FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	01	475

LIST OF VOLUMES

VOLUME 01 - HIGHWAY

VOLUME 02 - MAINTENANCE & PROTECTION OF TRAFFIC

VOLUME 03 - BRIDGE NO. 062001 PRESERVATION

VOLUME 04 - BRIDGE NO. 062151 REPLACEMENT

VOLUME 05 - BRIDGE NO. 062251 REPLACEMENT

VOLUME 06 - BRIDGE NO. 072851 REPLACEMENT

VOLUME 07 - BRIDGE NO. 072871 REPLACEMENT

VOLUME 08 - BRIDGE NO. 083151 REPLACEMENT

VOLUME 09 - BRIDGE NO. 135001 AND RETAINING WALLS

INDEX VOLUME 01

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3-4	STANDARD NOTES
5	JOB SPECIFIC NOTES AND LEGEND
6-15	KEY PLANS
16-31	MISCELLANEOUS DETAILS
32-43	TYPICAL SECTIONS
44-97	GENERAL PLANS
98-156	PROFILES
157-213	LOCATION PLANS
214-218	GRADING PLANS
219-250	DRAINAGE AND UTILITIES PLANS
251-252	DRAINAGE AND UTILITIES DETAILS
253-263	STORMWATER STU PLANS AND DETAILS
264	TRAFFIC LEGENDS AND NOTES
265-294	SIGNING & STRIPING PLANS
295-311	GUIDE SIGN DETAILS & SECTIONS
312-331	LIGHTING PLANS AND DETAILS
332-475	CROSS SECTIONS

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

PERMIT #23-0039

PLAN, PROFILE AND SECTIONS OF PROPOSED

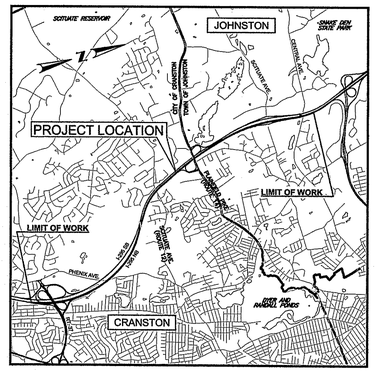
I-295 AND ROUTE 37 INTERCHANGE

BRIDGE GROUP 51B: RT 37 C-3

VOLUME 01: HIGHWAY

CITY OF CRANSTON, TOWN OF JOHNSTON
COUNTY OF PROVIDENCE
R.I. CONTRACT NO. 2021-DB-009
R.I. FAP NO. NHP-0037(014)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek



LOCATION MAP
1" = 5000'

RAMP WN DESIGN DESIGNATION	
AADT (2020)	14,535 V.P.D.
AADT (2055)	17,308 V.P.D.
D	0/100
K	8.4%
T	2.1%
DDHV	1,462 V.P.H.
DHV	1,462 V.P.D.
DESIGN SPEED	30 M.P.H.

I-295 DESIGN DESIGNATION	
AADT (2020)	83,964 V.P.D.
AADT (2055)	99,978 V.P.D.
D	52/48
K	9.0%
T	2.1%
DDHV	8,987 V.P.H.
DHV	4,692 V.P.D.
DESIGN SPEED	65 M.P.H.

RT. 37 DESIGN DESIGNATION	
AADT (2020)	36,542 V.P.D.
AADT (2055)	43,511 V.P.D.
D	54/46
K	7.2%
T	2.1%
DDHV	3,131 V.P.H.
DHV	1,697 V.P.D.
DESIGN SPEED	50 M.P.H.

RAMP A (RAMP EN)	
AADT (2020)	2,980 V.P.D
AADT (2055)	3,510 V.P.D
D	100/0
K	9.1%
T	2.1%
DDHV	272 V.P.H
DHV	272 V.P.D
DESIGN SPEED	25 M.P.H.

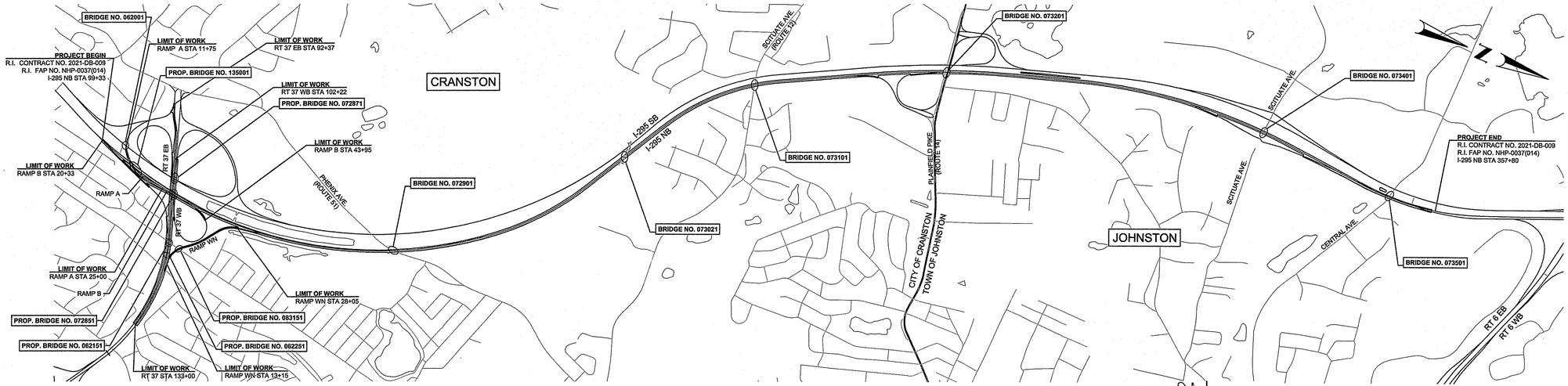
RAMP B	
AADT (2020)	-
AADT (2055)	-
D	-
K	-
T	-
DDHV	-
DHV	-
DESIGN SPEED	35 M.P.H.

PAVEMENT STRUCTURE 1-295 NB

1.5" FRICTION COURSE
1.5" CLASS 9.5 HMA
9" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE

PAVEMENT STRUCTURE RT.37 RAMP WN, RAMP A, RAMP B

1.5" FRICTION COURSE
1.5" CLASS 9.5 HMA
7" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE



HURRICANE EVACUATION ROUTE

THIS PROJECT INCLUDES WORK ON A DESIGNATED HURRICANE EVACUATION AND DIVERSIONARY ROUTE AS FOLLOWS:

- ROUTE 37 WESTBOUND
- ROUTE 37 EASTBOUND
- ROUTE I-295 NORTHBOUND
- ROUTE I-295 SOUTHBOUND

(REFER TO GENERAL NOTE NO. 18 ON SHEET NO. 3)

IFC DESIGN RESUBMISSION JUNE 2023

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

RI Environmental Management
JUL 19 2023
Office of Water Resources

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AMENDED MARCH 2018, 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.

SCALE OF DRAWINGS

PLANS	1" = 20'	
TYPICAL SECTIONS	1" = 4'	HORIZONTAL
TYPICAL SECTIONS	1" = 4'	VERTICAL
PROFILES	1" = 20'	HORIZONTAL
PROFILES	1" = 4'	VERTICAL
CROSS SECTIONS	1" = 10'	HORIZONTAL
CROSS SECTIONS	1" = 10'	VERTICAL

LAYOUT PLAN

SCALE: 1" = 1000'

I-295 NB - 4.9 MILES
RT. 37 - 0.8 MILES

BASE OF LEVELS

HORIZONTAL DATUM: RI STATE PLANE, NAD 83
VERTICAL DATUM: NAVD 88

JOSEPH J. SKYMBA
No. 8794
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/11/2023

Contract Number 2021-DB-009

Number of Sheet 01

Total Sheets 475

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/14/2023
SHEET:	01
OF:	475

SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

COVER SHEET

C:\PWWORKING\USRI\DMS01502\0051B_V1_01_COVER.DWG PER DPM 450.06

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3-4	STANDARD NOTES
5	JOB SPECIFIC NOTES AND LEGEND
6-8	MISCELLANEOUS DETAILS 1 -3
9-16	TYPICAL SECTION
17-20	GRADING PLANS 1 TO 4
21-57	DRAINAGE AND UTILITY (D&U) PLANS & DETAILS
58-70	STORMWATER TREATMENT UNIT (STU) DETAILS & PLANS

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

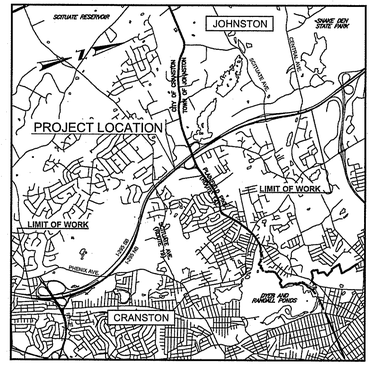
PLAN, PROFILE AND SECTIONS OF PROPOSED

I–295 AND ROUTE 37 INTERCHANGE

BRIDGE GROUP 51B: RT 37 C-3

PERMITTING VOLUME
(RIDEM PERMIT APPLICATION 23-0039)

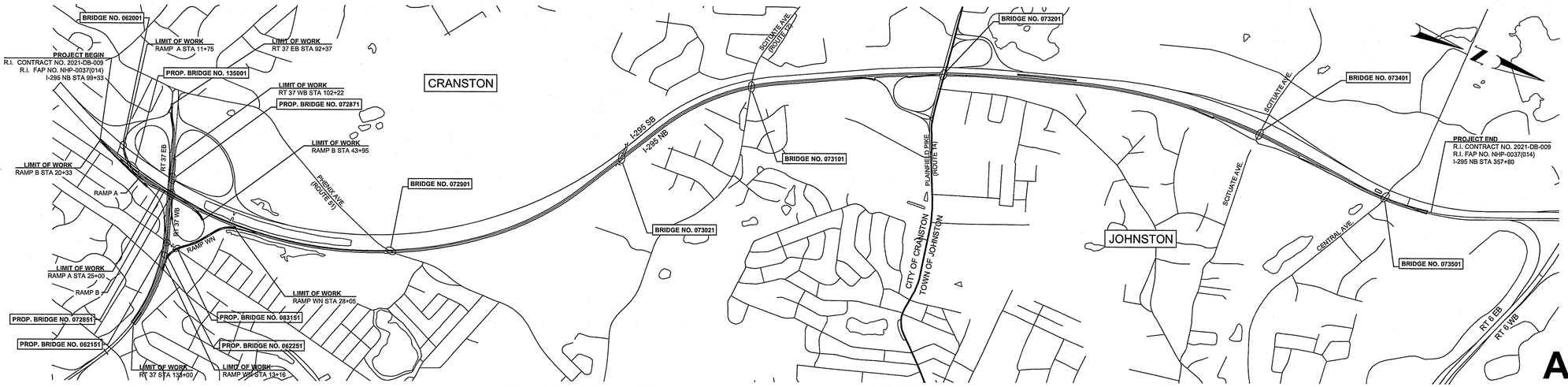
CITY OF CRANSTON, TOWN OF JOHNSTON
COUNTY OF PROVIDENCE
R.I. CONTRACT NO. 2021-DB-009
R.I. FAP NO. NHP-0037(014)



LOCATION MAP
1" = 5000'

PAVEMENT STRUCTURE 1-295 NB
1.5" FRICTION COURSE
1.5" CLASS 9.5 HMA
9" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE

PAVEMENT STRUCTURE RT.37 RAMP WN, RAMP A, RAMP B
1.5" FRICTION COURSE
1.5" CLASS 9.5 HMA
7" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE



LAYOUT PLAN
SCALE: 1" = 1000'

I-295 NB - 4.9 MILES
RT. 37 - 0.8 MILES

SCALE OF DRAWINGS

PLANS	1"	= 20'	
TYPICAL SECTIONS	1"	= 4'	HORIZONTAL
TYPICAL SECTIONS	1"	= 4'	VERTICAL
PROFILES	1"	= 20'	HORIZONTAL
PROFILES	1"	= 4'	VERTICAL
CROSS SECTIONS	1"	= 10'	HORIZONTAL
CROSS SECTIONS	1"	= 10'	VERTICAL

BASE OF LEVELS
HORIZONTAL DATUM: RI STATE PLANE, NAD 83
VERTICAL DATUM: NAVD 88

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

RI Environmental Management
JUN - 7 2023
Office of Water Resources

ATTACHMENT H

Contract Number 2021-DB-009
Number of Sheet 1
Total Sheets 466

FRESHWATER WETLANDS PERMIT APPLICATION DRAWINGS JUNE 2023

AETNA Aetna Bridge Company | AECOM | RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	1
OF:	466

SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND
COVER SHEET

C:\PWWORKING\USRI\DMS02032\01– FWWP APPLICATION COVER SHEET.DWG PER DPM 450.06

EXISTING

	EDGE OF PAVEMENT
	BERM
	CURB
	GUARDRAIL
MB	MAILBOX
NO.	UTILITY POLE
	POLE GUY
	LUMINARE
SIGN	SIGN
(SIZE)SD	SUBDRAIN
(SIZE)D	STORMDRAIN
(SIZE)S	SANITARY SEWER
(SIZE)W	WATER MAIN
(SIZE)G	GAS MAIN
(SIZE)T	TELEPHONE DUCT
(SIZE)E	ELECTRIC DUCT
	PLUG AND CAP PIPE
	ABANDONED UTILITY
	FLARED END SECTION
	HEADWALL
WG OR GG	WATER OR GAS GATE
CB	CATCH BASIN
MH	MANHOLE
HYD	HYDRANT
1+00	BASELINE OR CENTERLINE
EXIST. S.H.L. PLAT NO. XX	STATE HIGHWAY LINE
EXIST. S.F.L. PLAT NO. XX	STATE FREEWAY LINE
EXIST. P.E.B.	PERMANENT EASEMENT LINE
EXIST. T.E.B.	TEMPORARY EASEMENT LINE
P.	PROPERTY LINE
CITY NAME / TOWN NAME	CITY OR TOWN LINE
PWW	PAVED WATERWAY
ELEV.	CONTOUR LINE
	OPEN DITCH
R.I.H.B.	R.I. HIGHWAY BOUND
S.B.	STONE BOUND
	RETAINING WALL
	FIELD STONE WALL
NO.	BORINGS
TYPE	FENCE
	WOOD OR BRUSH LINE
	TREES
(NAME)	RIVER OR STREAM
	WETLAND AREA
NO. TYPE MATERIAL	BUILDING
	FOUNDATION
	BUILDING TO BE REMOVED
	RAILROAD TRACKS
	CUT AND MATCH
	RIP–RAP
	CUT SLOPE
	FILL SLOPE
	ROCK CUT
00x00	SPOT GRADE
	AREA GRADED TO DRAIN
	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 CLEARING

NEW

	EDGE OF PAVEMENT
	BERM
	CURB
	GUARDRAIL
	MAILBOX
NO.	UTILITY POLE
GUY	POLE GUY
	LUMINARE
	SIGN
N(SIZE)SD	SUBDRAIN
(Length Size)	STORMDRAIN
(Length Size)	SANITARY SEWER
N(SIZE)W	WATER MAIN
N(SIZE)G	GAS MAIN
N–#(SIZE)T	TELEPHONE DUCT
N–#(SIZE)E	ELECTRIC DUCT
	PLUG AND CAP PIPE
	ABANDONED UTILITY
	FLARED END SECTION
	HEADWALL
	WATER OR GAS GATE
	CATCH BASIN
	MANHOLE
	HYDRANT
1+00	BASELINE OR CENTERLINE
NEW S.H.L. PLAT NO. XX	STATE HIGHWAY LINE
NEW S.F.L. PLAT NO. XX	STATE FREEWAY LINE
NEW P.E.B.	PERMANENT EASEMENT LINE
NEW T.E.B.	TEMPORARY EASEMENT LINE
	PROPERTY LINE
	CITY OR TOWN LINE
	PAVED WATERWAY
ELEV.	CONTOUR LINE
	OPEN DITCH
	R.I. HIGHWAY BOUND
	STONE BOUND
	RETAINING WALL
	FIELD STONE WALL
NO.	BORINGS
	FENCE
	WOOD OR BRUSH LINE
	TREES
	RIVER OR STREAM
	WETLAND AREA
	BUILDING
	FOUNDATION
	BUILDING TO BE REMOVED
	RAILROAD TRACKS
	CUT AND MATCH
	RIP–RAP
ROADWAY / TOP OF SLOPE	CUT SLOPE
ROADWAY / TOE OF SLOPE	FILL SLOPE
ROCK SHELF / ROCK CUT	ROCK CUT
00.00	SPOT GRADE
	AREA GRADED TO DRAIN
	BALED HAY RI STD 9.1.0
	BALED HAY & SILT FENCE RI STD. 9.3.0
	EDGE OF WETLAND
	WETLAND PERIMETER
	AREA SUBJECT TO STORM FLOW
	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 6'–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)
7.3.1	3'–0" GRANITE TRANSITION CURB
7.3.2	6'–0" GRANITE TRANSITION CURB
7.3.3	GRANITE WHEELCHAIR RAMP TRANSITION CURB
7.3.4	GRANITE 2'–0" RADIUS CORNER
7.3.5	GRANITE INLET STONE (FOR SQUARE CATCH BASIN)
7.3.6	GRANITE INLET STONE (FOR ROUND CATCH BASIN)
7.3.7	GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
7.3.8	GRANITE APRON STONE (FOR ROUND CATCH BASIN)
7.4.0	GRANITE SLOPED FACE CURB
7.4.1	GRANITE SLOPED FACE TRANSITION CURB
7.4.2	GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
7.5.0	BITUMINOUS CONCRETE LIP CURB
7.5.1A	BITUMINOUS BERM (CONSTRUCTION METHOD A)
7.5.1B	BITUMINOUS BERM (CONSTRUCTION METHOD B)
7.6.0	CURB SETTING DETAIL
8.2.0	BITUMINOUS CONCRETE DITCH
8.3.0	RIP–RAP DITCH
8.4.0	PAVED WATERWAY
9.1.0	BALED HAY EROSION CHECK
9.2.0	SILT FENCE DETAIL
9.3.0	BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
9.4.0	BALED HAY DITCH AND SWALE EROSION CHECK
9.5.0	LOG AND HAY CHECK DAM
9.7.0	DEWATERING BASIN
9.8.0	BALED HAY CATCH BASIN INLET PROTECTION
9.9.0	CONSTRUCTION ACCESS
10.1.0	WET STONE MASONRY RETAINING WALL
10.2.0	RUBBLE MASONRY WALL
10.3.0	CONCRETE RETAINING WALL
10.4.0	STONE MASONRY STEPS
14.1.0	CONCRETE HIGHWAY BOUND
15.1.0	POST AND MOUNTINGS FOR RURAL MAILBOX
15.2.0 (NO.)	POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
18.2.0	PRECAST TYPE "A" HANDHOLE
18.2.2	HEAVY DUTY TYPE "H" HANDHOLE
18.3.0	ALUMINUM LIGHTING STANDARDS
20.2.0	BI–DIRECTIONAL CONTROL DEVICE
24.6.1	STREET SIGN MOUNTING DETAIL
26.2.0	POLYETHYLENE DRUM WITH MARKINGS
26.3.0	PVC PLASTIC PIPE TYPE III BARRICADE
31.1.0	CHAIN LINK FENCE 3'–0" TO 4'–0"
31.2.0	CHAIN LINK FENCE 5'–0" TO 6'–0"
31.2.1	CHAIN LINK FENCE 5'–0" TO 6'–0" INTERMEDIATE POST
31.3.0	WOVEN WIRE RIGHT–OF–WAY FENCE (STEEL POST)
34.1.0	TYPICAL GUARDRAIL INSTALLATION
34.2.0	STEEL BEAM GUARDRAIL
34.2.1	STEEL BEAM GUARDRAIL DETAILS
34.2.2	STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
34.2.3	STEEL BEAM GUARDRAIL FIXTURES
34.2.5	STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
34.3.1	GUARDRAIL END SECTION
34.3.2	TERMINAL END SECTION (SINGLE FACE)
34.3.3	ANCHORAGE DETAILS APPROACH END SECTION
34.3.4	ANCHORAGE DETAILS TRAILING END SECTION
34.4.0	STEEL BACKED TIMBER GUARDRAIL
34.4.1	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION–TYPE 1
40.1.0	DOUBLE–FACED PRECAST MEDIAN BARRIER
40.2.0	SINGLE–FACED PRECAST MEDIAN BARRIER
40.2.1	SINGLE–FACED PRECAST MEDIAN BARRIER
40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT
~~40.5.0~~	~~PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL~~
43.1.0	CEMENT CONCRETE SIDEWALK
43.2.0	BITUMINOUS CONCRETE SIDEWALK
43.3.0	WHEELCHAIR RAMP
43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT–OF–WAY AREAS
43.4.0	DRIVEWAY DEVELOPMENT FOR 3'–0" TRANSITION CURB
43.4.1	DRIVEWAY DEVELOPMENT FOR 6'–0" TRANSITION CURB
43.5.0	CEMENT CONCRETE DRIVEWAYS
48.1.0	DETECTABLE WARNING SYSTEM
51.1.0	TREE PROTECTION DEVICE
51.1.1	DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
51.2.0	SHRUB PROTECTION DEVICE
51.3.0	TREE WELL
51.4.0	TREE WALL

AB	ADJUST CATCH BASIN TO GRADE
ABM	ADJUST CATCH BASIN TO MANHOLE
AC	ADJUST CURB STOP TO GRADE
AD	ADJUST DRAINAGE MANHOLE TO GRADE
AE	ADJUST ELECTRIC MANHOLE TO GRADE
AFC	ADJUST FRAME AND COVER TO GRADE
AFG	ADJUST FRAME AND GRATE TO GRADE
AG	ADJUST GAS GATE BOX TO GRADE
AHH	ADJUST HANDHOLE TO GRADE
AS	ADJUST SANITARY SEWER MANHOLE TO GRADE
AT	ADJUST TELEPHONE MANHOLE TO GRADE
AW	ADJUST WATER GATE BOX TO GRADE
BCD	BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE I–2 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

RI Environmental Management
JUN - 7 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 **FILE #:** 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

Aetna Bridge Company | AECOM | RHODE ISLAND DEPARTMENT OF TRANSPORTATION | RI DOT

DESIGNED BY: –
CHECKED BY: –
DATE: –
SHEET: 02
OF: 449

SCALE: NONE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

STANDARD PLAN SYMBOLS & STANDARD LEGEND

C:\PWWORKING\USRI\DMS01502\0051B_V1_02_STDSYM.DWG PER DPM 450.06

GENERAL NOTES:

1. ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, 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 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
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 AS DIRECTED BY THE ENGINEER.
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 3 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 PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."
8. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST 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 HIS 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 WITH THE PERMISSION OF THE ENGINEER.
9. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR 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.
11. PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
12. THE COORDINATE SYSTEM IS THE R.I. STANDARD GRID SYSTEM, NAD 83. THE VERTICAL CONTROL IS NGVD 29.
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 THE SATISFACTION OF THE ENGINEER 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 EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT 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).
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 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. FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE. R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE 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. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
2. NO UNDISTURBED AREAS SHALL BE CLEARED 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 ERODABLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
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, THEY 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. OFFICE OF ENVIRONMENTAL PROGRAMS.
5. JUTE MESH 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 DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR 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 PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
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 DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
11. CATCH BASIN RIM GRADES 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 BE KEPT TO A MINIMUM.
   a. ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
   b. NO HEAVY EQUIPMENT MAY ENCROACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
13. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. 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 HAY 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 HAY 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 ELIMINATED, FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. 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 REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY 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 HAY 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 HE 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. ADDITIONAL EROSION CONTROLS, SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

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 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.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

RI Environmental Management
JUN 7 2023
Office of Water Resources

Aetna Bridge Company | AECOM | RI DOT | RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	---
CHECKED BY:	---
DATE:	01/30/2023
SHEET:	03
OF:	449

SCALE: NONE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STANDARD NOTES NO. 1

C:\PWWORKING\USRI\DMS01502\0051B_V1_03_STDNOTE01.DWG PER DPM 450.06

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. A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE 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.

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, OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (THE "SPECIFICATIONS"), 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.
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"Hx44"Wx24"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. A BARE 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 SHALL BE 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"x18") 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 NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
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 30' 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. WATERBORNE 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.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencer

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company | AECOM | RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: –
CHECKED BY: –
DATE: 01/30/2023
SHEET: 04
OF: 449

SCALE: NONE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STANDARD NOTES NO. 2

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JOB SPECIFIC LEGEND

1.3.0M	MODIFIED CONCRETE CONNECTING COLLAR (SEE DRAINAGE AND UTILITIES DETAILS)
4.7.2	ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS
6.2.1M	BOLTED HEAVY-DUTY ROUND FRAME AND COVER
7.2.1M	3'-0" PRECAST CONCRETE SLOPED FACE TRANSITION CURB
ABP	ABANDON EXISTING PIPE
CFS	COMPOST FILTER SOCK 12" DIAMETER
CFSF1	CONCRETE F-SHAPE SINGLE FACE PRECAST BARRIER
CFSF2	CONCRETE F-SHAPE SINGLE FACE PRECAST BARRIER WITH CONCRETE SLAB
CFBB	CONCRETE F-SHAPE TRANSITION PRECAST BARRIER DOUBLE FACE MEDIAN BARRIER TO BRIDGE MEDIAN BARRIER
CFTB1	CONCRETE F-SHAPE TRANSITION PRECAST BARRIER DOUBLE FACE MEDIAN BARRIER TO RI STD 40.1.0
CFTB2	CONCRETE F-SHAPE TRANSITION CAST-IN-PLACE BARRIER - HEIGHT TRANSITION (42" TO 3")
CFMB	CONCRETE F-SHAPE PRECAST MEDIAN BARRIER
CFMLS	CONCRETE F-SHAPE PRECAST MEDIAN BARRIER FOR LIGHT STANDARD
DIA	REMOVE AND DISPOSE IMPACT ATTENUATOR
DT	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (ITEM CODE 201.0301 OR 201.0302)
ECB	EROSION CONTROL BLANKET
ETEA	GUARDRAIL END TREATMENT - ENERGY ABSORBING TANGENTIAL TERMINAL, TL-3
ETMT	GUARDRAIL END TREATMENT - ENERGY ABSORBING MEDIAN TERMINAL, TL-3
ETR	EXISTING TO REMAIN
GLC	GRASS-LINED CHANNEL
GTBE	GUARDRAIL TRANSITION TO BRIDGE END POST (SINGLE FACED)
GTAT	W-BEAM GUARDRAIL ATTACHED TO F-SHAPE BARRIER OR PARAPET - APPROACHING END SECTION
GTBT	W-BEAM GUARDRAIL ATTACHED TO F-SHAPE BARRIER OR PARAPET - TRAILING END SECTION
GTEA	GUARDRAIL END TREATMENT - TRAILING ANCHORAGE
ISCD	INLET SEDIMENT CONTROL DEVICE
ME	MATCH EXISTING
MO-1	MILLING AND PAVEMENT OVERLAY 1¾" PAVEMENT MILLING 1¾" FRICTION COURSE
MO-2	MICROMILLING AND PAVEMENT OVERLAY 1½" PAVEMENT MICROMILLING 1½" FRICTION COURSE
MSBG	MASH COMPLIANT STEEL BEAM GUARDRAIL, TL-3
OHSS	OVERHEAD SIGN STRUCTURE
P-1	FULL DEPTH PAVEMENT 1½" FRICTION COURSE 1½" MODIFIED CLASS 9.5 HMA 9" CLASS 19.0 HMA WITH PAY ADJUSTMENTS 12" GRAVEL BORROW SUBBASE
P-2	FULL DEPTH PAVEMENT 1½" FRICTION COURSE 1½" MODIFIED CLASS 9.5 HMA 7" CLASS 19.0 HMA WITH PAY ADJUSTMENTS 12" GRAVEL BORROW SUBBASE
P-3	FULL DEPTH PAVEMENT 1½" FRICTION COURSE 1½" MODIFIED CLASS 9.5 HMA 7" CLASS XX CONCRETE 12" GRAVEL BORROW SUBBASE
PMM	PAVEMENT MILLINGS MULCH
PT-1	PAVEMENT TRANSITION - FULL DEPTH TO MILL OR MICROMILL AND OVERLAY (SEE MISC. DETAIL SHEET NO. 1)
PT-2	PAVEMENT TRANSITION - MICROMILLING TO EXISTING PAVEMENT (SEE MISC. DETAIL SHEET NO. 1)
RCC	REBUILD CATCH BASIN/MANHOLE CORBEL CONE
RCVW	RECONSTRUCT CATCH BASIN VERTICAL WALL
RDRW	REMOVE AND DISPOSE RETAINING WALL
ROP	RIPRAP OUTLET PROTECTION
RRLS	REMOVE AND RESET LIGHT STANDARD ON NEW CONCRETE LIGHT STANDARD BASE
RW-#	RETAINING WALL - NUMBER
SC-1	FULL DEPTH SAWCUT OF BITUMINOUS CONCRETE
SC-2	SAWCUT AND MATCH EXISTING
TEG	TIE INTO EXISTING GUARDRAIL
TRM	TURF REINFORCEMENT MATTING

JOB SPECIFIC PLAN SYMBOLS

EXISTING / NEW

- WETLAND EDGE (NOT FLAGGED)
- RIVER OR POND EDGE (NOT FLAGGED)
- 200-FOOT RIVERBANK
- EDGE OF MARSH
- COMPOST FILTER SOCKS
- RIPRAP OUTLET PROTECTION
- ENERGY ABSORBING TREATMENT FOR GUARDRAIL, TL3
- GUARDRAIL END TREATMENT - TRAILING ANCHORAGE
- GUARDRAIL TRANSITION TO BRIDGE END POST (SINGLE FACED)
- W-BEAM GUARDRAIL ATTACHED TO F-SHAPE BARRIER OR PARAPET - APPROACHING END SECTION
- ENERGY ABSORBING MEDIAN TERMINAL
- METAL BEAM GUARDRAIL STEEL POST WITH W-BEAM OFFSET BLOCK (SINGLE FACE)
- CONCRETE MEDIAN BARRIER (SECTION VIEW)
- METAL BEAM GUARDRAIL (SECTION VIEW)
- PROPOSED MILLING AND PAVEMENT OVERLAY

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JOB SPECIFIC GENERAL NOTES

1. ALL ITEMS NOT REFERENCED FOR MODIFICATION ON THE PLANS OR IN THE CONTRACT DOCUMENTS WILL BE "EXISTING TO REMAIN" (ETR) UNLESS OTHERWISE DIRECTED BY THE OWNER REPRESENTATIVE.
2. ALL EQUIPMENT AND MATERIALS SHALL BE PLACED AN ADEQUATE DISTANCE (AS DETERMINED BY THE OWNER'S REPRESENTATIVE) FROM THE ROADWAY TO AVOID INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC SO AS NOT TO CAUSE A SAFETY HAZARD. ALL WORKZONES SHALL BE BEHIND BARRIERS AS SHOWN ON THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS.
3. THE DB ENTITY SHALL EXERCISE CARE WHEN WORKING IN THE AREA OF EXISTING HIGHWAY BOUNDS. ANY HIGHWAY BOUNDS DISTURBED OR DESTROYED AS A RESULT OF THE DB ENTITY'S ACTIONS SHALL BE RESET OR REPLACED BY THE DB ENTITY AND IN CONFORMANCE WITH SECTION 915. OF THE R.I. STANDARD SPECIFICATIONS.
4. THE DB ENTITY SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO BUILDINGS, WALLS, FENCES, AND WALKS THAT ARE ABUTTING SIDEWALKS AND DRIVEWAYS DESIGNATED FOR CONSTRUCTION OR REPLACEMENT. WHERE INDICATED OR DIRECTED, NEW SIDEWALKS SHALL MEET SAID BUILDINGS, WALLS, AND FENCES UNLESS OTHERWISE SPECIFIED.
5. THE DB ENTITY 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 DB ENTITY'S NEGLIGENCE WILL BE FIXED AT THEIR OWN EXPENSE.
6. THE DB ENTITY SHALL AVOID IMPACTS TO EXISTING TREES EXCEPT WHERE NOTED TO BE CUT AND DISPOSED. USE RIDOT STANDARD TREE PROTECTION DEVICES FOR TREES SUBJECT TO POTENTIAL IMPACTS FROM NEARBY CONSTRUCTION ACTIVITIES.
7. THE DB ENTITY SHALL PROVIDE INLET SEDIMENT CONTROL DEVICES (ISCD) AT ALL CATCH BASINS IN PAVED AREAS THAT RECEIVES STORMWATER FLOW FROM CONSTRUCTION ACTIVITIES AND WHENEVER THE PAVEMENT SUBBASE IS EXPOSED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. INLET SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
8. ACCESS POINTS TO PERMEABLE SURFACES AND ACCESS POINTS AT AREAS SUBJECT TO EROSION SHALL BE STABILIZED TO AVOID DAMAGE TO THE GROUND AND EXCESSIVE COMPACTION. CONFER WITH RIDOT AND THE OWNER'S REPRESENTATIVE REGARDING WHICH STABILIZATION METHOD SHOULD BE REMOVED AT THE END OF THE CONSTRUCTION DURATION.
9. THE DB ENTITY SHALL NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF ANY TREES OR SHRUBS THAT ARE TO REMAIN.
10. THE DB ENTITY IS SOLELY RESPONSIBLE FOR PROTECTING FRESHLY PLACED CONCRETE SIDEWALKS FROM DAMAGE UNTIL THE CONCRETE HAS CURED SUFFICIENTLY. COSTS TO REPLACE DAMAGE TO FRESHLY PLACED CONCRETE WILL BE THE DB ENTITY'S RESPONSIBILITY.
11. ANY SIDEWALK, ROADWAY, MULTI-USE TRAILS OR DRIVEWAYS DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED IN KIND BY THE DB ENTITY AT NO ADDITIONAL COST.
12. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE.
13. THE DB ENTITY SHALL NOTIFY IN WRITING ALL PROPERTY OWNERS ABUTTING THE SIDEWALK WORK 48 HOURS PRIOR TO COMMENCING WORK.
14. ALL PROPOSED GUARDRAIL AND IMPACT DEVICES SHALL CONFORM TO THE MANUAL FOR ASSESSING SAFETY HARDWARE 2016 (M.A.S.H.) REQUIREMENTS AND AS DETAILED ON CONTRACT PLANS.
15. 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 4" PLANTABLE SOIL AND SEED.
16. EXISTING BITUMINOUS PAVED WATERWAYS IN PROPOSED MILL AND OVERLAY PAVEMENT LOCATIONS ARE TO REMAIN.
17. ON RAMP B, FROM STA. 38+00 TO STA 39+00, THE PRECAST MEDIAN BARRIER SHALL BE CAST WITH GLASS FIBER REINFORCED POLYMER (GRFP) REBAR AND THE DB ENTITY SHALL SUBMIT DETAILS FOR APPROVAL.
18. STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATORS (R.I. STD. 34.2.5) SHALL BE FURNISHED AND INSTALLED ON ALL NEW GUARDRAIL INSTALLATIONS AT 37'-6" SPACING.
19. NO LONGITUDINAL DROP-OFFS WILL BE ALLOWED TO REMAIN BETWEEN LANES DURING NON-CONSTRUCTION HOURS. THE CONTRACTOR SHALL SCHEDULE THE MICROMILLING OPERATIONS TO PROVIDE A CONSISTENT FULL-WIDTH PAVEMENT SURFACE AT THE END OF THE WORK DAY.
20. PAVING MATERIALS WILL BE TEMPORARILY STOCKPILED IN APPROVED AREAS.
21. FOR GRANITE CURB INSTALLATIONS, THE CONTRACTOR MAY ALTERNATIVELY REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT (ALL TYPES) WHERE FEASIBLE AND APPROVED BY THE OWNER'S REPRESENTATIVE. NEW CURB TO BE INSTALLED WHERE THE AMOUNT OF EXISTING CURB BECOMES INSUFFICIENT. THE WORK SHALL CONFORM TO SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
22. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160' OR LESS. STRAIGHT CURB SHALL BE USED ON CURVES WITH RADII GREATER THAN 160'.
23. DOUBLE NESTED GUARDRAIL AND ELIMINATION OF GUARDRAIL POSTS SHALL BE INSTALLED WHERE GUARDRAIL POSTS INTERFERE WITH UNDERGROUND DRAINAGE PIPES AND UTILITIES OR OTHER CONCRETE STRUCTURES.
24. NEW GUARDRAIL RUNS WITH APPROACH END TERMINALS AND TRAILING END SECTIONS SHALL HAVE RED AND GREEN DELINEATORS INSTALLED PER THE DETAIL SHOWN ON MISCELLANEOUS DETAIL SHEET NO. 10.
25. ALL CONCRETE BARRIER IS TO BE FIELD COATED AFTER FINAL INSTALLATION WITH A CONCRETE PENETRATE/SEALER. CONCRETE SHALL CURE NOT LESS THAN 28 DAYS PRIOR TO COATING.

