETAINING WALL ELEVATION

SCALE: 3/16"=1'-0"

SOUTHWEST RETAINING WALL					
WORKING POINT	STATION	OFFSET	NORTHING	EASTING	EL. A*
W.P. 1B-SW	102+70.19	9.09	238471.8537	383672.3115	13.65
W.P. 2B-SW	102+90.00	11.06	238470.1482	383692.1417	14.51
W.P. 3B-SW	103+02.04	12.25	238469.1114	383704.1960	14.77

* ELEVATION IS GIVEN AT PROPOSED GRADE BEHIND WALL. SEE TYPICAL RETAINING WALL SECTION.

NOTES:

1. SEE BR. 083751 RETAINING WALL 1 SHEET FOR TYPICAL RETAINING WALL SECTION AND NOTES.

RECEIVED 2/7/2024 COMMERCE ENVIRONMENT MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: .
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DATE: .
SHEET: 15
OF: 38

SCALE:

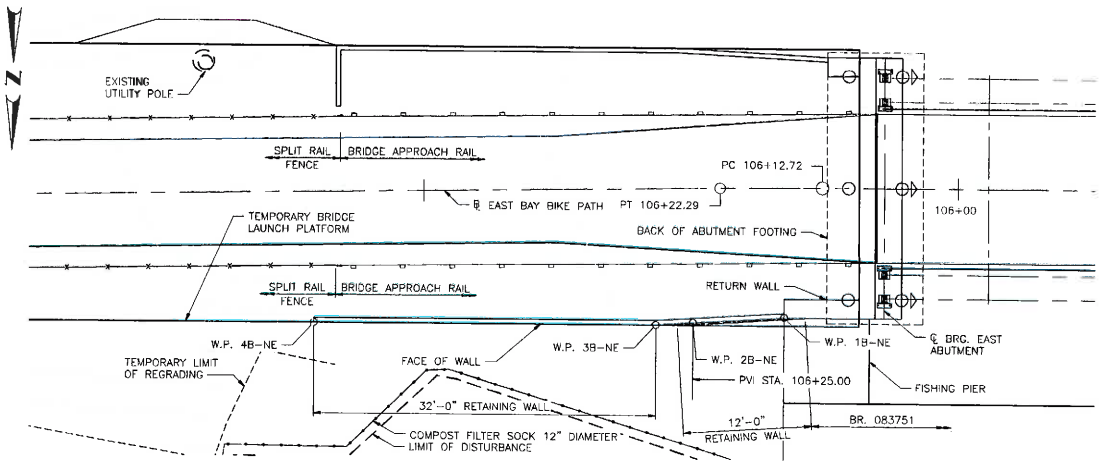
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 RETAINING WALL PLAN 2

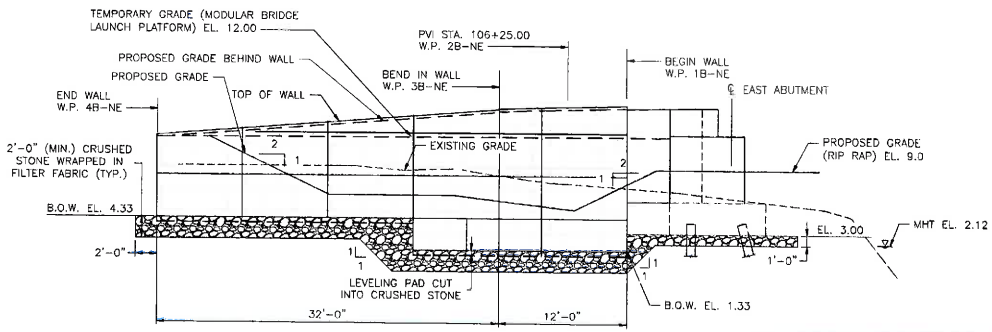
0188A_V2_015_RETWALL02_083751

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	16	38



NORTHEAST RETAINING WALL PLAN

SCALE: 3/16"=1'-0"



NORTHEAST RETAINING WALL ELEVATION – DEVELOPED

SCALE: 3/16"=1'-0"

NORTHEAST RETAINING WALL					
WORKING POINT	STATION	OFFSET	NORTHING	EASTING	EL. A*
W.P. 1B-NE	106+14.30	-12.25	238497.7121	384016.0762	14.73
W.P. 2B-NE	106+25.00	-12.79	238498.5068	384026.5960	14.45
W.P. 3B-NE	106+26.45	-12.86	238498.6160	384028.0418	14.40
W.P. 4B-NE	106+58.45	-12.35	238499.0365	384060.0403	11.62

* ELEVATION IS GIVEN AT PROPOSED GRADE BEHIND WALL. SEE TYPICAL RETAINING WALL SECTION.

NOTES:

1. SEE BR. 083751 RETAINING WALL 1 SHEET FOR TYPICAL RETAINING WALL SECTION AND NOTES.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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DATE:
SHEET: 16
OF: 38

SCALE:

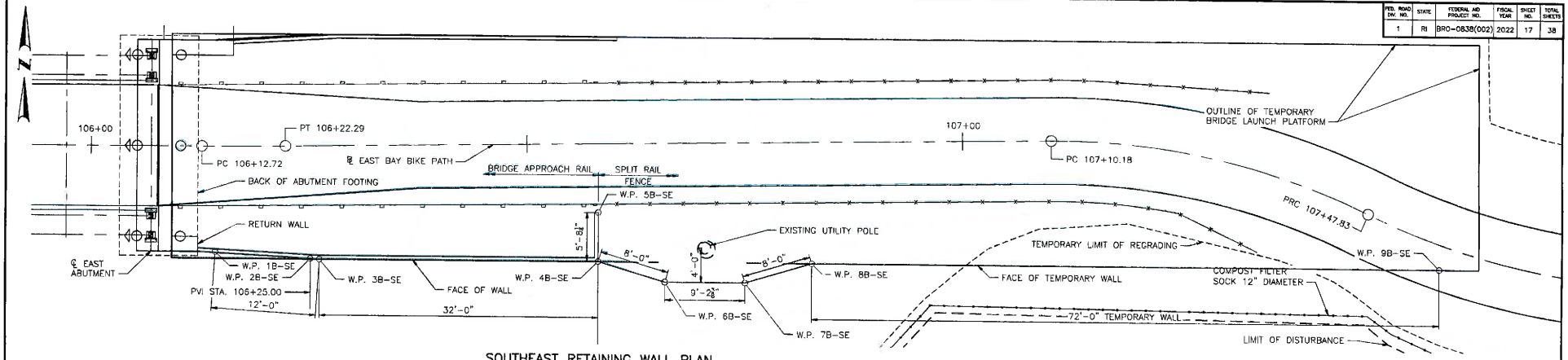
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 RETAINING WALL PLAN 3

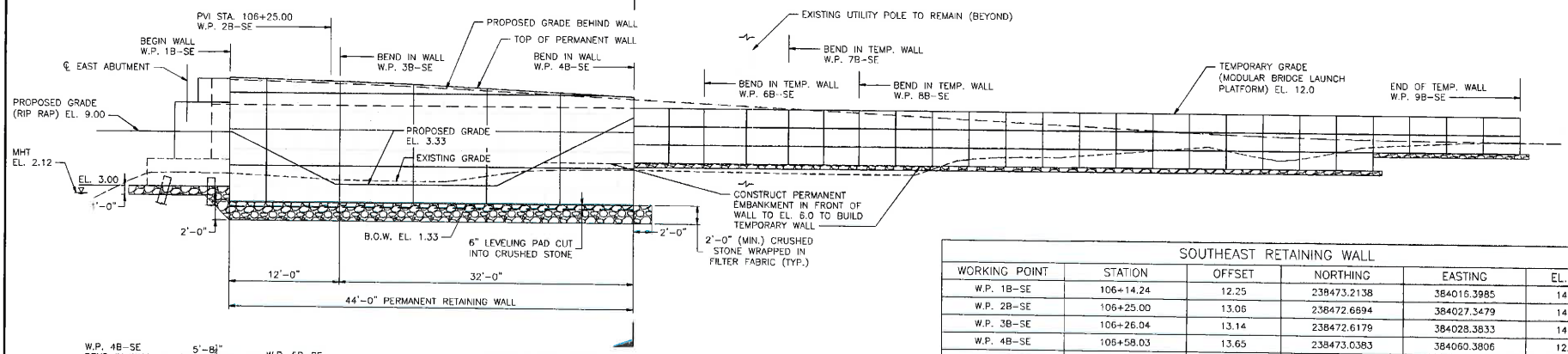
0188A_V2_016_RETWALL03_083751

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	17	38



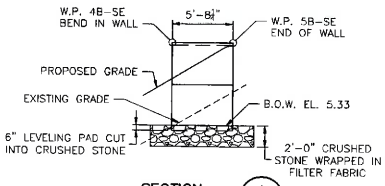
SOUTHEAST RETAINING WALL PLAN

SCALE: 3/16"=1'-0"



SOUTHEAST RETAINING WALL ELEVATION

SCALE: 3/16"=1'-0"



SECTION A

SCALE: 3/16"=1'-0"

SOUTHEAST RETAINING WALL					
WORKING POINT	STATION	OFFSET	NORTHING	EASTING	EL. A*
W.P. 1B-SE	106+14.24	12.25	238473.2138	384016.3985	14.73
W.P. 2B-SE	106+25.00	13.06	238472.6894	384027.3479	14.43
W.P. 3B-SE	106+26.04	13.14	238472.6179	384028.3833	14.40
W.P. 4B-SE	106+58.03	13.65	238473.0383	384060.3806	12.94
W.P. 5B-SE	106+58.12	7.96	238478.7268	384060.3058	12.94
W.P. 6B-SE	106+65.65	16.08	238470.8290	384068.0694	12.00**
W.P. 7B-SE	106+74.85	16.23	238470.9500	384077.2620	12.00**
W.P. 8B-SE	106+82.54	14.04	238473.3619	384084.8929	12.00**
W.P. 9B-SE	107+57.66	2.75	238474.3079	384156.8867	12.00**

* ELEVATION IS TAKEN AT TOP OF PROPOSED GRADE BEHIND WALL. SEE TYPICAL RETAINING WALL SECTION.
** THIS GRADE IS TEMPORARY FOR THE LAUNCHING PLATFORM.

NOTES:

1. SEE BR. 083751 RETAINING WALL 1 SHEET FOR TYPICAL RETAINING WALL SECTION AND NOTES.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 17
OF: 38

SCALE:

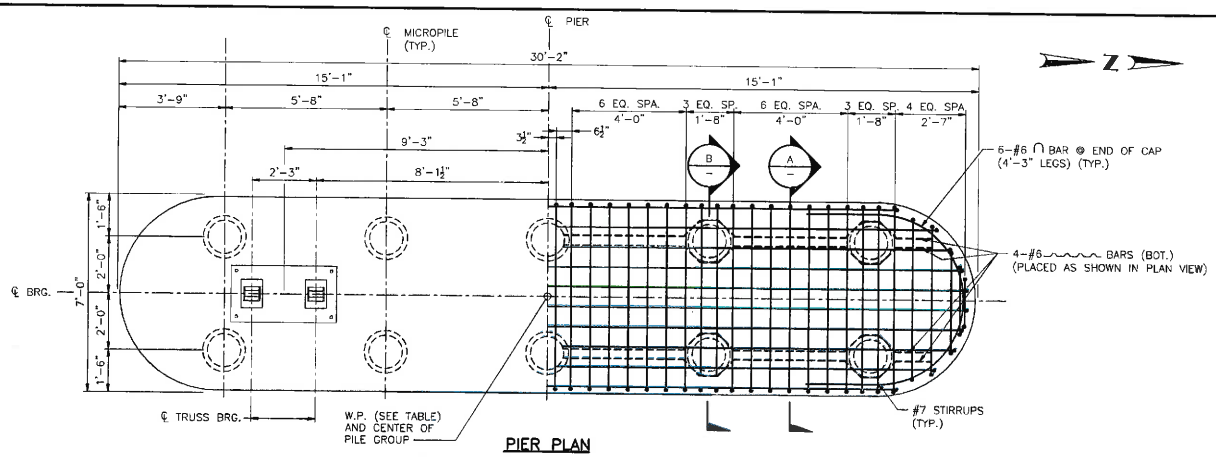
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 RETAINING WALL PLAN 4

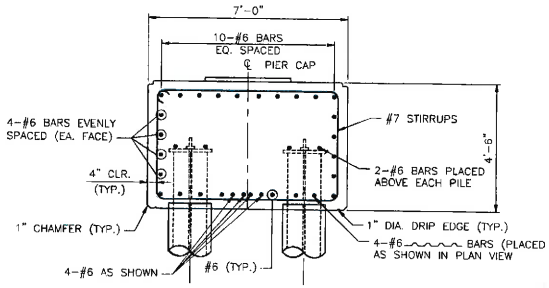
0188A_V2_017_RETWAL04_083751

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	18	38

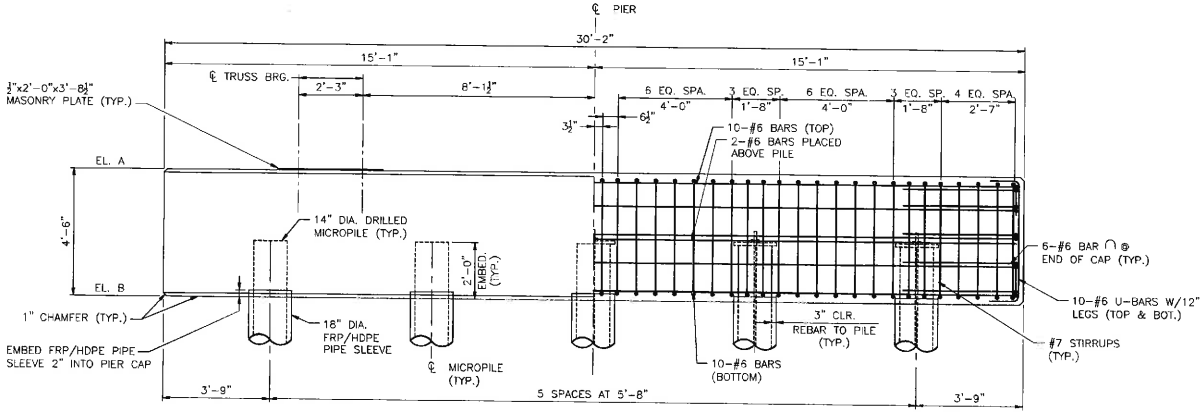


PIER PLAN

(PIER IS SYMMETRICAL ABOUT THE CENTERLINE)
SCALE: ½"=1'-0"

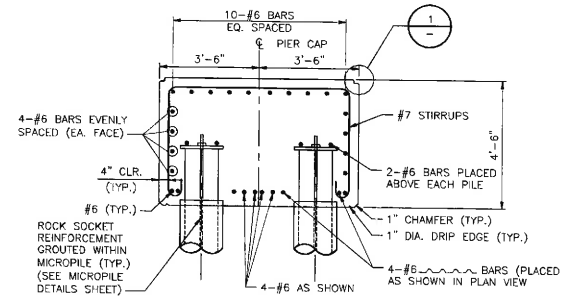


SECTION A/A
SCALE: 1/2"=1'-0"



PIER ELEVATION

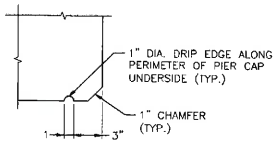
(PIER IS SYMMETRICAL ABOUT THE CENTERLINE)
SCALE: ½"=1'-0"



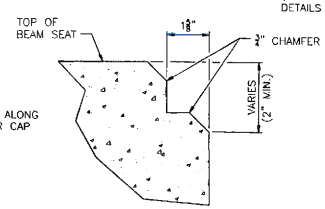
SECTION B/B
SCALE: 1/2"=1'-0"

NOTES:

1. ALL PIER CAP SURFACES SHALL RECEIVE A FILM-FORMING SEALER PROTECTIVE COATING.
2. ONCE PILES ARE INSTALLED, SUBMIT AS-BUILT LOCATIONS TO DESIGN ENGINEER TO VERIFY AND APPROVE THE LOCATIONS.