JOB SPECIFIC DRAINAGE AND UTILITY NOTES

1. ALL REINFORCED CONCRETE PIPE SHALL BE AASHTO. CLASS III WITH MORTAR JOINTS UNLESS OTHERWISE NOTED.
2. ALL EXISTING DRAIN PIPES, CATCH BASINS, AND DRAIN MANHOLES TO REMAIN WITHIN THE PROJECT LIMITS ARE TO BE CLEANED AS NEEDED IN ACCORDANCE WITH THE R.I. STANDARD SPECIFICATIONS.
3. ALL CLEANING AND FLUSHING OF PIPE SHALL BE COMPLETED PRIOR TO CLEANING CATCH BASINS OR MANHOLES.
4. SANITARY SEWER, GAS, WATER AND OTHER UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. WHERE APPLICABLE, DB ENTITY TO FIELD VERIFY ELEVATIONS OF EXISTING UTILITIES TO REMAIN AND PROVIDE ADEQUATE COVER.
6. UNLESS NOTED OTHERWISE, ALL EXISTING HIGHWAY LIGHTING AND APPURTENANCES (HANDHOLES, CONDUIT, ETC.) ARE TO REMAIN.
7. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER, SANITARY, CABLE TELEVISION, ETC.) ARE SHOWN. DB ENTITY IS TO ASSUME THAT OTHER SERVICES ARE PRESENT TO ALL BUILDINGS. LOCATIONS OF THE SERVICES WILL BE CHECKED BY THE DB ENTITY WITH THE APPROPRIATE UTILITY COMPANIES.
8. 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 OWNERS REPRESENTATIVE.
9. IN AREAS WHERE EXISTING GRANITE APRON AND/OR INLET STONES ARE TO REMAIN, THE MINIMUM GUTTER OPENING PER THE R.I. STANDARD DETAILS MUST BE OBTAINED AND MAINTAINED.
10. ONLY NON-MECHANICAL MEANS OF EXCAVATION SHALL BE USED IN AREAS ADJACENT TO UNDERGROUND UTILITIES UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
11. 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 DB ENTITY, AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.

JOB SPECIFIC EROSION CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE PUT IN PLACE PRIOR TO COMMENCING WORK.
2. FOR FILL SLOPES BETWEEN 1:4 AND 1:3, INSTALL AN EROSION CONTROL BLANKET FOR SLOPE PROTECTION. FOR FILL SLOPES BETWEEN 1:3 AND 1:2, INSTALL A TURF REINFORCEMENT MATTING FOR SLOPE PROTECTION. SEE MISCELLANEOUS DETAILS SHEET NO. 2 FOR MORE INFORMATION.
3. COMPOST FILTER SOCKS SHALL BE INSTALLED, IN LIEU OF R.I. STD. 9.8.0 BALED HAY INLET PROTECTION, AROUND AT ALL CATCH BASINS IN VEGETATED AREAS AND DRAINAGE SWALES SUBJECT TO STORMWATER FLOW FROM CONSTRUCTION ACTIVITIES.
4. 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 OWNER'S REPRESENTATIVE.
5. CONCRETE WASHOUT DISCHARGED INTO DRAINAGE SYSTEMS IS PROHIBITED. THE DB ENTITY MUST PROVIDE A DESIGNATED CONCRETE WASHOUT AREA.

JOB SPECIFIC LIGHTING NOTES

1. ALL EXISTING HIGHWAY LUMINAIRES SHALL BE UPGRADED TO LED, MEETING CURRENT STATE REQUIREMENTS.
2. EXISTING HIGHWAY LIGHTING SHALL BE REMOVED AND RESET, AS NEEDED, TO CONSTRUCT THE PROJECT ACCORDING TO THE FINAL APPROVED PLANS.
3. ANY LIGHT STANDARDS AND/OR LUMINARIES DAMAGED BY THE DB ENTITY DURING CONSTRUCTION SHALL BE REPLACED, AT NO COST TO THE STATE.
4. NEW OVERHEAD LIGHTING IS REQUIRED ON THE FLYOVER RAMP FOR ROUTE 37 EB TO I-295 NB. ADDITIONALLY, NEW UNDER-BRIDGE LIGHTING IS REQUIRED UNDER BRIDGE NO. 062251. THE DB ENTITY SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL NEW LIGHTING AND ELECTRICAL SYSTEMS IN COMPLIANCE WITH RIDOT STANDARD SPECIFICATIONS AND STANDARDS, AND THE NATIONAL ELECTRICAL CODE.
5. THE DB ENTITY SHALL BE RESPONSIBLE FOR ALL CALCULATIONS REQUIRED TO DETERMINE THE APPROPRIATE NUMBER, SPACING, MOUNTING HEIGHT, ETC. OF THE LIGHTING FOR THE LOCATIONS MENTIONED ABOVE IN NOTE NO. 4.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

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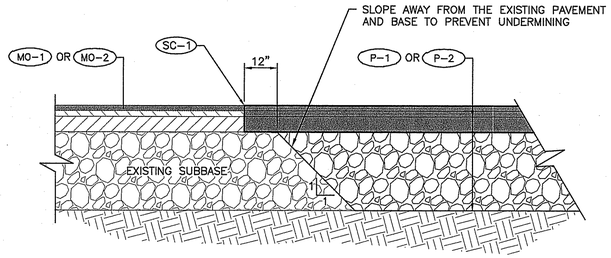
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

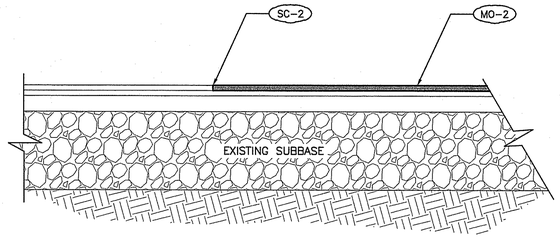
JOB SPECIFIC NOTES AND LEGEND

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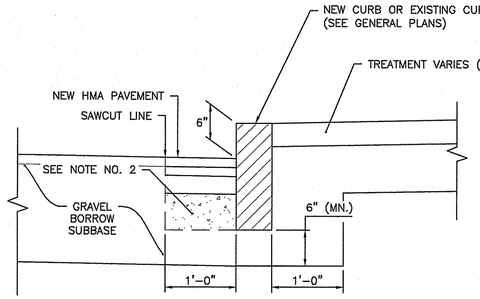
PAVEMENT TRANSITION - FULL DEPTH TO MILL OR MICROMILL AND OVERLAY (PT-1)

NOT TO SCALE



PAVEMENT TRANSITION - MIRCOMILLING TO EXISTING PAVEMENT (PT-2)

NOT TO SCALE

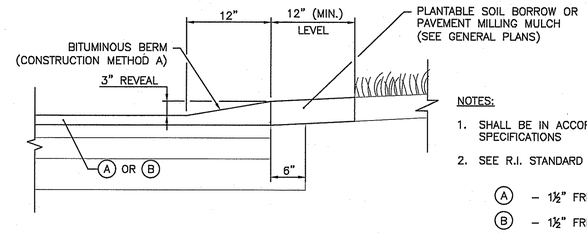


CURB SETTING DETAIL

NOT TO SCALE

CURB SETTING NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE PAVEMENT BASE COURSE IS IN PLACE, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO THE BOTTOM OF THE BASE COURSE.



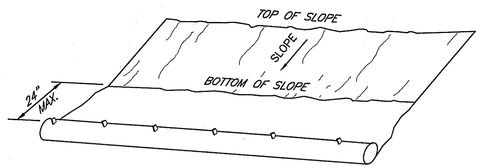
NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS
2. SEE R.I. STANDARD 7.5.1 FOR CONSTRUCTION METHOD A DETAILS.

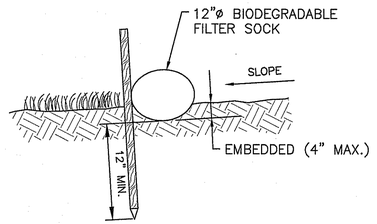
(A) – 1½" FRICTION COURSE (ROUTE 37 AND RAMPS)
(B) – 1½" FRICTION COURSE (I-295 NB)

BITUMINOUS BERM CLASS I-1 (7.5.1A)

NOT TO SCALE



PERSPECTIVE VIEW



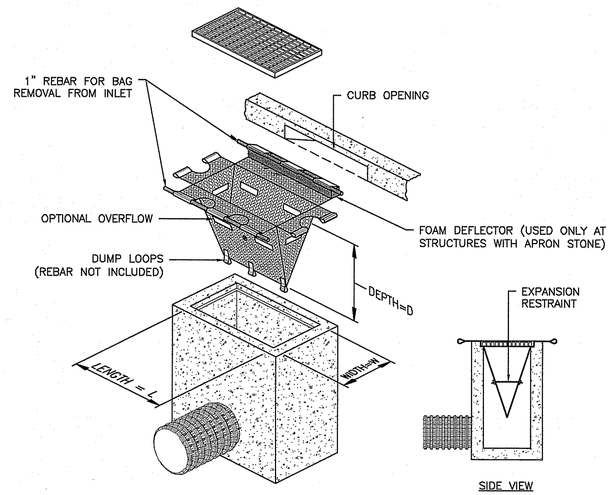
SECTION VIEW

NOTES:

1. FILTER SOCKS SHALL BE INSTALLED WHERE INDICATED ON THE GENERAL PLANS AND SHALL BE CONSTRUCTED OF 100% BIODEGRADABLE MATERIAL. A ROW OF FILTER SOCKS (WEIGHTED DOWN AND NOT STAKED) SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS UTILIZED BY THE CONTRACTOR DURING CONSTRUCTION.
2. FILTER SOCKS SHALL BE TRENCHED APPROXIMATELY 4 INCHES AND STAKED SUCH THAT FILTER SOCKS DIRECTLY CONTACT SOIL AND PRECLUDE UNDERMINING OR BLOWOUTS. THE TRENCH SHALL BE APPROXIMATELY 9 INCHES WIDE. UNLESS SHOWN OTHERWISE, STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE COIR ROLL AT A SPACING OF 3-4 FEET ON CENTER AND NO GREATER THAN 6" FROM THE EACH END OF THE FILTER SOCKS. STAKES SHALL BE 1"x1" WOODEN STAKES WITH A LENGTH OF 18-24 INCHES. COMPACT SOIL EXCAVATED TO CREATE TRENCH ON UPHILL SIDE.
3. ENDS OF ADJACENT FILTER SOCKS SHALL BE TIGHTLY BUTTED OR OVERLAPPED SO THAT NO OPENING EXISTS FOR WATER TO PASS THROUGH. FILTER SOCKS SHALL BE FREE OF DAMAGE OR DEFECTS WHEN DELIVERED TO THE SITE. NO VEHICLES SHALL BE DRIVEN OVER FILTER SOCKS.

COMPOST FILTER SOCK DETAIL (CFS)

NOT TO SCALE



SIDE VIEW

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 (ISCD)

NOT TO SCALE

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Aetna Bridge Company | AECOM | RI DOT — RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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DATE: 02/14/2023
SHEET: 15
OF: 466

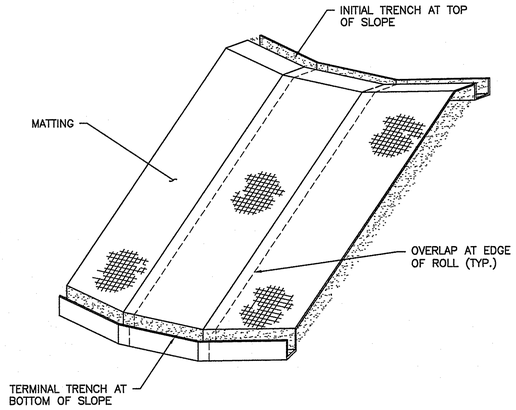
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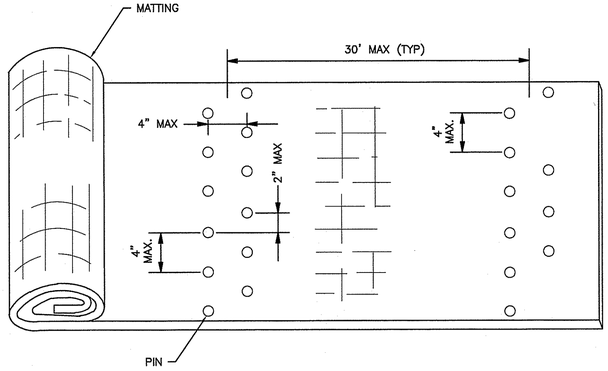
HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
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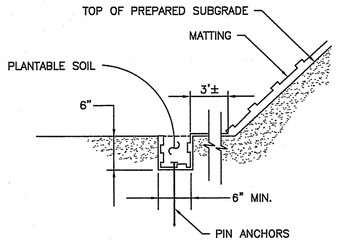
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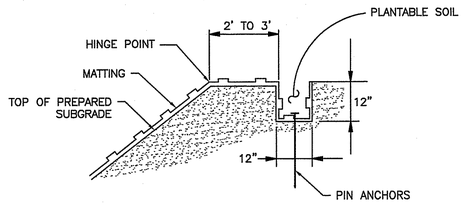


PERSPECTIVE VIEW

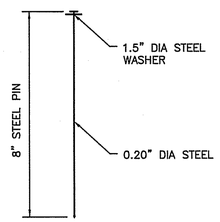




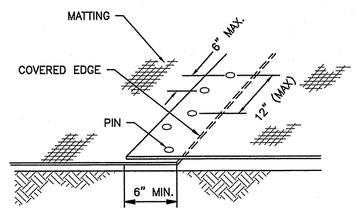
TERMINAL TRENCH AT TOE OF SLOPE DETAIL



TRENCH AT TOP OF SLOPE DETAIL



STEEL PIN DETAIL



OVERLAP EDGE DETAIL

TERMINAL TRENCH AT TOE OF SLOPE DETAIL

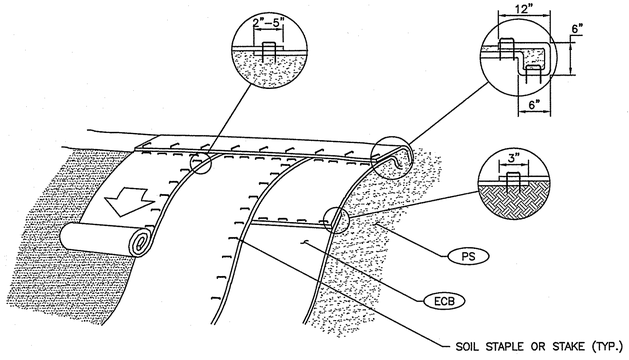
TRENCH AT TOP OF SLOPE DETAIL

STEEL PIN DETAIL

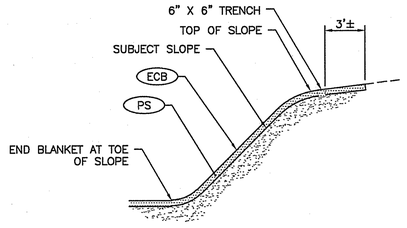
OVERLAP EDGE DETAIL

TURF REINFORCEMENT MATTING (TRM)

NOT TO SCALE



SLOPE INSTALLATION



SECTION VIEW

EROSION CONTROL BLANKET (ECB)

NOT TO SCALE

TURF REINFORCEMENT MATTING NOTES:

1. GRADE AND COMPACT AREA OF TURF REINFORCED MATTING INSTALLATION AS DIRECTED AND APPROVED BY ENGINEER. SUBGRADE SHALL BE UNIFORM AND SMOOTH. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBJECTS SO THE INSTALLED MAT WILL HAVE DIRECT CONTACT WITH SOIL SURFACE.
2. PREPARE SEEDING BY LOOSENING THE TOP 2"–3" (MIN.) OF SOIL.
3. APPLY RIDOT TYPE 1 GRASS MIX OVER 4" PLANTABLE SOIL SURFACE BEFORE INSTALLING MATTING. DISTURBED AREAS SHALL BE RE–SEEDED.
4. EXCAVATE INITIAL TRENCH 12" WIDE X 12" DEEP MINIMUM 2'–3' OVER TOP OF SLOPE.
5. EXCAVATE LONGITUDINAL EDGE TRENCHES 12" WIDE X 12" DEEP MINIMUM ALONG BOTH SIDES OF THE INSTALLATION TO BURY EDGES OF MAT. THE LONGITUDINAL EDGE TRENCHES SHALL BE LOCATED ALONG THE FIRST AND LAST INSTALLED ROLLS.
6. PLACE ROLL END INTO THE INITIAL TRENCH AND SECURE WITH PINNING DEVICES 12" ON CENTERS. POSITION ADJACENT ROLLS AND SECURE IN TRENCH IN SAME MANNER. BACKFILL AND COMPACT SOIL INTO TRENCH AS DIRECTED AND APPROVED BY ENGINEER.
7. UNROLL MATTING DOWN THE SLOPE OVER THE COMPACTED INITIAL TRENCH.
8. SECURE LONGITUDINAL EDGE TRENCH WITH PINNING DEVICES 12" ON CENTERS GROUND PINNING DEVICES.
9. METAL PINS SHOULD BE AT LEAST 0.20 IN DIA. STAINLESS STEEL WITH A 1½" STEEL WASHER AT THE HEAD OF THE PIN. METAL PINS SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE. PINS SHOULD BE BETWEEN 6"–24" LONG AND HAVE SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER PINS MAY BE REQUIRED FOR LOOSER SOILS.
10. FOR AREAS THAT REQUIRE SPECIAL TRANSITIONS (I.E. CONNECTIONS TO RIPRAP, CONCRETE, ETC.), REFER TO MANUFACTURES INSTALLATION GUIDELINES.
11. INSTALLED MATTING SHALL BE RE–SEEDED AND SOIL–FILLED. AFTER SEEDING, SPREAD AND LIGHTLY RAKE ½" – ¾" OF PLANTABLE SOIL OVER THE MATTING AND COMPLETELY FILL THE VOIDS USING BACKSIDE OF RAKE OR OTHER FLAT TOOL.
12. IF EQUIPMENT MUST OPERATE ON THE MATTING, MAKE SURE IT IS OF THE RUBBER–TIRED TYPE. NO TRACKED EQUIPMENT OR SHARP TURNS ARE ALLOWED ON THE MATTING.
13. AVOID ANY TRAFFIC OVER THE MATTING IF LOOSE OR WET SOIL CONDITIONS EXIST.

EROSION CONTROL BLANKET NOTES:

1. PREPARE TOPSOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL BLANKETS DOWN SLOPE, HORIZONTALLY ACROSS FOR DITCH SIDE SLOPES. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SPECIFIED BY THE MANUFACTURER.
4. THE EDGES OF PARALLEL BLANKET MUST BE STAPLED WITH APPROXIMATELY 2"–5" OVERLAP DEPENDING ON BLANKET TYPE. CONSECUTIVE HORIZONTAL BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
5. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

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RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company | AECOM | RI DOT — RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	17
OF:	466

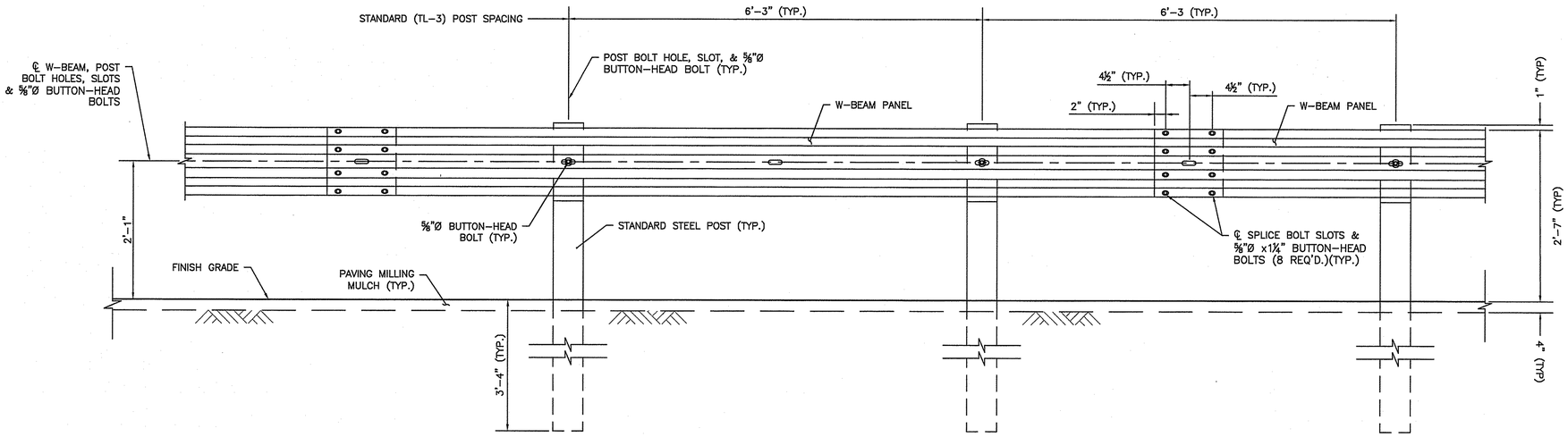
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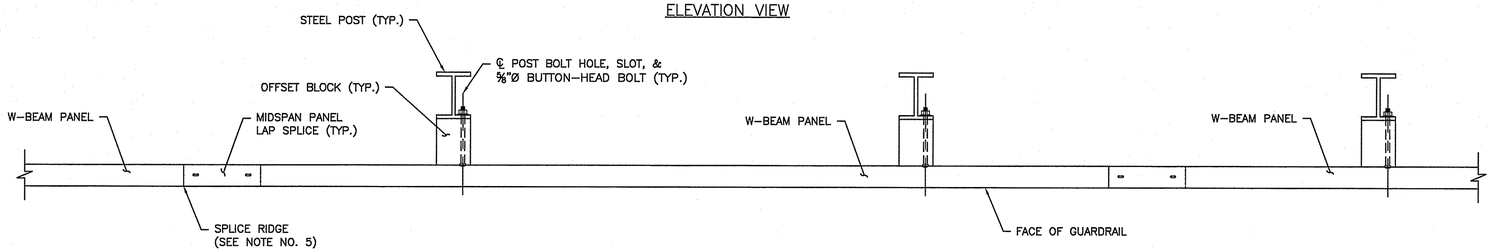
HIGHWAY
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MISCELLANEOUS DETAILS NO. 2

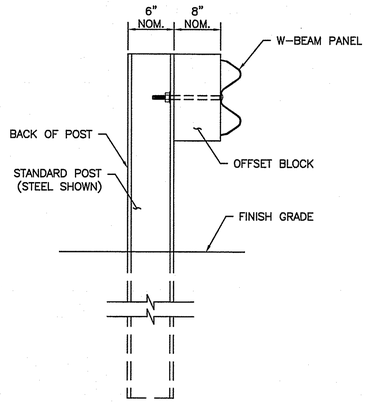
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ELEVATION VIEW



PLAN VIEW

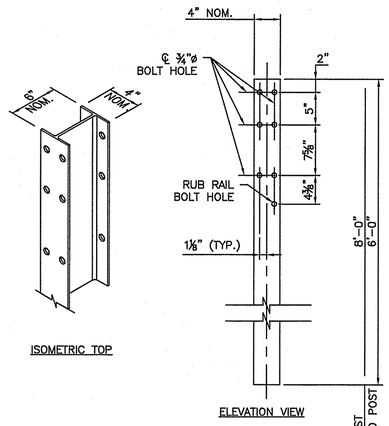


SECTION VIEW

DIRECTION OF TRAFFIC

MASH COMPLIANT STEEL BEAM GUARDRAIL, TL-3 (MSBG)

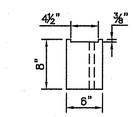
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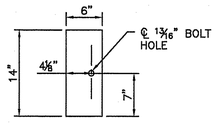
ISOMETRIC TOP

ELEVATION VIEW

STANDARD STEEL POST (W6X8.5 OR W6X9)
NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

W-BEAM OFFSET BLOCK (6"X8" NOMINAL)
NOT TO SCALE

MASH GUARDRAIL NOTES:

1. ALL DIMENSIONS OF STANDARD GUARDRAIL COMPONENTS, INCLUDING PANELS, POSTS, OFFSET BLOCKS, BOLTS, NUTS, WASHERS AND HOLES, ARE BASED UPON ENGLISH UNIT CONVERSIONS OF THE ASSHTO-ARTBA-AGC JOINT COMMITTEE TASK FORCE 13 REPORT: A GUIDE TO STANDARDIZING HIGHWAY BARRIER HARDWARE.
2. THE BEGIN OR END STATION LABELS SHOWN IN THESES STANDARDS CORRESPOND TO THE STATION AND OFFSET CALLOUTS SPECIFIED IN THE PLANS.
3. USE 12'-6" NOMINAL LENGTH PANELS UNLESS OTHERWISE INDICATED ON THE PLANS.
4. ALL LAP SPLICES SHALL BE MIDSPAN UNLESS SHOWN OTHERWISE.
5. LAP SPLICES SHALL BE CONSTRUCTED WITH THE SPLICE RIDGE ORIENTED DOWNSTREAM OF THE FINAL DIRECTION OF TRAFFIC IN THE NEAREST TRAVEL LANE. REORIENTING LAP SPLICES FOR TEMPORARY TRAFFIC CONTROL IS NOT REQUIRED.
6. STANDARD POSTS SHALL BE STEEL, UNLESS OTHERWISE INDICATED ON THE PLANS. POSTS OF A SINGLE MATERIAL TYPE SHALL BE USED THROUGHOUT AN ENTIRE RUN OF GUARDRAIL; EXCEPTIONS ARE ALLOWED ONLY WHEN SPECIFIC MATERIAL TYPES ARE REQUIRED FOR TRANSITIONS, END TREATMENTS, AND/OR ANCHORAGES.
7. OFFSET BLOCKS SHALL BE PLASTIC OR COMPOSITE MATERIAL OF THE NOMINAL DIMENSIONS SHOWN. OFFSET BLOCKS OF A SINGLE MATERIAL TYPE SHALL BE USED THROUGHOUT AN ENTIRE RUN OF GUARDRAIL; EXCEPTIONS ARE ALLOWED ONLY WHEN SPECIFIC MATERIAL TYPES ARE REQUIRED FOR TRANSITIONS, END TREATMENTS, AND/OR ANCHORAGES.
8. PAVEMENT MILLING MULCH SHALL CONFORM TO SECTION 213 OF THE R.I. STANDARD SPECIFICATIONS.
9. GUARDRAIL DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS AND R.I. STANDARD 34.2.5.

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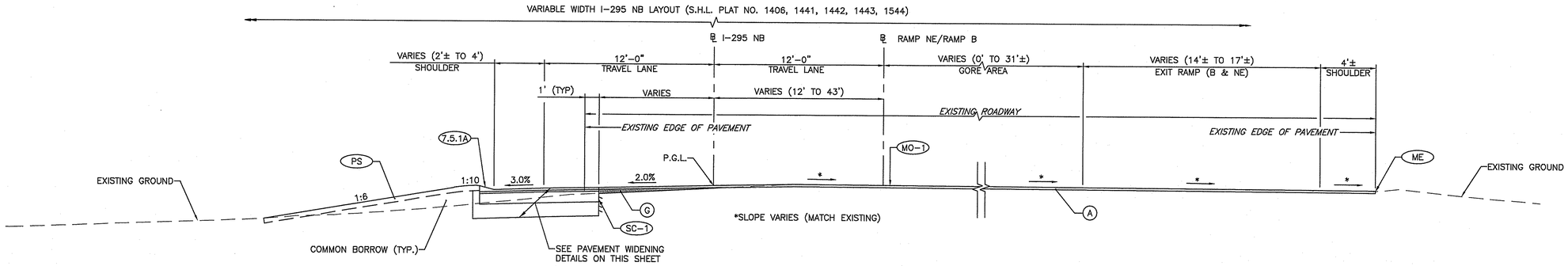
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MISCELLANEOUS DETAILS NO. 3

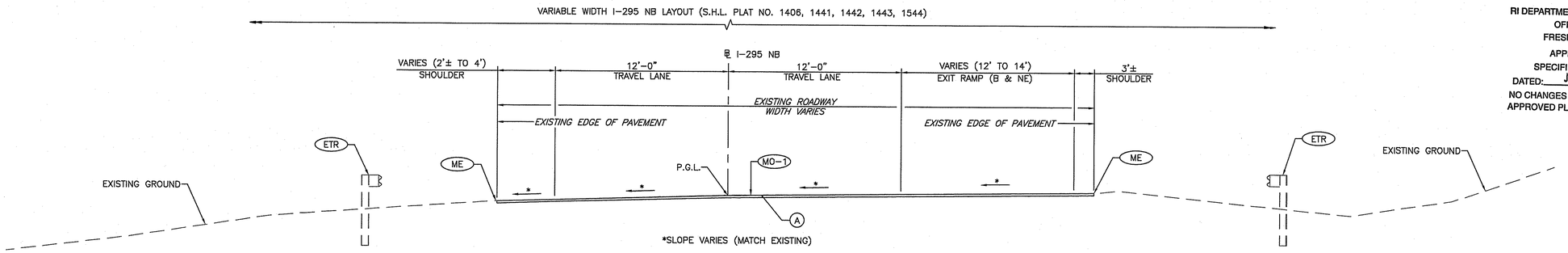
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I-295 NB TYPICAL SECTION

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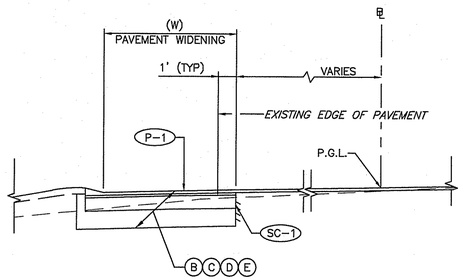
STA 100+52 TO STA 104+40



I-295 NB TYPICAL SECTION

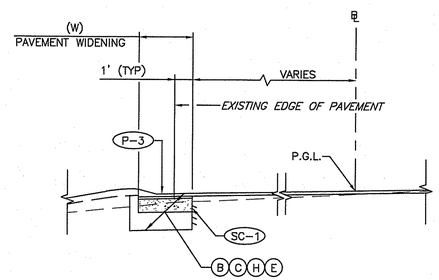
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STA 99+33 TO STA 100+52



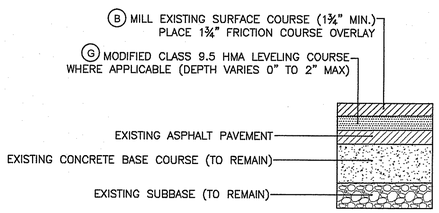
PAVEMENT WIDENING DETAIL FOR (W) = > 3'

SCALE: 1"=4'

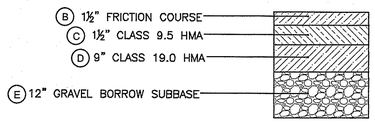


PAVEMENT WIDENING DETAIL FOR (W) < 3'

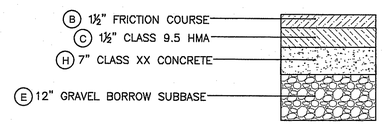
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PAVEMENT MILL AND OVERLAY DETAIL (MO-1)



FULL-DEPTH PAVEMENT TYPE-1 DETAIL (P-1)



FULL-DEPTH PAVEMENT TYPE-3 DETAIL (P-3)

PAVEMENT STRUCTURE LEGEND

- (A) 1¾" FRICTION COURSE
- (B) - 1½" FRICTION COURSE
- (C) - 1½" CLASS 9.5 HMA (MODIFIED) SURFACE COURSE
- (D) - 9" CLASS 19.0 HMA BASE COURSE
- (E) - 12" GRAVEL BORROW SUBBASE
- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE
- (H) - 7" CLASS XX CONCRETE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D Wenck

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company | AECOM | RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	31
OF:	466

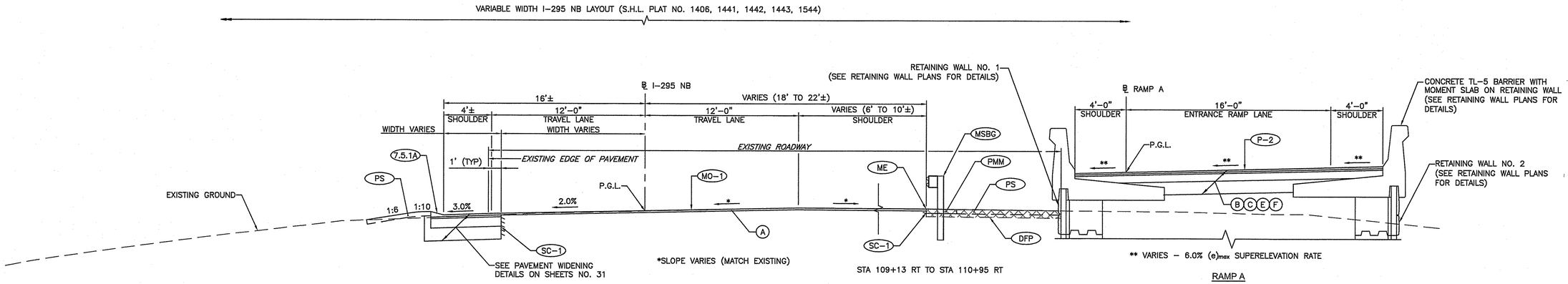
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

TYPICAL SECTIONS NO. 1

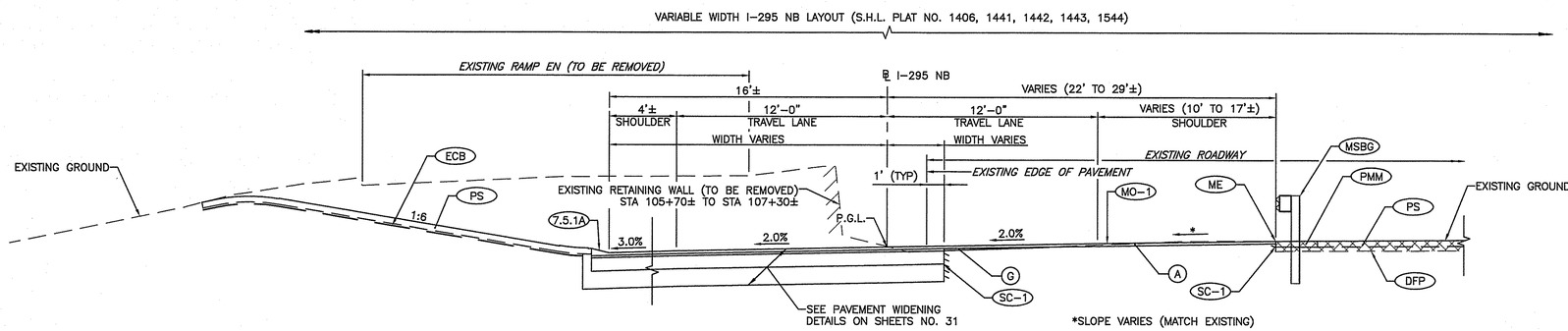
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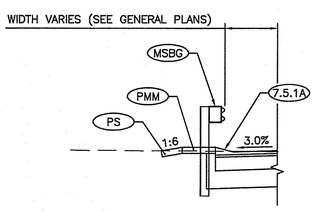


I-295 NB TYPICAL SECTION
SCALE: 1"=4'

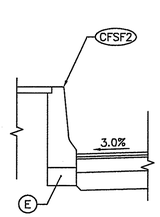
STA 109+13 TO STA 112+19

*** NOTE:
TYPE CFSF2 CONCRETE BARRIER TO BE CAST-IN-PLACE FROM STA 112+04 TO STA 112+19.





STA 103+82 LT TO STA 104+45 LT



STA 104+64 LT TO STA 106+15 LT

I-295 NB TYPICAL SECTION
SCALE: 1"=4'

STA 104+40 TO STA 109+13

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RI Environmental Management
JUN - 7 2023
Office of Water Resources

PAVEMENT STRUCTURE LEGEND

- (A) - 1¾" FRICTION COURSE
- (B) - 1½" FRICTION COURSE
- (C) - 1½" CLASS 9.5 HMA (MODIFIED) SURFACE COURSE
- (D) - 9" CLASS 19.0 HMA BASE COURSE
- (E) - 12" GRAVEL BORROW SUBBASE
- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE
- (H) - 7" CLASS XX CONCRETE

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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SHEET:	32
OF:	466

SCALE: AS SHOWN

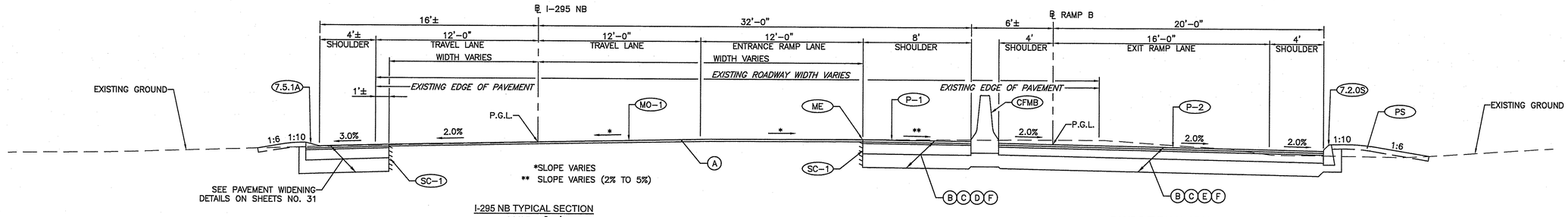
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

TYPICAL SECTIONS NO. 2

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VARIABLE WIDTH I-295 NB LAYOUT (S.H.L. PLAT NO. 1406, 1441, 1442, 1443, 1544)



*SLOPE VARIES
** SLOPE VARIES (2% TO 5%)

SEE PAVEMENT WIDENING DETAILS ON SHEETS NO. 31

I-295 NB TYPICAL SECTION
SCALE: 1"=4'

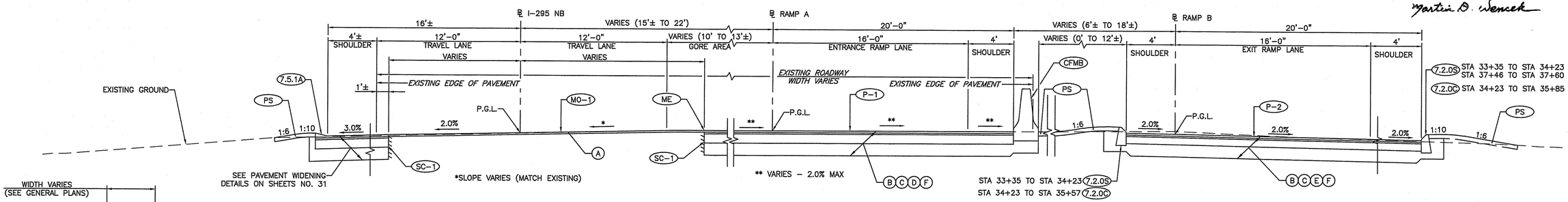
STA 116+43 TO STA 119+97

RAMP B TYPICAL SECTION
SCALE: 1"=4'

STA 37+60 TO STA 41+14 (RAMP B ℄)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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VARIABLE WIDTH I-295 NB LAYOUT (S.H.L. PLAT NO. 1406, 1441, 1442, 1443, 1544)



SEE PAVEMENT WIDENING DETAILS ON SHEETS NO. 31

*SLOPE VARIES (MATCH EXISTING)

** VARIES - 2.0% MAX

STA 33+35 TO STA 34+23 7.2.0S
STA 34+23 TO STA 35+57 7.2.0C

I-295 NB TYPICAL SECTION
SCALE: 1"=4'

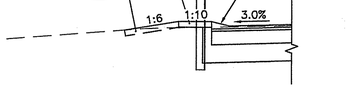
STA 112+19 TO STA 116+43

RAMP A TYPICAL SECTION
SCALE: 1"=4'

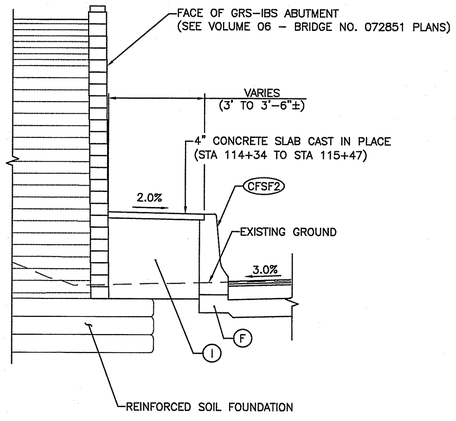
STA 20+75 TO STA 25+00 (RAMP A ℄)

RAMP B TYPICAL SECTION
SCALE: 1"=4'

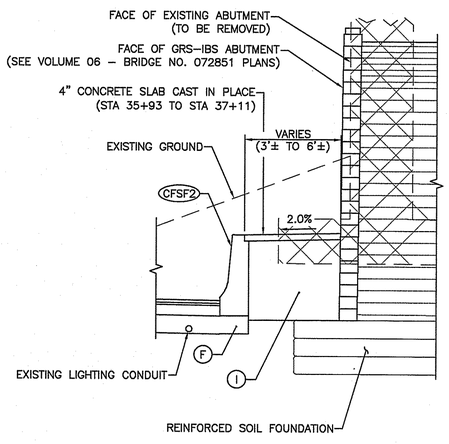
STA 33+32 TO STA 37+60 (RAMP B ℄)



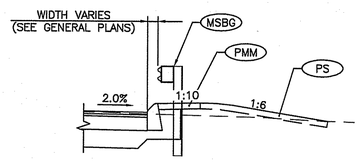
STA 113+20 LT TO STA 114+34 LT



STA 114+34 LT TO STA 115+74 LT (I-295 NB ℄)



STA 35+86 RT TO STA 37+46 RT (RAMP B ℄)



STA 34+65 RT TO STA 35+85 RT (RAMP B ℄)

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JUN - 7 2023
Office of Water Resources

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- (D) - 9" CLASS 19.0 HMA BASE COURSE
- (E) - 7" CLASS 19.0 HMA BASE COURSE
- (F) - 12" GRAVEL BORROW SUBBASE
- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE
- (H) - 7" CLASS XX CONCRETE
- (I) - CRUSHED STONE MEETING RIDOT M.01.09 GRADATION

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	33
OF:	466

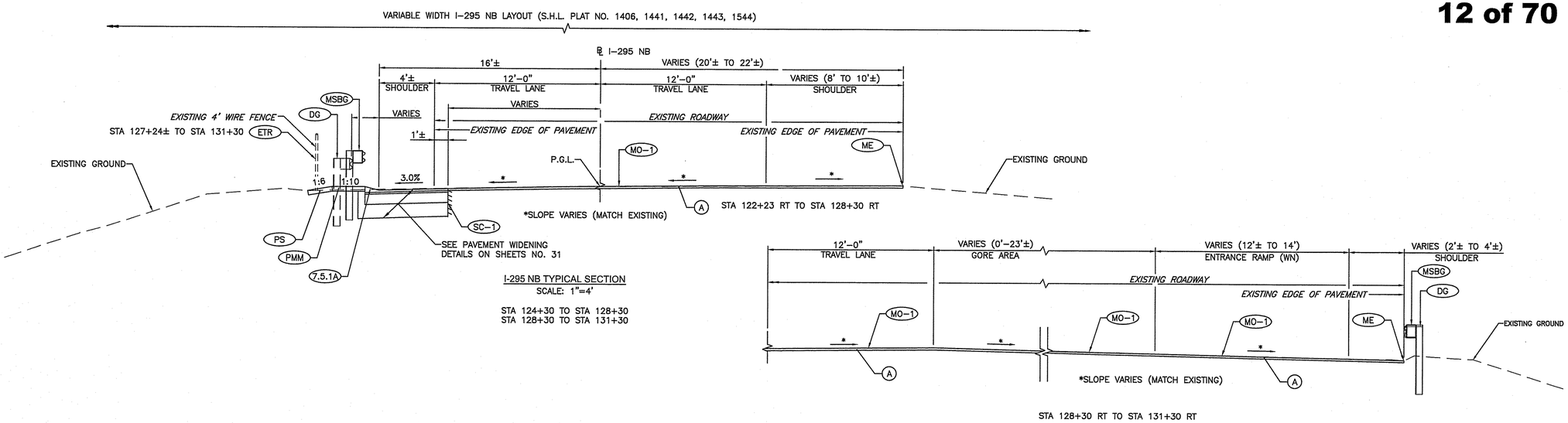
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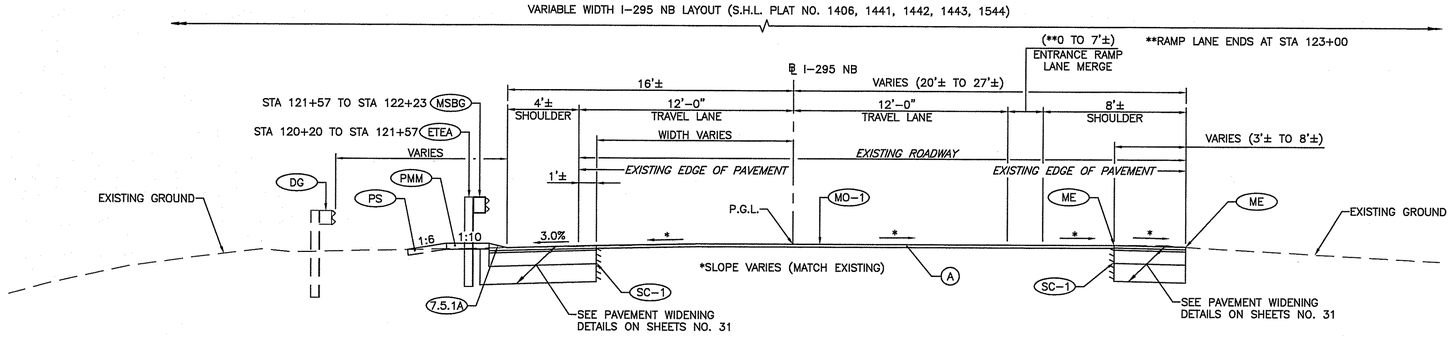
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

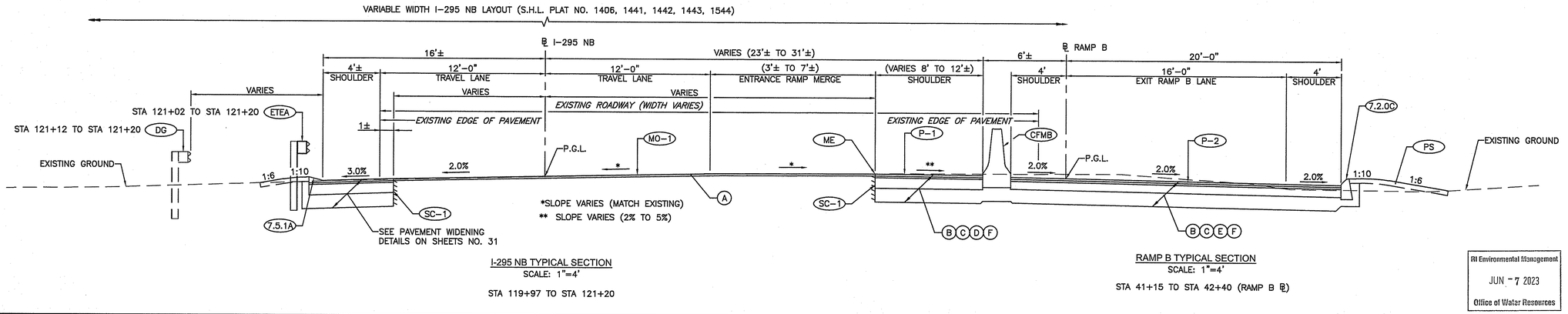
HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

TYPICAL SECTIONS NO. 3

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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PAVEMENT STRUCTURE LEGEND

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- (E) - 12" GRAVEL BORROW SUBBASE
- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE

RI Environmental Management
JUN – 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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OF:	466

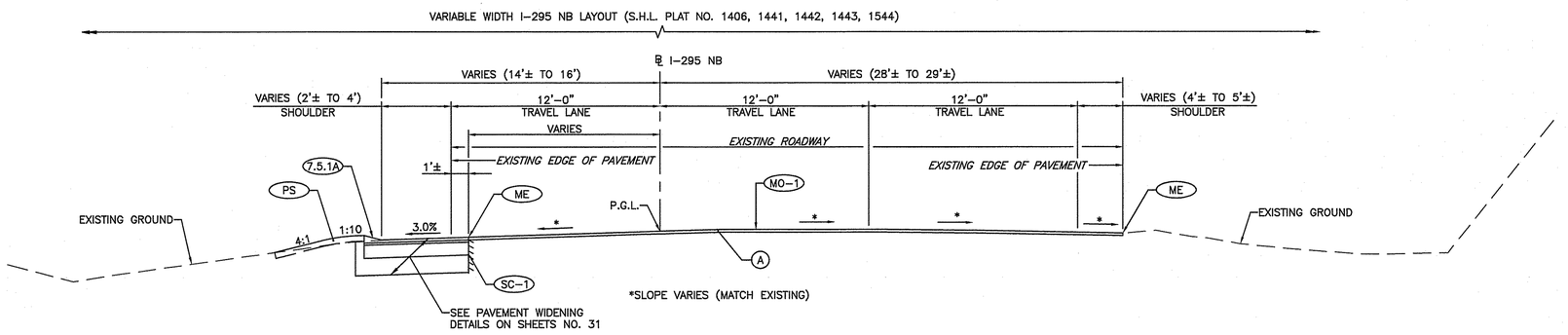
SCALE: AS SHOWN

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

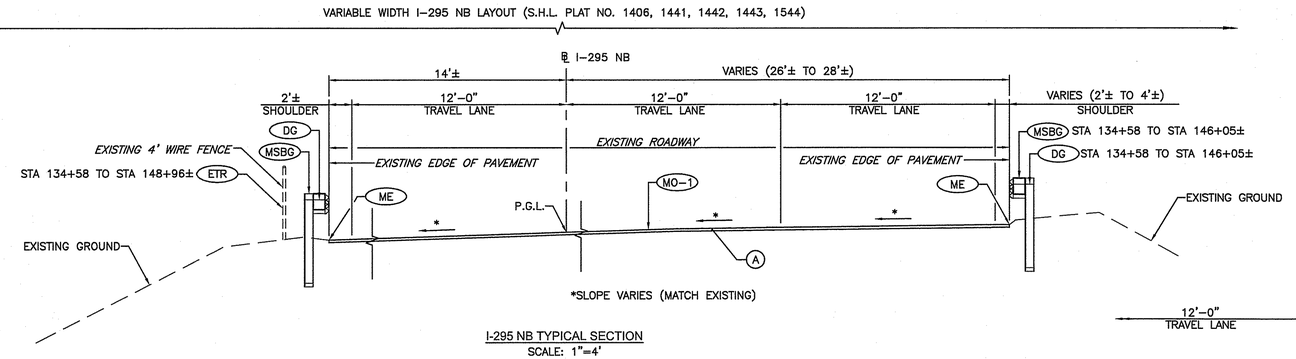
TYPICAL SECTIONS NO. 4

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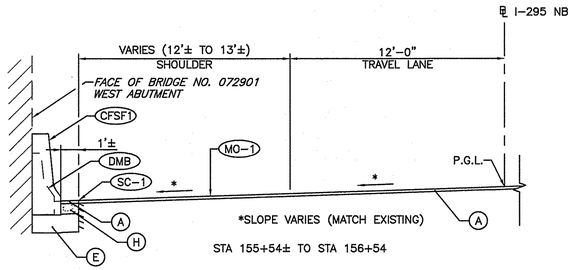
I-295 NB TYPICAL SECTION
SCALE: 1"=4'

STA 156+93 TO STA 157+73

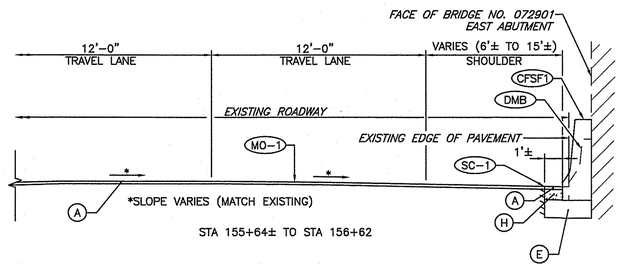


I-295 NB TYPICAL SECTION
SCALE: 1"=4'

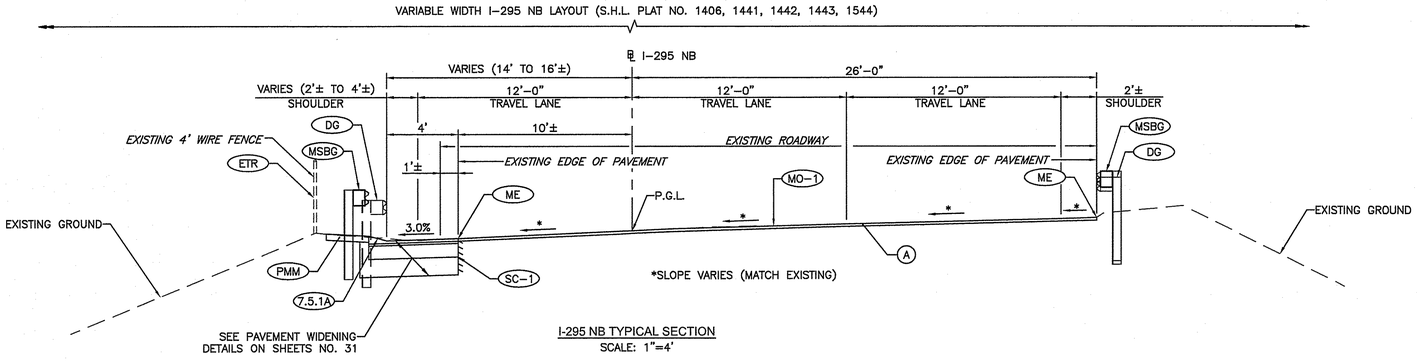
STA 134+58 TO STA 156+93



STA 155+54± TO STA 156+54



STA 155+64± TO STA 156+62



I-295 NB TYPICAL SECTION
SCALE: 1"=4'

STA 131+30 TO STA 134+58

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- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE
- (H) - 7" CLASS XX CONCRETE

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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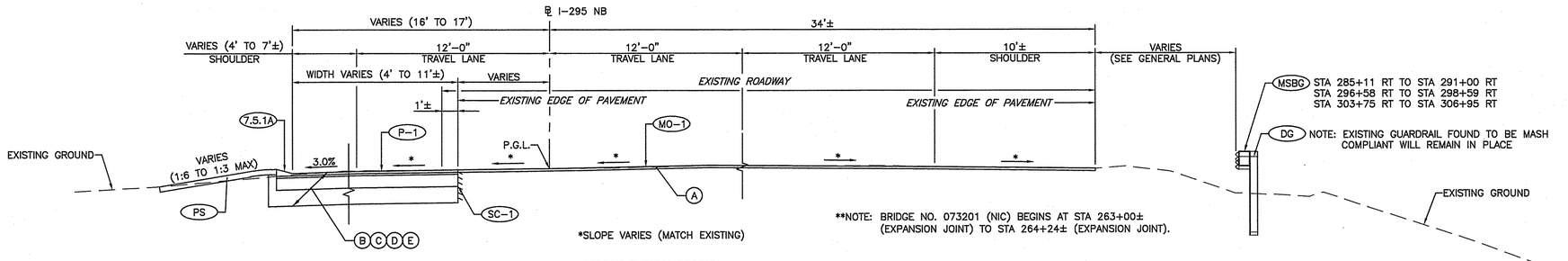
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

TYPICAL SECTIONS NO. 5

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VARIABLE WIDTH I–295 NB LAYOUT (S.H.L. PLAT NO. 1406, 1441, 1442, 1443, 1544)

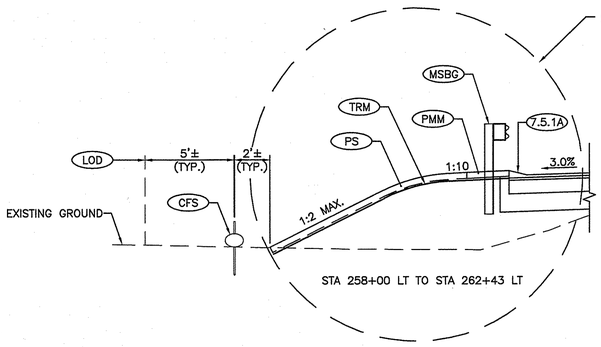


*SLOPE VARIES (MATCH EXISTING)

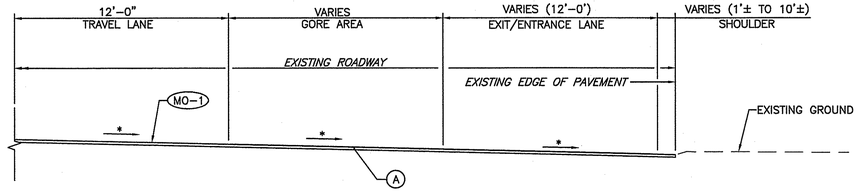
**NOTE: BRIDGE NO. 073201 (NIC) BEGINS AT STA 263+00± (EXPANSION JOINT) TO STA 264+24± (EXPANSION JOINT).

I-295 NB TYPICAL SECTION
SCALE: 1"=4'

STA 173+53 TO **STA 262+91
**STA 264+28 TO STA 330+00

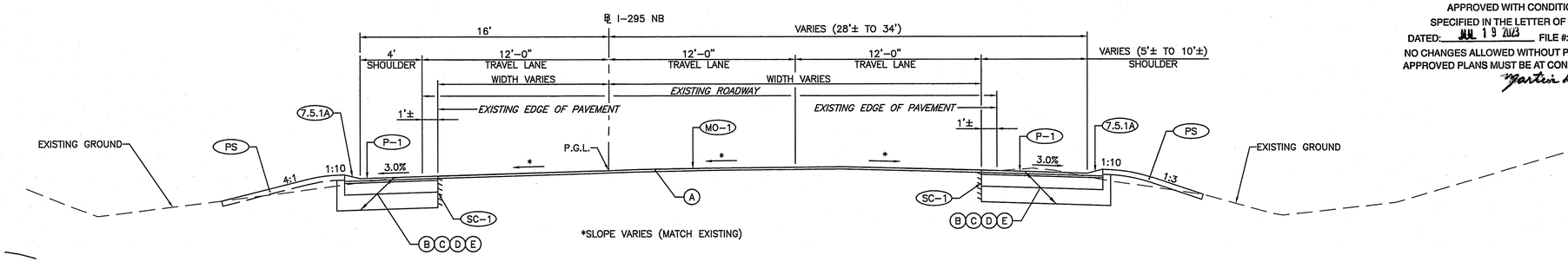


STA 258+00 LT TO STA 262+43 LT



STA 248+36 RT TO STA 251+30 RT
STA 257+20 RT TO STA 263+00 RT
STA 308+00 RT TO STA 312+98 RT

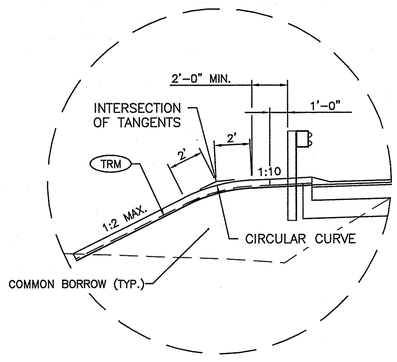
VARIABLE WIDTH I–295 NB LAYOUT (S.H.L. PLAT NO. 1406, 1441, 1442, 1443, 1544)



*SLOPE VARIES (MATCH EXISTING)

I-295 NB TYPICAL SECTION
SCALE: 1"=4'

STA 157+73 TO STA 173+53



DETAIL A
SCALE: 1" = 4'

NOTE:
FOR FILL SLOPES BETWEEN 1:4 AND 1:3, AN EROSION CONTROL BLANKET FOR SLOPE PROTECTION SHALL BE INSTALLED. FOR FILL SLOPES BETWEEN 1:3 AND 1:2, A TURF REINFORCEMENT MATTING FOR SLOPE PROTECTION SHALL BE INSTALLED.

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- (H) - 7" CLASS XX CONCRETE

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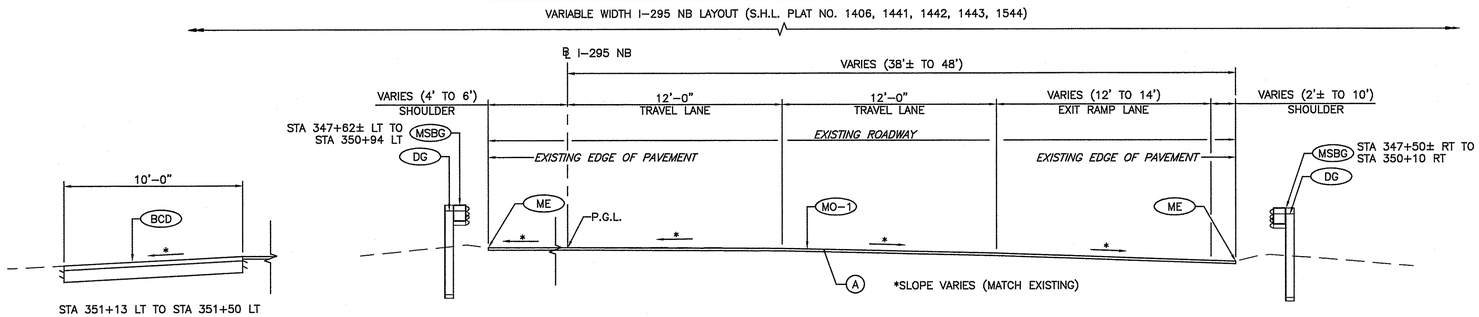
SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

TYPICAL SECTIONS NO. 6

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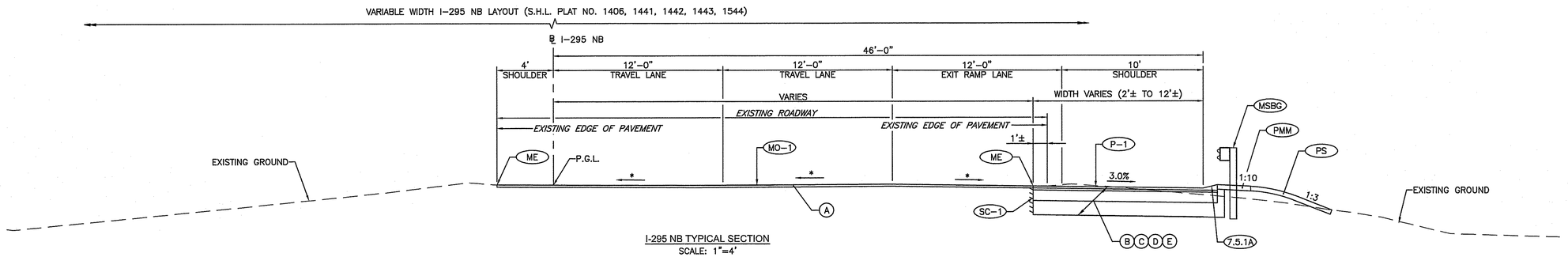


I-295 NB TYPICAL SECTION

SCALE: 1"=4'

**STA 347+51 TO STA 355+00

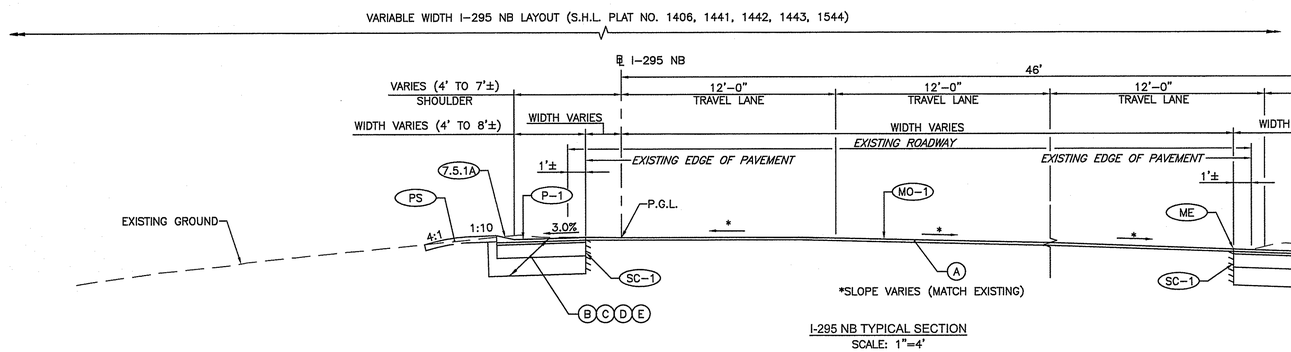
**NOTE: BRIDGE NO. 073501(NIC) BEGINS AT STA 346+60± (EXPANSION JOINT) TO STA 347+51± (EXPANSION JOINT).