DRIP EDGE DETAIL
SCALE: NOT TO SCALE



DETAIL
NOT TO SCALE

ELEVATION	BARRINGTON
A	11.85
B	7.35

W.P. #	LOCATION	STATION	NORTHING	EASTING
2	BARRINGTON	104+57.15	238483.3985	383859.1362

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AETNA Aetna Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 18
OF: 38
SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

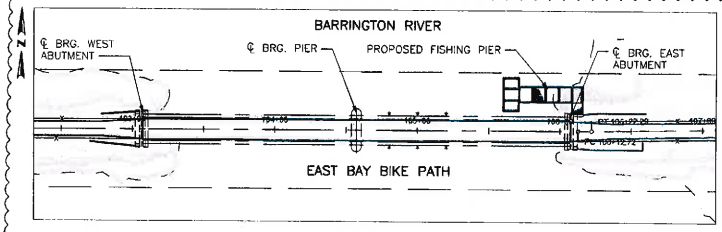
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 PIER DETAILS

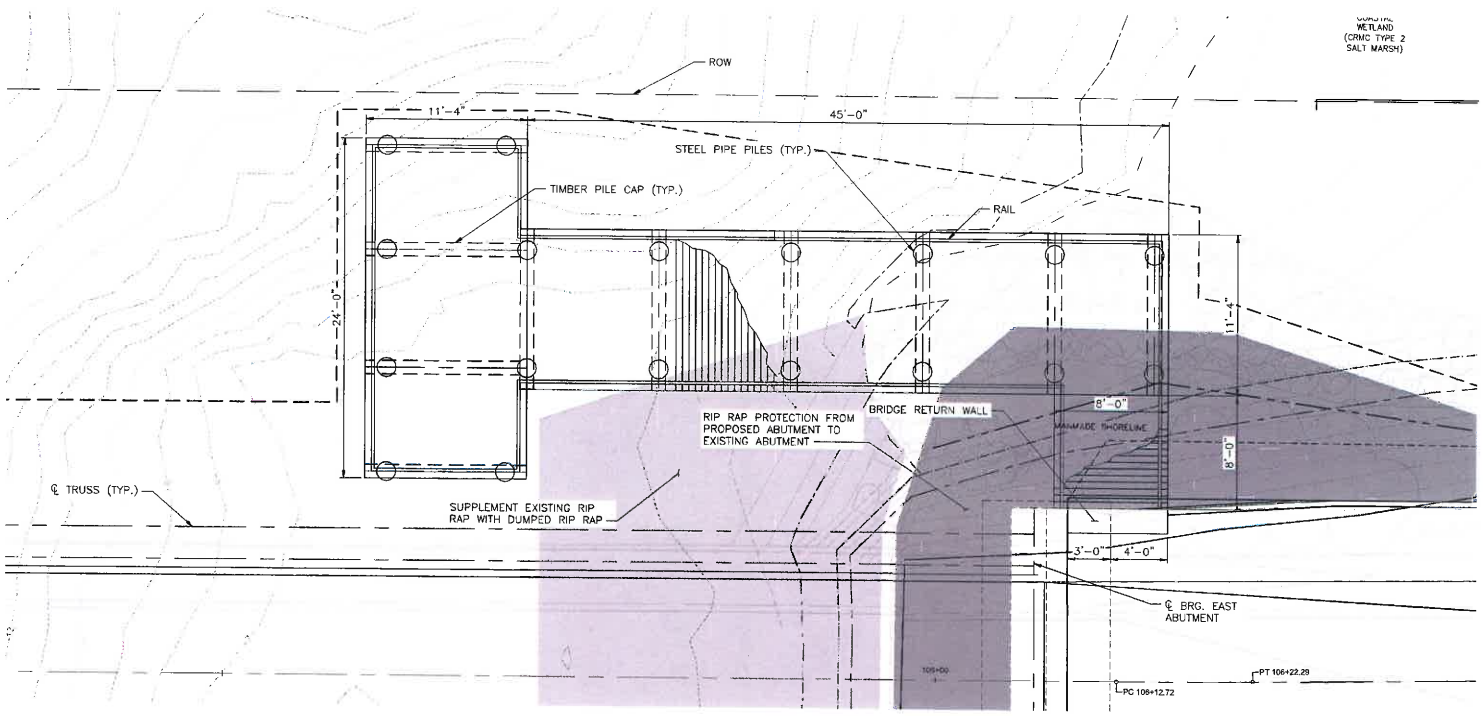
0188A_V2_018_PIER_083751

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	19	38



LOCATION MAP
SCALE: 1"=40'



FISHING PIER GENERAL PLAN
SCALE: 1/4"=1'-0"

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 19
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

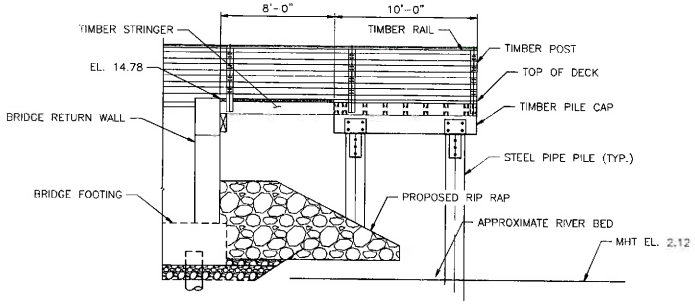
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

Br. 083751 FISHING PIER GENERAL PLAN

0158A_V2_019_083751_BGENERAL_FPIER

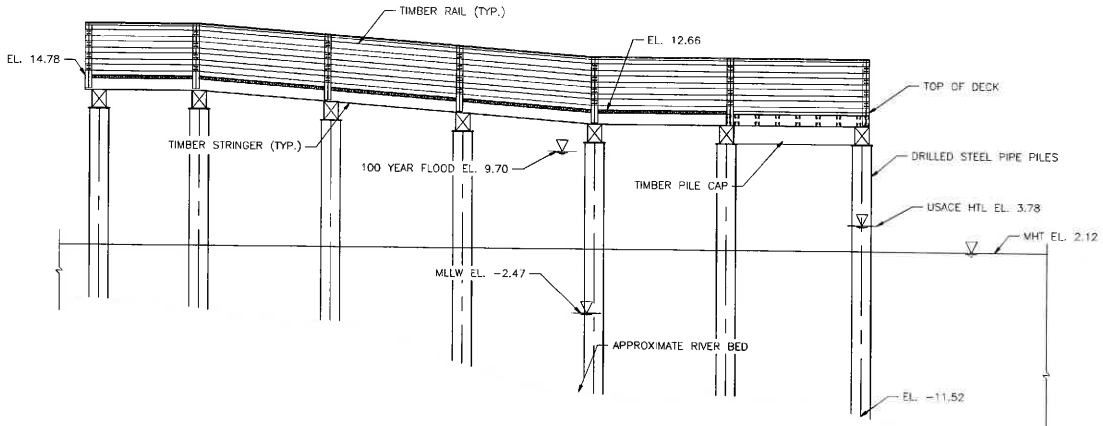
R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	20	48



FISHING PIER – EAST ELEVATION

SCALE: 1/4"=1'-0"
(LOOKING WEST)



FISHING PIER – NORTH ELEVATION

SCALE: 1/4"=1'-0"
(LOOKING SOUTH)

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 20
OF: 48

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

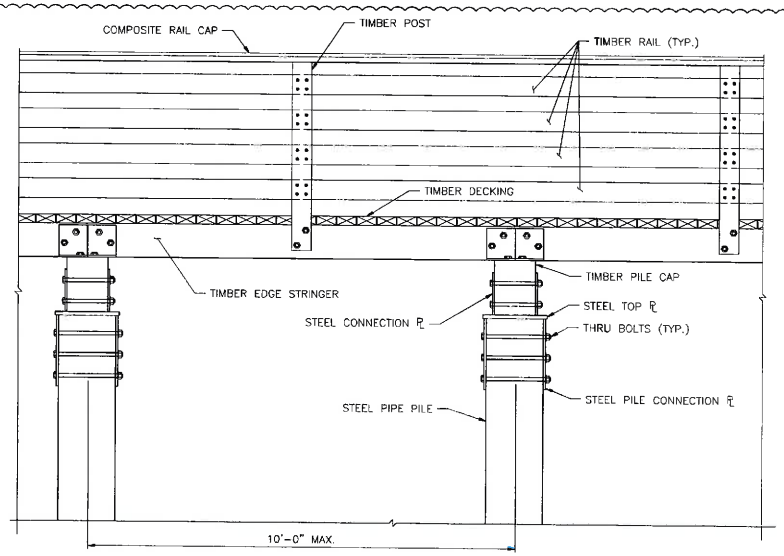
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NOS. 083751 & 083851
VOLUME 2
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 FISHING PIER ELEVATION

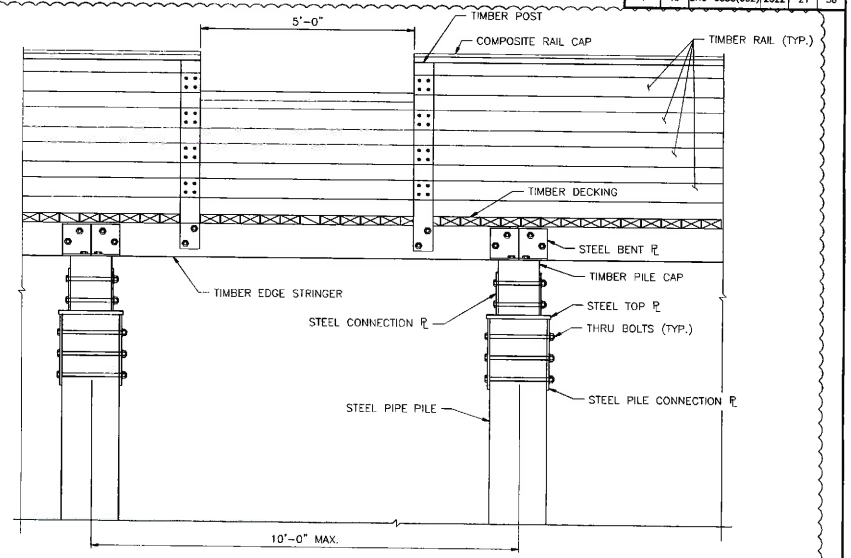
0188A_V2_020_083751_ELEV_PIER

R-1

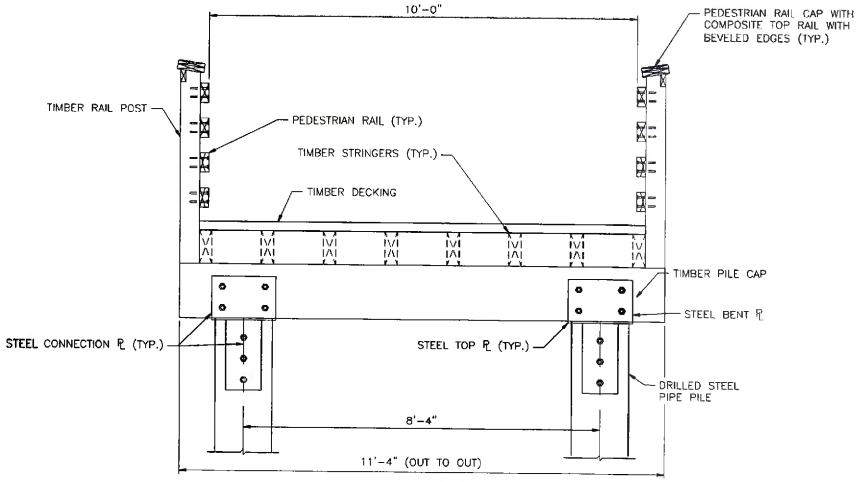
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	21	38



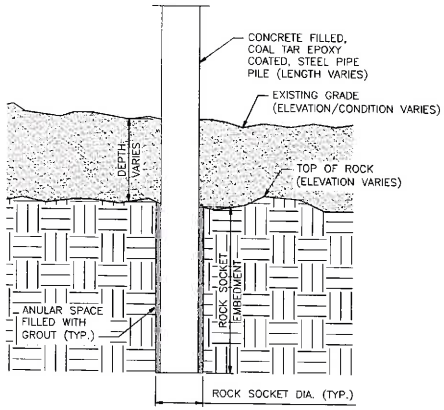
TYPICAL LONGITUDINAL SECTION
SCALE: 3/4"=1'-0"



HANDICAP RAIL DETAIL
SCALE: 3/4"=1'-0"



TYPICAL PIER SECTION
SCALE: 3/4"=1'-0"



PILE ROCK SOCKET DETAIL
SCALE: 1/2"=1'-0"

RECEIVED 2/7/2024 GENERAL SERVICES-DIV. MANAGEMENT OFFICE

AETNA Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
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DATE:
SHEET: 21
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