I-295 NB TYPICAL SECTION

SCALE: 1"=4'

STA 340+91 TO STA 346+51



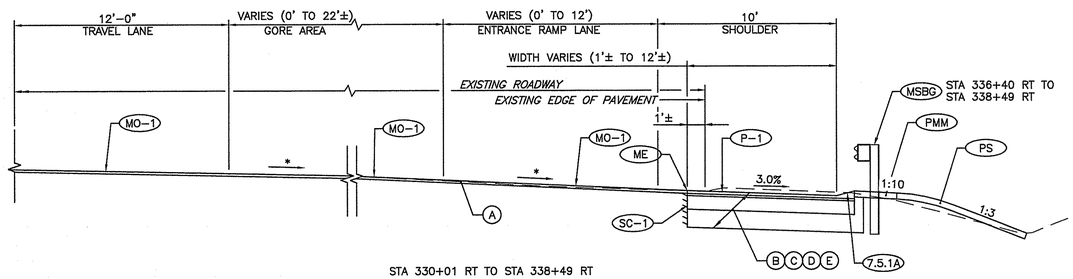
I-295 NB TYPICAL SECTION

SCALE: 1"=4'

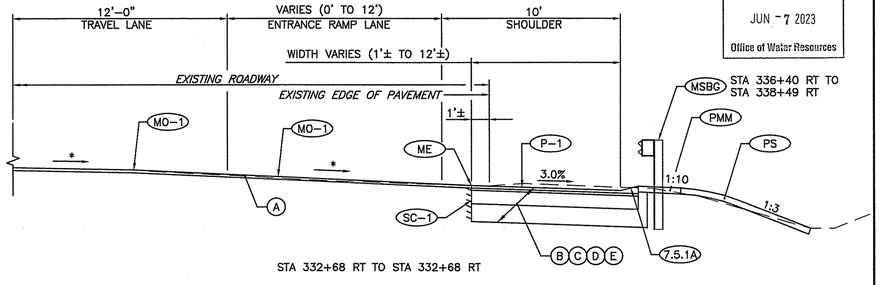
STA 330+00 TO STA 340+91

PAVEMENT STRUCTURE LEGEND

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- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE



STA 330+01 RT TO STA 338+49 RT



STA 332+68 RT TO STA 332+68 RT

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SHEET:	37
OF:	466

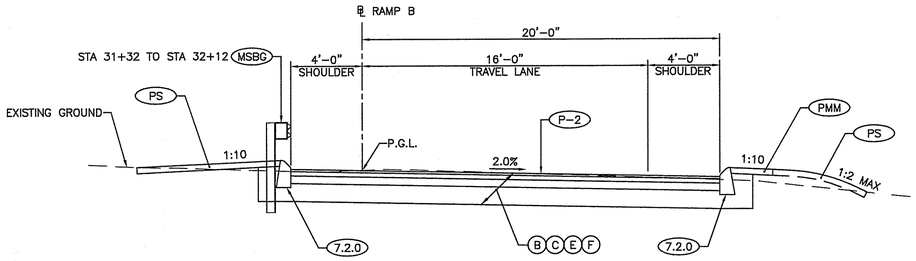
SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

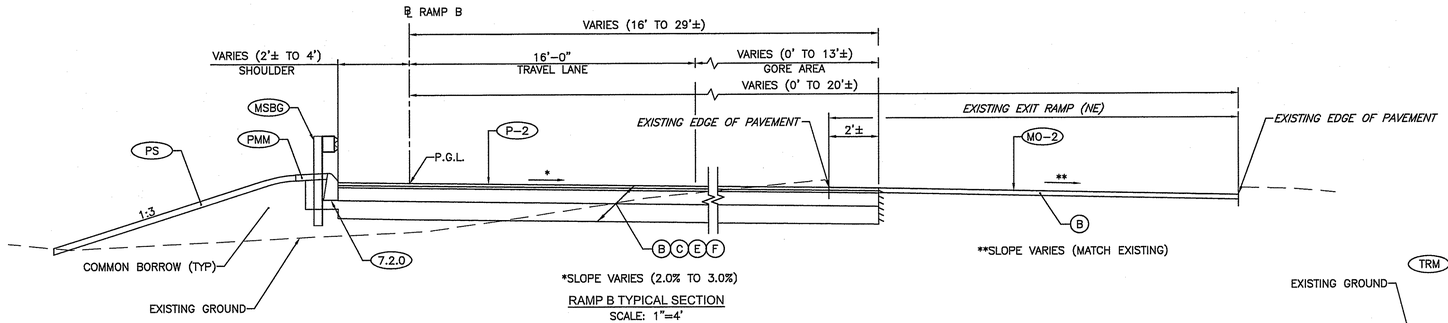
TYPICAL SECTIONS NO. 7

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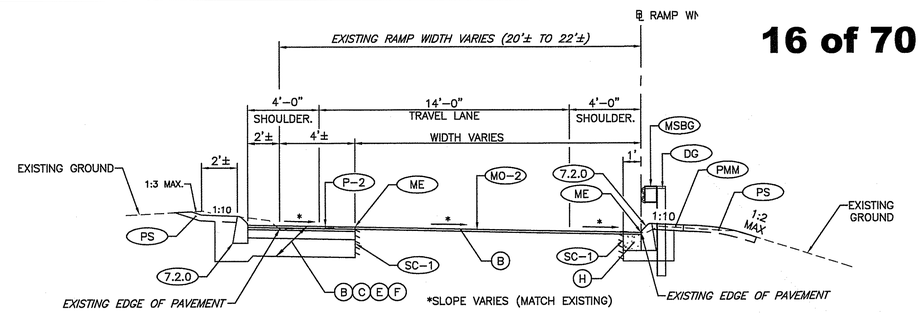
RAMP B TYPICAL SECTION
SCALE: 1"=4'

STA 31+32 TO STA 33+32



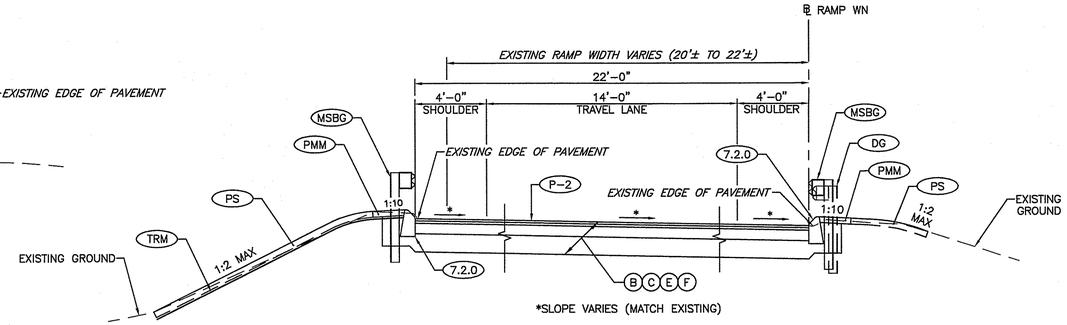
RAMP B TYPICAL SECTION
SCALE: 1"=4'

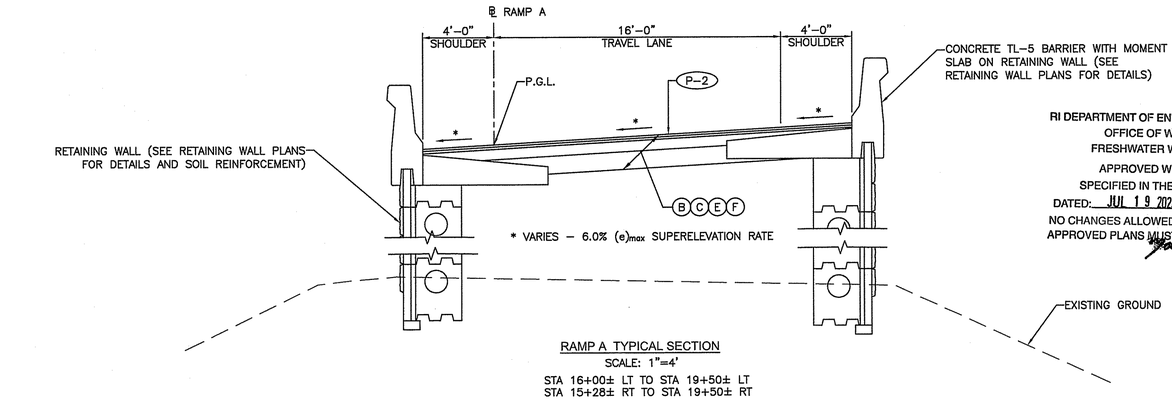
STA 28+70 TO STA 31+32



RAMP WN TYPICAL SECTION
SCALE: 1"=4'

STA 17+95± TO STA 28+05±

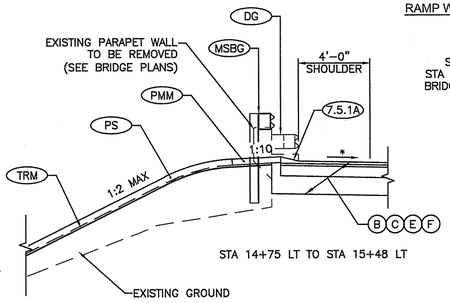




RAMP A TYPICAL SECTION
SCALE: 1"=4'

STA 16+00± LT TO STA 19+50± LT
STA 15+28± RT TO STA 19+50± RT

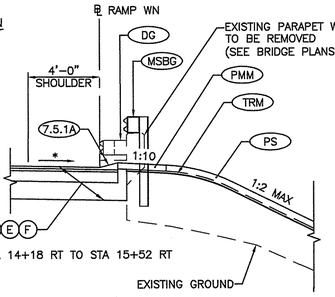
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Justin D. Wencer



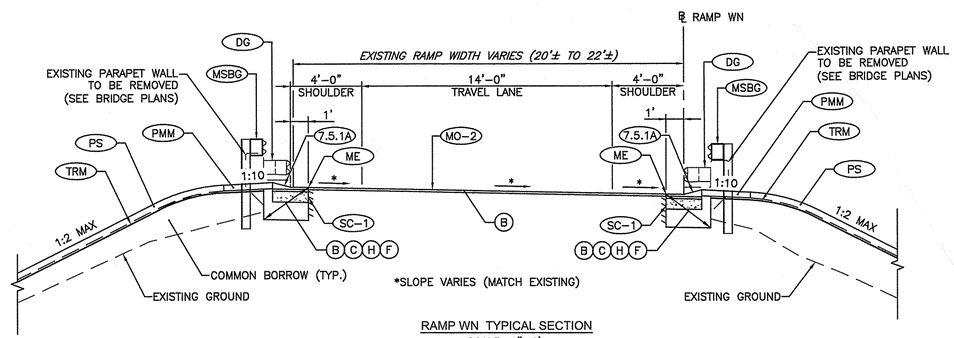
STA 14+75 LT TO STA 15+48 LT

RAMP WN FULL-DEPTH RECONSTRUCTION
TYPICAL SECTION
SCALE: 1"=4'

STA 14+18± TO STA 15+52±
STA 16+18± TO BRIDGE NO. 083151
BRIDGE NO. 083151 TO STA 17+95±

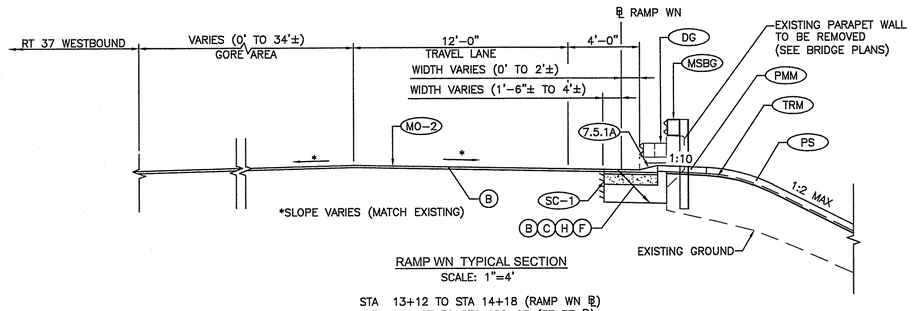


STA 14+18 RT TO STA 15+52 RT



RAMP WN TYPICAL SECTION
SCALE: 1"=4'

STA 15+52 TO STA 16+18



RAMP WN TYPICAL SECTION
SCALE: 1"=4'

STA 13+12 TO STA 14+18 (RAMP WN ℄)
STA 121+07 TO STA 120+03 (RT 37 ℄)

PAVEMENT STRUCTURE LEGEND

- (B) - 1½" FRICTION COURSE
- (C) - 1½" CLASS 9.5 HMA (MODIFIED) SURFACE COURSE
- (D) - 9" CLASS 19.0 HMA BASE COURSE
- (E) - 7" CLASS 19.0 HMA BASE COURSE
- (F) - 12" GRAVEL BORROW SUBBASE
- (G) - MODIFIED CLASS 9.5 HMA LEVELING COURSE
- (H) - 7" CLASS XX CONCRETE

RI Environmental Management
JUN – 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
CHECKED BY: CED
DATE: 02/14/2023
SHEET: 38
OF: 466

SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

TYPICAL SECTIONS NO. 8

C:\PWWORKING\USRI\DMS01502\0051B_V1_31-42_TYPICAL.DWG PER DPM 450.06

I-295 SB

RAMP EN

RAMP A

RAMP B

RAMP NE

I-295 NB

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

LOCATION OF STORMWATER TREATMENT UNIT STU NO. 1

BRIDGE NO. 135001 (SEE VOLUME 9)

RETAINING WALL (SEE VOLUME 9)

RETAINING WALLS (SEE VOLUME 9)

PT 103+77.58

PC 107+14.18

PT 12+60.50

PC 13+26.42

PC 28+69.87

ABBREVIATIONS
BC – BOTTOM OF CURB
FG – FINISH GRADE
GG – GUTTER GRADE
TF – TOP OF FRAME

NOTES:
1. PROPOSED GRADES ALONG RAMP A AND B ARE AT 10 FOOT INTERVALS ALONG THEIR RESPECTIVE BASELINES UNLESS OTHERWISE NOTED.
2. TOP OF FRAME ELEVATIONS ARE AT THE CENTER OF THE STRUCTURE.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

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DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	213
OF:	466

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

GRADING PLAN NO. 1

C:\PWWORKING\USRI\DMS01502\0051B_V1_213-216_GRADING.DWG PER DPM 450.06

I-295 SB

I-295 NB

RAMP EN

RAMP A

RAMP B

RAMP NE

RT 37 EB

RT 37 WB

FLARED END SECTION WITH 12" CMP I=47.29

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0036
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin B. Wencer

LIMIT OF WORK
RAMP B
STA 31+98

ELEV. 57.3

PT 17+98.19
PT 32+41.61
PC 34+22.52

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RI Environmental Management
JUN 7 2023
Office of Water Resources

Aetna Bridge Company | AECOM | RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
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DATE:	02/14/2023
SHEET:	214
OF:	466

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 & 5
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

GRADING PLAN NO. 2

C:\PWWORKING\USRI\DMS01547\86-92 – HIGHWAY GRADING PLAN SHEETS.DWG PER DPM 450.06

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: JUN 19 2023 FILE #: 23-0031
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Martin D. Wencek

RI Environmental Management
JUN - 7 2023
Office of Water Resources

NOTES:
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2. TOP OF FRAME ELEVATIONS ARE AT THE CENTER OF THE STRUCTURE.

ABBREVIATIONS
BC – BOTTOM OF CURB
FG – FINISH GRADE
GG – GUTTER GRADE
TF – TOP OF FRAME

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	215
OF:	466

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

GRADING PLAN NO. 3

C:\PWWORKING\USRI\DMS01502\0051B_V1_213-216_GRADING.DWG PER DPM 450.06

BRIDGE NO. 083151 (SEE VOLUME 8)

BRIDGE NO. 062151 (SEE VOLUME 4)

BRIDGE NO. 062251 (SEE VOLUME 5)

RAMP WN

RT 37 WB

RT 37 EB

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES/
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Martin D. Wencek

ABBREVIATIONS
BC – BOTTOM OF CURB
FG – FINISH GRADE
GG – GUTTER GRADE
TF – TOP OF FRAME

NOTES:
1. TOP OF FRAME ELEVATIONS ARE AT THE CENTER OF THE STRUCTURE.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
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DATE:	02/14/2023
SHEET:	216
OF:	466

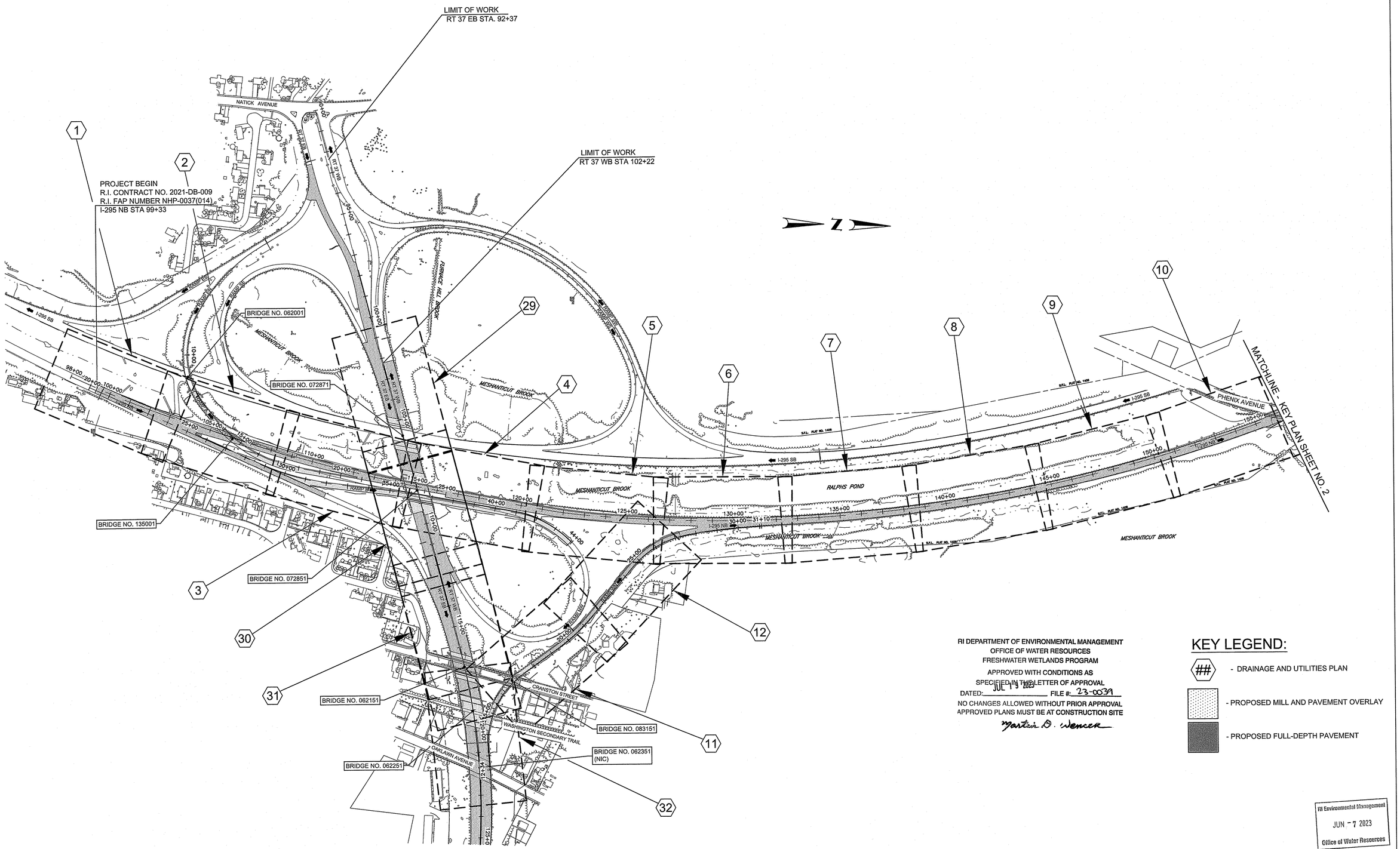
SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

GRADING PLAN NO. 4

C:\PWWORKING\USRI\DMS01502\0051B_V1_213-216_GRADING.DWG PER DPM 450.06



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED: JUL 13 2023 FILE #: 23-0039
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencer

KEY LEGEND:

(##) - DRAINAGE AND UTILITIES PLAN

- PROPOSED MILL AND PAVEMENT OVERLAY

- PROPOSED FULL-DEPTH PAVEMENT

RI Environmental Management
JUN - 7 2023
Office of Water Resources

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
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DATE:	06/05/2023
SHEET:	1
OF:	---

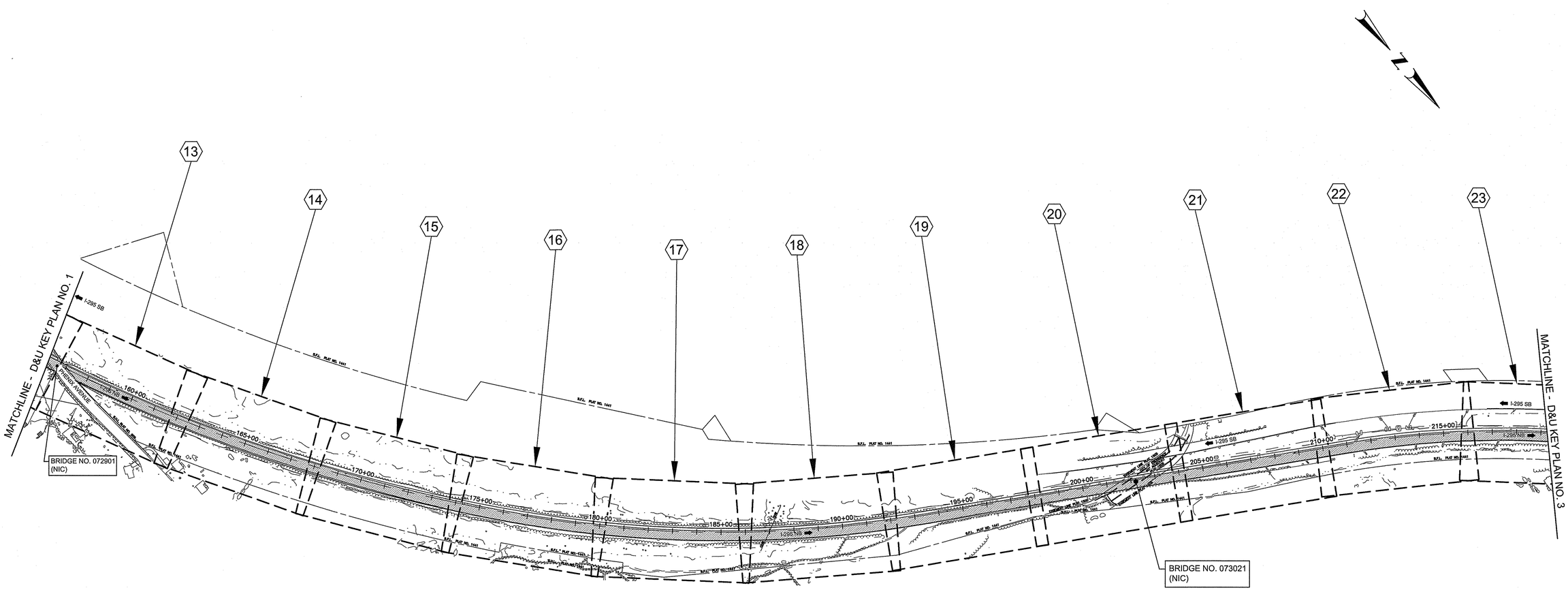
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GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

D&U KEY PLAN NO.1

C:\PWWORKING\USRI\DMS02032\00051B_V1_06-10_KEY(1).DWG PER DPM 450.06



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OFFICE OF WATER RESOURCES
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DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

KEY LEGEND:

- ## - DRAINAGE AND UTILITIES PLAN
- PROPOSED MILL AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT

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OF:	--

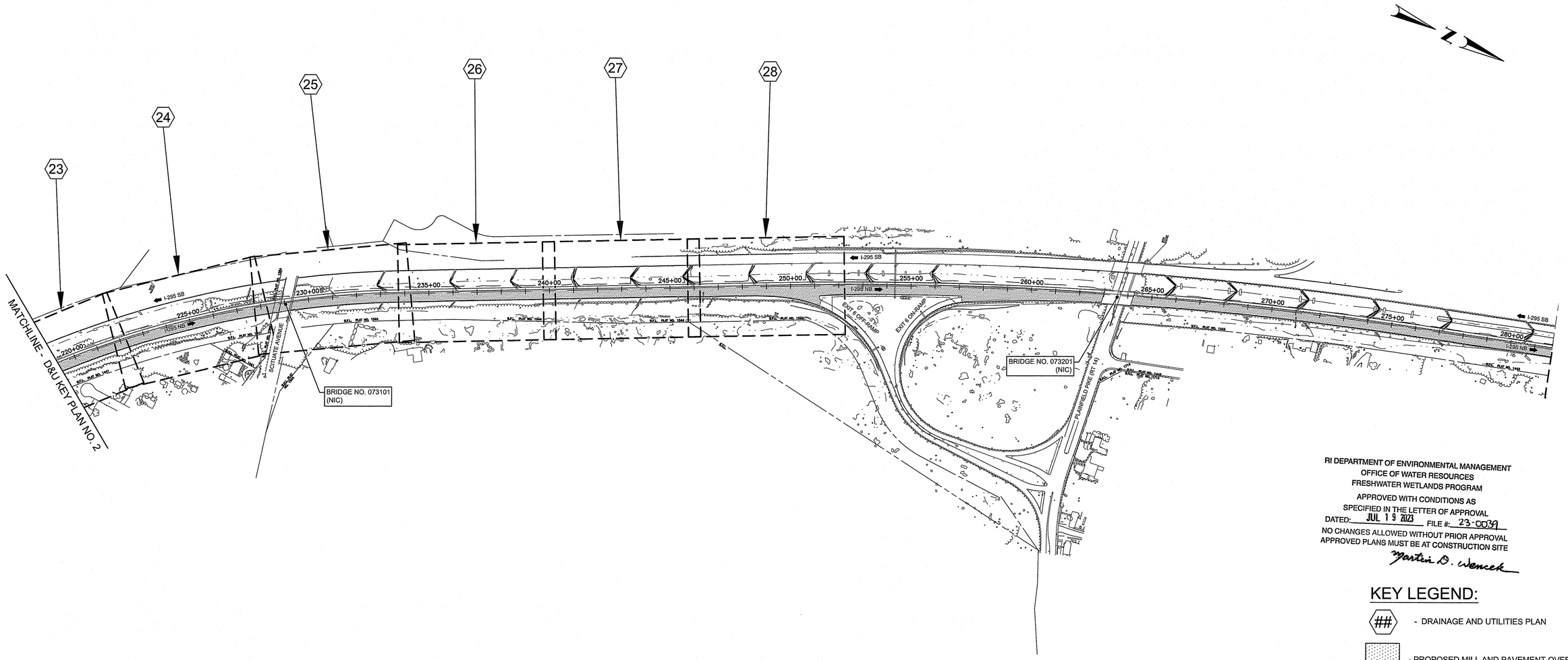
SCALE: 1" = 200'
200 0 100 200 400
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

D&U KEY PLAN NO. 2

C:\PWWORKING\USRI\DMS02032\0051B_V1_06-10_KEY(1).DWG PER DPM 450.06



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

KEY LEGEND:

- ## - DRAINAGE AND UTILITIES PLAN
- PROPOSED MILL AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT

RI Environmental Management
JUN - 7 2023
Office of Water Resources

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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DATE:	06/05/2023
SHEET:	3
OF:	--

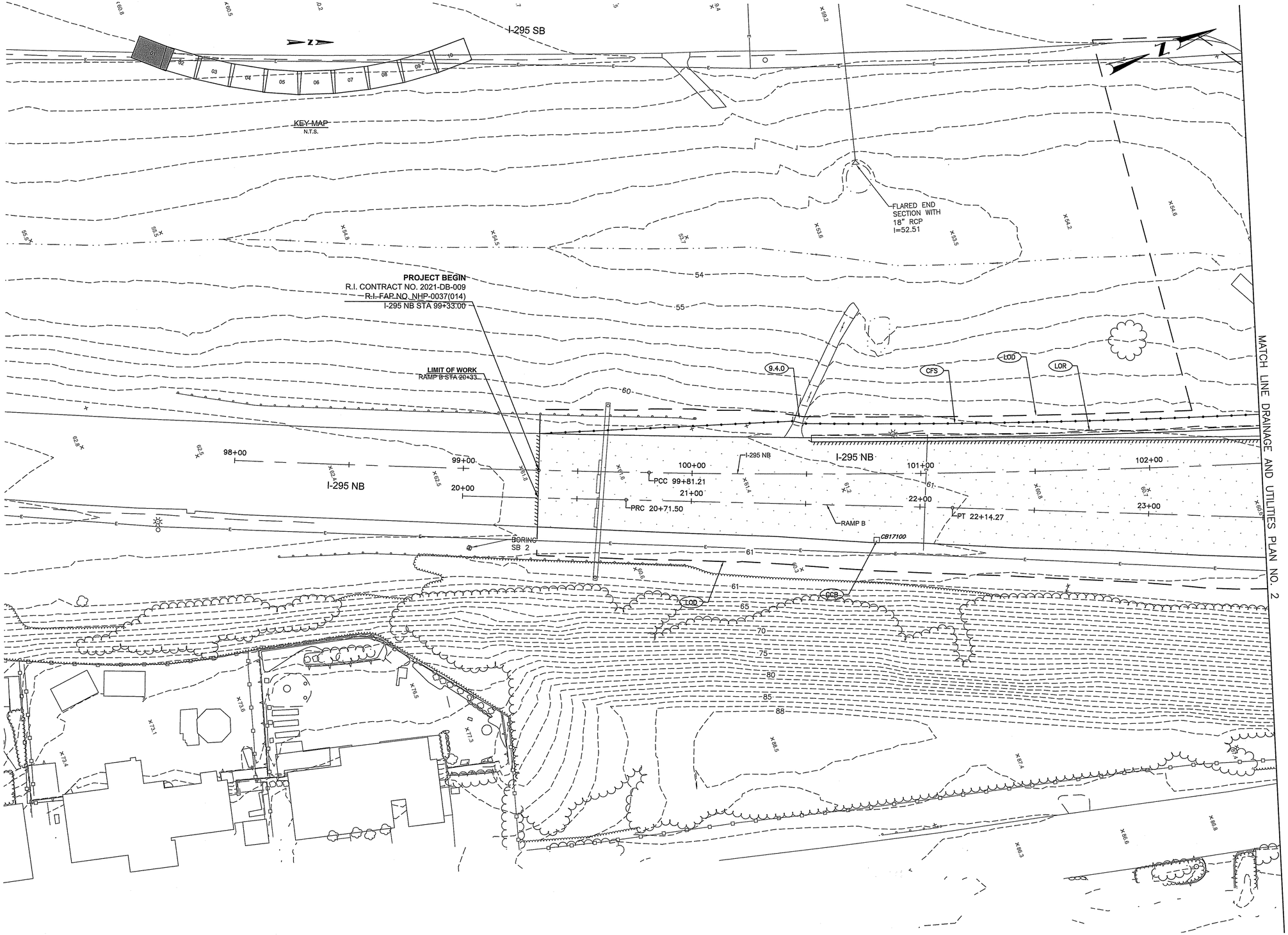
SCALE: 1" = 200'
200 0 100 200 400
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

D&U KEY PLAN NO. 3

C:\PWWORKING\USRI\DMS02032\0051B_V1_06-10_KEY(1).DWG PER DPM 450.06



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	1
OF:	--

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 1

C:\PWWORKING\USRI\DMS02032\0051B_V1_217-226_DRAINUTIL01.DWG PER DPM 450.06

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 1

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 3

I-295 SB

KEY MAP
N.T.S.

LIMIT OF WORK
RAMP A
STA 11+75

RAMP EN

BRIDGE NO. 062001
(SEE VOLUME 3)

(4') 4.4.0 4.7.2 6.1.1
STA. 12+10.8, 2.4' LT
RIM = 78.33
INV OUT = 73.83

(4') 4.4.0 4.7.2 6.1.1
STA. 12+38.3, 3.0' LT
RIM = 78.15
INV IN =73.56
INV OUT = 73.31

(4') 4.4.0 4.7.2 6.1.1
STA. 12+65.0, 3.0' LT
RIM = 78.29
INV IN =73.04
INV OUT = 68.80

27LF–12" RCP
S=0.010'/FT

27LF–12" RCP
S=0.010'/FT

147LF–15" RCP
S=0.059'/FT

38LF–15" RCP
S=0.050'/FT

PT 12+60.50

PC 13+26.42

(4') 4.4.0 4.7.2 6.1.1
STA 105+00.0, 14.9' LT
RIM = 59.53
INV OUT = 55.05

RETAINING WALL (SEE VOLUME 9)

BORING
RW 1

CB20887

209LF–12" RCP
S=0.01'/FT

I-295 NB

I-295-NB

PT 103+77.58

PC 107+14.18

BRIDGE NO. 135001
(SEE VOLUME 9)

DRAINAGE SWALE TO STU NO. 1
(SEE STORMWATER STU PLANS)

ACCESS ROAD TO STU NO. 1
(SEE STORMWATER STU PLANS)

LOCATION OF STORMWATER
TREATMENT UNIT STU NO. 1
(SEE STORMWATER STU PLANS)

(18") 2.3.0 ROP
STA 105+9, 82.3' LT
INV (IN SE) = 54.05

(15") 2.3.0 ROP
STA 107+83, 80.15' LT
INV (IN E) = 50.77

(4') 4.2.0 6.2.0 DCB DFG
STA 105+82.8, 40.0 LT
RIM = 71.5±
INV (IN SW) = 60.50
INV (OUT NW) = 55.94

ABM 6.2.1 DFG CMH
STA 107+80.3, 26.8' LT
RIM = 58.11
INV (IN S) = 52.28
INV (OUT W) = 51.28

(4') 4.4.0 4.7.2 6.1.1
STA 107+08.8, 15.8' LT
RIM = 57.65
INV (IN S) = 53.00
INV (OUT N) = 53.00

72LF–18" RCP
S=0.013'/FT

43LF–15" RCP
S=0.013'/FT

CB817110

RAMP EN

RETAINING WALLS (SEE VOLUME 9)

RAMP A

RAMP B

RAMP NE

CB817101

CB817102

CB817103

CB817109

BORING
B 102

BORING
RW 3

BORING
RW 4

RW-1

RW-2

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin B. Wencek

RI Environmental Management
JUN – 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	2
OF:	--

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 2

C:\PWWORKING\USRI\DMS02032\0051B_V1_217-226_DRAINUTIL01.DWG PER DPM 450.06

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 2

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 4

I-295 SB

I-295 NB

KEY MAP
N.T.S.

PAVED WATERWAY

LOCATION OF FLOOD COMPENSATORY STORAGE

FLARED END SECTION WITH 15" CMP I=47.94

FLARED END SECTION WITH 12" CMP I=47.29

STA 109+87.9, 21.6' LT
RIM = 55.75
ABM 6.2.1 DFG CMH

STA 109+15.9, 3.05' RT
RIM = 56.53
ABM RCC 6.2.1M DFG

STA 109+15.9, 39' RT
NEW RIM = 56.99
AB RCC 6.3.1 DFG

STA 20+74.2, 2.95' LT
RIM = 55.08
INV (OUT SE) = 48.33
(4') 4.4.0 4.7.2 6.1.1

STA 112+80.4, 40.3' RT
RIM = 55.17
INV (IN E) = 48.50
INV (OUT EXIST.) = 48.41
AB RCC 6.1.1 DFG

STA 112+80.2, 17.7' LT
RIM = 54.27
AB AFG

STA 33+01.1', 13.0' RT
RIM = 56.40
NEW INV (IN NE) = 47.68
NEW INV (IN NW) = 47.68
ABM 6.2.1M TNP CMH

STA 33+10.8, 19.0' RT
RIM = 56.12
INV (OUT) = 47.79
(4') 4.4.0 4.7.2 6.1.1

STA 33+96.2, 10.2' LT
RIM = 55.30
INV (OUT W) = 48.55
4.4.0 6.3.1

CB817112
CB230
CB20915
CB817104
CB910415
CB817105
MH910013
MH910014
MH910015
MH910016
MH910017
MH910018
MH910019
MH910020
MH910021
MH910022
MH910023
MH910024
MH910025
MH910026
MH910027
MH910028

RAMP A
RAMP B
RAMP NE
I-295 NB

BORING B110
BORING SB 4

LIMIT OF WORK
RAMP B
STA 31+98

ELEV. 57.5
ELEV. 57.0
ELEV. 55.6

PT 17+98.19
PC 34+22.52
PT 32+41.61

CONC. WALL & METAL RAIL
EXPANSION JOINT
BRIDGE ABUTMENT

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin B. Wencer

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
CHECKED BY: CED
DATE: 06/05/2023
SHEET: 3
OF: ---

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 3

C:\PWWORKING\USRI\DMS02032\0051B_V1_217-226_DRAINUTIL01.DWG PER DPM 450.06

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 3

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 5

KEY MAP
N.T.S.

LOCATION OF FLOOD COMPENSATORY STORAGE

LOCATION OF STORMWATER TREATMENT UNIT STU NO. 2 (SEE STORMWATER STU PLANS)

DRAINAGE SWALE AND STONE CHECK DAM TO STU NO. 2 (SEE STORMWATER STU PLANS)

DRAINAGE SWALE AND STONE CHECK DAM TO STU NO. 2 (SEE STORMWATER STU PLANS)

ACCESS ROAD TO STU NO. 2 (SEE STORMWATER STU PLANS)

TEST PIT ST-2

BRIDGE NO. 072851 (SEE VOLUME 6)

ONLY RT 37 WB

RT 37 EB

RT 37 WB

I-295 NB

RAMP A

RAMP B

MILE MARKER 3.6

LIMIT OF WORK
RAMP A
STA 25+00

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NOTE:
SEE LIGHTING PLANS FOR LIGHT STANDARDS, LUMINARIES, CONDUIT AND ELECTRICAL HANDHOLD INFORMATION AND DETAILS.

Aetna Bridge Company

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RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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SHEET:	4
OF:	---

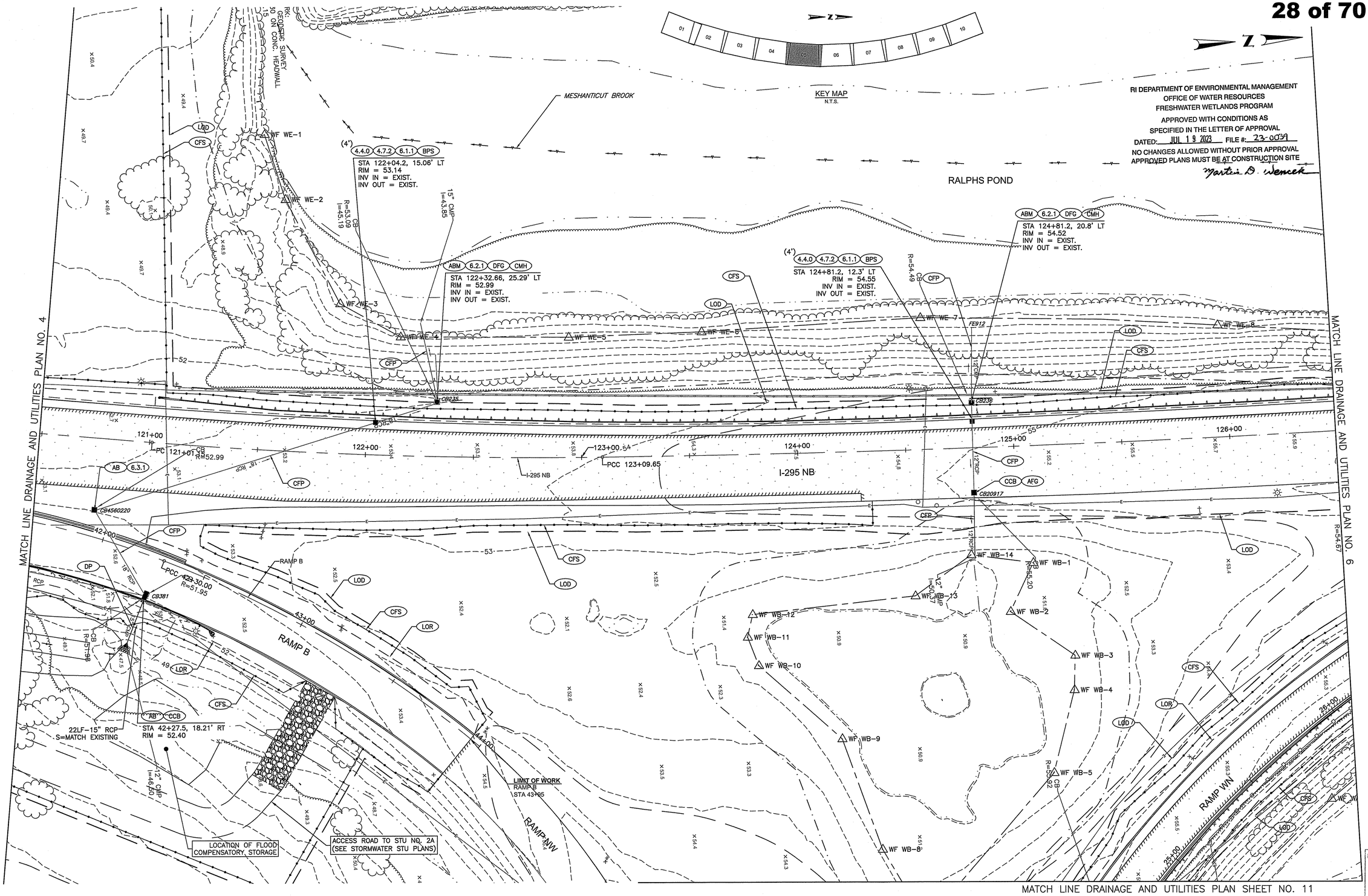
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GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 4

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SHEET:	5
OF:	---

SCALE: 1"=20'
GRAPHIC SCALE 10 0 5 10 20 40

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 5

C:\PWWORKING\USRI\DMS02032\0051B_V1_217-226_DRAINUTIL01.DWG PER DPM 450.06

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KEY MAP
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Martin D. Wencer

MESHANTICUT BROOK

RALPHS POND

AB RCC DFG 6.3.1
STA 127+80.5, 12.75' LT
RIM = 56.15

AB AFG
STA 130+80.8, 12.9' LT
RIM = 57.40

CB R=56.14

CB R=57.73

CB R=58.49

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 5

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 7

I-295 NB

RAMP WN

LIMIT OF WORK
RAMP WN
STA 29+34

AFG CCB

CB25966

CB237

CB238

LOD CFS CFP

WF WE-9c WF WE-9b WF WE-9a WF WE-10 WF WE-11 WF WE-12 WF WE-13 WF WE-14 WF WE-15

WF WA-18 WF WA-19 WF WA-20 WF WA-21 WF WA-22 WF WA-23 WF WA-24 WF WA-25

WF WA-1AB ISCD

WF WA-2

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JUN - 7 2023
Office of Water Resources

DESIGNED BY:	JTS	SCALE: 1"=20'			
CHECKED BY:	CED	GRAPHIC SCALE 10 0 5 10 20 40			
DATE:	06/05/2023	REVISIONS NO. DATE BY	REVISIONS NO. DATE BY		
SHEET:	6				
OF:	---				

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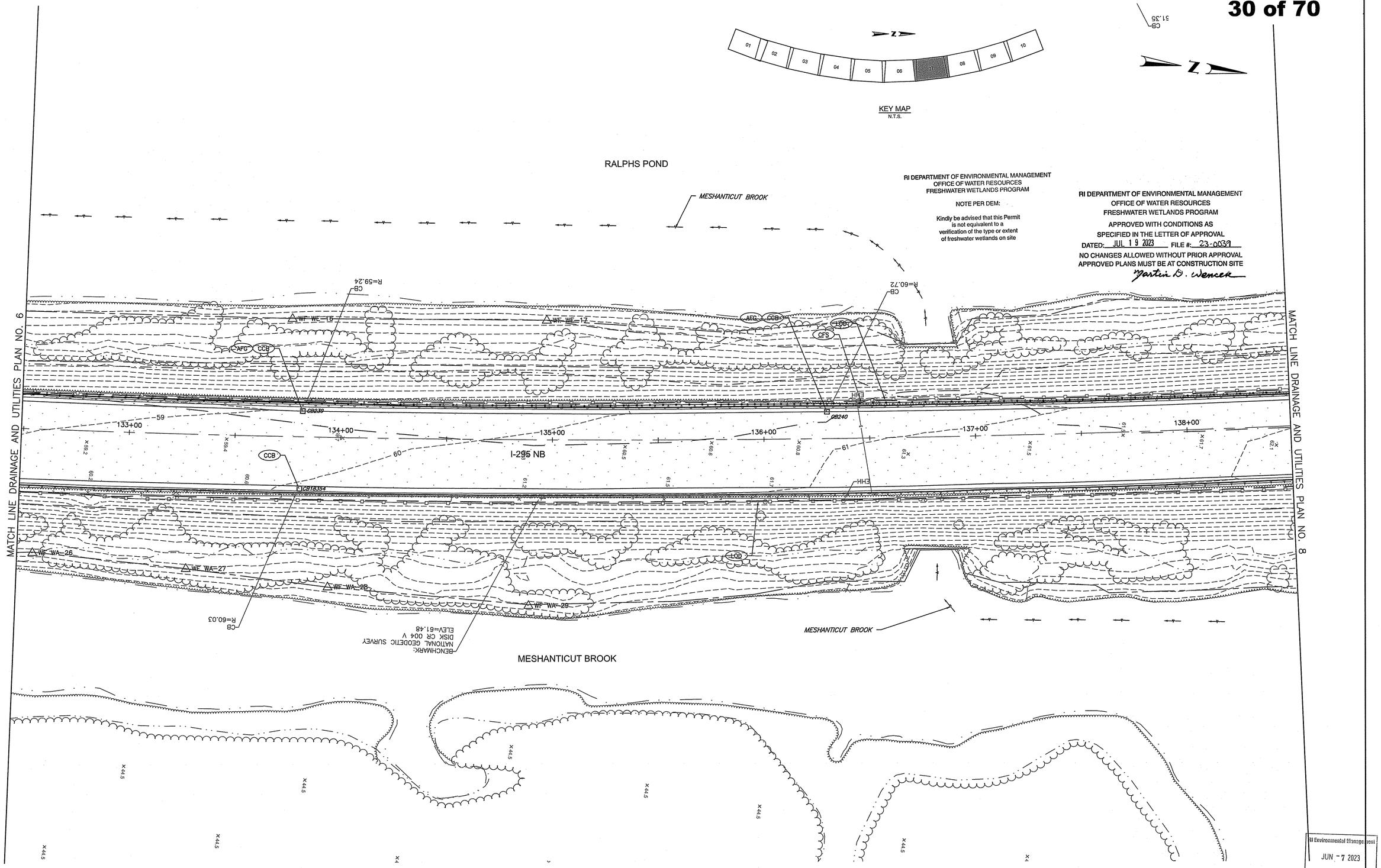
AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 6

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OF:	---

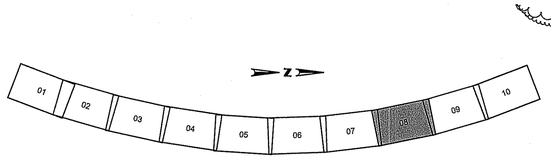
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GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 7

C:\PWWORKING\USRI\DMS02032\0051B_V1_217-226_DRAINUTIL01.DWG PER DPM 450.06



KEY MAP
N.T.S.

RALPHS POND

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MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 7

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 9

CB R=62.42
CB R=64.07
EMH
CB R=62.78
CB241
CB242
CB18354
LOD
CFS
CCB
AFG
62
63
64
65
139+00
140+00
141+00
142+00
143+00
144+00
I-295 NB
MESHANTICUT BROOK

RI Environmental Management
JUN - 7 2023
Office of Water Resources

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DATE:	06/05/2023
SHEET:	8
OF:	---

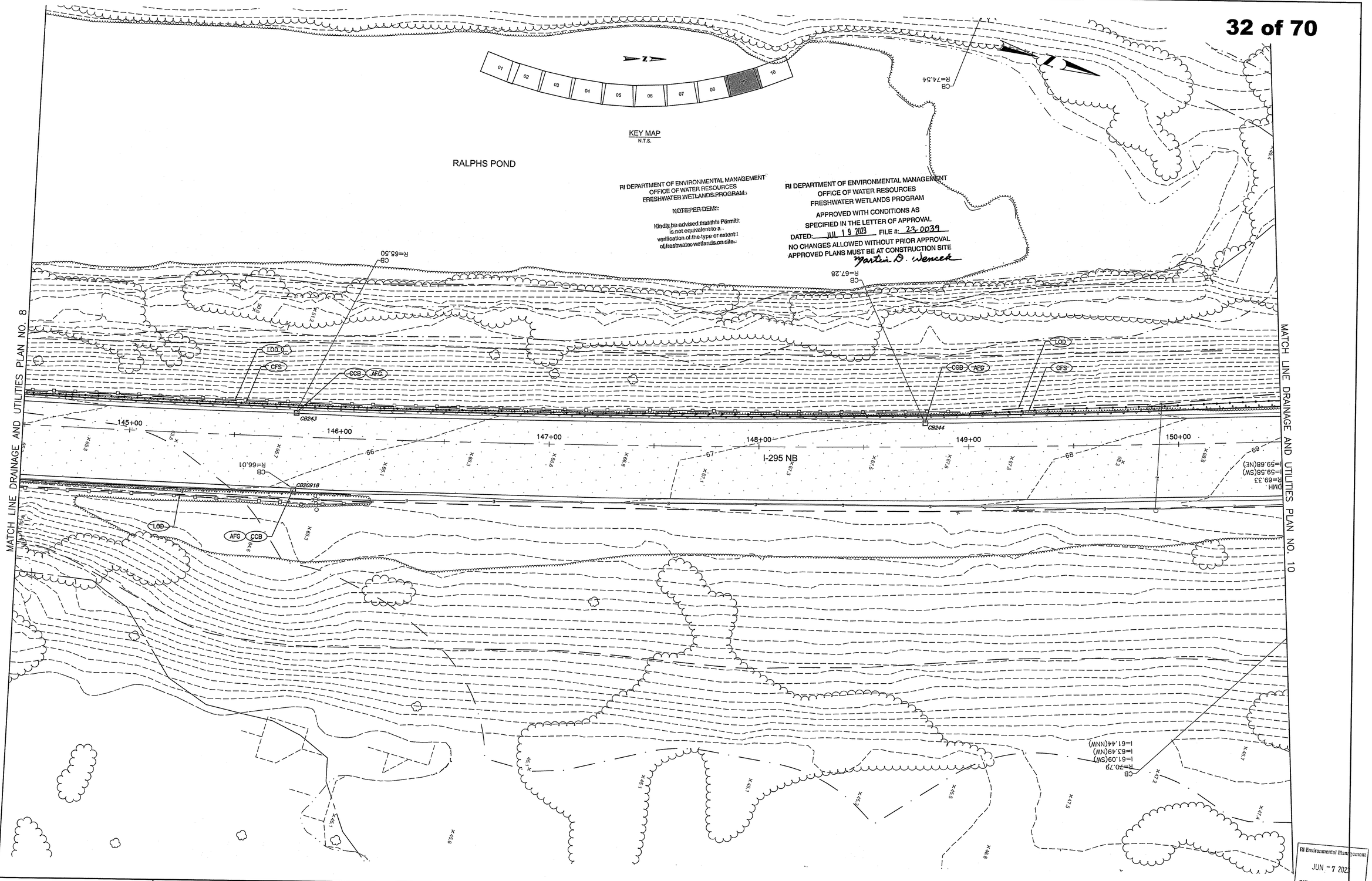
SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 8

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SHEET:	9
OF:	--

SCALE: 1"=20'
GRAPHIC SCALE 10 0 5 10 20 40

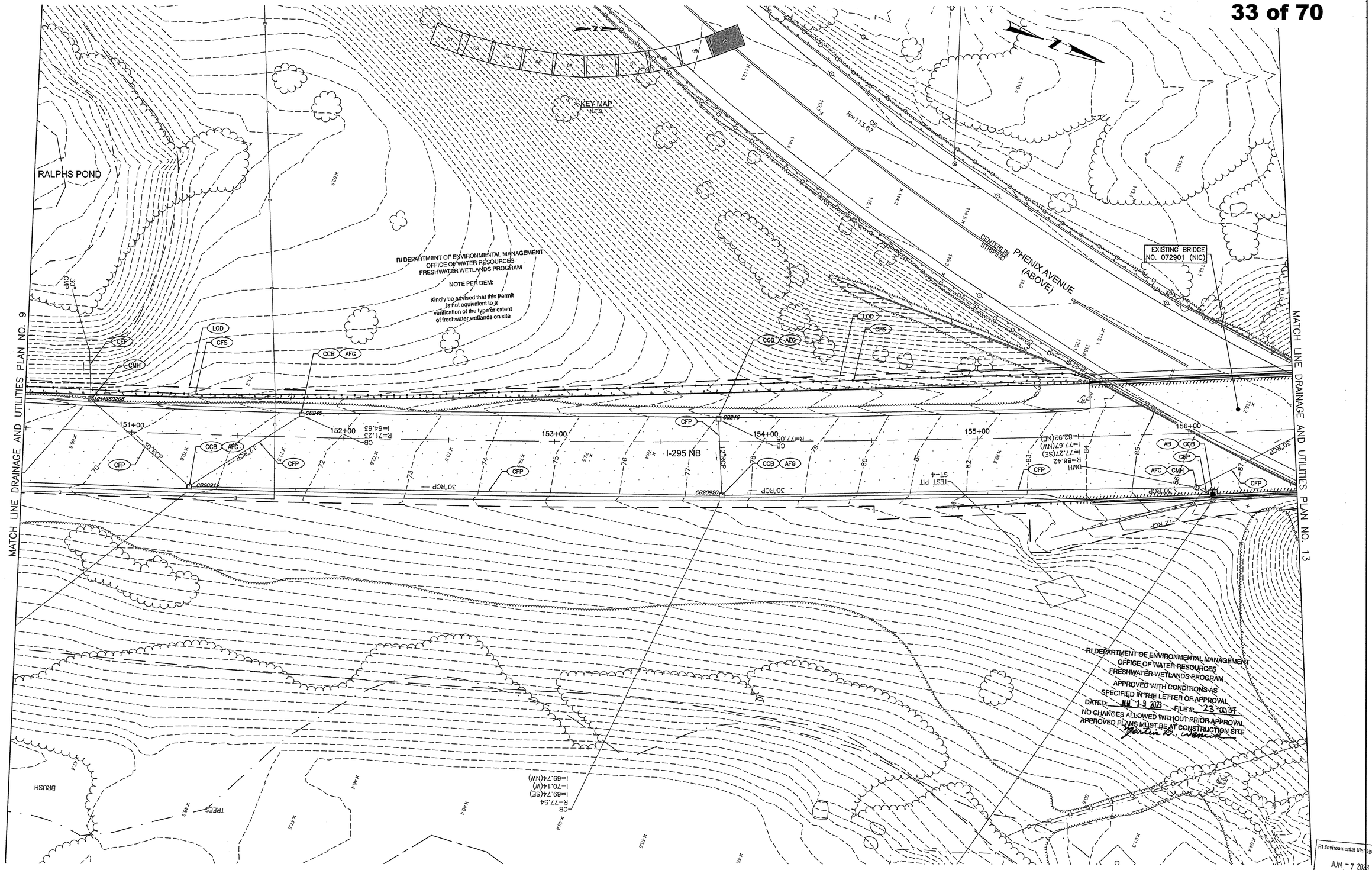
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 9

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DEPARTMENT OF TRANSPORTATION

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OF:	--

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 10

C:\PWWORKING\USRI\DMS02032\0051B_V1_217-226_DRAINUTIL01.DWG PER DPM 450.06

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Martin D. Wencek

KEY MAP N.T.S.

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 32

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 12

RAMP NW

RAMP WN

CRANSTON STREET

BRIDGE NO. 083151 (SEE VOLUME 8)

LOD

CFS

LOR

AB

CCB

CFP

CONC. CURB

CONC. WALK

CENTERLINE STRIPING

5'CLF

3'CLF

METAL GUARD RAIL

RIPRAP

17+00

18+00

19+00

20+00

21+00

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DATE:	06/05/2023		
SHEET:	11		
OF:	---		

GRAPHIC SCALE

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NO.	DATE	BY	NO.	DATE	BY

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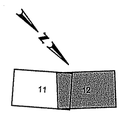
AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 11

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KEY MAP
N.T.S.

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 11

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 5

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 6

RAMP NW

RAMP WN

WETLAND A

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OF:	--

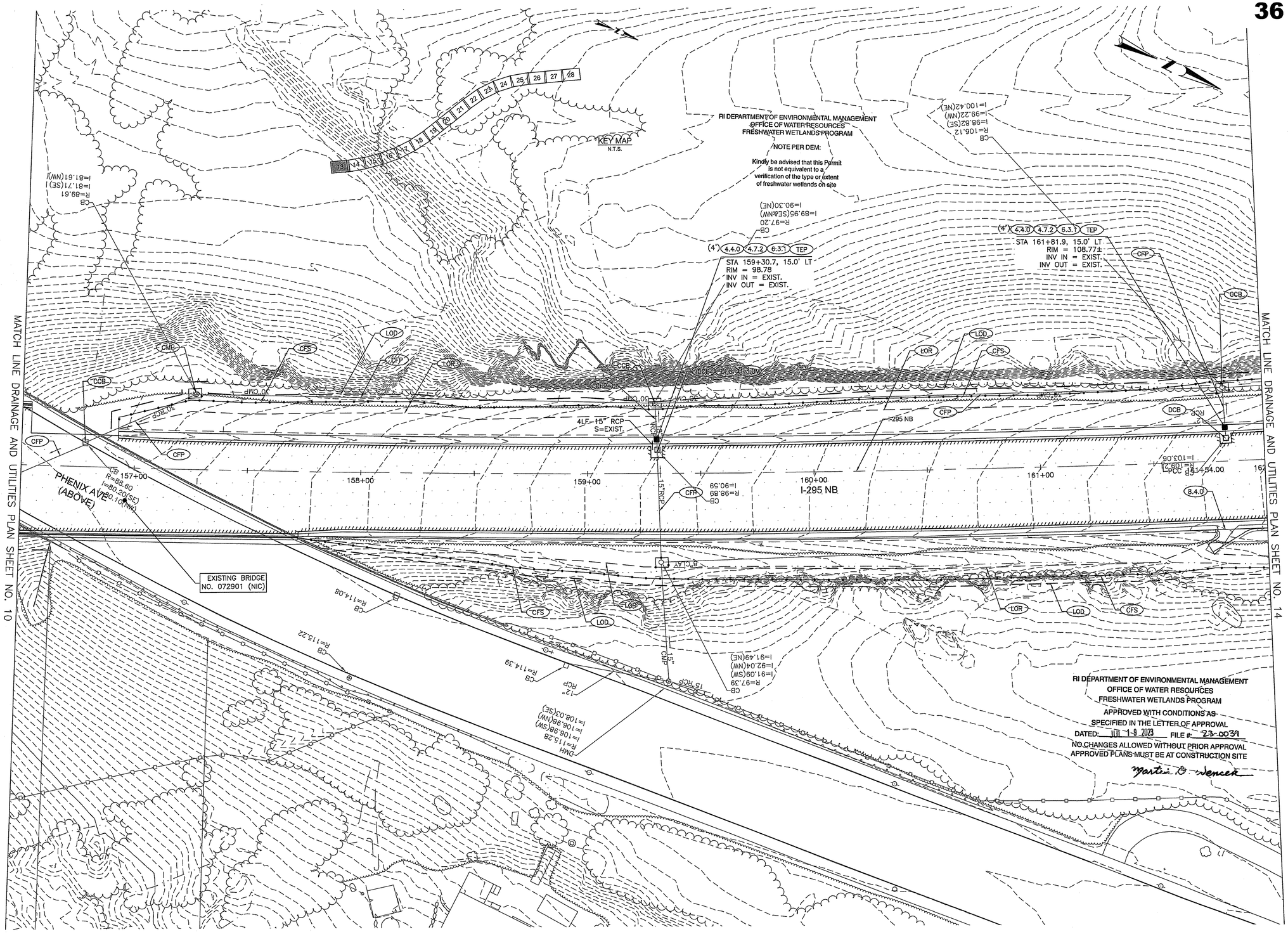
SCALE: 1"=20'
10 0 10 20 40
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 12

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C:\PWWORKING\USR\DMS02032\FWWP_D&U03.DWG PER DPM 450.06

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 13

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 15

KEY MAP
N.T.S.

13 14 16 18 17 18 19 20 21 22 23 24 25 26 27 28

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(4') 4.4.0 4.7.2 6.3.1 TEP
STA 164+34.3, 15.0' LT
RIM = 118.95
INV IN = EXIST.
INV OUT = EXIST.

(4') 4.4.0 4.7.2 6.3.1 TEP
STA 166+80.5, 15.0' LT
RIM = 128.87
INV IN = EXIST.
INV OUT = EXIST.

CFR LOR CFS LOD DCB DEC 1.3-0M CFP 30"CMP 12"RCP 4 LF 12" RCP S=EXIST. I-295 NB 12"RCP 8"CLAY 8.4.0 CB R=119.19 I=111.59(NE) I=111.59(SW) CB R=129.03 I=124.93 CB R=126.19 I=120.19(NE) I=119.64(NW) I=119.64(SE) 163+00 164+00 165+00 166+00 167+00 168+00

Rhode Island Environmental Management
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OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
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HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 14

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MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 14

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 16

KEY MAP
N.T.S.

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STA 169+31.8, 15.0' LT
RIM = 138.55
INV (IN) = EXIST.
INV (OUT) = EXIST.

STA 171+81.35, 33.08' LT
RIM = 145.90
INV (OUT) = 140.47
NEW INV (IN) = 140.41

STA 171+81.41, 16.0' LT
RIM = 148.71
INV (IN) = EXIST.
INV (OUT) = EXIST.

3LF-12" RCP
S=2.0%

I-295 NB

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FRESHWATER WETLANDS PROGRAM

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Office of Water Resources

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CHECKED BY:	CED	GRAPHIC SCALE			
DATE:	06/05/2023	REVISIONS NO.	DATE	BY	REVISIONS NO. DATE BY
SHEET:	15				
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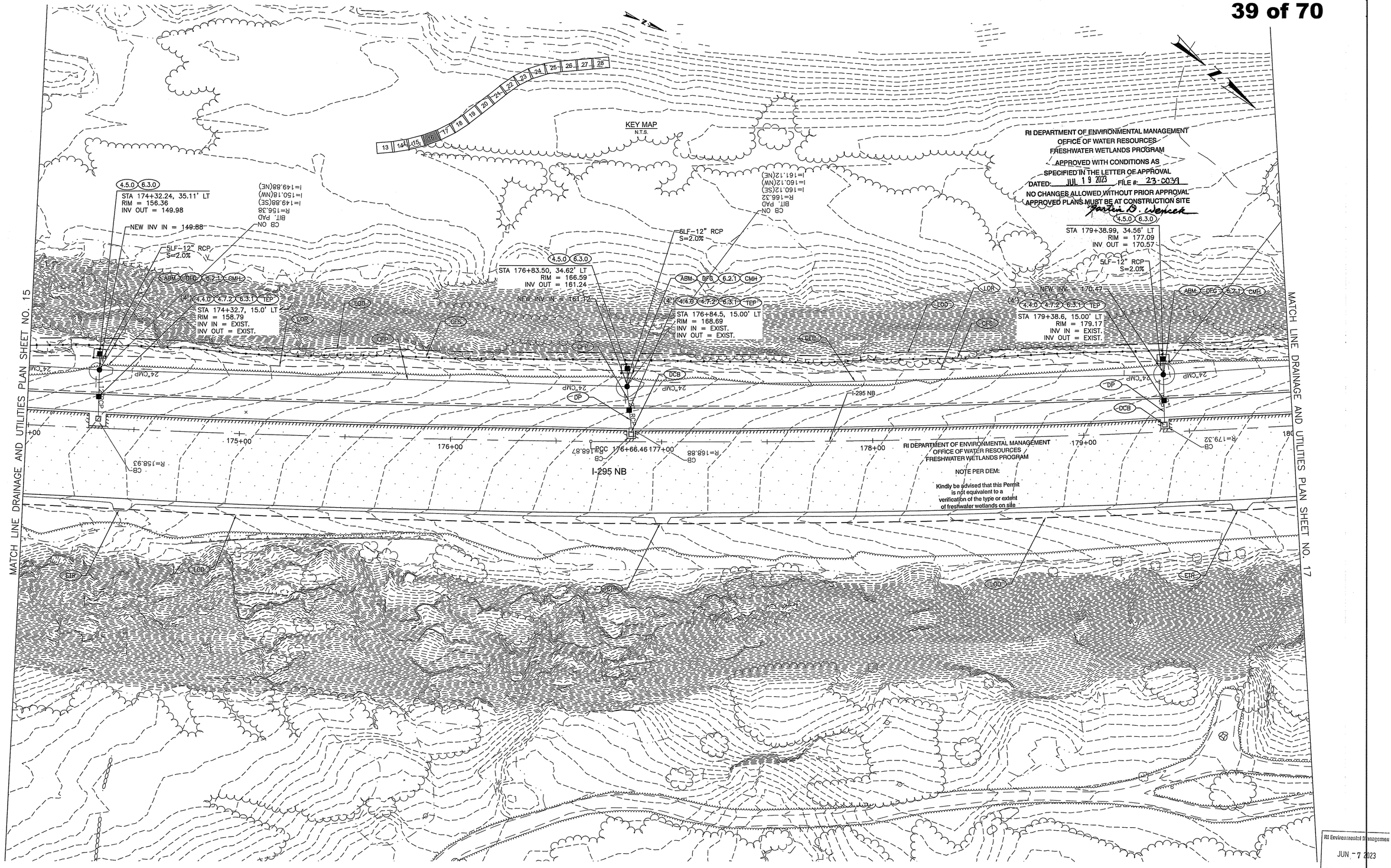
AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 15

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AETNA Aetna Bridge Company	AECOM		RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION		

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	16
OF:	--

SCALE: 1"=20'
10 0 5 10 20 40
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 16

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Martin D. Wencek

KEY MAP
N.T.S.

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 16

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 18

I-295 NB

STA 181+82.7, 34.08' LT
RIM = 187.04
INV OUT = 140.47
5LF-12" RCP
S=2.0%
NEW INV IN = 140.41

STA 181+83.4, 15.0' LT
RIM = 189.04
INV IN = EXIST.
INV OUT = EXIST.

STA 184+28.9, 33.5' LT
RIM = 197.41
INV OUT = 189.91
5LF-12" RCP
S=2.0%
NEW INV IN (N) = 189.81
NEW INV IN (S) = 189.81

STA 184+33.2, 15.0' LT
RIM = 199.04
INV IN = 190.54
INV OUT = 190.54

12LF-12" RCP
S=0.83%

4.5.0 6.3.0 ABM DFG 6.2.1 CMH (4') 4.4.0 4.7.2 6.3.1 TEP DCB 1.3.0M CFP DP LOD LOR GFS GFA EETR

24"CMP 18"CMP 12" RCP 8" CLAY

+00 181+00 182+00 183+00 184+00 185+00 186+00

CB ON BIT. PAD R=176.92 I=170.42(SE) I=170.52(NW) I=170.47(NE)

CB ON BIT. PAD R=186.44 I=180.14(SE) I=180.19(NW) I=180.29(NE)

CB R=189.08

CB ON BIT. PAD R=196.61 I=190.01(SE) I=190.81(NW) I=189.81(NE)

CB R=199.34 I=190.64

CB R=196.77 I=191.07(SW) I=191.97(NW) I=192.07(SE)

RI Environmental Management
JUN - 7 2023
Office of Water Resources

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
CHECKED BY: CED
DATE: 06/05/2023
SHEET: 17
OF: ---

SCALE: 1"=20'
GRAPHIC SCALE 10 0 10 20 40

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 17

C:\PWWORKING\USRI\DMS02032\FWWP_D&U03.DWG PER DPM 450.06

KEY MAP
N.T.S.

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencker

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEMI:
Kindly be advised that this Permitt is not equivalent to a verification of the type or extent of freshwater wetlands on site.

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 17

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 19

STA 186+82.0, 15.0' LT
RIM = 208.8
INV IN = EXIST.
INV OUT = EXIST.

STA 189+35.9, 15.0' LT
RIM = 219.10
INV IN = EXIST.
INV OUT = EXIST.

STA 191+83.9, 15.0' LT
RIM = 228.99
INV IN = EXIST.
INV OUT = EXIST.