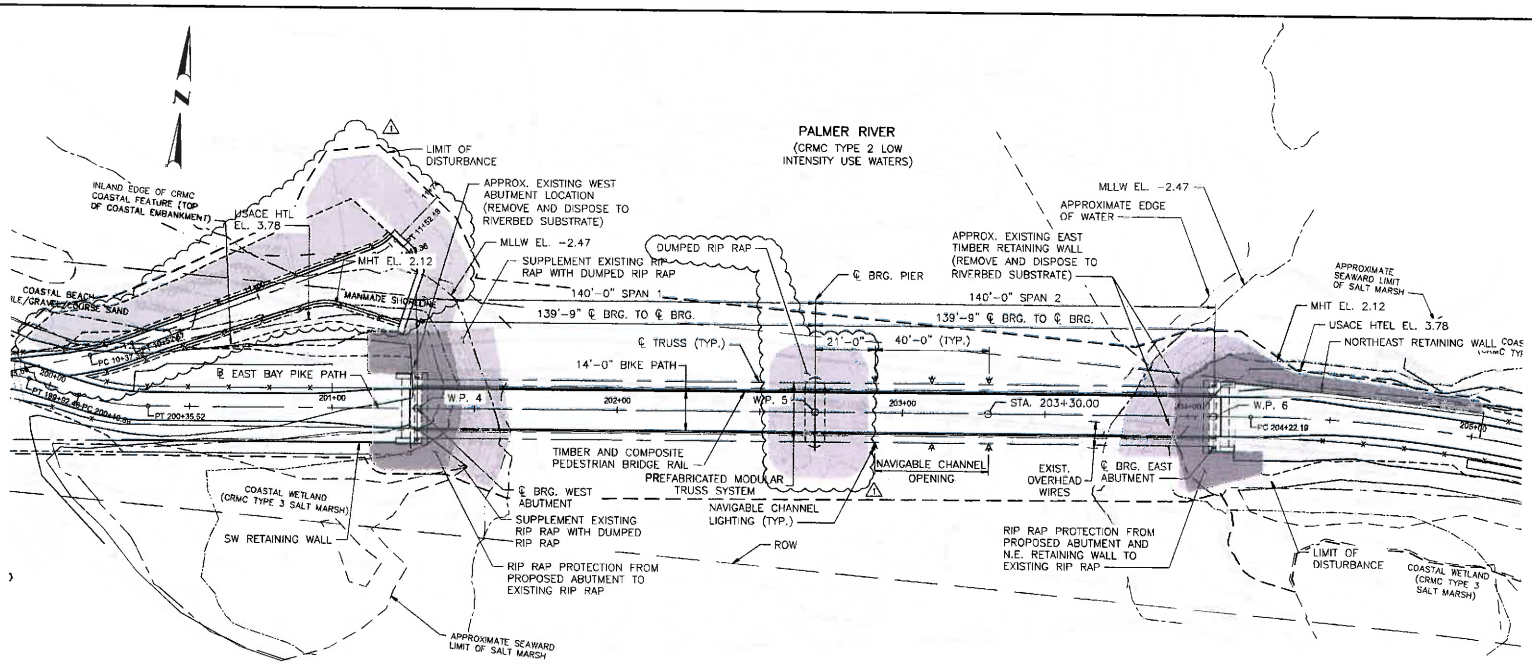
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 FISHING PIER TYPICAL SECTION

0188A_V2_021_083751_BTYPICAL_FPIER

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	22	38

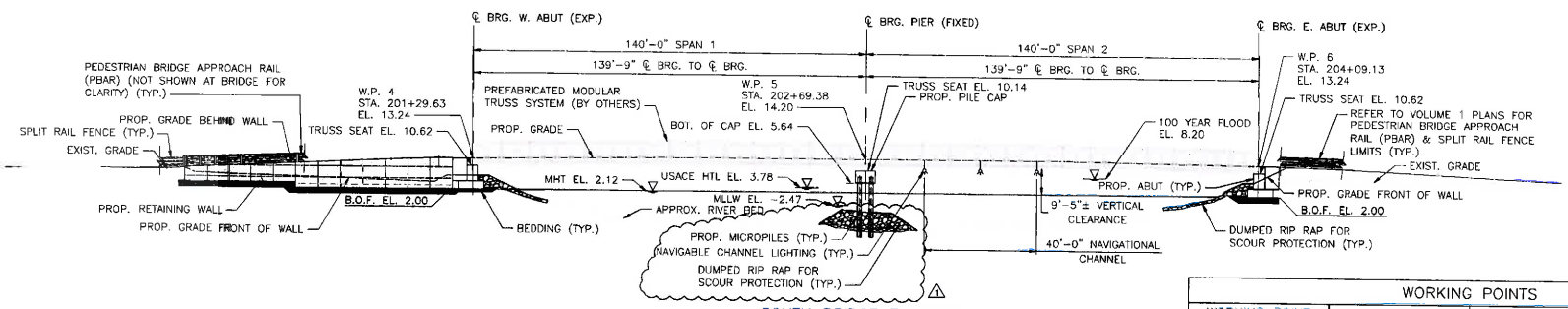


ROUTE 114

PALMER RIVER
(CRMC TYPE 3
HIGH INTENSITY BOATING WATERS)

BRIDGE GENERAL PLAN

SCALE: 1"=20'



SOUTH BRIDGE ELEVATION

(LOOKING NORTH)

SCALE: 1"=20'

WORKING POINTS			
WORKING POINT	STATION	NORTHING	EASTING
W.P. 4	201+29.63	238504.6093	385420.6628
W.P. 5	202+69.38	238518.9443	385559.6757
W.P. 6	204+09.13	238533.2793	385698.6885

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA a Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY: CHECKED BY: DATE: SHEET: 22 OF: 38

SCALE:

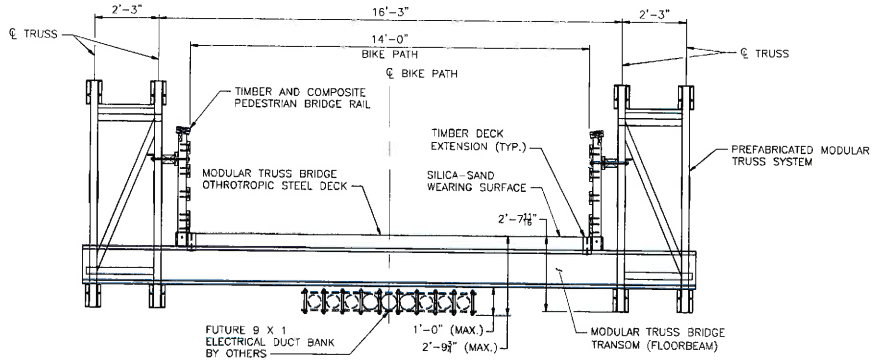
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 BRIDGE GENERAL PLAN

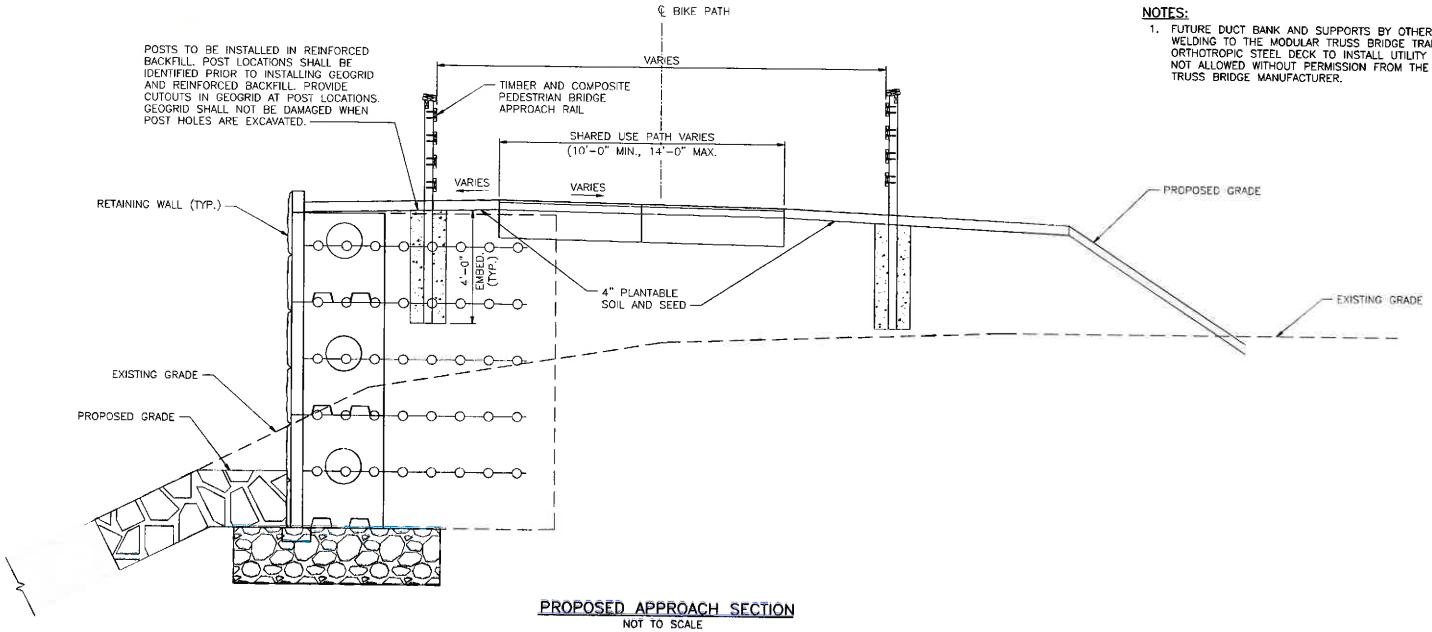
0188A_V2_022_BGENERAL_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	23	38



TYPICAL TRUSS SECTION

NOT TO SCALE



PROPOSED APPROACH SECTION

NOT TO SCALE

NOTES:

1. FUTURE DUCT BANK AND SUPPORTS BY OTHERS. DRILLING AND WELDING TO THE MODULAR TRUSS BRIDGE TRANSOM BEAMS OR ORTHOTROPIC STEEL DECK TO INSTALL UTILITY SUPPORTS IS NOT ALLOWED WITHOUT PERMISSION FROM THE MODULAR TRUSS BRIDGE MANUFACTURER.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 23
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

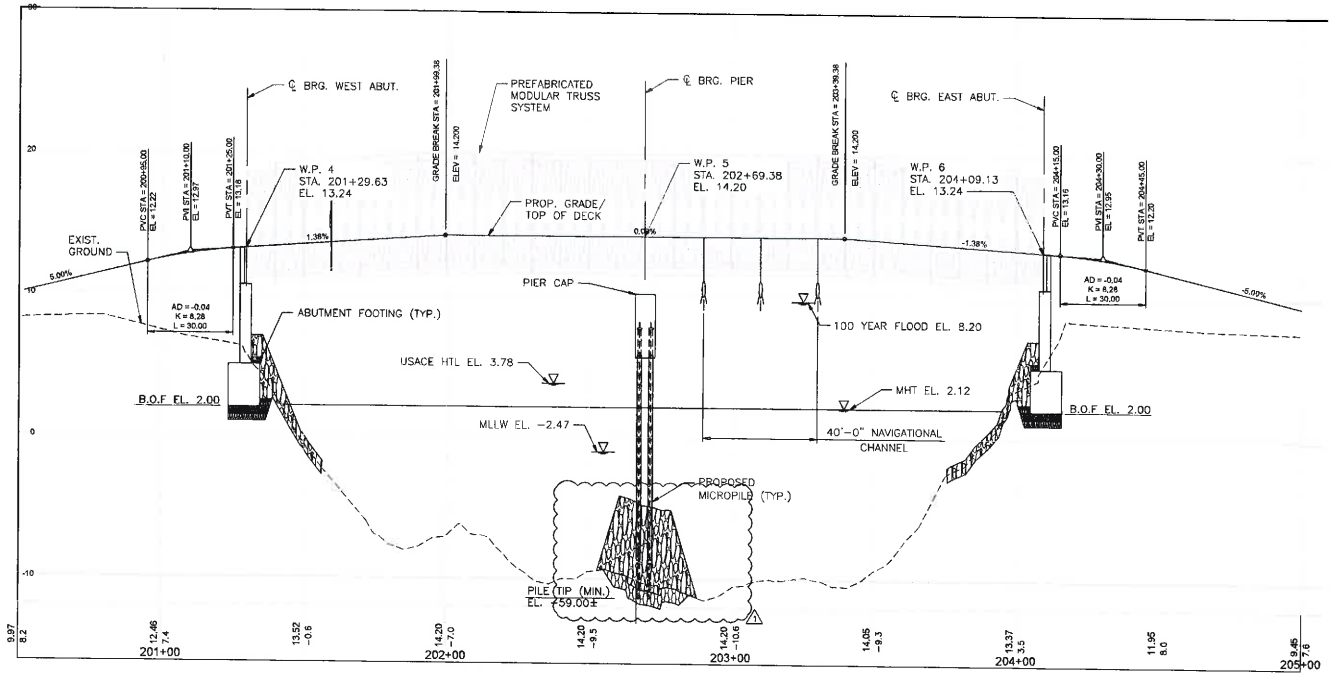
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 BRIDGE TYPICAL SECTION

0188A_V2_023_BTYPICAL_083851

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	24	38



℄ WARREN PROFILE
SCALE HORIZONTAL: 1"=20'
SCALE VERTICAL: 1"=4'

NOTE:
REFER TO HIGHWAY PLANS FOR ADDITIONAL INFORMATION.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA The Bridge Company

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 24
OF: 38

SCALE:

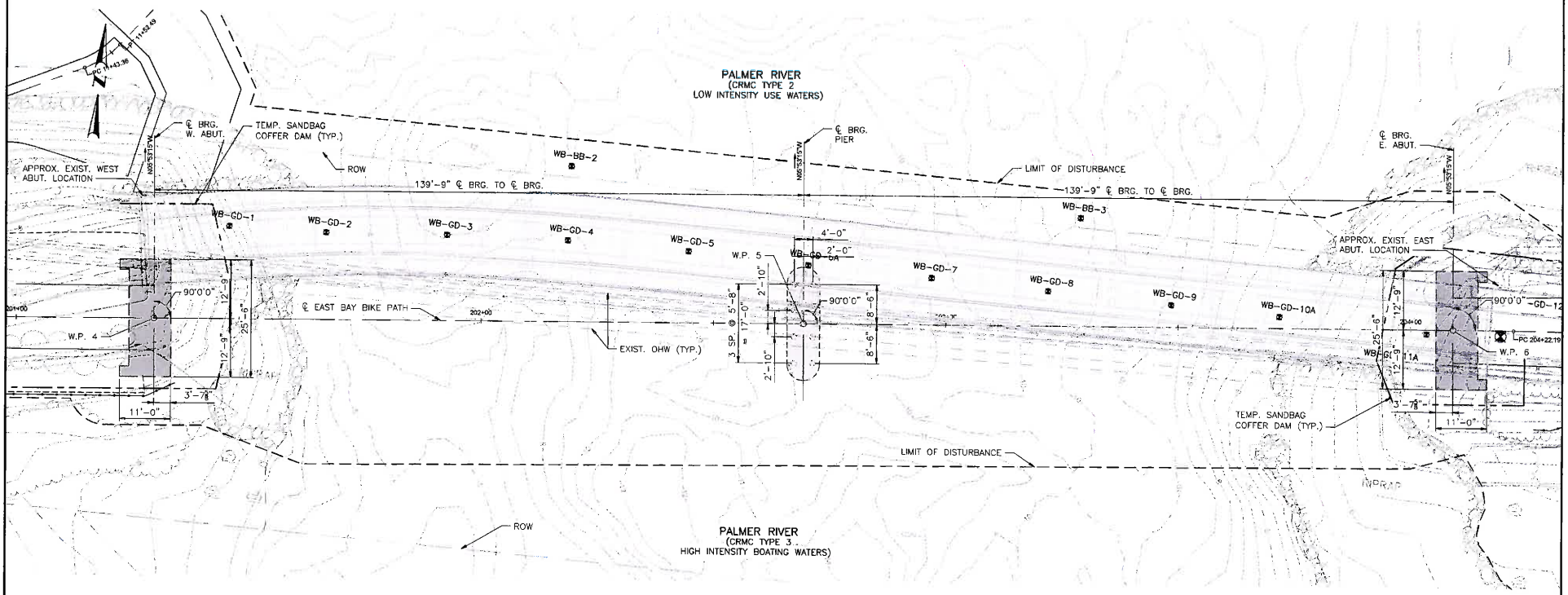
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 BRIDGE PROFILE

0188A_V2_024_BPROFILE_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	25	38



FOUNDATION PLAN

SCALE: 1"=10'

LEGEND

- PROPOSED FOUNDATION
- PIER CAP
- PROPOSED DRILLED MICROPILE (14" DIA.) (VERTICAL)

EARLY RELEASE FOR CONSTRUCTION (ERC 2) JUNE 2023

RECEIVED 2/7/2024 CONTRACT MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 25
OF: 38

SCALE:

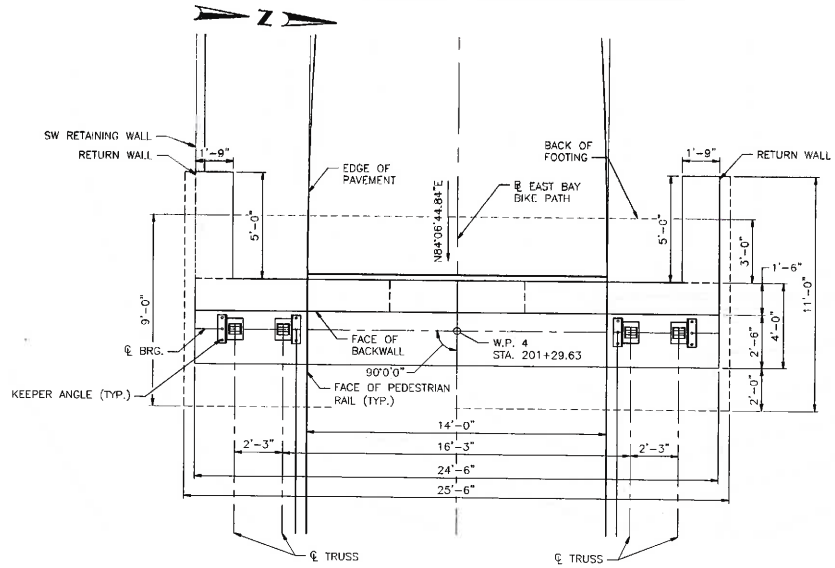
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 FOUNDATION PLAN

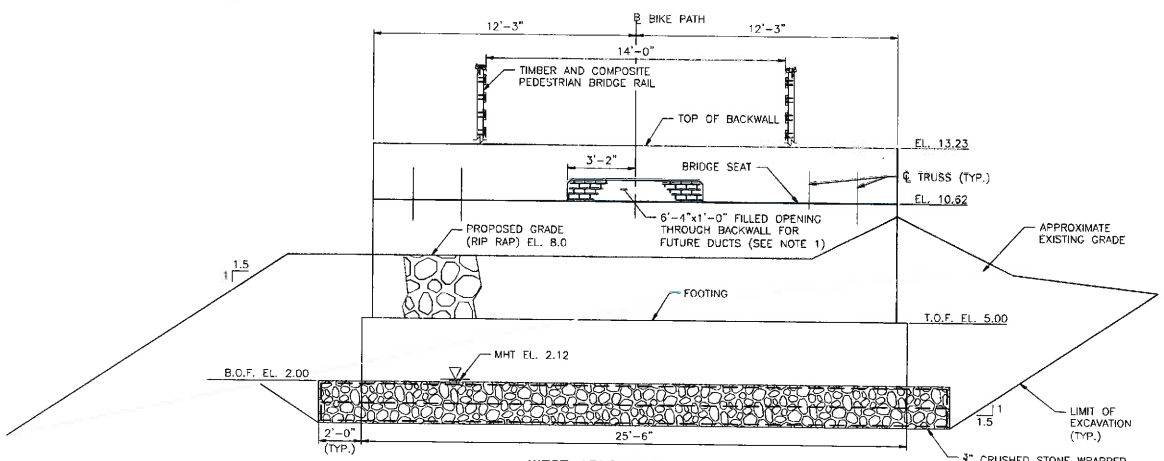
0188A_V2_025_FOUNDATN_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0836(002)	2022	26	38



WEST ABUTMENT PLAN

SCALE: 3/8"=1'-0"



WEST ABUTMENT ELEVATION

SCALE: 3/8"=1'-0"

NOTE:

1. FILL FUTURE DUCT OPENING WITH CLAY BUILDING BRICK (M.04.03.1) AND MORTAR (M.04.03.5) FOR FULL THICKNESS OF BACKWALL.
2. CRUSHED STONE UNDER BRIDGE 083851 ABUTMENT FOOTINGS SHALL BE MIRAFI HP 570 GEOTEXTILE WRAPPED ON ALL SIDES, TOP AND BOTTOM.
3. SEE BR. 083751 WEST ABUTMENT PLAN AND ELEVATION FOR BACKWALL OPENING DETAILS.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 26
OF: 38

SCALE:

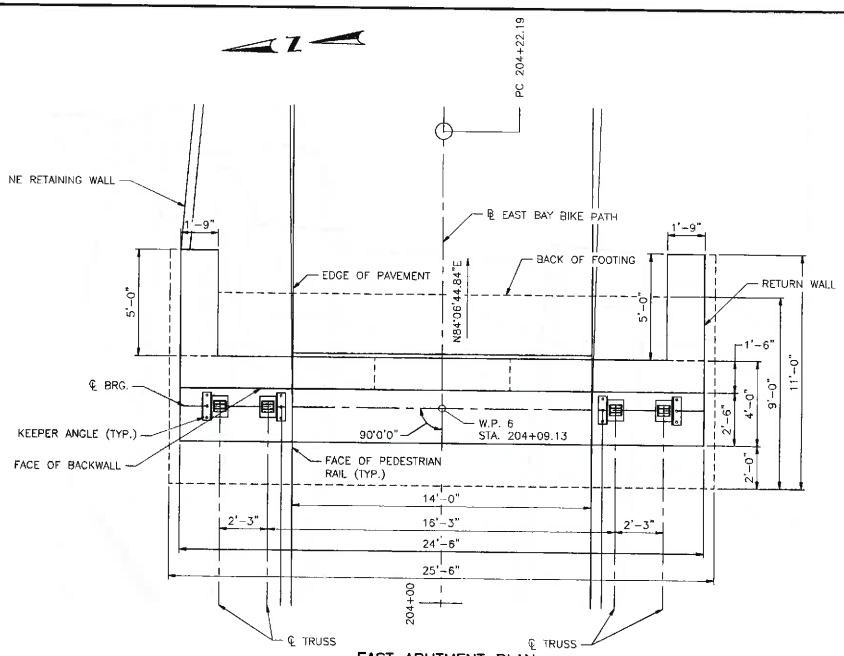
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 WEST ABUTMENT PLAN AND ELEVATION

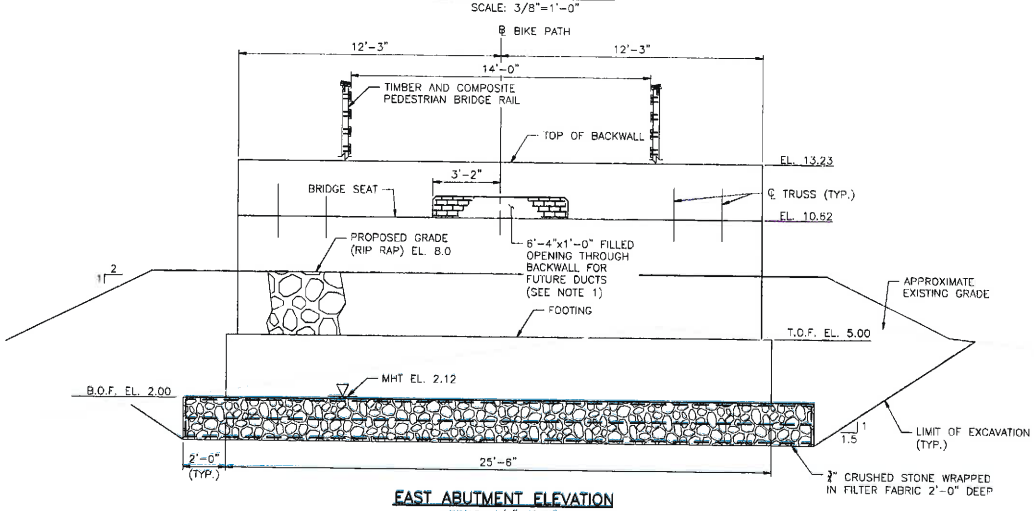
0188A_V2_026_WABUT_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	27	38



EAST ABUTMENT PLAN

SCALE: 3/8"=1'-0"



EAST ABUTMENT ELEVATION

SCALE: 3/8"=1'-0"

NOTE:

1. FILL FUTURE DUCT OPENING WITH CLAY BUILDING BRICK (M.04.03.1) AND MORTAR (M.04.03.5) FOR FULL THICKNESS OF BACKWALL.
2. CRUSHED STONE UNDER BRIDGE 083851 ABUTMENT FOOTINGS SHALL BE MIRAFI HP 570 GEOTEXTILE WRAPPED ON ALL SIDES, TOP AND BOTTOM.
3. SEE BR. 083751 WEST ABUTMENT PLAN AND ELEVATION FOR BACKWALL OPENING DETAILS.

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 27
OF: 38

SCALE:

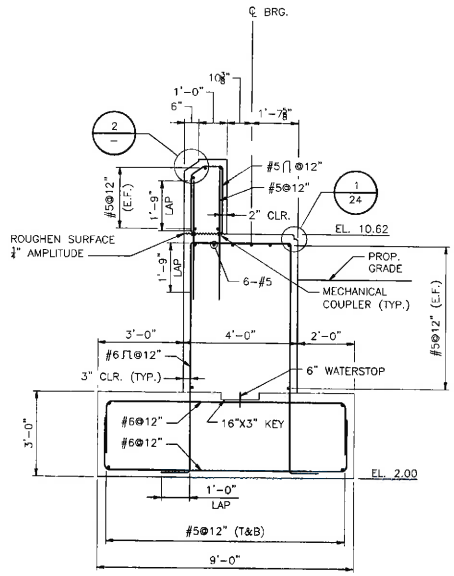
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

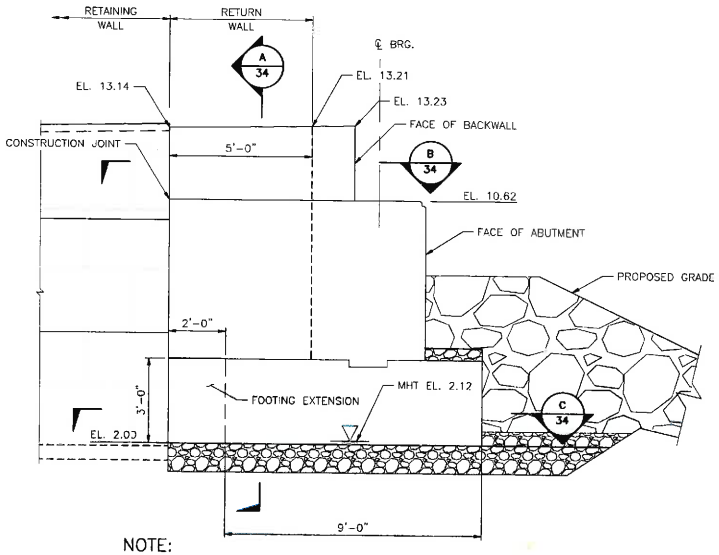
BR. 083851 EAST ABUTMENT PLAN AND ELEVATION

0188A_V2_027_EABUT_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	28	38

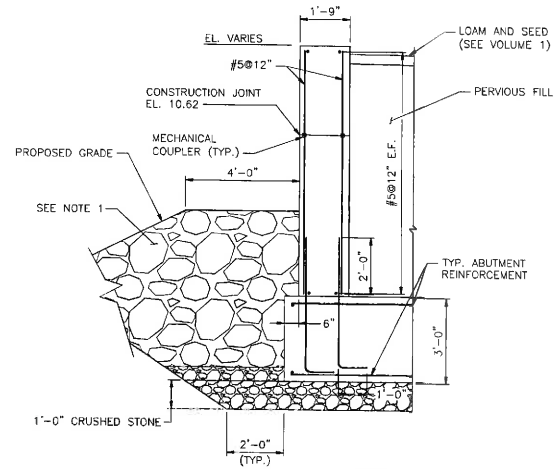


TYPICAL ABUTMENT SECTION
SCALE: 1/2"=1'-0"

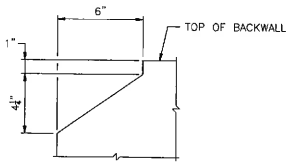


NOTE:
WEST RETURN WALL SHOWN, EAST RETURN WALL SIMILAR.

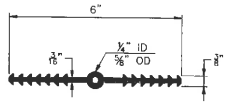
TYPICAL RETURN WALL ELEVATION
SCALE: 1/2"=1'-0"



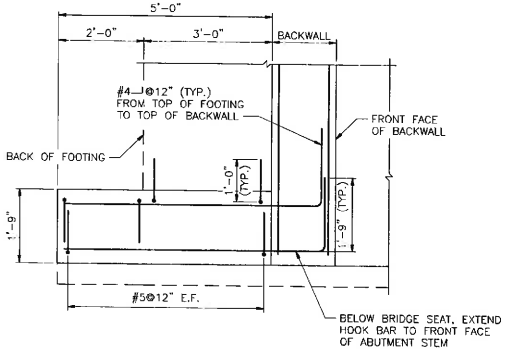
SECTION A/34
SCALE: 1/2"=1'-0"



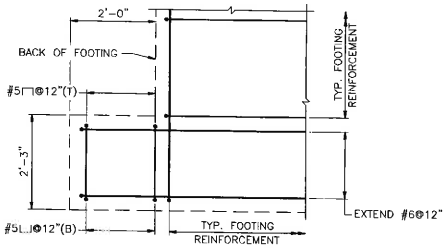
DETAIL 1/–
SCALE: 3"=1'-0"



6" WATER STOP DETAIL
SCALE: 6"= 1'-0"



SECTION B/34
SCALE: 3/4"=1'-0"



SECTION C/34
SCALE: 3/4"=1'-0"

NOTE:
1. SEE Br. 083751 & 083851 RIP RAP DETAILS 1

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

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RI DOT
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 28
OF: 38
SCALE:

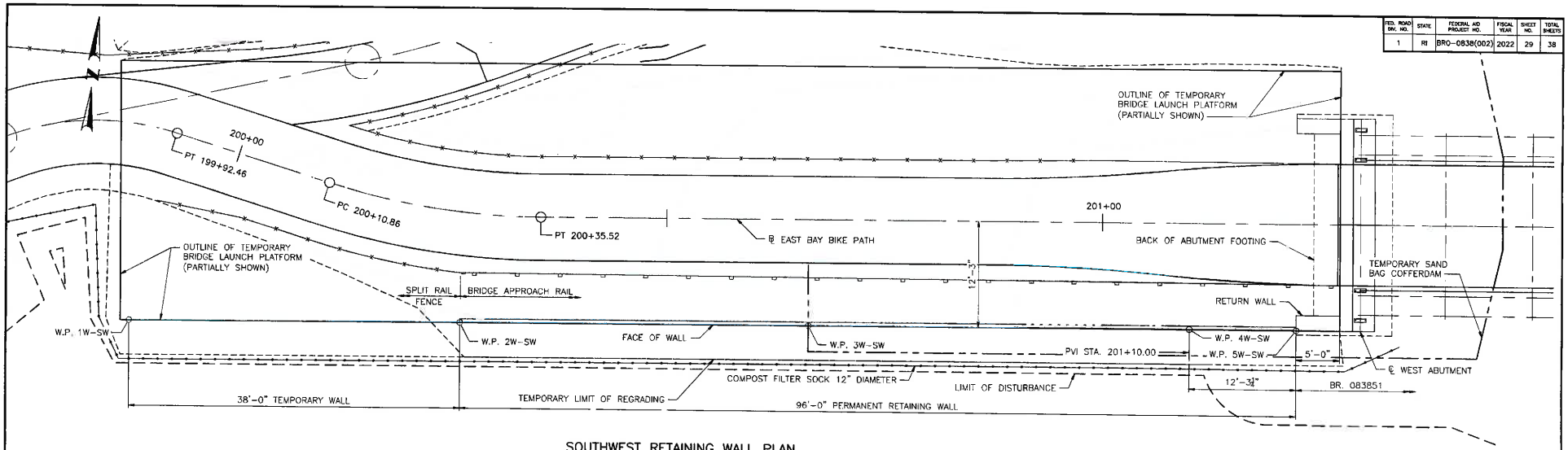
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 ABUTMENT DETAILS

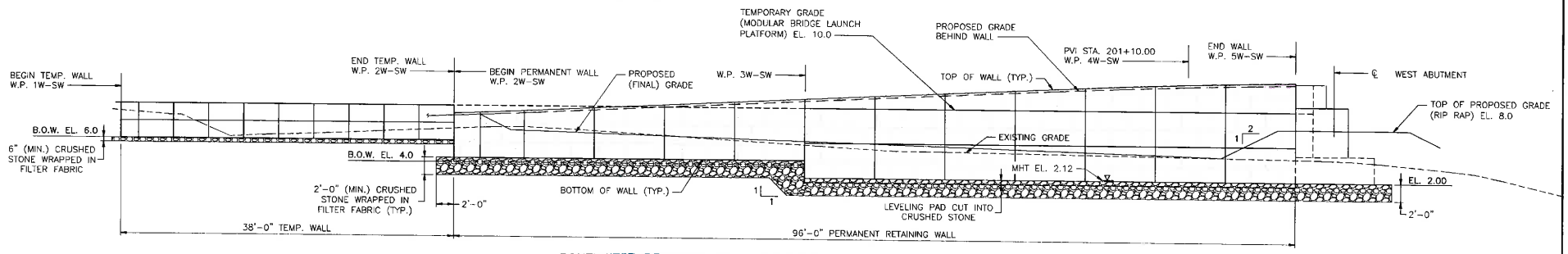
0188A_V2_028_083851_ABUTDETL

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	29	38



SOUTHWEST RETAINING WALL PLAN

SCALE: 3/16"=1'-0"



SOUTHWEST RETAINING WALL ELEVATION

SCALE: 3/16"=1'-0"

SOUTHWEST RETAINING WALL					
WORKING POINT	STATION	OFFSET	NORTHING	EASTING	EL. A*
W.P. 1W-SW	199+93.82	22.24	238477.9197	3852381.3009	10.00**
W.P. 2W-SW	200+27.52	12.72	238481.8185	385319.1003	8.85
W.P. 3W-SW	200+66.27	12.25	238485.9228	385358.8892	10.78
W.P. 4W-SW	201+10.00	12.25	238490.4098	385402.3925	12.83
W.P. 5W-SW	201+22.27	12.25	238491.6683	385414.5937	13.13

* ELEVATION IS GIVEN AT PROPOSED GRADE BEHIND WALL. SEE TYPICAL RETAINING WALL SECTION.
** THIS GRADE IS TEMPORARY FOR THE LAUNCHING PLATFORM

NOTES:

1. REFER TO HIGHWAY PLANS FOR COMPLETE GEOMETRY AND CURVE DATA FOR BIKE PATH.
2. PANEL SLIP JOINTS ARE NOT SHOWN. SLIP JOINT LOCATION AND QUANTITY SHALL BE DETERMINED BY THE WALL MANUFACTURER.
3. THE EXPOSED FACE OF THE RETAINING WALL SHALL HAVE AN ASHLAR FORMLINER FINISH. WALL MANUFACTURER SHALL SUBMIT ASHLAR FORMLINER DETAIL FOR APPROVAL.
4. FILTER FABRIC FOR WRAPPING CRUSHED STONE UNDER THE RETAINING WALLS SHALL BE MIRAFI FW 700 FILTER WEAVE OR EQUAL.
5. SEE BR. 083851 RETAINING WALL NO. 2 FOR TYPICAL RETAINING WALL SECTION.

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 29
OF: 38

SCALE:

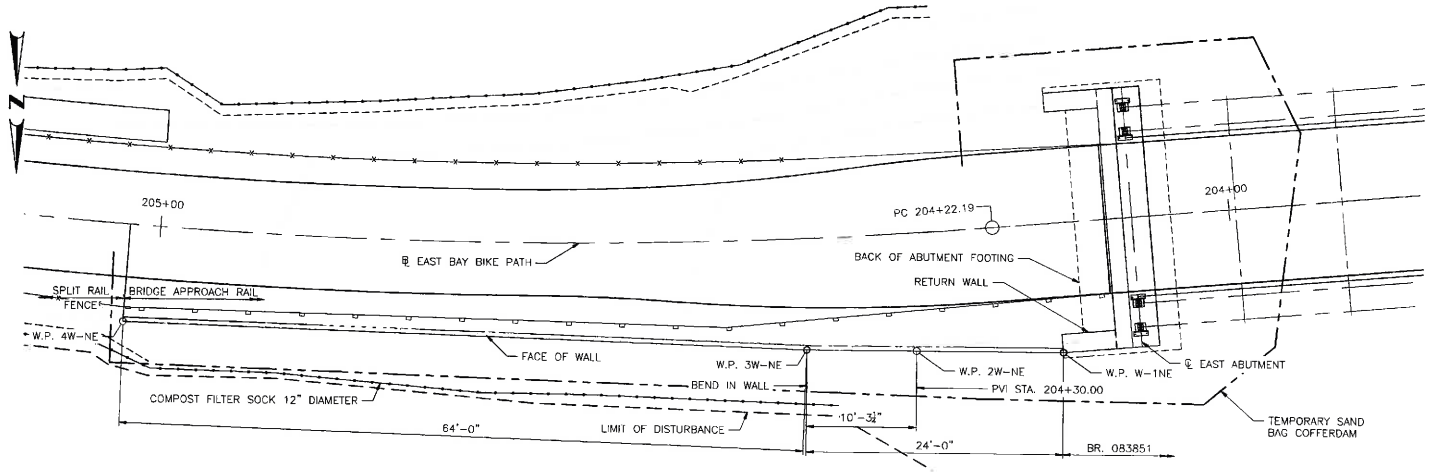
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 RETAINING WALL PLAN 1

0188A_V2_029_RETWALL01_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	30	38



NORTHEAST RETAINING WALL PLAN

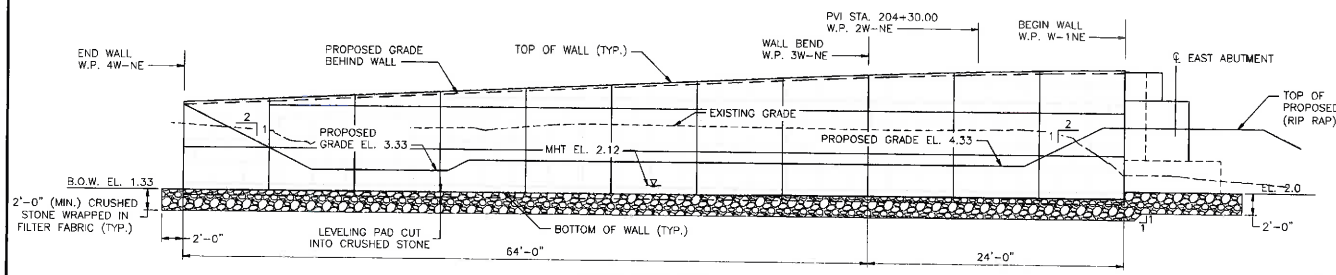
SCALE: 3/16"=1'-0"

MINIMUM REQUIRED REINFORCEMENT (GEOGRID) LENGTHS	
RETAINING WALL LOCATION	LENGTH (L)*
SOUTHWEST	0.7H
NORTHEAST	0.7H

*H = EL. A – B.O.W. EL.

NOTE:

NOTE: GEOGRID LENGTH "L" SHALL BE THE MINIMUM LENGTHS SHOWN TO SATISFY GLOBAL STABILITY. WALL DESIGNER'S DESIGN SHALL INCLUDE AN INTERNAL STABILITY ANALYSIS.

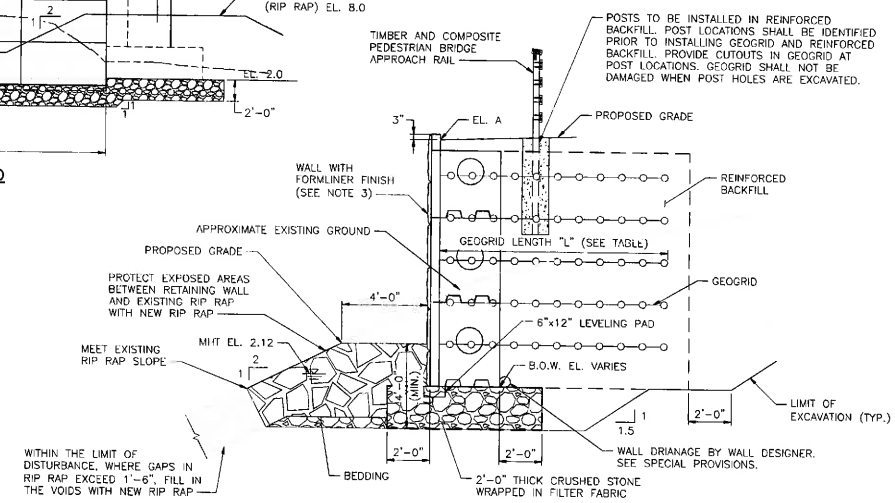


NORTHEAST RETAINING WALL ELEVATION – DEVELOPED

SCALE: 3/16"=1'-0"

NOTES:

1. SEE BR. 083851 RETAINING WALL PLAN 1 FOR NOTES.



TYPICAL RETAINING WALL SECTION

SCALE: 3/8"=1'-0"

NORTHEAST RETAINING WALL					
WORKING POINT	STATION	OFFSET	NORTHING	EASTING	EL. A*
W.P. 1W-NE	204+16.50	-12.25	238546.2201	385704.7577	13.15
W.P. 2W-NE	204+30.00	-11.13	238546.4429	385718.4901	12.84
W.P. 3W-NE	204+40.03	-10.50	238546.6093	385728.7545	12.47
W.P. 4W-NE	205+02.83	-9.20	238545.5894	385792.7464	9.34

* ELEVATION IS GIVEN AT PROPOSED GRADE BEHIND WALL. SEE TYPICAL RETAINING WALL SECTION.