I-295 NB

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AETNA Aetna Bridge Company	AECOM	RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION	

DESIGNED BY: JTS
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DATE: 06/05/2023
SHEET: 18
OF: --

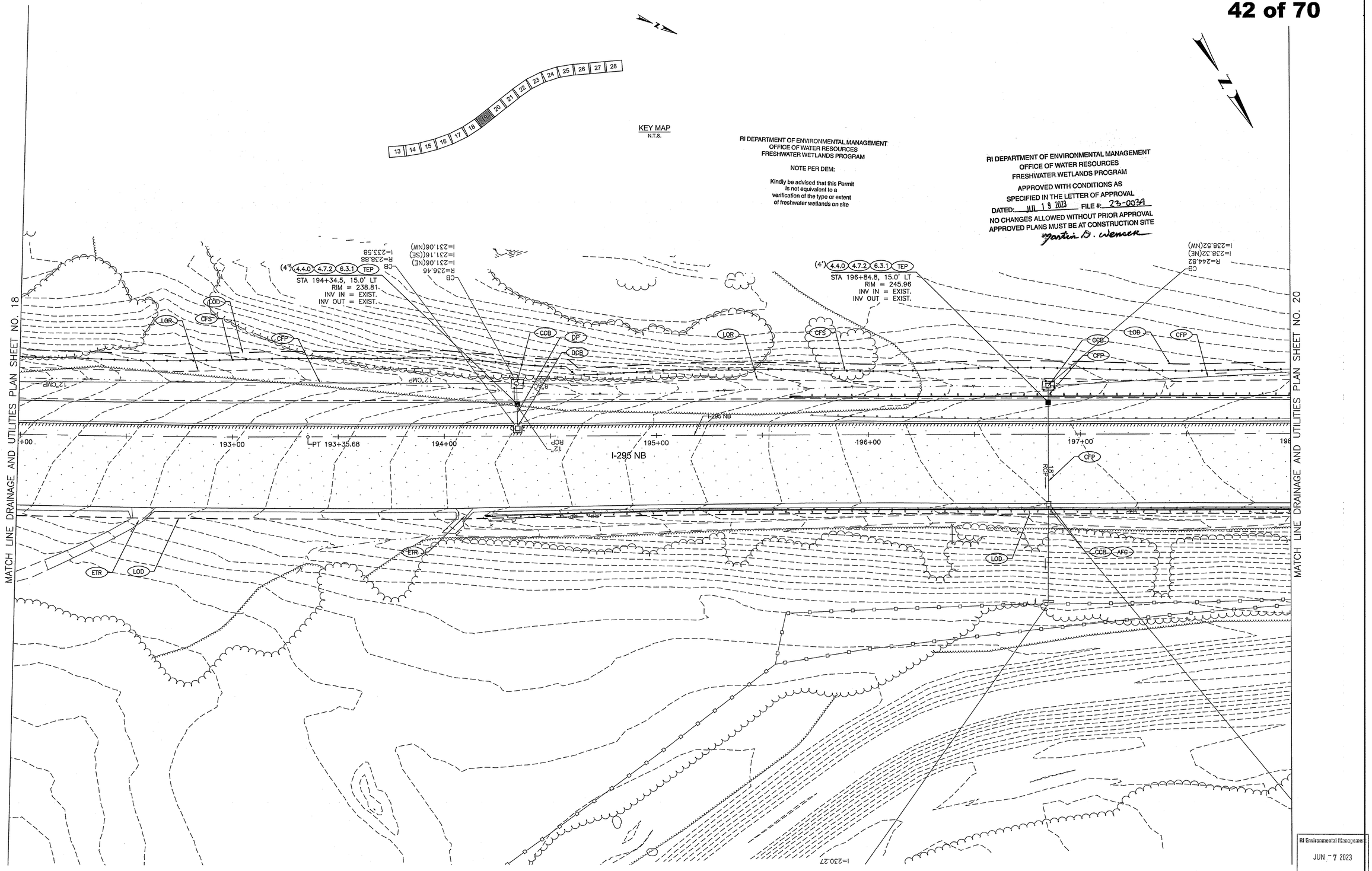
SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 18

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JUN - 7 2023
Office of Water Resources

Aetna Bridge Company	AECOM		RHODE ISLAND DEPARTMENT OF TRANSPORTATION	DESIGNED BY: JTS CHECKED BY: CED DATE: 06/05/2023 SHEET: 19 OF: ---	SCALE: 1"=20' GRAPHIC SCALE REVISIONS NO. DATE BY / REVISIONS NO. DATE BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON — RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 19

C:\PWWORKING\USRI\DMS02032\FWWP_D&U03.DWG PER DPM 450.06

KEY MAP
N.T.S.

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 19

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 21

I-295 SB

I-295 NB

(4') 4.4.0 4.7.2 6.3.1 TEP
STA 199+35.0, 15.0' LT
RIM = 250.64
INV IN = 245.67
INV OUT = 245.57

DCB DFG 1.3.0M TEP

CFP

LOR

NEW INV (IN)=243.0±

13LF–12" RCP
S=10±%

13LF–12" RCP
S=2.0%

18" RCP

12" RCP

COB

LOD

CFS

DP

CCB AFG

CB R=253.88

CB R=254.72

CB R=249.07
I=238.87(SE)
I=239.07(SW)
I=239.47(NE)

CB R=250.42
I=243.99(SW)
I=245.89(NE)

CB R=246.03
I=246.90

CB R=245.86
I=237.01(NE)
I=237.06(SW)

CB R=246.73
I=238.73(NE)
I=239.73(SW)

199+00 200+00 201+00 202+00 203+00

EXISTING BRIDGE
NO. 073021 (NIC)

PWSB AQUEDUCT AND ARCH
CULVERT (UNDER I–295)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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RI Environmental Management
JUN – 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
CHECKED BY: CED
DATE: 06/05/2023
SHEET: 238
OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 20

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wencek

KEYMAP N.T.S.

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 20

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 22

I-295 SB

I-295 NB

I-295 NB

(4') 4.4.0 4.7.2 6.3.1 TEP
STA 204+33.2, 15.0' LT
RIM = 249.40
INV IN = 245.54±
INV OUT = 245.54±

17LF–12" RCP
S=0.005'/FT (MIN.)

(4') 4.2.0 4.7.2
STA 204+51.52, 21.8' LT
RIM = 249.23
INV IN = EXIST.
INV OUT = EXIST.

11LF–12" RCP
S=0.005'/FT
(MIN.)

(4') 4.4.0 4.7.2 6.3.1 TEP
STA 209+09.2, 15.0' LT
RIM = 237.491
INV OUT = EXIST.

CB R=248.79

CB R=243.57

CB R=243.72

CB R=238.24
UNABLE TO OPEN
GRATE CRACKED

CB R=248.07
I=242.67(NE)
I=243.62(SW)

CB R=243.00
I=242.50

CONCRETE HEADWALL WITH 42" RCP I=220.88

CONCRETE HEADWALL WITH 42" RCP I=220.75

FLARED END SECTION WITH 12" CMP I=224.76

FLARED END SECTION WITH 12" RCP I=232.71

205+00 206+00 207+00 208+00 209+00

LOD CFS LOR CFP DP 8.4.0 ETR DCB DFG 1.3.0M TEP CCB AFG

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JUN - 7 2023
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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
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OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
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HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 21

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KEY MAP
N.T.S.

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

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FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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Martin D. Wencek

I-295 SB

STONE CHECK DAM (SEE STORMWATER STU PLANS AND DETAILS)

LOD
CFS

LOCATION OF A STORMWATER TREATMENT UNIT STU NO. 4

CB
R=238.72

LOD
CFS
LOR

B.4.0

EXTENDED EXISTING PAVED WATERWAY (SEE STORMWATER STU PLANS)

EXTENDED EXISTING PAVED WATERWAY (SEE STORMWATER STU PLANS)

I-295 NB
FLARED END SECTION WITH 18" RCP
T=225.26

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 21

+00
PC 211+00.64
212+00
213+00
214+00
215+00

I-295 NB

ETR
LOD
ETR
ETR
LOD

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 23

RI Environmental Management
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Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
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DATE: 06/05/2023
SHEET: 22
OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 22

C:\PWWORKING\USRI\DMS02032\FWWP_D&U03.DWG PER DPM 450.06

KEY MAP
N.T.S.

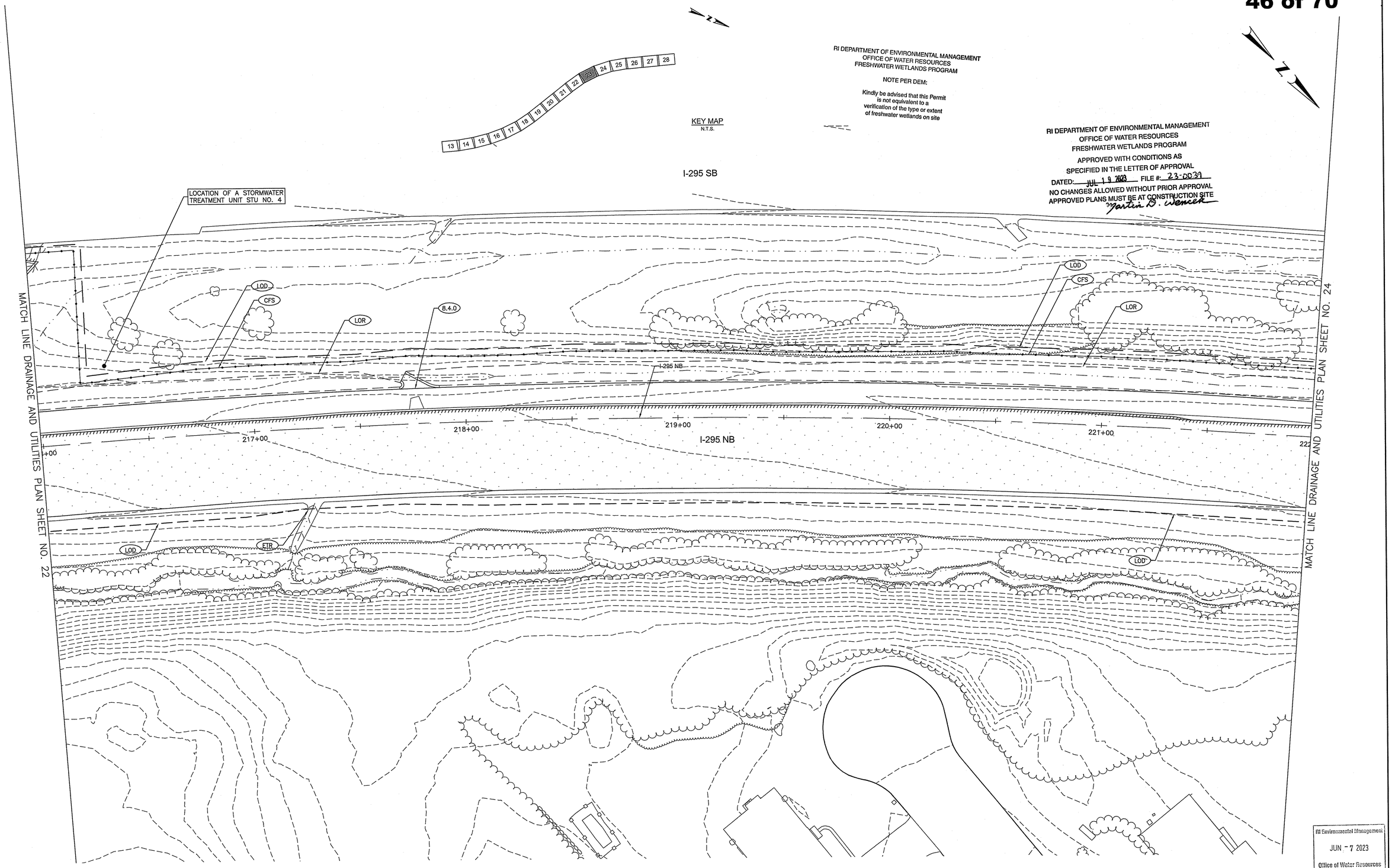
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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RI Environmental Management
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RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
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DATE: 06/05/2023
SHEET: 23
OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 23

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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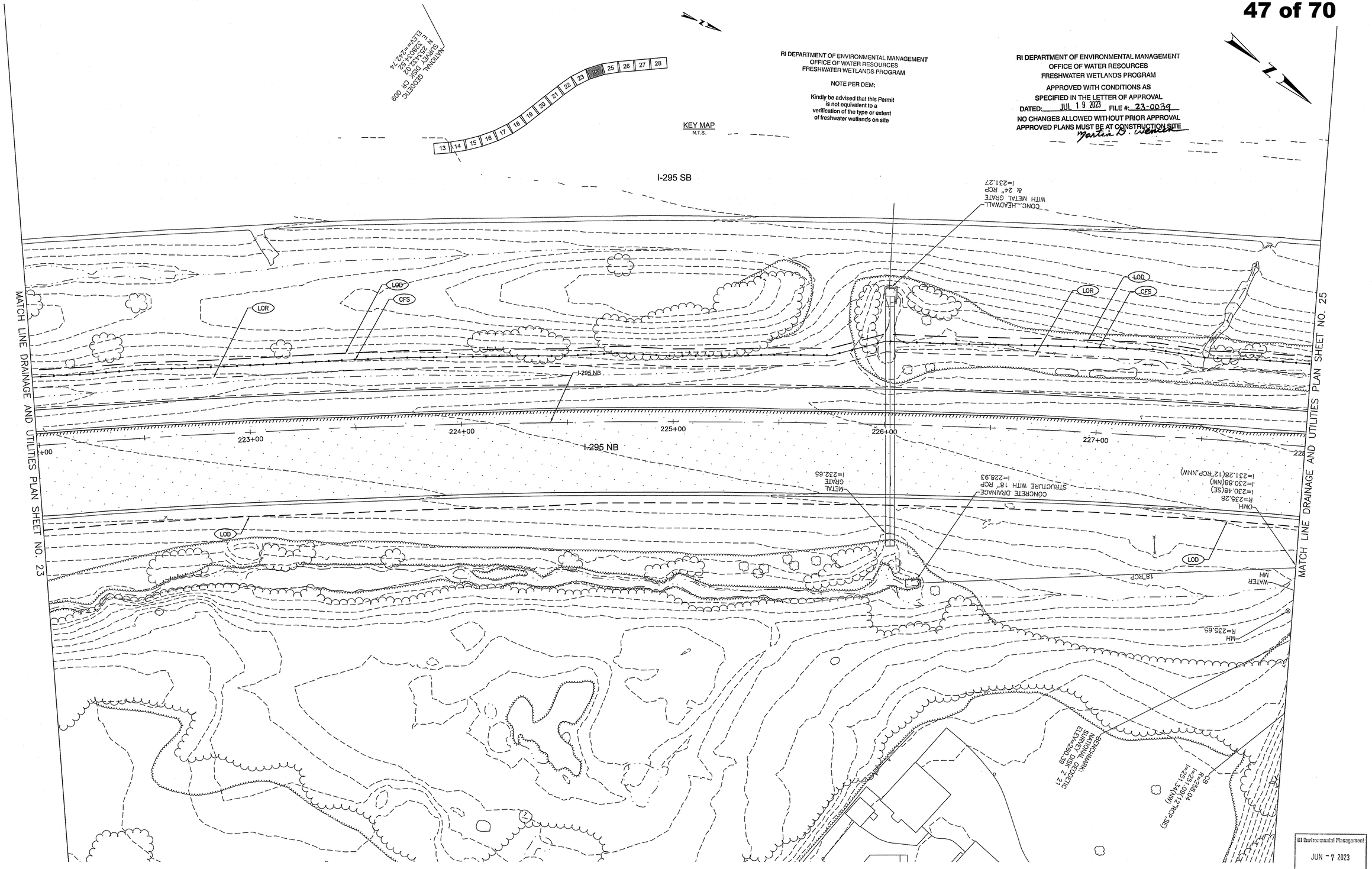
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

KEY MAP
N.T.S.



RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company	AECOM		RHODE ISLAND DEPARTMENT OF TRANSPORTATION		

DESIGNED BY: JTS
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DATE: 06/05/2023
SHEET: 24
OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 24

C:\PWWORKING\USRI\DMS02032\FWWP_D&U03.DWG PER DPM 450.06

KEY MAP
N.T.S.

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wencer

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 24

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 26

SCITUATE AVENUE (OVER)

I-295 SB

I-295 NB

CB R=242.42 I=235.62(NE) I=237.22(NW)

18"RCP

FLARED END SECTION WITH 18" RCP I=236.27

STONE CHECK DAM (SEE STORMWATER STU PLANS AND DETAILS)

LOCATION OF A STORMWATER TREATMENT UNIT STU NO. 5

EXTENDED EXISTING PAVED WATERWAY (SEE STORMWATER STU PLANS)

LOD
CFS
LOR
ROP
B:4.0

229+00
230+00
231+00
232+00
233+00
PT 233+23

12" RCP I=235.15

EXISTING BRIDGE NO. 073101 (NIC)

CB R=256.63 I=233.13

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FRESHWATER WETLANDS PROGRAM

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RI Environmental Management
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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: JTS
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OF: --

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 25

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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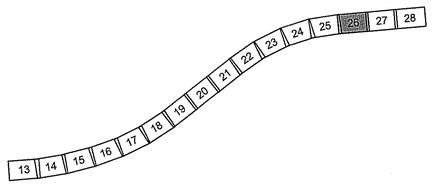
NOTE PER DEM:

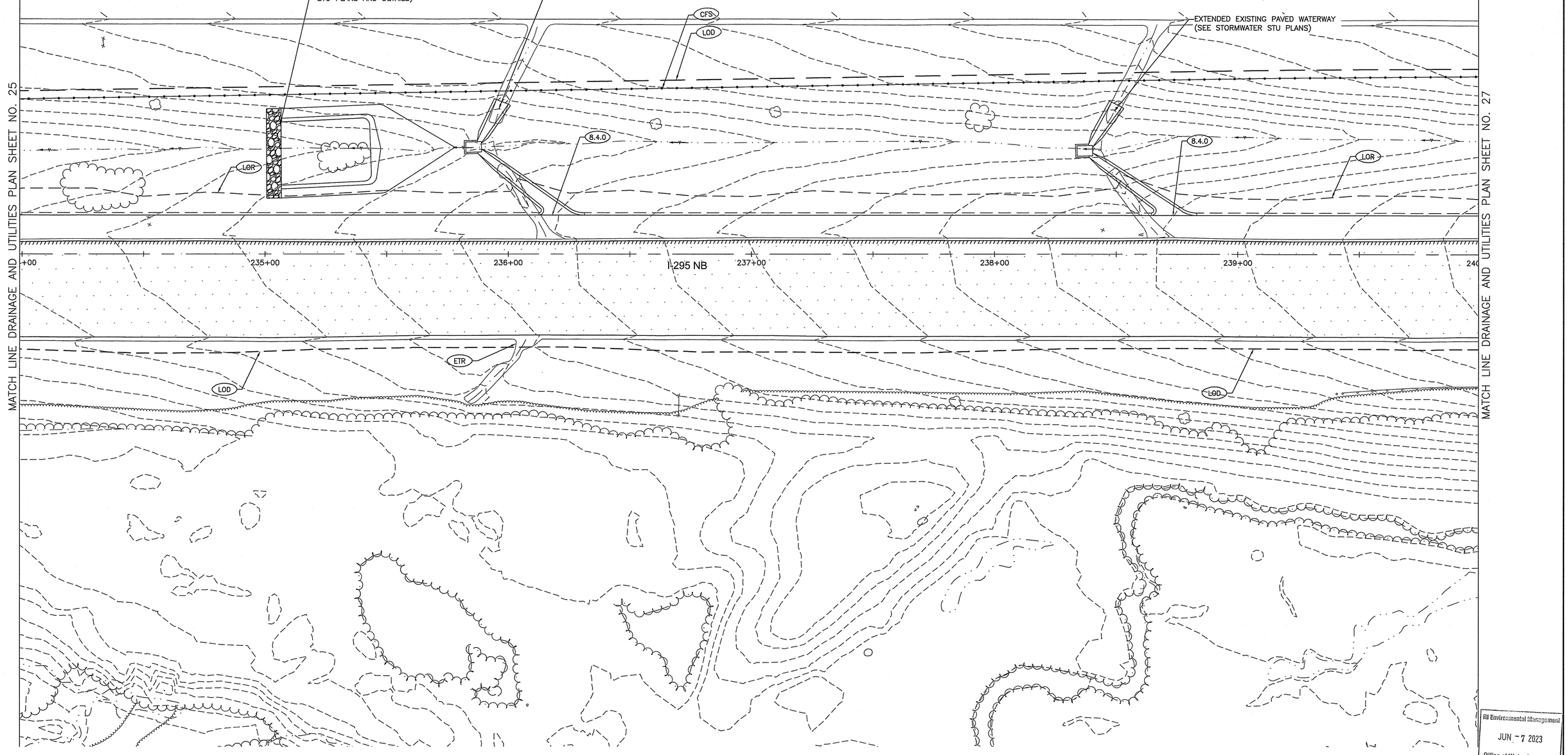
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FRESHWATER WETLANDS PROGRAM

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by Martin D. Wencer

KEY MAP
N.T.S.





RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
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DATE:	06/05/2023
SHEET:	26
OF:	---

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 26

C:\PWWORKING\USRI\DMS02032\FWWP_D&U03.DWG PER DPM 450.06

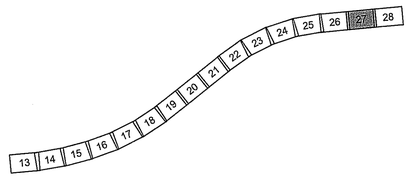
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Karen D. Evencer

KEY MAP
N.T.S.

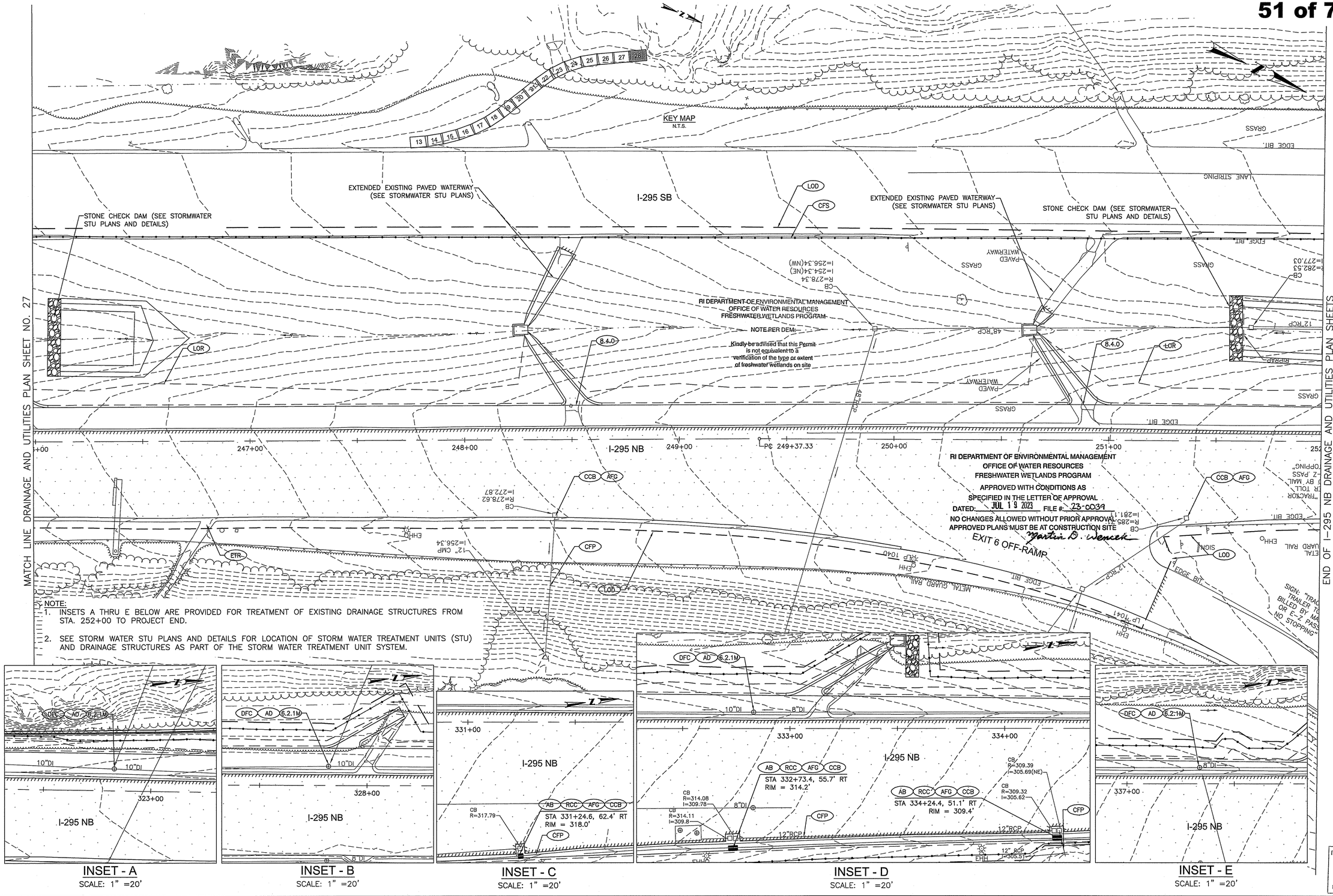


Rl Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company	AECOM		RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION		DESIGNED BY: JTS CHECKED BY: CED DATE: 06/05/2023 SHEET: 27 OF: ---	SCALE: 1"=20' GRAPHIC SCALE	HIGHWAY BRIDGE GROUP 51B: RT 37 C-3 VOLUME: 01 CRANSTON/JOHNSTON RHODE ISLAND DRAINAGE AND UTILITIES PLAN NO. 27

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

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NOTE:
1. INSETS A THRU E BELOW ARE PROVIDED FOR TREATMENT OF EXISTING DRAINAGE STRUCTURES FROM STA. 252+00 TO PROJECT END.
2. SEE STORM WATER STU PLANS AND DETAILS FOR LOCATION OF STORM WATER TREATMENT UNITS (STU) AND DRAINAGE STRUCTURES AS PART OF THE STORM WATER TREATMENT UNIT SYSTEM.

INSET - A
SCALE: 1" =20'

INSET - B
SCALE: 1" =20'

INSET - C
SCALE: 1" =20'

INSET - D
SCALE: 1" =20'

INSET - E
SCALE: 1" =20'

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
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DATE:	06/05/2023
SHEET:	28
OF:	---

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 28

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BEGINNING OF RT. 37 DRAINAGE AND UTILITIES PLAN SHEETS

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 30

KEY MAP
N.T.S.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Paul D. Vemeck

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
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RT 37 WB
RT 37 EB
RAMP SE
RT. 37
I-295 SB
I-295 SB
BRIDGE NO. 072871 (SEE VOLUME 7)
LIMIT OF WORK RT. 37 STA 101+11
102+00
103+00
104+00
105+00
106+00
CB R=73.33
CB R=73.48
CB R=73.38
CB R=73.24
CB R=52.40
CB R=75.12
CB R=74.99
CB R=51.27
CB R=51.21
12" RCP
AB 6.3.1 CCB
CCB
CFS
LOR
LOD
Inv=49.4
Inv=47.0
Inv=47.2

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	29
OF:	---

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 29

C:\PWWORKING\USRI\DMS02032\FWWP_D&U04.DWG PER DPM 450.06

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 29

MATCH LINE DRAINAGE AND UTILITIES PLAN NO. 31

KEY MAP N.T.S.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	30
OF:	---

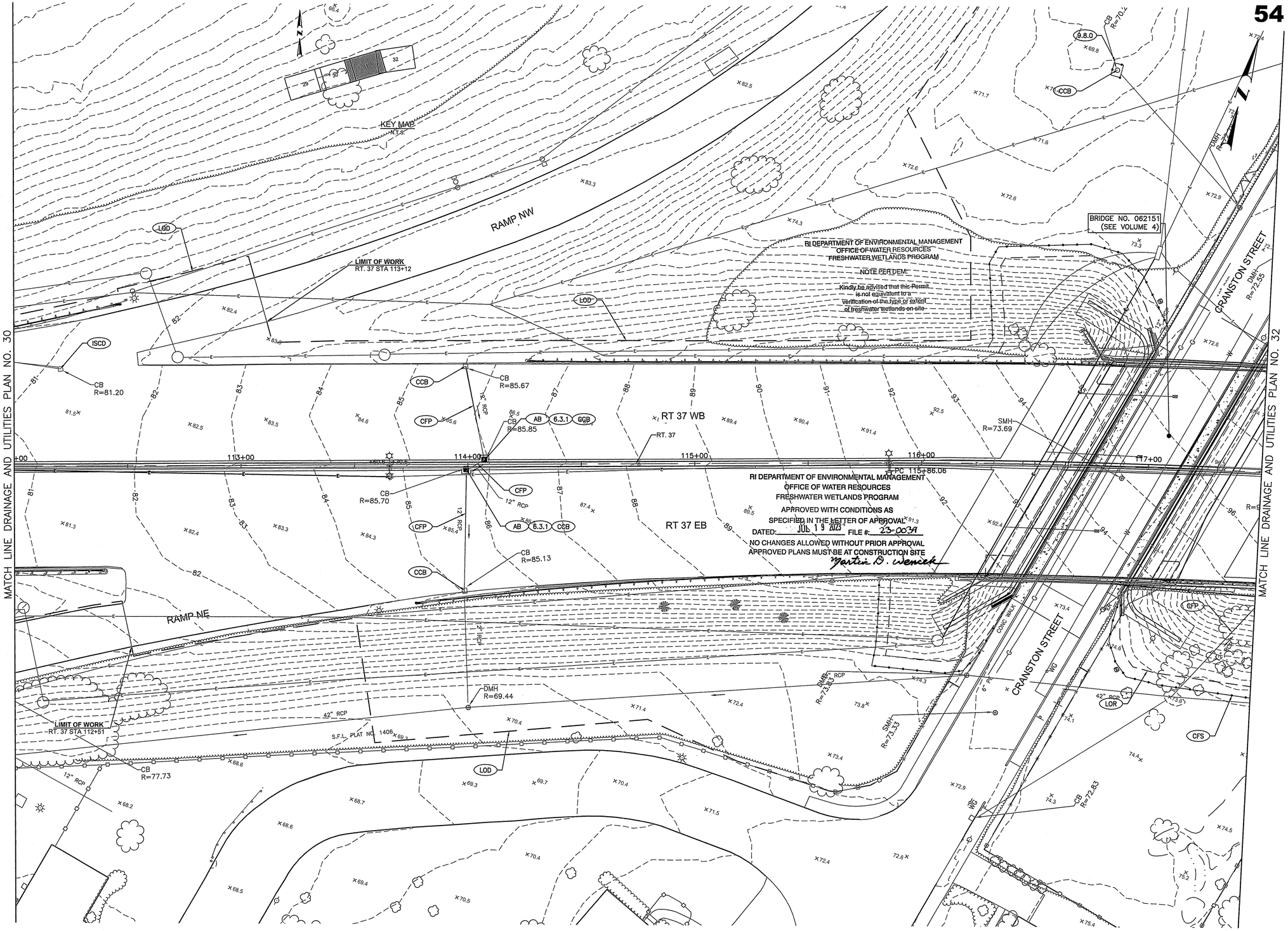
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GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 30

C:\PWWORKING\USRI\DMS02032\FWWP_D&U04.DWG PER DPM 450.06



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Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	31
OF:	---

SCALE: 1"=20'
GRAPHIC SCALE

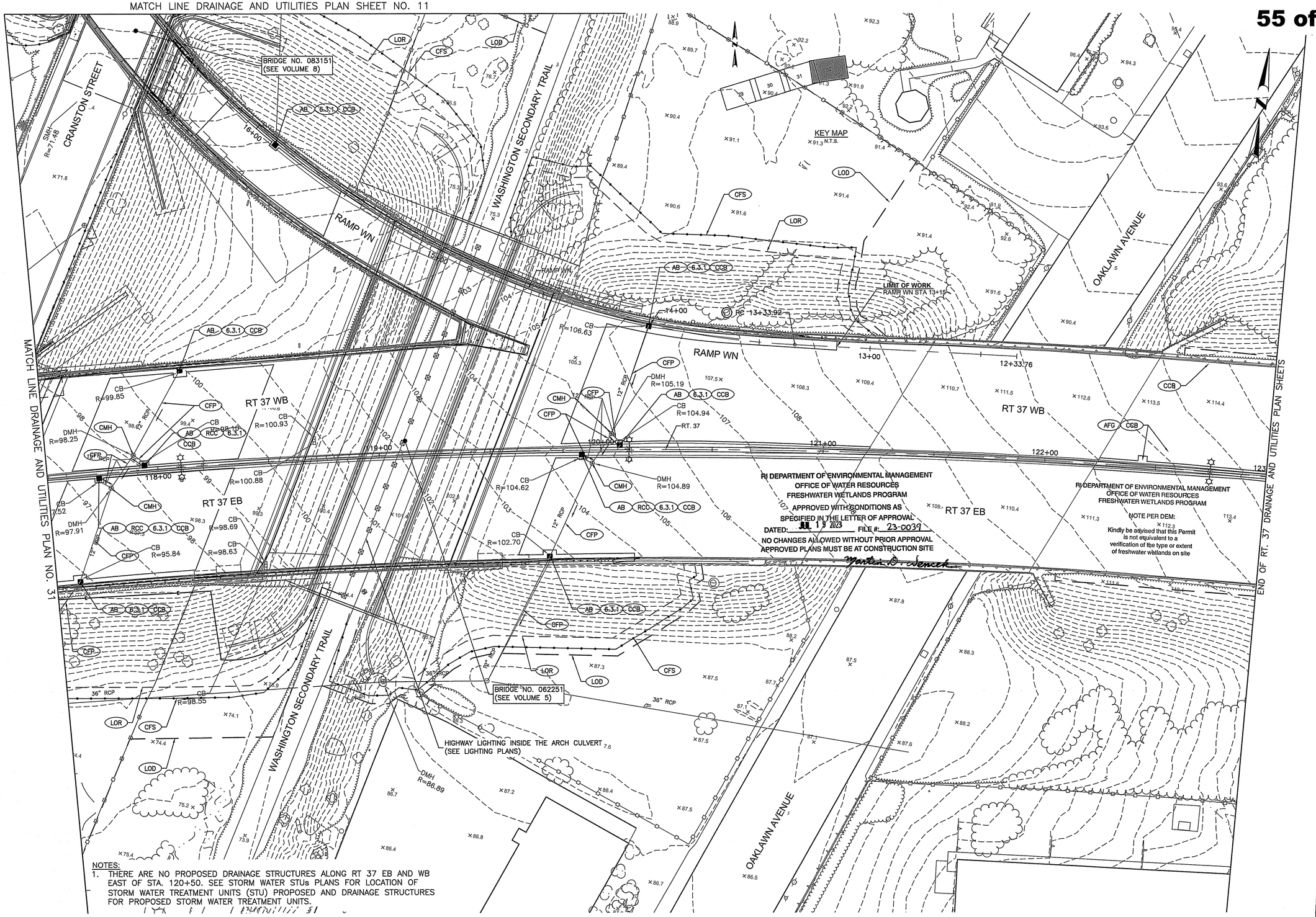
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NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES PLAN NO. 31

C:\PWWORKING\USRI\DMS02032\FWWP_D&U04.DWG PER DPM 450.06

MATCH LINE DRAINAGE AND UTILITIES PLAN SHEET NO. 11



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

NOTES:
1. THERE ARE NO PROPOSED DRAINAGE STRUCTURES ALONG RT 37 EB AND WB EAST OF STA. 120+50. SEE STORM WATER STUs PLANS FOR LOCATION OF STORM WATER TREATMENT UNITS (STU) PROPOSED AND DRAINAGE STRUCTURES FOR PROPOSED STORM WATER TREATMENT UNITS.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
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DATE:	06/05/2023
SHEET:	32
OF:	---

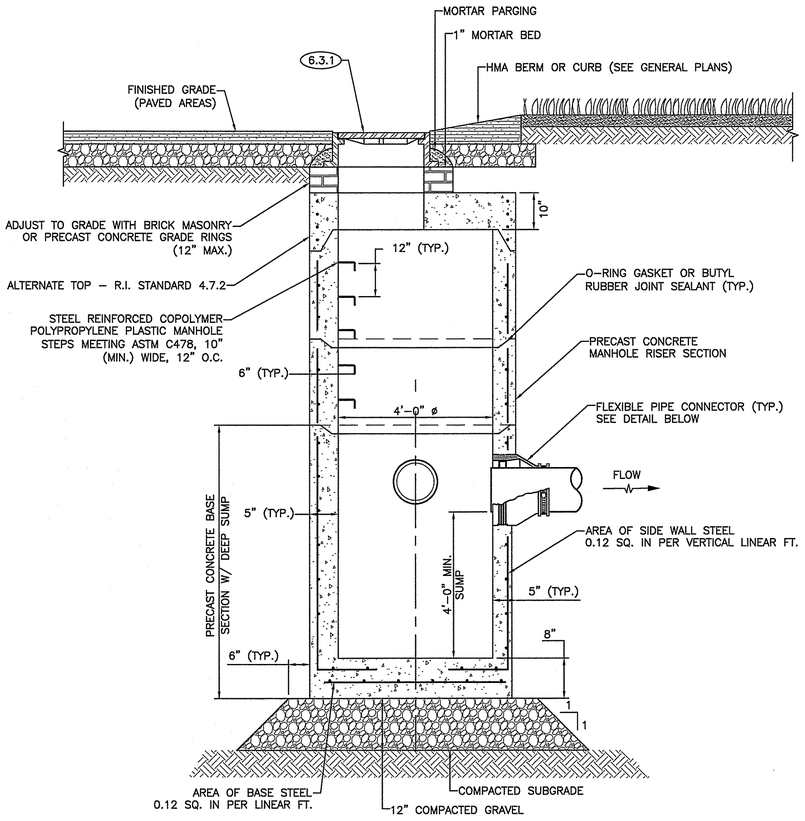
SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

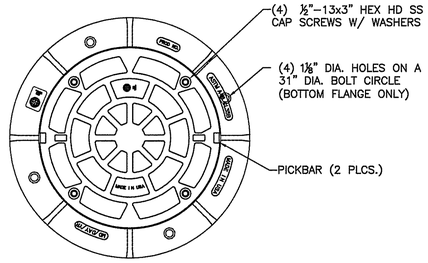
DRAINAGE AND UTILITIES PLAN NO. 32

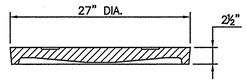
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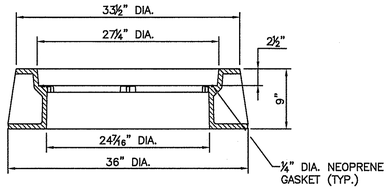
NOTE:
1. CATCH BASIN STRUCTURE AND APPURTENANCES MATERIAL SHALL BE IN ACCORDANCE WITH SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

PRECAST 4' - 0" ROUND CATCH BASIN W/ 4' SUMP DETAIL (4.4.0)
NOT TO SCALE





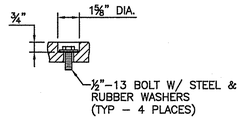
COVER SECTION



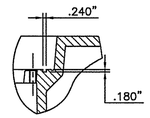
FRAME SECTION

NOTES:
1. MATERIALS SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE MATERIALS SHALL BE GRAY IRON (CL35B) AND SHALL BE ASTM A48 CERTIFIED.
3. SHALL BE EJ PRODUCT 00190002 OR APPROVED EQUAL.

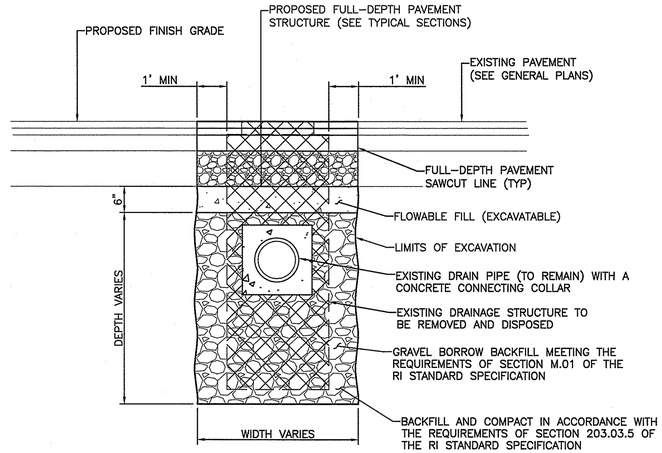
BOLTED HEAVY DUTY MANHOLE AND COVER (6.2.1M)
NOT TO SCALE



BOLT DETAIL

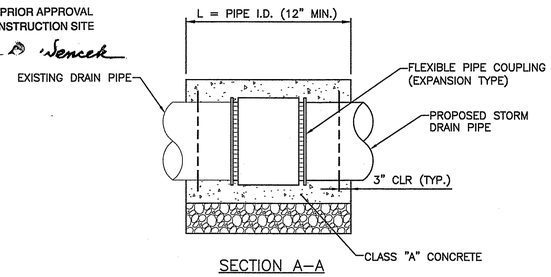


GROOVE DETAIL

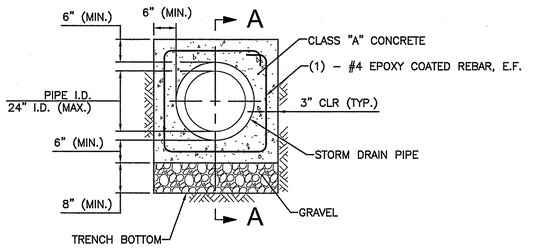


TYPICAL DRAINAGE STRUCTURE REMOVAL AND BACKFILL IN PAVEMENT
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

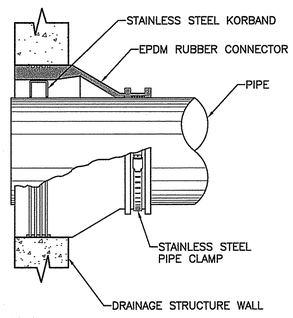


SECTION A–A

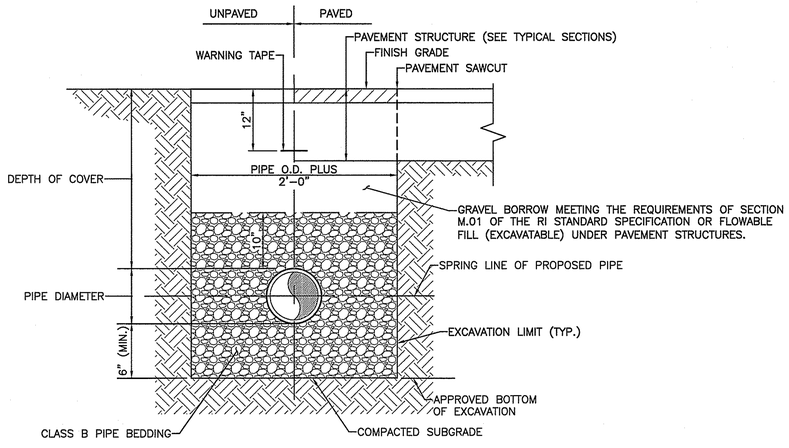


NOTE:
1. MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
2. MAXIMUM PIPE DIAMETER FOR USE OF CONNECTING COLLAR IS 2'–0".
3. PIPE WITH LARGEST OUTSIDE DIAMETER USED TO DETERMINE SIZE OF COLLAR.

MODIFIED CONCRETE CONNECTING COLLAR DETAIL (1.3.0M)
NOT TO SCALE



FLEXIBLE PIPE CONNECTOR DETAIL
NOT TO SCALE



TYPICAL STORM DRAIN PIPE TRENCH DETAIL
NOT TO SCALE

RI Environmental Management
JUN – 7 2023
Office of Water Resources

AETNA Aetna Bridge Company	AECOM		RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION	

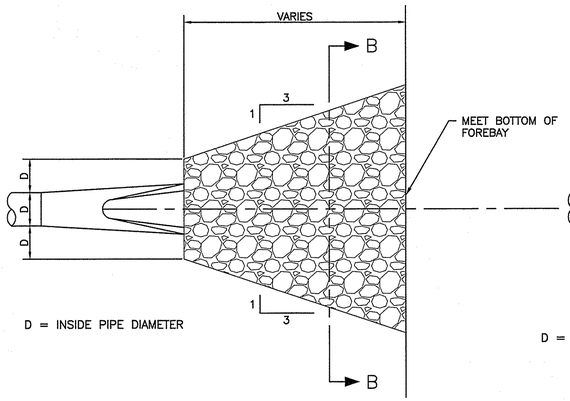
DESIGNED BY: JTS
CHECKED BY: CED
DATE: 06/05/2023
SHEET: 33
OF: ---

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

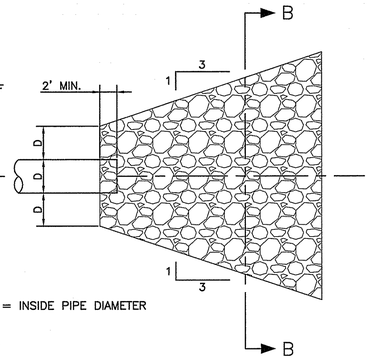
DRAINAGE AND UTILITIES DETAILS - 1

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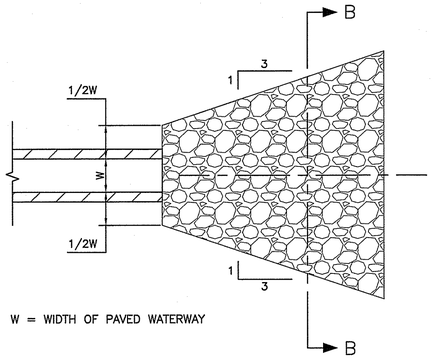
D = INSIDE PIPE DIAMETER

PLAN VIEW



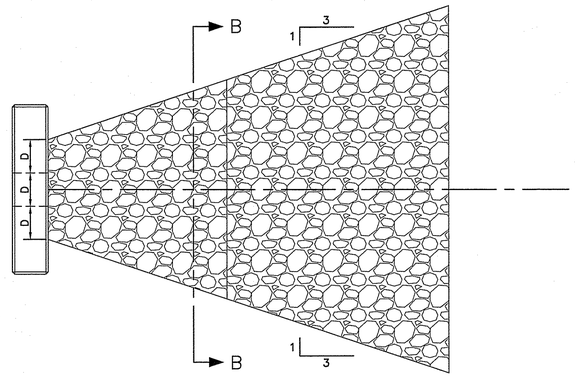
D = INSIDE PIPE DIAMETER

PLAN VIEW

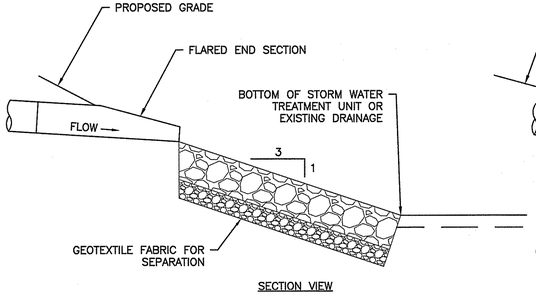


W = WIDTH OF PAVED WATERWAY

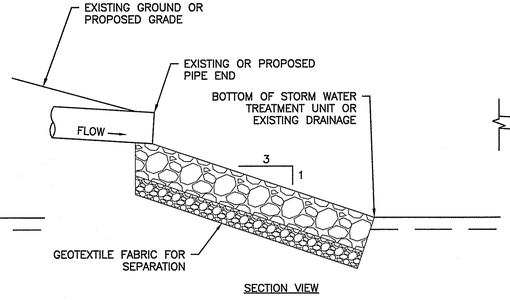
PLAN VIEW



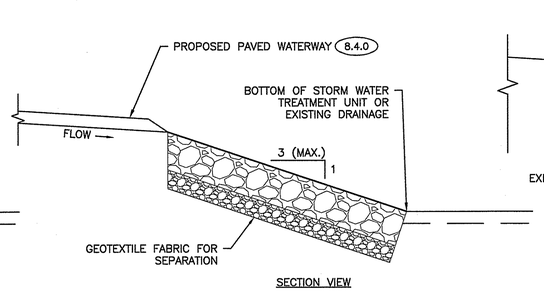
PLAN VIEW



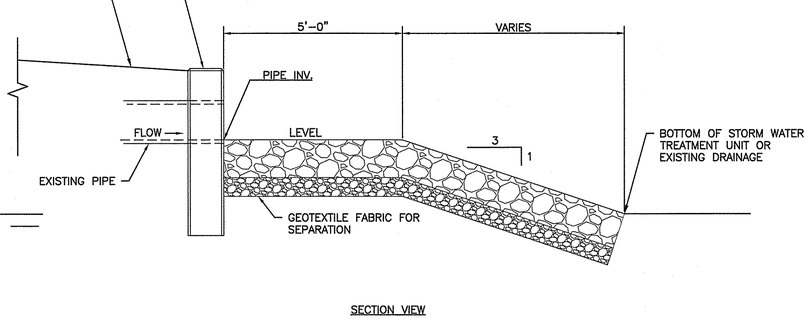
SECTION VIEW



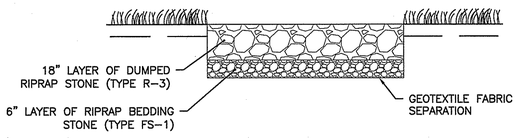
SECTION VIEW



SECTION VIEW



SECTION VIEW



SECTION B-B

RIPRAP OUTLET PROTECTION (ROP)

NOT TO SCALE

NOTES:

1. RIPRAP STONE SHALL MEET THE REQUIREMENTS OF SECTION M.10.03.2 OF THE LATEST EDITION OF THE R.I. STANDARD SPECIFICATION
2. RIPRAP BEDDING STONE SHALL MEET THE REQUIREMENTS OF SECTION M.03.01 OF THE R.I. STANDARD SPECIFICATIONS.
3. GEOTEXTILE FABRIC SHALL BE A NON-WOVEN (AASHTO M-288) TYPE SUITABLE FOR SEPARATION OF MATERIALS AND SHALL BE ONE OF THOSE INCLUDED ON RIDOT APPROVED MATERIALS LIST.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

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RHODE ISLAND DEPARTMENT OF TRANSPORTATION

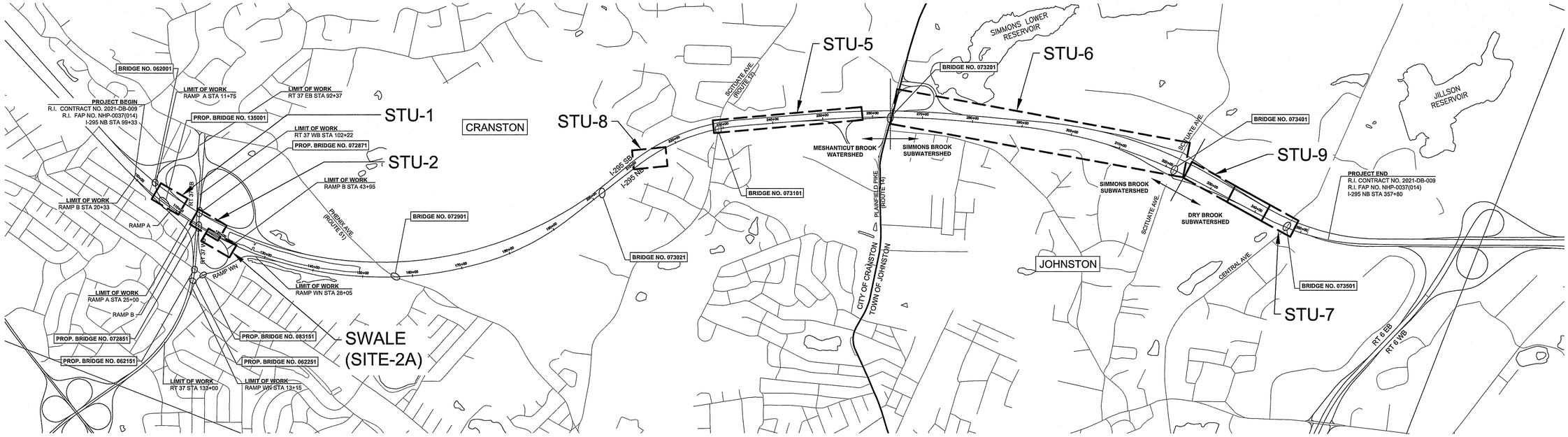
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CHECKED BY:	CED
DATE:	06/05/2023
SHEET:	34
OF:	--

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

DRAINAGE AND UTILITIES DETAILS - 2

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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CHECKED BY:	XXX
DATE:	04/19/2023
SHEET:	236
OF:	472

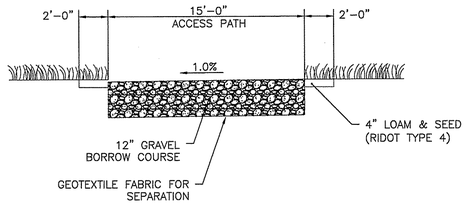
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

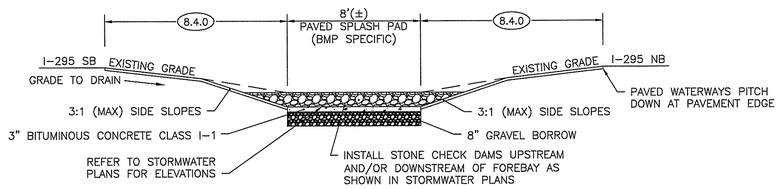
HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
LOCATION RHODE ISLAND

STORMWATER KEY PLAN

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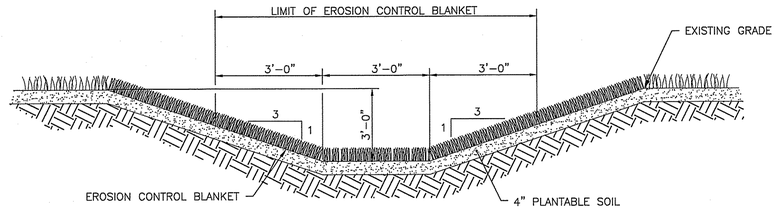
GRAVEL MAINTENANCE ACCESS PATH (GMAP)
NOT TO SCALE



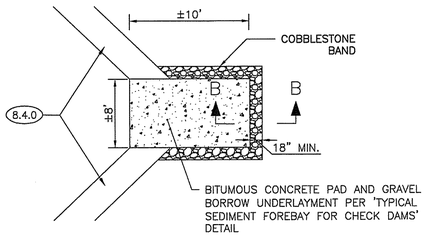
NOTES:

1. WHERE THERE IS NO CHECK DAM IMMEDIATELY ADJACENT TO BITUMINOUS CONCRETE PAD REFER TO SEDIMENT FOREBAY FOR INFILTRATION SWALES
2. LENGTH OF PAVED SPLASH PAD SHALL BE ±10'.

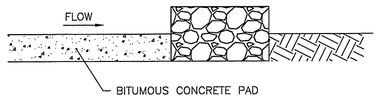
TYPICAL SEDIMENT FOREBAY FOR CHECK DAMS SECTION FACING EAST
NOT TO SCALE



GRASS-LINED CHANNEL DETAIL (GLC)
NOT TO SCALE



PLAN

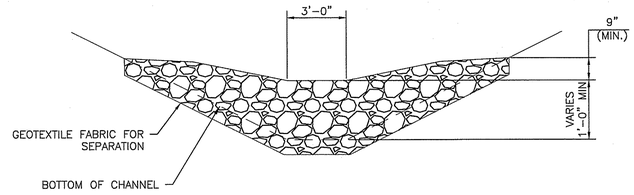


SECTION B–B

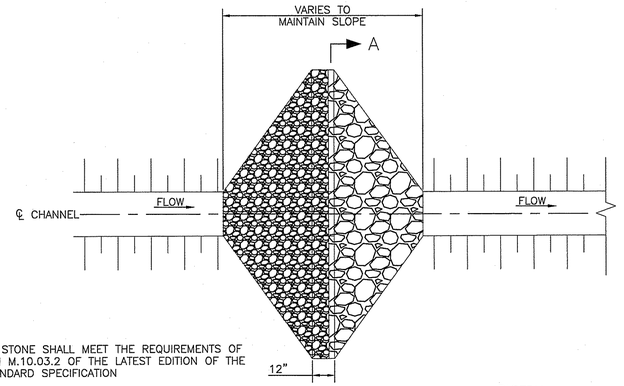
NOTES:

1. WHERE STONE CHECK DAM IS NOT ADJACENT TO SEDIMENT FOREBAY PLACE COBBLESTONE PER W.10.05 OF THE R.I. STANDARD SPECIFICATIONS AROUND THREE SIDES OF THE BITUMINOUS AREA. APPROXIMATELY HALF THE COBBLESTONE SHALL BE EMBEDDED. WIDTH OF COBBLESTONE BAND SHALL BE 18" MIN. INTENT OF COBBLESTONE BAND IS TO SLOW WATER AND ACT AS COURSE FILTER FOR SEDIMENT AND DEBRIS.
2. WHERE STONE CHECK DAM IS IMMEDIATELY ADJACENT TO SEDIMENT FOREBAY REFER TO 'TYPICAL SEDIMENT FOREBAY FOR CHECK DAMS' DETAIL

TYPICAL SEDIMENT FOREBAY FOR INFILTRATION SWALES
NOT TO SCALE



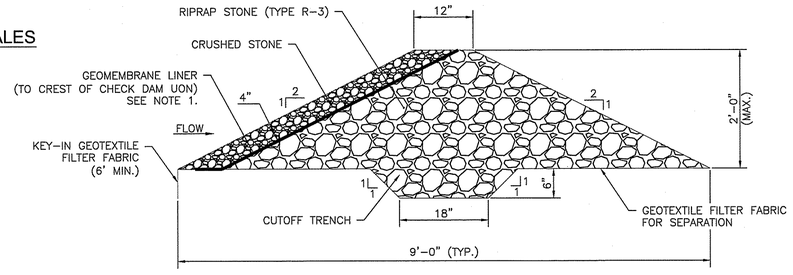
SECTION A–A



PLAN

NOTES:

1. RIPRAP STONE SHALL MEET THE REQUIREMENTS OF SECTION M.10.03.2 OF THE LATEST EDITION OF THE R.I. STANDARD SPECIFICATION
2. RIPRAP BEDDING STONE SHALL MEET THE REQUIREMENTS OF SECTION M.03.01 OF THE R.I. STANDARD SPECIFICATIONS.
3. GEOTEXTILE FABRIC SHALL BE A NON–WOVEN (AASHTO M–288) TYPE SUITABLE FOR SEPARATION OF MATERIALS AND SHALL BE ONE OF THOSE INCLUDED ON RIDOT APPROVED MATERIALS LIST.

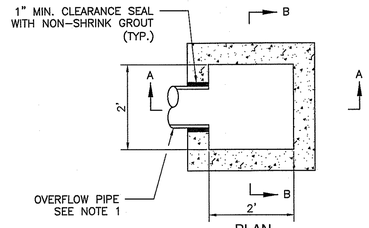


CROSS SECTION

NOTES:

1. GEOMEMBRANE LAYER SHALL MATCH THAT USED IN LINED SAND FILTERS

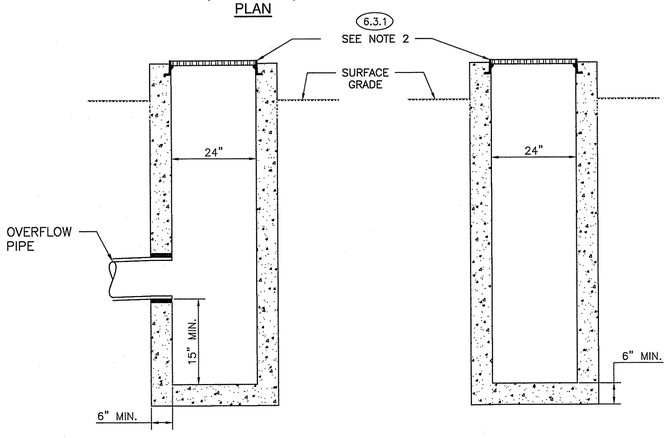
PERMANENT CHECK DAM - STONE (PCD–S)
NOT TO SCALE



PLAN

NOTES:

1. SEE PLANS FOR DETAILS ON PIPE SIZES, MATERIALS, INVERT ELEVATIONS AND ORIENTATION.
2. SEE PLANS FOR GRATE ELEVATION AND STRUCTURE INVERT ELEVATION.
3. ALL JOINTS, ADJUSTMENTS, AND PIPE CONNECTIONS MUST BE WATERTIGHT.
4. FACE OF PIPE SHALL BE FLUSH WITH INSIDE WALL OF STRUCTURE.
5. PROVIDE STEPS ON WALL OPPOSITE OVERFLOW PIPE PER R.I. STD 5.3.0 IF STRUCTURE DEPTH IS GREATER THAN 3 FT.



SECTION A-A

SECTION B-B

2' x 2' SMALL OVERFLOW STRUCTURE
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencer

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 5, 2023

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	02/14/2023
SHEET:	251
OF:	466

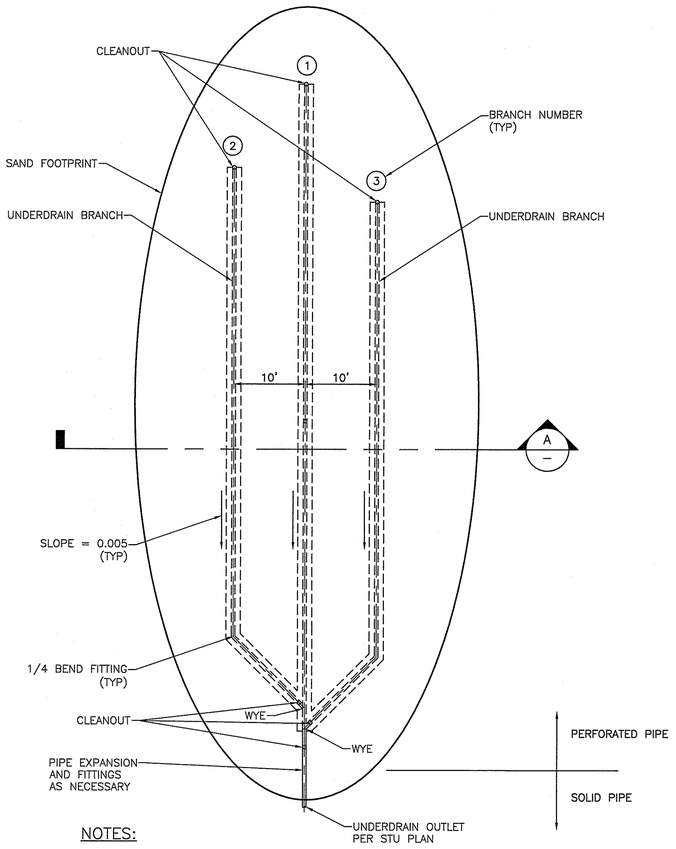
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STORMWATER DETAILS -1

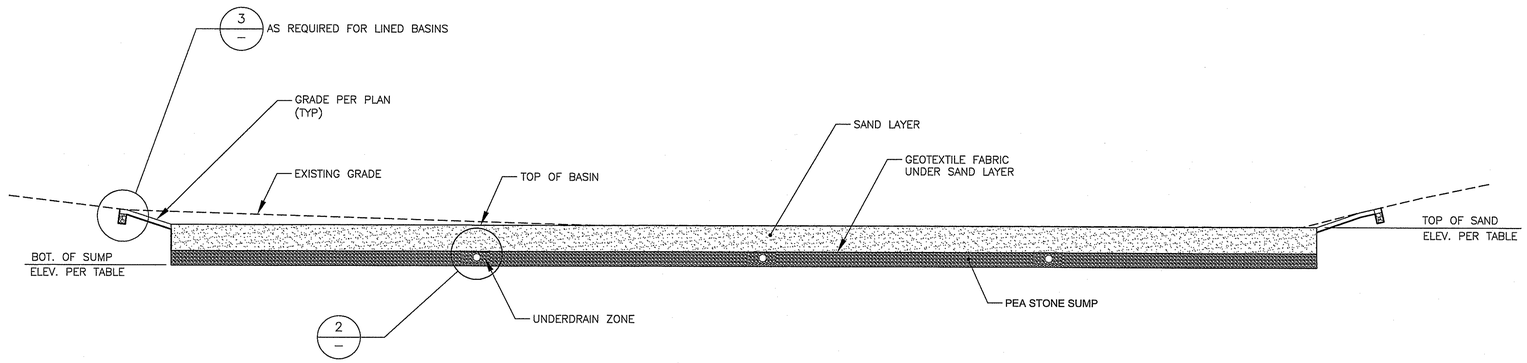
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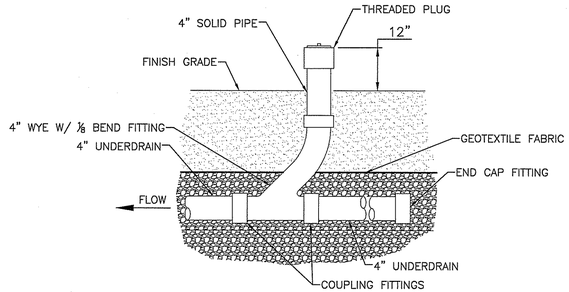
NOTES:

1. MINIMUM OF 2 CLEANOUTS PER UNDERDRAIN BRANCH, 1 AT EACH END OF BRANCH. IF ADDITIONAL CLEANOUTS ARE REQUIRED THEY SHALL BE SPACED EVENLY ALONG THE BRANCH.
2. DOWNSTREAM END OF UNDERDRAIN BRANCH #1 IS THE TRANSITION FROM PERFORATED TO SOLID PIPE. SEE PLAN FOR SOLID OUTLET PIPE DETAILS.

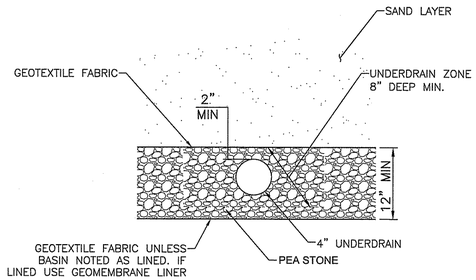
1 — SAND FILTER BASIN DETAIL
SCALE: NTS



A — SAND FILTER - SECTION A
SCALE: NTS

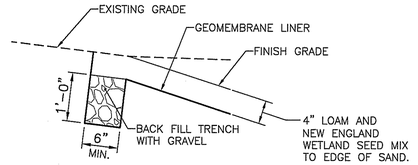


4 — CLEANOUT DETAIL
SCALE: NTS



NOTE:
INSTALL UNDERDRAIN WITH PERFORATIONS FACING THE BOTTOM OF THE UNDERDRAIN ZONE.

2 — UNDERDRAIN ZONE DETAIL
SCALE: NTS



3 — LINER ANCHOR TRENCH DETAIL
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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SAND FILTER DETAILS
SCALE: NTS

SAND FILTER TABLE								
SAND FILTER #	TOP OF SAND EL.	BOTTOM OF SAND EL.	BOTTOM OF SUMP EL.	UNDERDRAIN BRANCH #	LENGTH (FT)	# OF CLEANOUTS	ELEVATION AT U/S END	ELEVATION AT WYE CONNECTION/SOLID PIPE TRANSITION
1	50.77	49.27	48.22	1	45	2	48.77	48.55
				2	40	2	48.77	48.55 (Field Fit)
				3	40	2	48.77	48.55 (Field Fit)
2	48.75	47.25	46.17	1	50	2	46.75	46.50
				2	45	2	46.75	46.5 (Field Fit)
				3	45	2	46.75	46.5 (Field Fit)
7	262.00	260.00	258.42	1	90	2	259.50	258.75
				2	80	2	259.50	258.75 (Field Fit)
				3	80	2	259.50	258.75 (Field Fit)

MATERIAL NOTES:

- NEW ENGLAND WETLAND SEED MIX: IN ACCORDANCE WITH THE VEGETATION SECTION OF THE 2019 RIDOT LINEAR STORMWATER MANUAL.
- LOAM: CONFORMING TO SECTION m.18.01 OF THE RIDOT STANDARDS.
- SAND: SHALL BE WASHED AND CONFORM TO SECTION M.02.02 OF THE RI STANDARDS.
- PEA STONE: SHALL BE WASHED AND CONFORM TO SECTION M.01.06 KEYSTONE AND SECTION M.01.09, TABLE I, COLUMN III OF THE RI STANDARDS.
- GRAVEL: SHALL BE IN ACCORDANCE WITH SECTION M.01.07–FILTER STONE AND SECTION M.01.09, TABLE I, COLUMN V OF THE RI STANDARDS.
- GEOTEXTILE FABRIC: SHALL COMPLY WITH SECTION 703.02.0 OF THE RI STANDARDS AND SHALL BE LISTED ON THE RIDOT APPROVED MATERIALS LIST SUITABLE FOR UNDERDRAIN APPLICATIONS.
- UNDERDRAIN: SHALL BE PERFORATED PVC SDR 35 GRAVITY SEWER PIPE CONFORMING TO ASTM D 3034 FOR GASKET OR SOLVENT–WELD PIPE WITH A MINIMUM PIPE STIFFNESS OF 46. GASKETS SHALL CONFORM TO ASTM F 477.
- SOLID PIPE: SHALL BE PVC SDR 35 GRAVITY SEWER PIPE CONFORMING TO ASTM D 3034 FOR GASKET OR SOLVENT–WELD PIPE WITH A MINIMUM PIPE STIFFNESS OF 46. GASKETS SHALL CONFORM TO ASTM F 477.
- PIPE FITTINGS: FITTING SHALL BE EITHER INJECTION MOLDED PVC DWV FITTINGS CONFORMING TO ASTM D 2665 OR FABRICATED PVC DWV FITTINGS CONFORMING TO ASTM F 1866.
- GEOMEMBRANE LINER: SHALL BE A 30MIL PVC GEOMEMBRANE LINER WITH FACTORY FABRICATED SEAMS CONFORMING TO ASTM D 5199, D 882, D 1004, D 1204, D 1790, D 792, D 1239, D 2124, D 1203 AND D 7408.