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: - CHECKED BY: - DATE: SHEET: 30 OF: 38

SCALE:

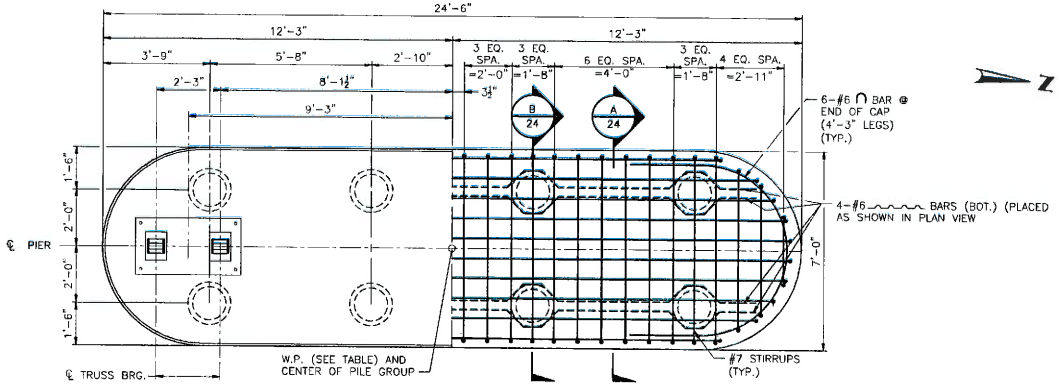
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 RETAINING WALL PLAN 2

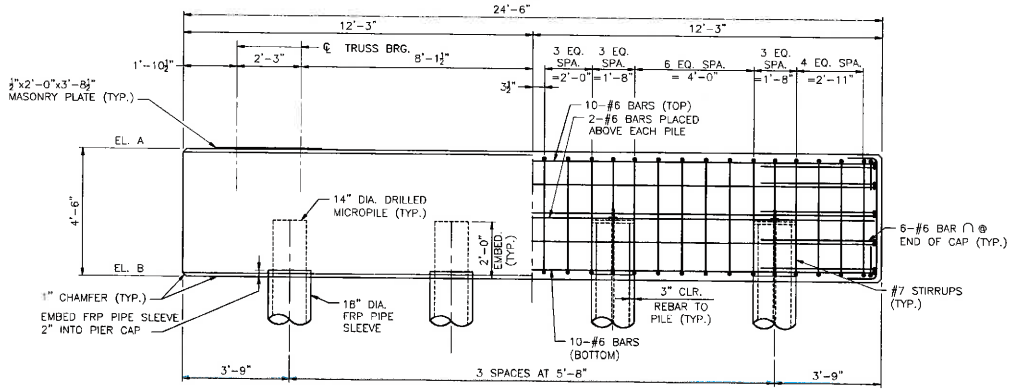
01888_V2_030_RETWALL02_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	31	38



PIER PLAN

(PIER IS SYMMETRICAL ABOUT THE CENTERLINE)
SCALE: ½"=1'-0"



PIER ELEVATION

(PIER IS SYMMETRICAL ABOUT THE CENTERLINE)
SCALE: ½"=1'-0"

NOTES:

1. SEE NOTES AND DRIP EDGE DETAIL ON BR. 083751 PIER DETAILS.
2. ONCE PILES ARE INSTALLED, SUBMIT AS-BUILT LOCATIONS TO DESIGN ENGINEER TO VERIFY AND APPROVE THE LOCATIONS.

ELEVATION	WARREN
A	10.10
B	5.60

W.P. #	LOCATION	STATION	NORTHING	EASTING
5	WARREN	202+69.38	238518.9443	385559.6757

RECEIVED 2/7/2024 RI DEPT. OF TRANSPORTATION MANAGEMENT CONTROL

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 31
OF: 38

SCALE:

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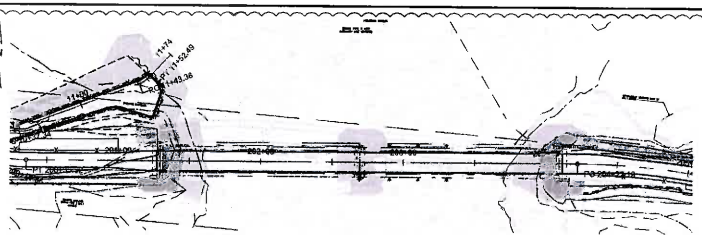
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083851 PIER DETAILS

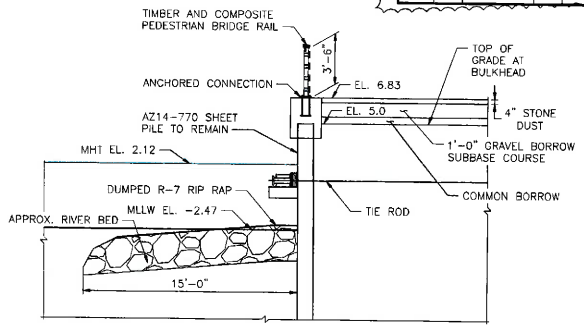
0188A_V2_031_PIER_083851

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	32	38

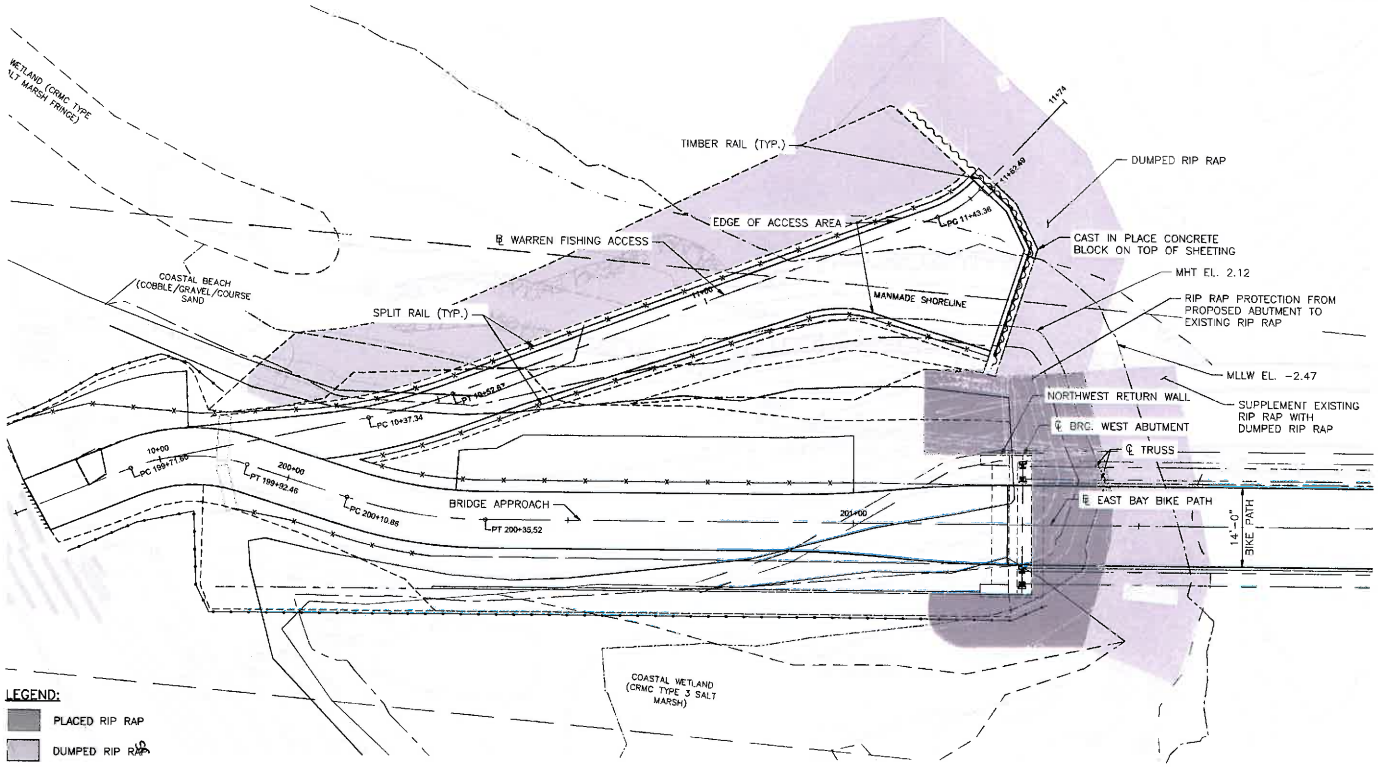
R-1



LOCATION MAP
SCALE: 1"=40'



TYPICAL SECTION AT SHEETING
SCALE: 1/4"=1'-0"



FISHING PIER GENERAL PLAN
SCALE: 1"=10'

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
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DATE:
SHEET: 32
OF: 38

SCALE:

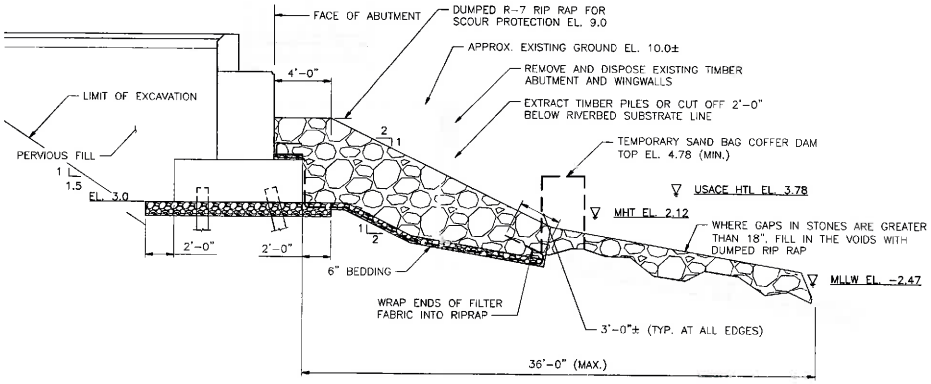
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

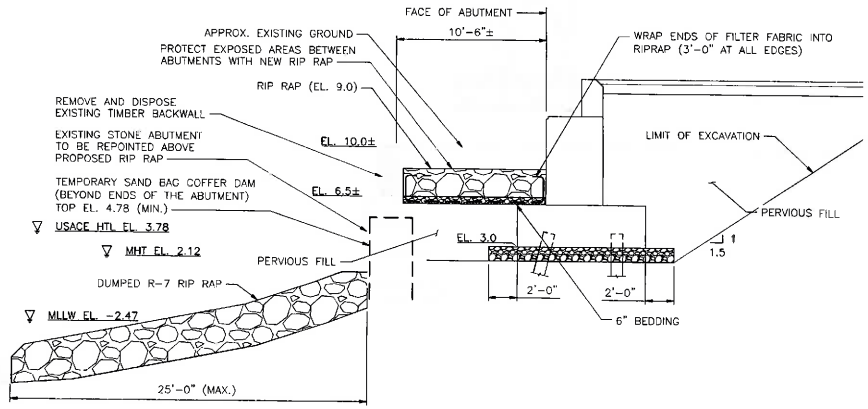
BR. 083851 FISHING PIER GENERAL PLAN

0168A_V2_032_083851_BGENERAL_FPIER

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	33	38



BRIDGE NO. 083751 WEST ABUTMENT
SCALE: 1/4"=1'-0"



BRIDGE NO. 083751 EAST ABUTMENT
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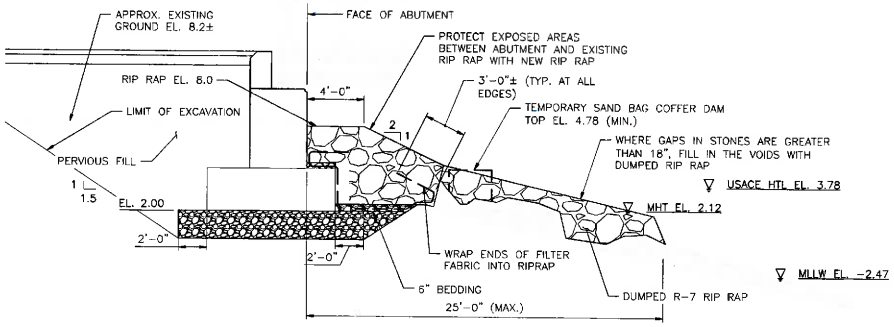
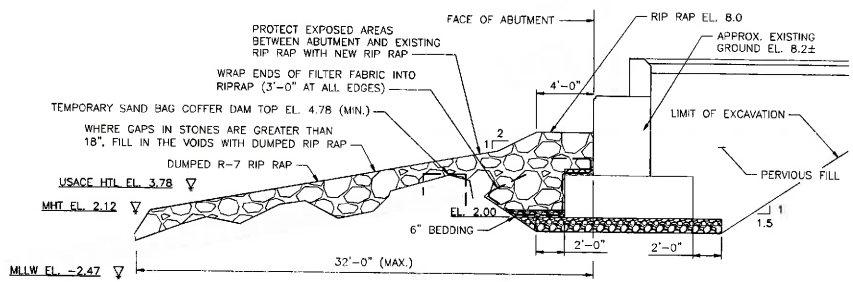


BRIDGE NO. 083851 WEST ABUTMENT
SCALE: 1/4"=1'-0"



BRIDGE NO. 083851 EAST ABUTMENT
SCALE: 1/4"=1'-0"

NOTES:

1. WATER INSIDE COFFER DAMS SHALL BE DIRECTED TO DEWATERING BASINS (RI STANDARD DETAIL 9.7.0 OR SIMILAR) IN ACCORDANCE WITH SECTION 208 OF THE RIDOT STANDARD SPECIFICATIONS AND SHALL BE FREE OF SUSPENDED SEDIMENTS PRIOR TO DISCHARGING BACK TO THE RIVER.
2. TEMPORARY DEWATERING BASINS (RI STANDARD 9.7.0 OR SIMILAR) FOR EXCAVATION AND INSTALLATION OF BRIDGE ABUTMENT FOOTINGS AND LOWER SECTIONS OF THE RETAINING WALLS SHALL BE LOCATED WITHIN THE LIMITS OF THE ACTIVE WORK AREAS ON THE CAUSEWAYS. THE SHAPE OF THE DEWATERING BASINS MAY BE MODIFIED TO BEST ACCOMMODATE THE WORK AREA.
3. 6" BEDDING UNDER RIP RAP SHALL BE 1.5" STONE BEDDING MATERIAL.

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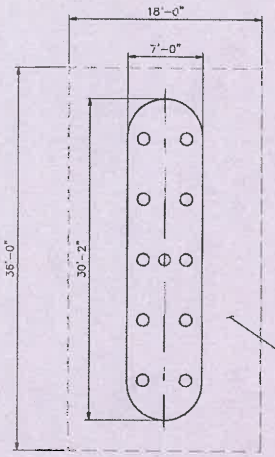
EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

Br. 083751 & 083851 RIP RAP DETAILS 1

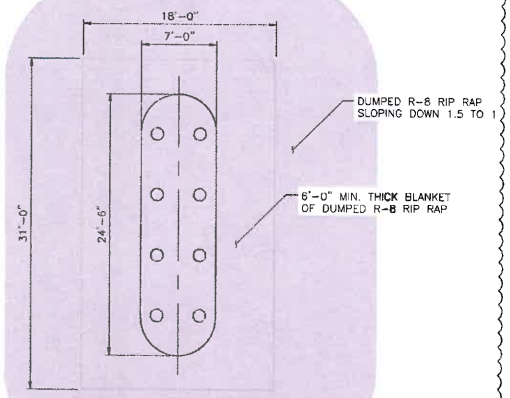
0188A_V2_033_RIPRAPDET001

R-1

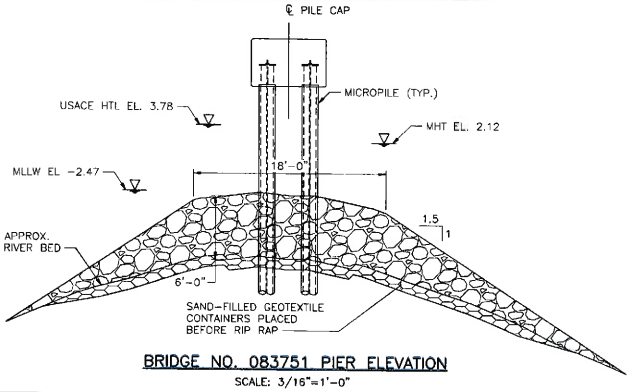
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	34	38



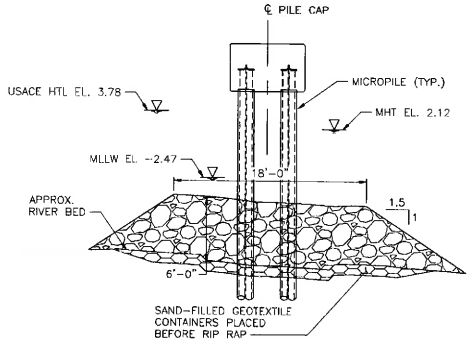
BRIDGE NO. 083751 PIER
SCALE: 3/16"=1'-0"



BRIDGE NO. 083851 PIER
SCALE: 3/16"=1'-0"



BRIDGE NO. 083751 PIER ELEVATION
SCALE: 3/16"=1'-0"



BRIDGE NO. 083851 PIER ELEVATION
SCALE: 3/16"=1'-0"

LEGEND:

DUMPED RIP RAP

NOTES:

1. BASED ON 2014 EAST BAY BIKE PATH DESIGN STUDY REPORTS FOR BARRINGTON RIVER BRIDGE AND PALMER RIVER BRIDGE, THE CALCULATED PIER PILE LOCAL SCOUR IS ANTICIPATED TO BE 4.1 FEET AT BRIDGE NO. 083751 AND 5.0 FEET AT BRIDGE 083851. THE PROPOSED RIP RAP IS INTENDED TO PREVENT LOCAL SCOUR AT THE PIERS.
2. THE GEOTEXTILE CONTAINERS SHALL BE HEAVY DUTY-WOVEN OR NONWOVEN GEOTEXTILE DESIGNED FOR FILTRATION AND STRENGTH, IN BAGS LARGE ENOUGH THAT THEY CAN BE PLACED ACCURATELY AND WITH ENOUGH OVERLAP TO ESURE FULL COVERAGE UNDER THE RIP RAP. ONCE THE GEOTEXTILE CONTAINERS ARE INSTALLED THERE SHALL BE A CONTINUOUS BLANKET OF SAND AT LEAST 6" THICK AND WRAPPED IN FILTER GEOTEXTILE. THE CONTRACTOR MAY DO THIS WITH MULTIPLE BAGS PLACED INDIVIDUALLY OR WITH A PREFABRICATED PANEL. THE RECOMMENDED MATERIAL FOR THE SAND FILLED GEOTEXTILE CONTAINERS ARE AS FOLLOWS:

MASS PER UNIT AREA	AOS	PERMEABILITY	GEOTEXTILE TYPE	Kg/Ks
278 g/m^3	0.18mm	0.21 cm/s	NONWOVEN NEEDLE PUNCHED	5.25

3. CONTRACTOR SHALL AVOID DAMAGE TO THE GEOTEXTILE CONTAINERS WHILE PLACING RIP RAP.

REDEV 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA The Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PROJECT MODIFICATIONS SINCE OCTOBER 24, 2023 CRMC FULL COUNCIL PUBLIC HEARING.

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 34
OF: 38

SCALE:

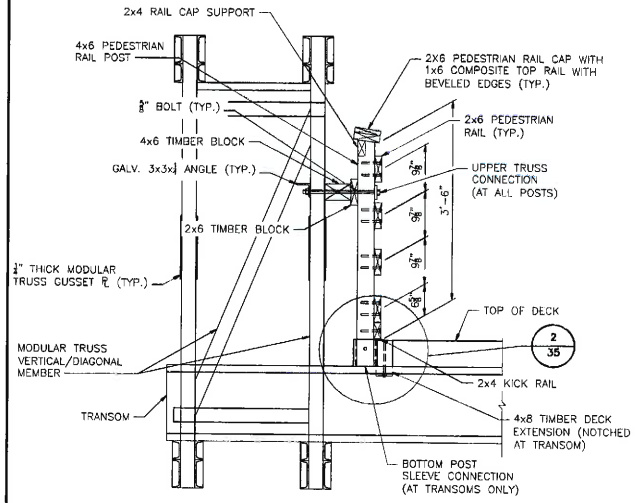
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY
1	2/1/24	VHB			

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 & 083851 RIP RAP DETAILS 2

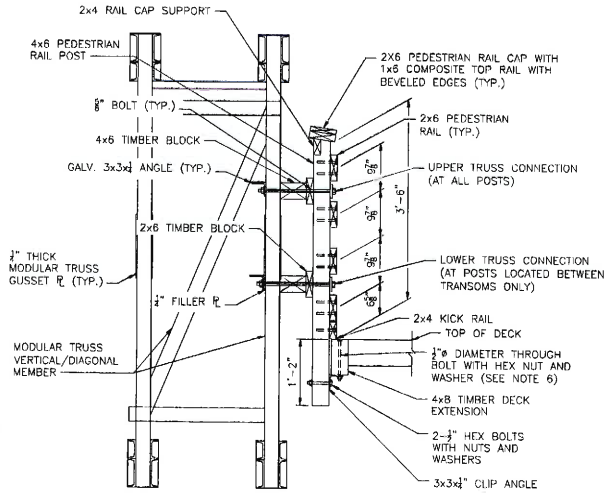
D189A_V2_034_RIPRAPDET002

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	35	38



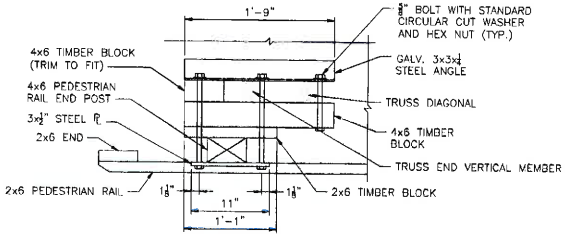
PEDESTRIAN BRIDGE RAIL SECTION AT TRANSOM

SCALE: 1"=1'-0"



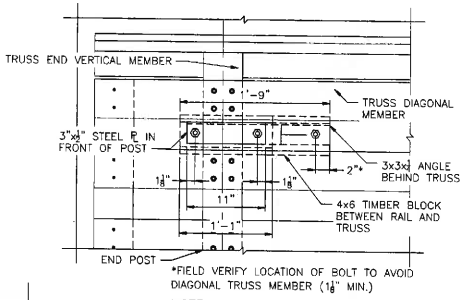
PEDESTRIAN BRIDGE RAIL SECTION AT MID SPAN BETWEEN TRANSOMS

SCALE: 1"=1'-0"



PEDESTRIAN BRIDGE RAIL CONNECTION AT END OF TRUSS PLAN

SCALE: 1-1/2"=1'-0"

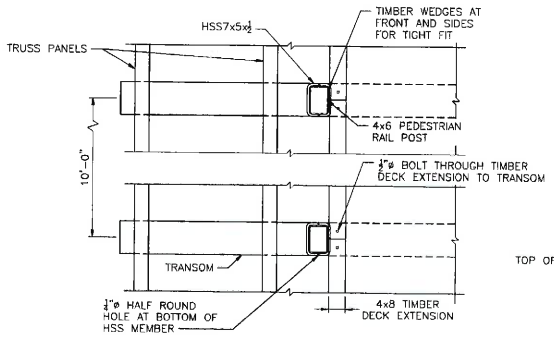


NOTE:

1. END POST IS PARTIALLY SHOWN, BOTTOM CONNECTION TO BE THE SLEEVE DETAIL ON TOP OF TRANSOM (SEE DETAIL 3 ON SHEET 43).

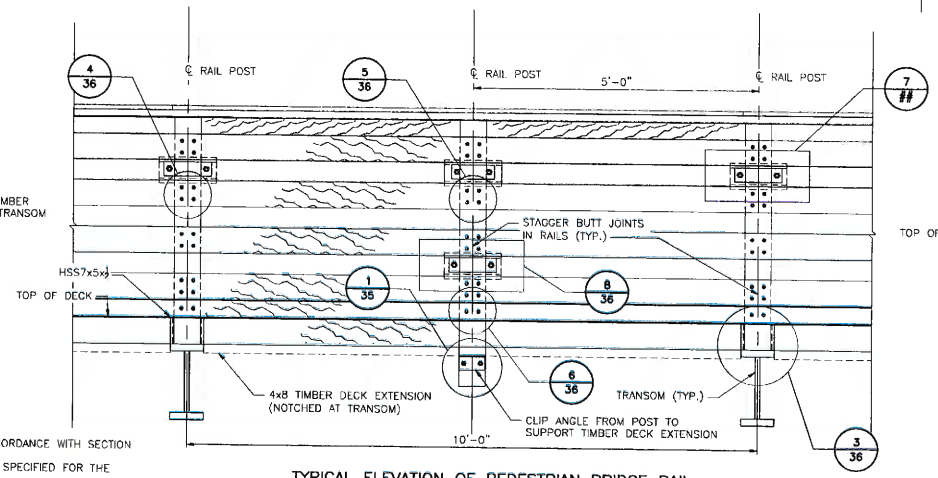
PEDESTRIAN BRIDGE RAIL ELEVATION CONNECTION AT END OF TRUSS

SCALE: 1-1/2"=1'-0"



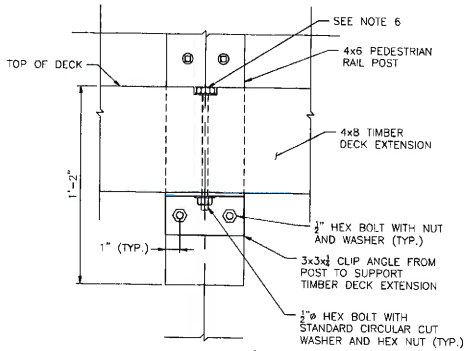
PLAN AT BOTTOM POST SLEEVE

SCALE: 1"=1'-0"



TYPICAL ELEVATION OF PEDESTRIAN BRIDGE RAIL

SCALE: 1"=1'-0"



DETAIL 1/35

SCALE: 3"=1'-0"

NOTES:

1. ALL TIMBER, HARDWARE AND CONSTRUCTION FOR THE BRIDGE RAIL SHALL BE IN ACCORDANCE WITH SECTION 806 OF THE RIDOT STANDARD SPECIFICATIONS.
2. SURFACED FOUR SIDES LUMBER IS LABELED WITH NOMINAL DIMENSIONS. ALL TIMBER SPECIFIED FOR THE RAILING SHALL BE SOUTHERN PINE NO. 1.
3. ALL BOLTS, NUTS, WASHERS AND STRUCTURAL STEEL ARE TO BE GALVANIZED PER SHEET 5 NOTE 6.
4. PROVIDE OPEN JOINT IN COMPOSITE TOP RAIL AT PANELS ADJACENT TO EXPANSION JOINTS.
5. BEVEL ⅜" TOP FACE AND EDGES AT END CUT (ENDS OF BRIDGE).
6. TOP OF 4x8 TIMBER DECK EXTENSION AND BOLT HEAD TO BE FLUSH WITH WEARING SURFACE. FILL BOLT COUNTERBORE RECESS WITH SILICONE SEALANT AFTER TIMBER DECK EXTENSION BOLTS ARE INSTALLED AND TIGHTENED.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 35
OF: 38

SCALE:

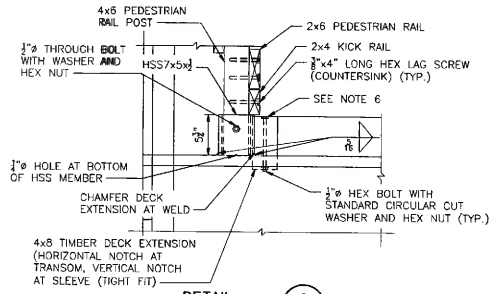
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

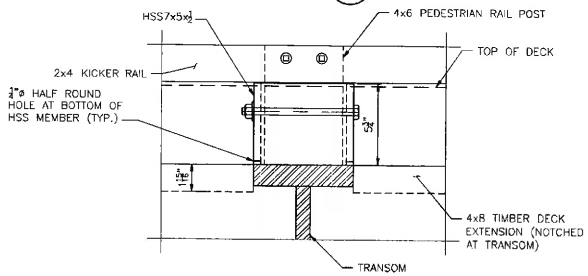
BR. 083751 & 083851 BRIDGE RAIL DETAILS 1

0188A_V2_035_RAILDET001

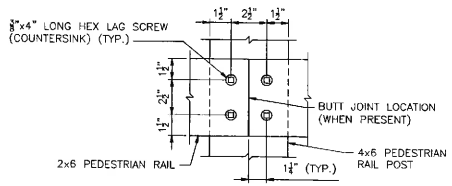
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	36	38



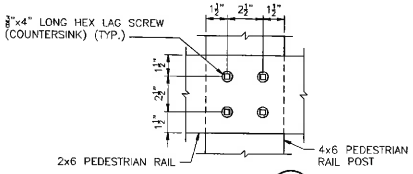
DETAIL 2/35
SCALE: 1-1/2"=1'-0"



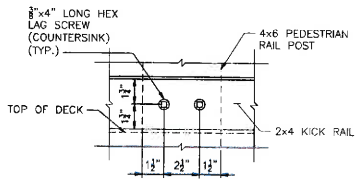
DETAIL 3/35
SCALE: 3"=1'-0"



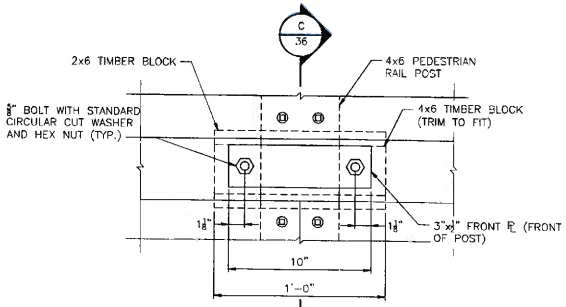
DETAIL 4/35
SCALE: 3"=1'-0"



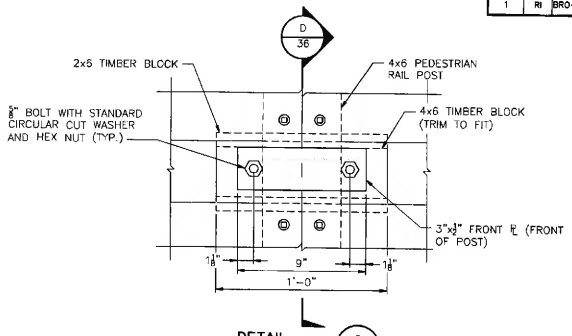
DETAIL 5/35
SCALE: 3"=1'-0"



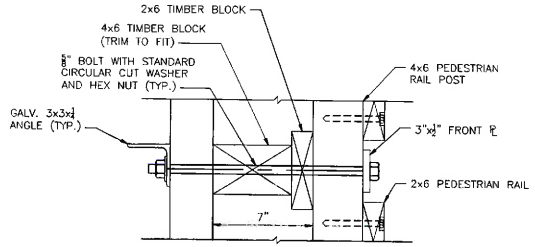
DETAIL 6/35
SCALE: 3"=1'-0"



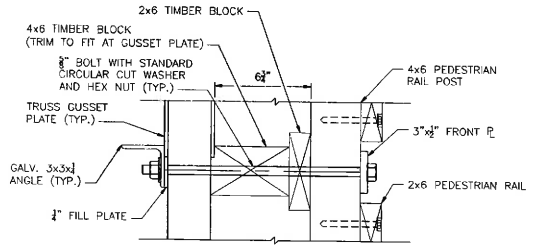
DETAIL 7/35
SCALE: 3"=1'-0"



DETAIL 8/35
SCALE: 3"=1'-0"



SECTION C/36
SCALE: 3"=1'-0"



SECTION D/36
SCALE: 3"=1'-0"

NOTES:

1. SEE NOTES ON BR. 083751 & 083851 BRIDGE RAIL DETAILS 1.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 36
OF: 38

SCALE:

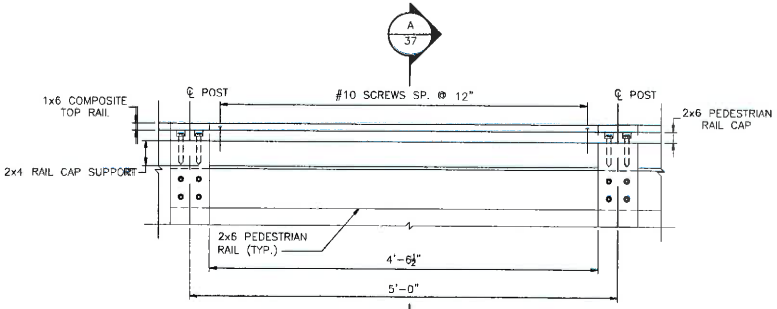
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 & BR. 083851 RAIL DETAILS 2

0188A_V2_036_RAILDET002

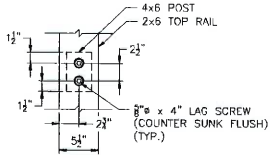
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	37	38



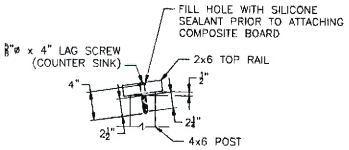
ELEVATION

TYPICAL RAIL CAP SUPPORT TO PEDESTRIAN RAIL CAP CONNECTION

SCALE: 1-1/2"=1'-0"



PLAN – NORMAL TO TOP RAIL

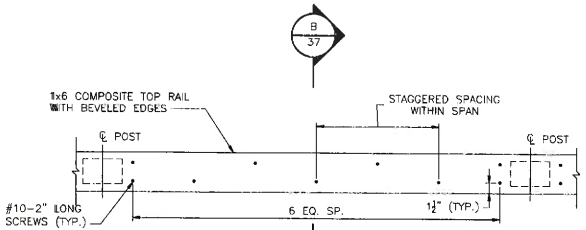


SECTION

NOTE: COMPOSITE TOP RAIL NOT SHOWN FOR CLARITY.

RAIL CAP CONNECTION AT RAILING POST

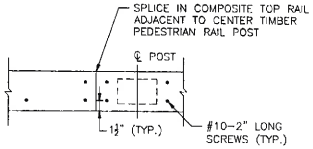
SCALE: 1-1/2" = 1'-0"



PLAN

TYPICAL COMPOSITE TOP RAIL TO PEDESTRIAN RAIL CAP CONNECTION

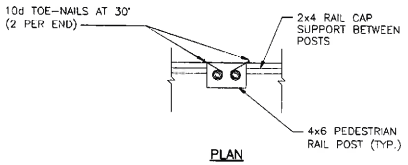
SCALE: 1-1/2"=1'-0"



PLAN

TYPICAL COMPOSITE TOP RAIL TO PEDESTRIAN RAIL CAP CONNECTION AT SPLICE LOCATION

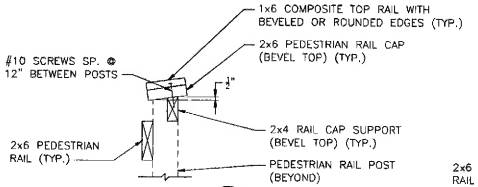
SCALE: 1-1/2"=1'-0"



PLAN

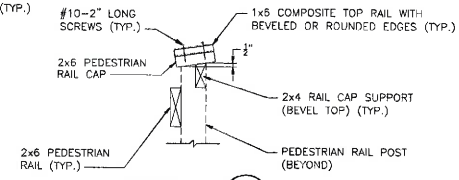
TYPICAL RAIL CAP SUPPORT TO RAIL CONNECTION

SCALE: 1-1/2"=1'-0"



SECTION A/37

SCALE: 1-1/2"=1'-0"



SECTION B/37

SCALE: 1-1/2"=1'-0"

NOTES:

1. SEE NOTES ON BR. 083751 & 083851 BRIDGE RAIL DETAILS 1.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SCALE:
CHECKED BY:	
DATE:	
SHEET: 37	
OF: 38	

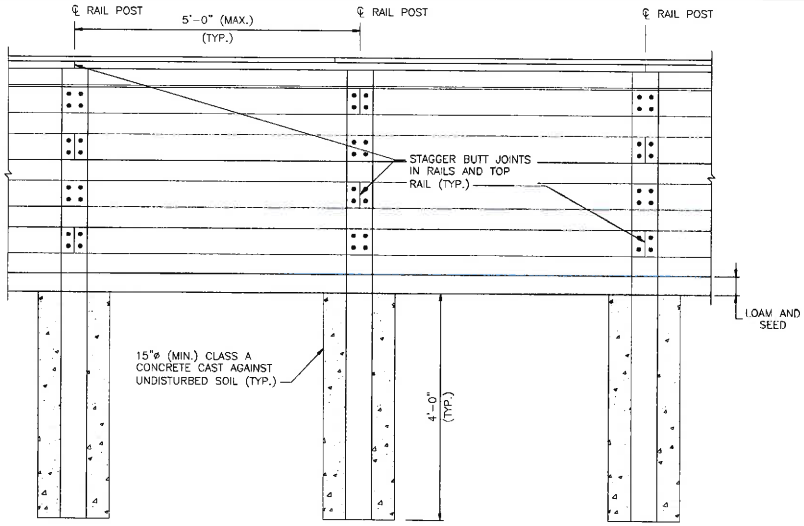
REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 & 083851 RAIL DETAILS 3

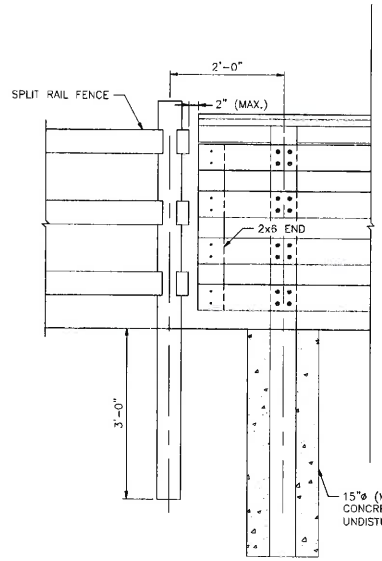
01BBA_V2_037_RAILDET003

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0838(002)	2022	38	38



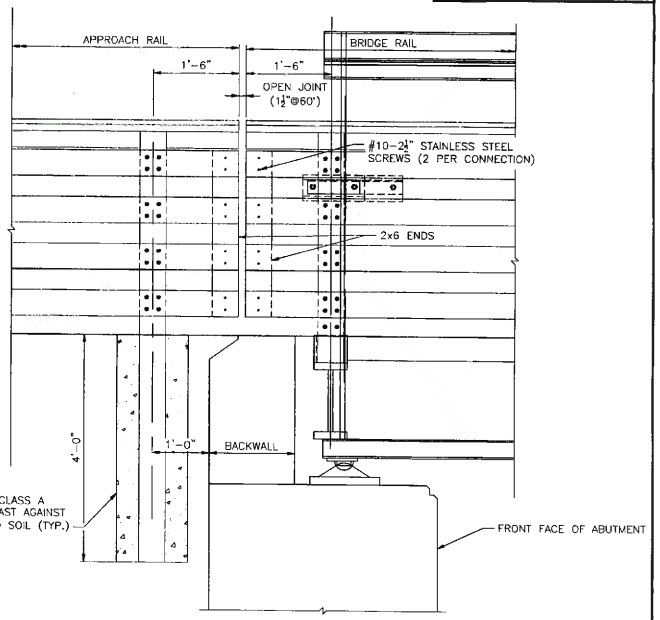
PEDESTRIAN BRIDGE APPROACH RAIL (PBAR) ELEVATION

SCALE: 1"=1'-0"



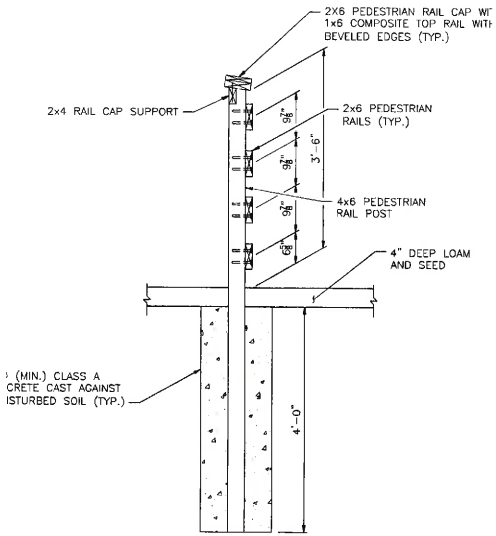
PEDESTRIAN RAIL TREATMENT AT SPLIT RAIL FENCE DETAIL

SCALE: 1"=1'-0"



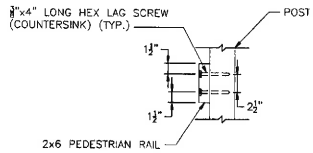
PEDESTRIAN RAIL TREATMENT AT ABUTMENT DETAIL

SCALE: 1"=1'-0"

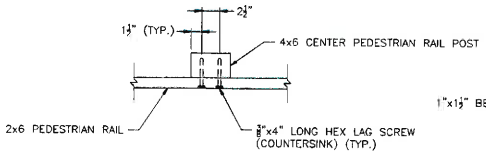


PEDESTRIAN BRIDGE APPROACH RAIL (PBAR) DETAIL

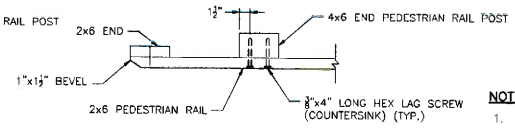
SCALE: 1"=1'-0"



SECTION AT RAILING POST CONNECTION



PLAN AT RAILING POST CONNECTION



PLAN AT END OF RAILING CONNECTION

TYPICAL RAIL CONNECTION DETAILS

SCALE: 1-1/2" = 1'-0"

NOTES:

1. WHERE POSTS ARE INSTALLED IN REINFORCED BACKFILL, POST LOCATIONS SHALL BE IDENTIFIED PRIOR TO INSTALLING GEOGRID AND REINFORCED BACKFILL. PROVIDE CUTOUTS IN GEOGRID AT POST LOCATIONS. GEOGRID SHALL NOT BE DAMAGED WHEN POST HOLES ARE EXCAVATED.
2. SEE ADDITIONAL NOTES ON BR. 083751 & 083851 BRIDGE RAIL DETAILS 1.

RECEIVED 2/7/2024 COASTAL RESOURCES MANAGEMENT COUNCIL

AETNA Bridge Company

vhb 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE:
SHEET: 38
OF: 38

SCALE:

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

EAST BAY BIKE PATH BRIDGE REPLACEMENT
(BARRINGTON RIVER AND WARREN BRIDGES)
BRIDGE NO. 083751 & 083851
ENVIRONMENTAL PERMITTING
BARRINGTON/WARREN RHODE ISLAND

BR. 083751 & 083851 RAIL DETAILS 4

018BA_V2_038_RAILDET004

CRMC Mailing List for Department of Transportation
CRMC File Number 2023-04-094

Department of Transportation Attn: Alisa Richardson 360 Lincoln Avenue Warwick, RI 02888 Alisa.Richardson@dot.ri.gov Erik.Johnston@dot.ri.gov Hamid.Akinfolarin@dot.ri.gov Anthony.pompei@dot.ri.gov	CRMC (2023-04-094) O. S. Government Center 4808 Tower Hill Road Wakefield, RI 02879 LTurner@crmc.ri.gov
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