RI Environmental Management
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Office of Water Resources

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 6, 2023

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	04/19/2023
SHEET:	253
OF:	472

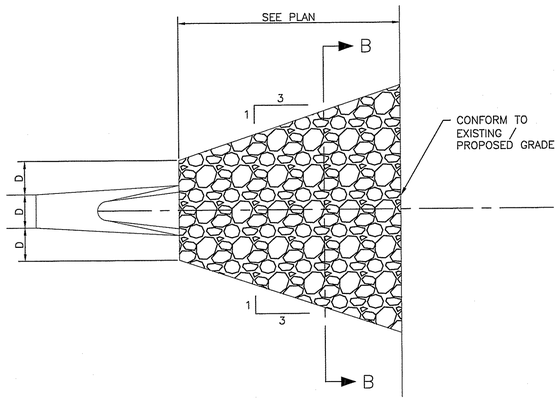
SCALE: AS NOTED

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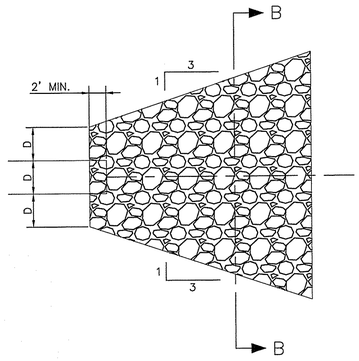
HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STORMWATER DETAILS - 2

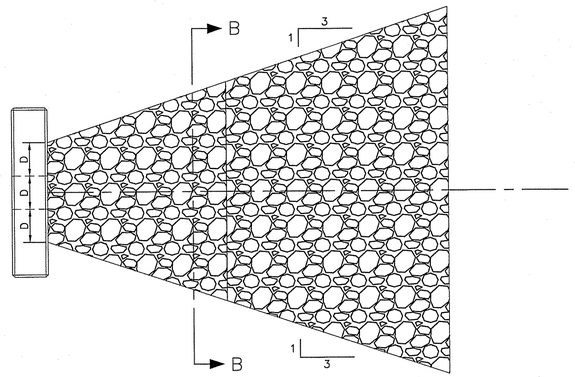
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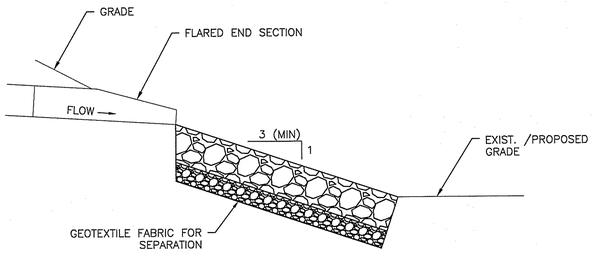
PLAN VIEW



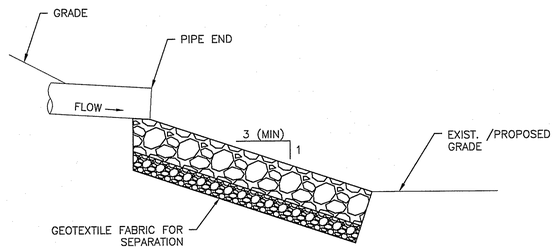
PLAN VIEW



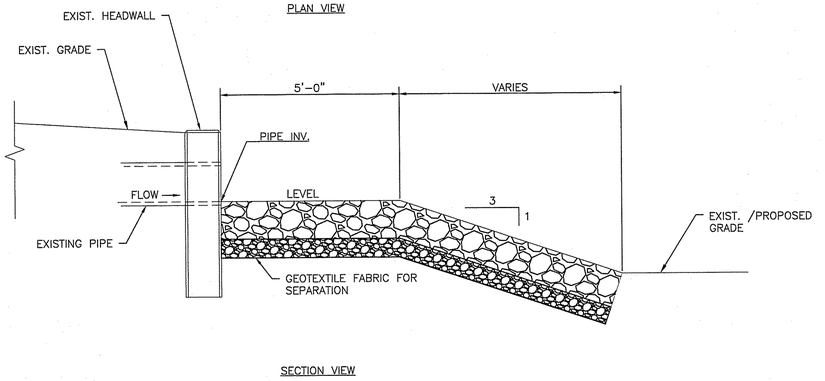
PLAN VIEW



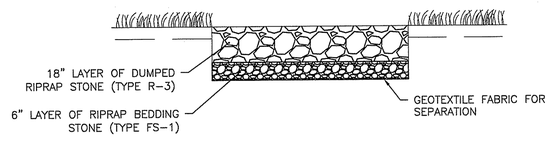
SECTION VIEW



SECTION VIEW



SECTION VIEW



SECTION B-B

NOTES:

1. RIPRAP STONE SHALL MEET THE REQUIREMENTS OF SECTION M.10.03.2 OF THE LATEST EDITION OF THE R.I. STANDARD SPECIFICATION
2. RIPRAP BEDDING STONE SHALL MEET THE REQUIREMENTS OF SECTION M.03.01 OF THE R.I. STANDARD SPECIFICATIONS.
3. GEOTEXTILE FABRIC SHALL BE A NON-WOVEN (AASHTO M-288) TYPE SUITABLE FOR SEPARATION OF MATERIALS AND SHALL BE ONE OF THOSE INCLUDED ON RIDOT APPROVED MATERIALS LIST.

RIPRAP OUTLET PROTECTION

NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wencek

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 5, 2023

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: SN
CHECKED BY: THH
DATE: 01/18/2023
SHEET: 254
OF: –

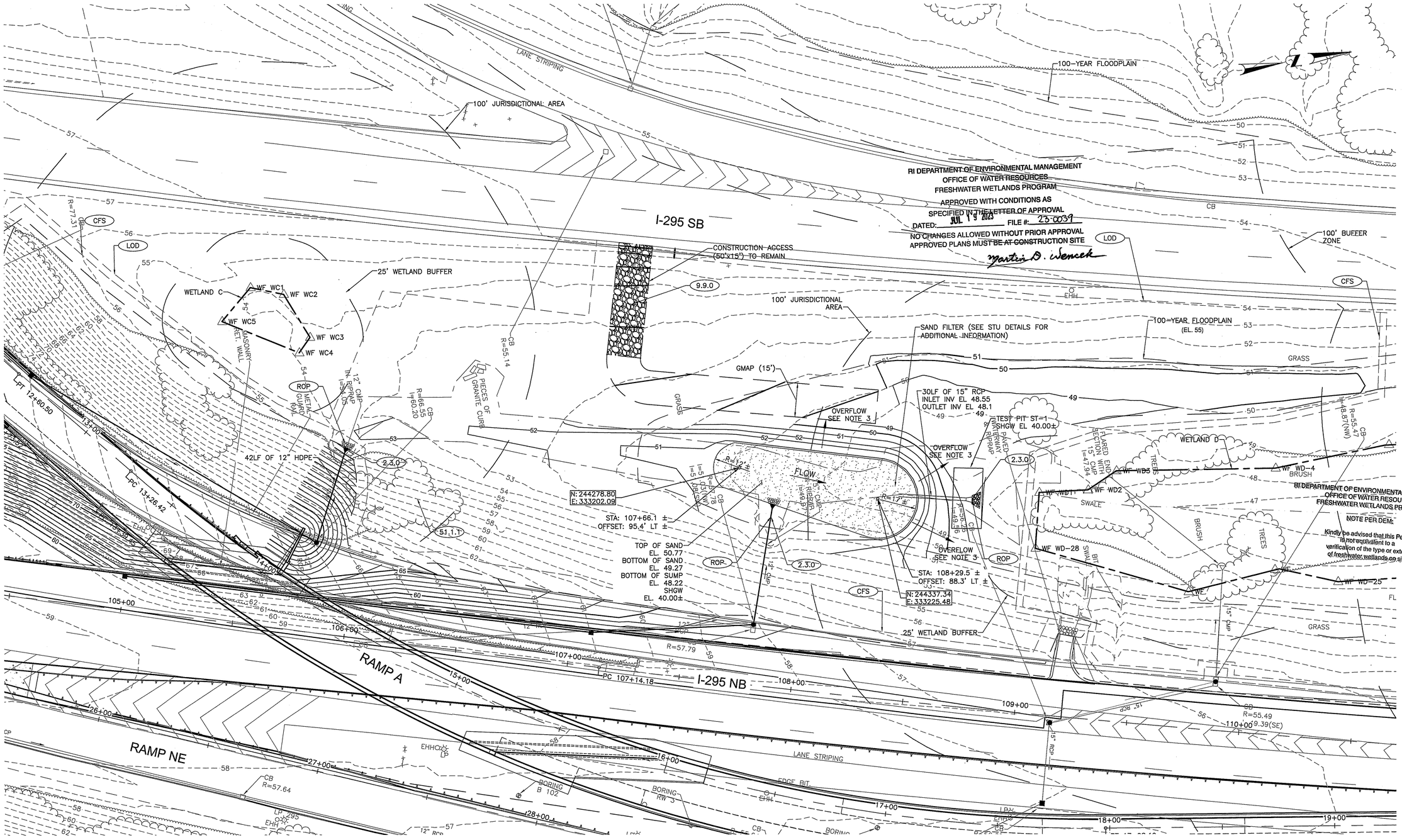
SCALE: AS NOTED

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CONTRACT: 00 VOLUME: 0
CRANSTON/JOHNSTON RHODE ISLAND

STORMWATER DETAILS - 3

C:\PWWORKING\USRI\DMS01525\0051B_V1 CIVIL DETAILS II.DWG PER DPM 450.06



PLAN - STU #1: SAND FILTER

SCALE: 1" = 20'

NOTES:

1. PRE-TREATMENT PROVIDED BY DEEP SUMP CATCH BASINS. SEE DRAINAGE AND UTILITY PLANS.
2. SEE DRAINAGE AND UTILITY PLANS FOR DETAILS ON INFLUENT LINES TO STORMWATER TREATMENT UNIT.
3. OVERFLOW OCCURS OVER THE BROAD BERM ON THE NORTH AND WEST SIDES OF THE SAND FILTER.

RI Environmental Management
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TENNILLE C. MIGNONE
No. 11897
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CIVIL
June 5, 2023

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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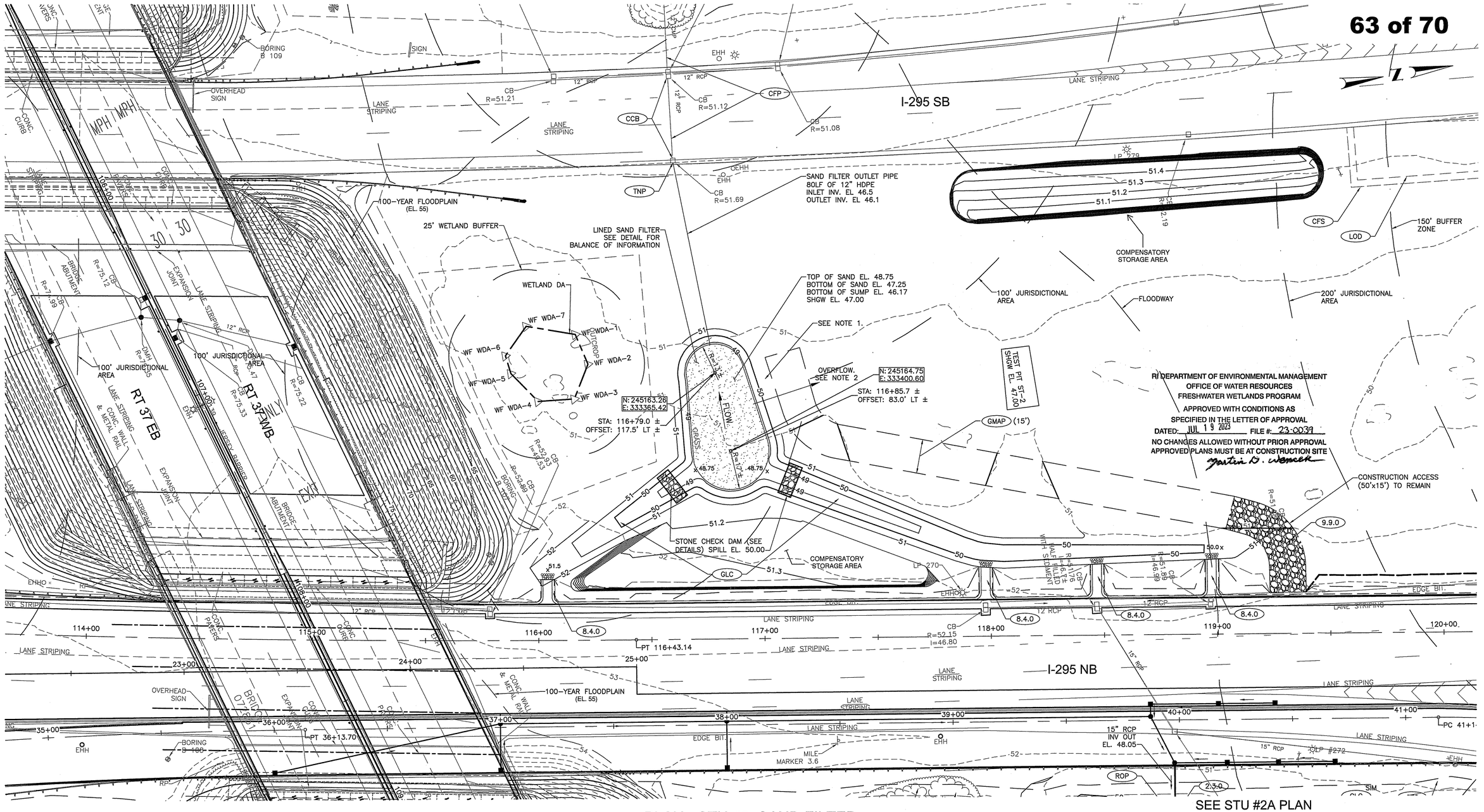
SCALE: 1"=20'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STORMWATER STU #1 PLAN

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PLAN - STU #2: SAND FILTER

SCALE: 1" = 20'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI Environmental Management
JUN - 7 2023
Office of Water Resources

NOTE:

1. DB ENTITY SHALL GRADE THE NORTH SIDE OF STU #2 TO ENSURE THAT THERE IS A CONTINUOUS GRADE OF AT LEAST EL. 50.77. SLOPES SHALL NOT BE STEEPER THAN 3:1 (H:V). SHOULD FILL BE NECESSARY TO ACHIEVE THIS MINIMUM ELEVATION TOP OF FILL SHALL BE GRADED FLAT FOR 2' MIN. ADJUST GMAP LOCATION AS NECESSARY TO MEET THESE REQUIREMENTS WITHOUT OVERLAPPING GMAP FOOTPRINT.
2. OVERFLOW OCCURS OVER THE BROAD BERM ON THE NORTH SIDE OF THE SAND FILTER.

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OF:	472

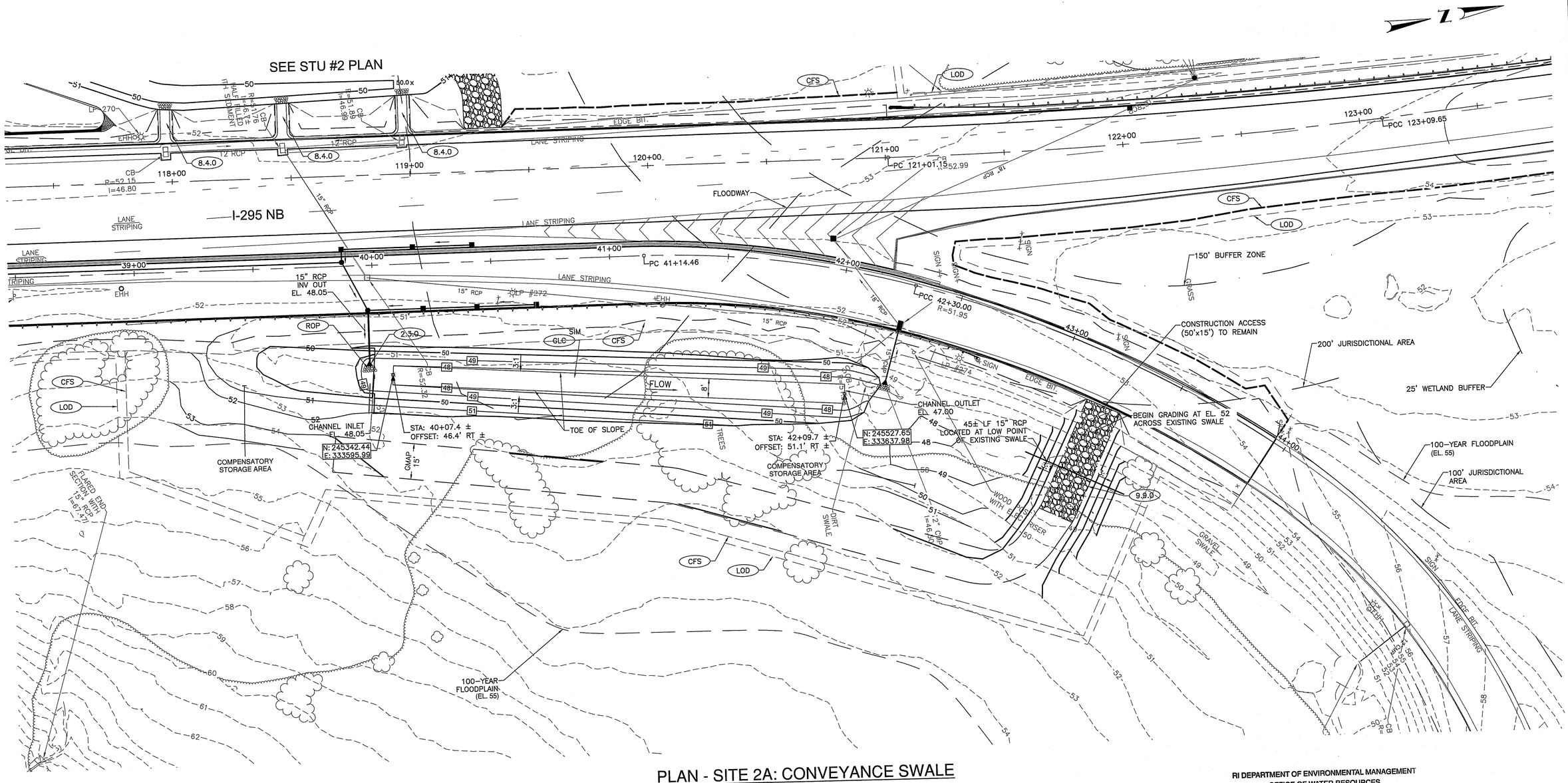
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HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

STORMWATER STU #2 PLAN

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PLAN - SITE 2A: CONVEYANCE SWALE

SCALE: 1" = 20'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI Environmental Manageme...
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CIVIL
June 5, 2023

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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OF: 472

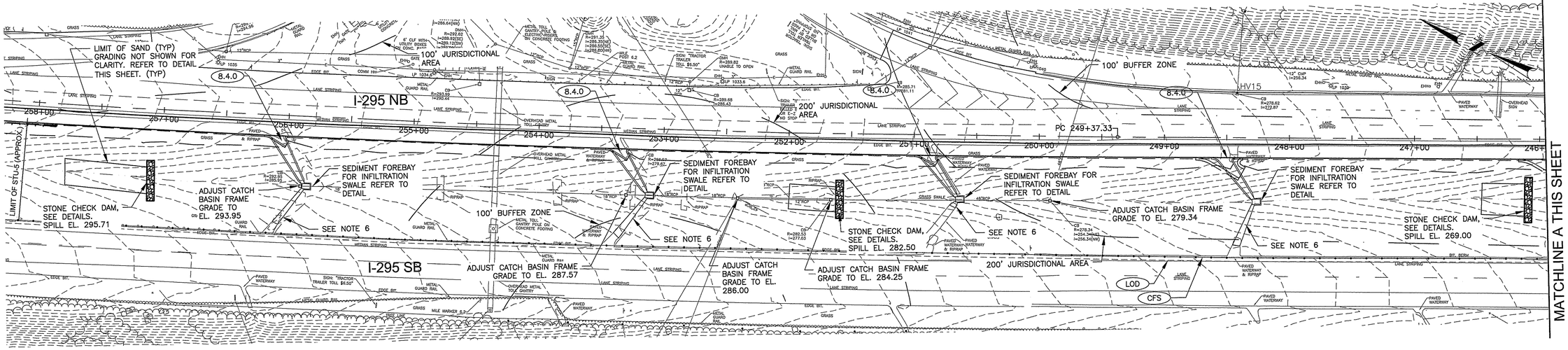
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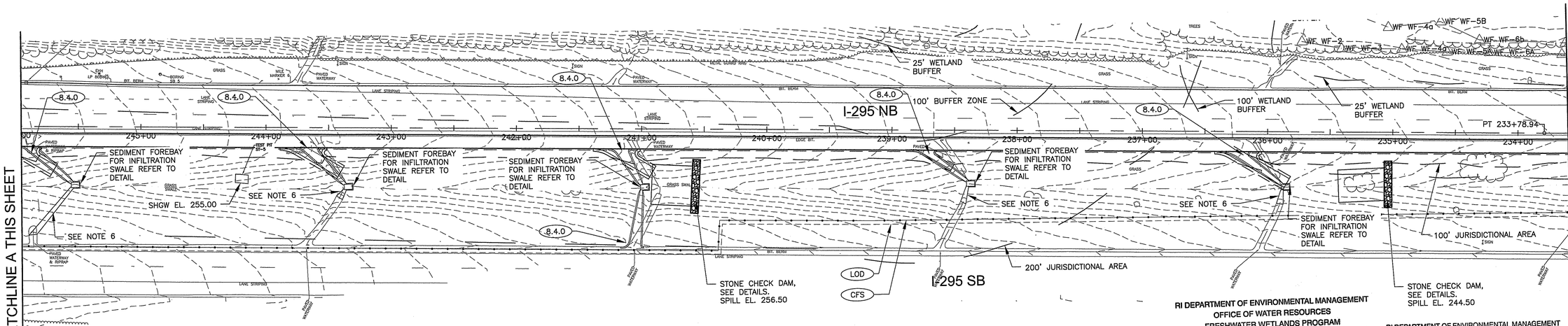
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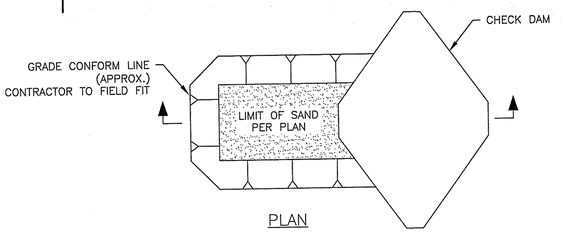
HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON
RHODE ISLAND

STORMWATER SWALE PLAN (SITE 2A)

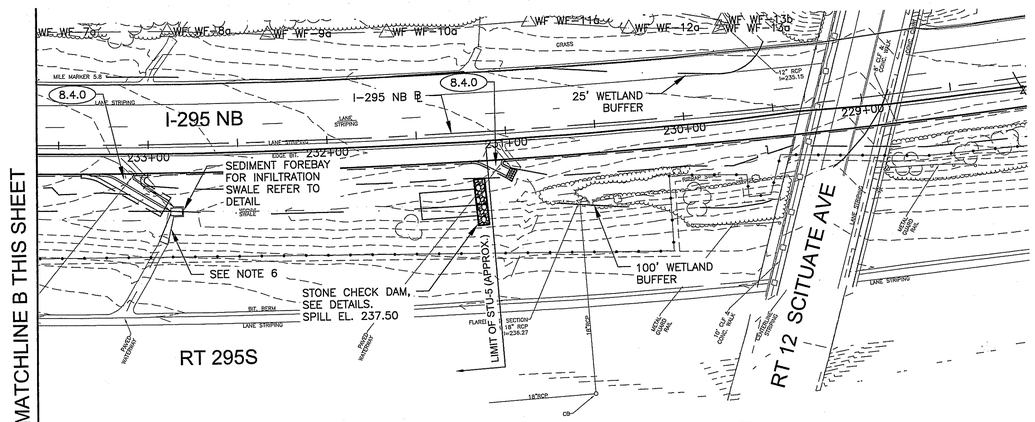
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TYPICAL SAND LAYER DETAIL
NOT TO SCALE



PLAN - STU #5: INFILTRATION SWALE
SCALE: 1" = 40'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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NOTES:

1. CLEAN EXISTING PAVED WATERWAYS TO REMAIN.
2. DEMOLISH EXISTING PAVED WATERWAYS WHERE THEY ARE SHOWN TO BE REPLACED.
3. EXTEND EXISTING WATERWAYS AS NEEDED TO BOTTOM OF SWALE TO ADJOIN PAVED SEDIMENT FOREBAYS.
4. AMEND DISTURBED SOILS FROM CONSTRUCTION ACTIVITY WITH 2" LOAM AND SEED AS NEEDED.
5. RELOCATE RIPRAP AND BLOCKS AS NEEDED TO ACCOMMODATE PAVED WATERWAYS AND SEDIMENT FOREBAYS.
6. EXTEND EXISTING PAVED WATER WATERWAY PER R.I. STANDARD DETAIL 8.4.0 (SIM). REMOVE EXISTING RIPRAP FROM WATERWAY.
7. CONSTRUCTIONS ACCESS POINTS SHALL BE STABILIZED AND RETURNED TO PRE-PROJECT CONDITIONS

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 6, 2023

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
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DATE:	04/19/2023
SHEET:	257
OF:	472

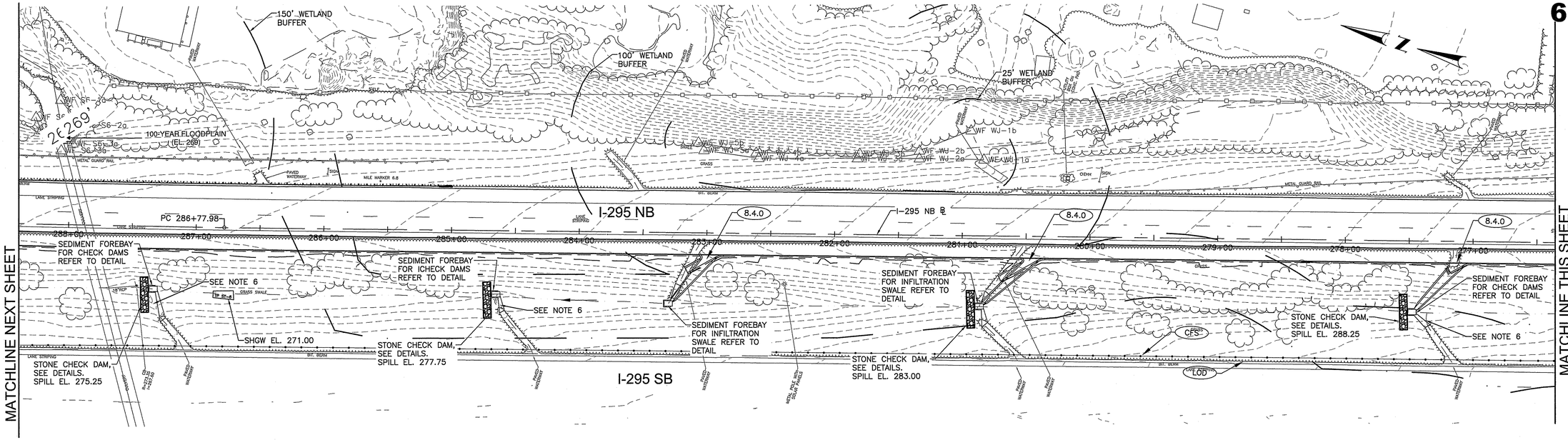
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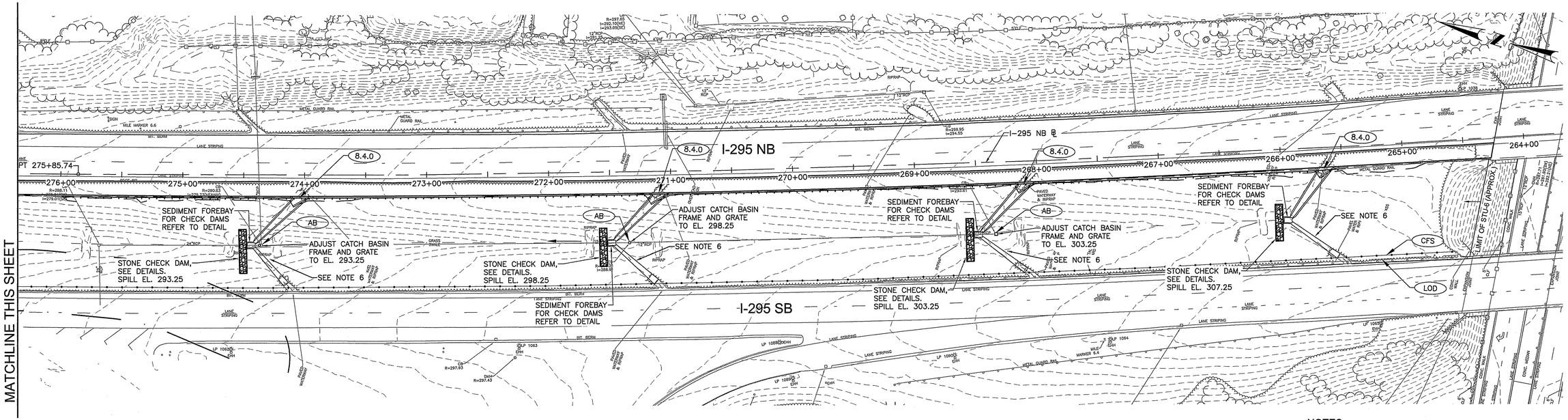
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

STORMWATER STU #5 PLAN

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wencer

NOTES:

1. CLEAN EXISTING PAVED WATERWAYS TO REMAIN.
2. DEMOLISH EXISTING PAVED WATERWAYS WHERE THEY ARE SHOWN TO BE REPLACCED.
3. EXTEND EXISTING WATERWAYS AS NEEDED TO BOTTOM OF SWALE TO ADJOIN PAVED SEDIMENT FOREBAYS.
4. AMEND DISTURBED SOILS FROM CONSTRUCTION ACTIVITY WITH 2" LOAM AND SEED AS NEEDED.
5. RELOCATE RIPRAP AND BLOCKS AS NEEDED TO ACCOMMODATE PAVED WATERWAYS AND SEDIMENT FOREBAYS.
6. EXTEND EXISTING PAVED WATER WATERWAY PER R.I. STANDARD DETAIL 8.4.0 (SIM). REMOVE EXISTING RIPRAP FROM WATERWAY.
7. CONSTRUCTIONS ACCESS POINTS SHALL BE STABILIZED AND RETURNED TO PRE-PROJECT CONDITIONS

RI Environmental Management
JUN - 7 2023
Office of Water Resources

PLAN - STU #6: INFILTRATION SWALE

SCALE: 1" = 40'

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 6, 2023

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	04/19/2023
SHEET:	257
OF:	472

SCALE: 1"=40'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STORMWATER STU #6 PLAN (1 of 2)

C:\PWWORKING\USRI\DMS01525\0051B_V1_STU_PLAN_06-1.DWG PER DPM 450.06

NOTES:

1. CLEAN EXISTING PAVED WATERWAYS TO REMAIN.
2. DEMOLISH EXISTING PAVED WATERWAYS WHERE THEY ARE SHOWN TO BE REPLACCED.
3. EXTEND EXISTING WATERWAYS AS NEEDED TO BOTTOM OF SWALE TO ADJOIN PAVED SEDIMENT FOREBAYS.
4. AMEND DISTURBED SOILS FROM CONSTRUCTION ACTIVITY WITH 2" LOAM AND SEED AS NEEDED.
5. RELOCATE RIPRAP AND BLOCKS AS NEEDED TO ACCOMMODATE PAVED WATERWAYS AND SEDIMENT FOREBAYS.
6. EXTEND EXISTING PAVED WATER WATERWAY PER R.I. STANDARD DETAIL 8.4.0 (SIM). REMOVE EXISTING RIPRAP FROM WATERWAY.
7. CONSTRUCTIONS ACCESS POINTS SHALL BE STABILIZED AND RETURNED TO PRE-PROJECT CONDITIONS

MATCHLINE C THIS SHEET

MATCHLINE B THIS SHEET

MATCHLINE C THIS SHEET

MATCHLINE B THIS SHEET

MATCHLINE A THIS SHEET

MATCHLINE A THIS SHEET

MATCHLINE PRIOR SHEET

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on-site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

RI Environmental Management
JUN - 7 2023
Office of Water Resources

PLAN - STU #6: INFILTRATION SWALE

SCALE: 1" = 40'

AETNA Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 5, 2023

RI dot
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	04/19/2023
SHEET:	259
OF:	472

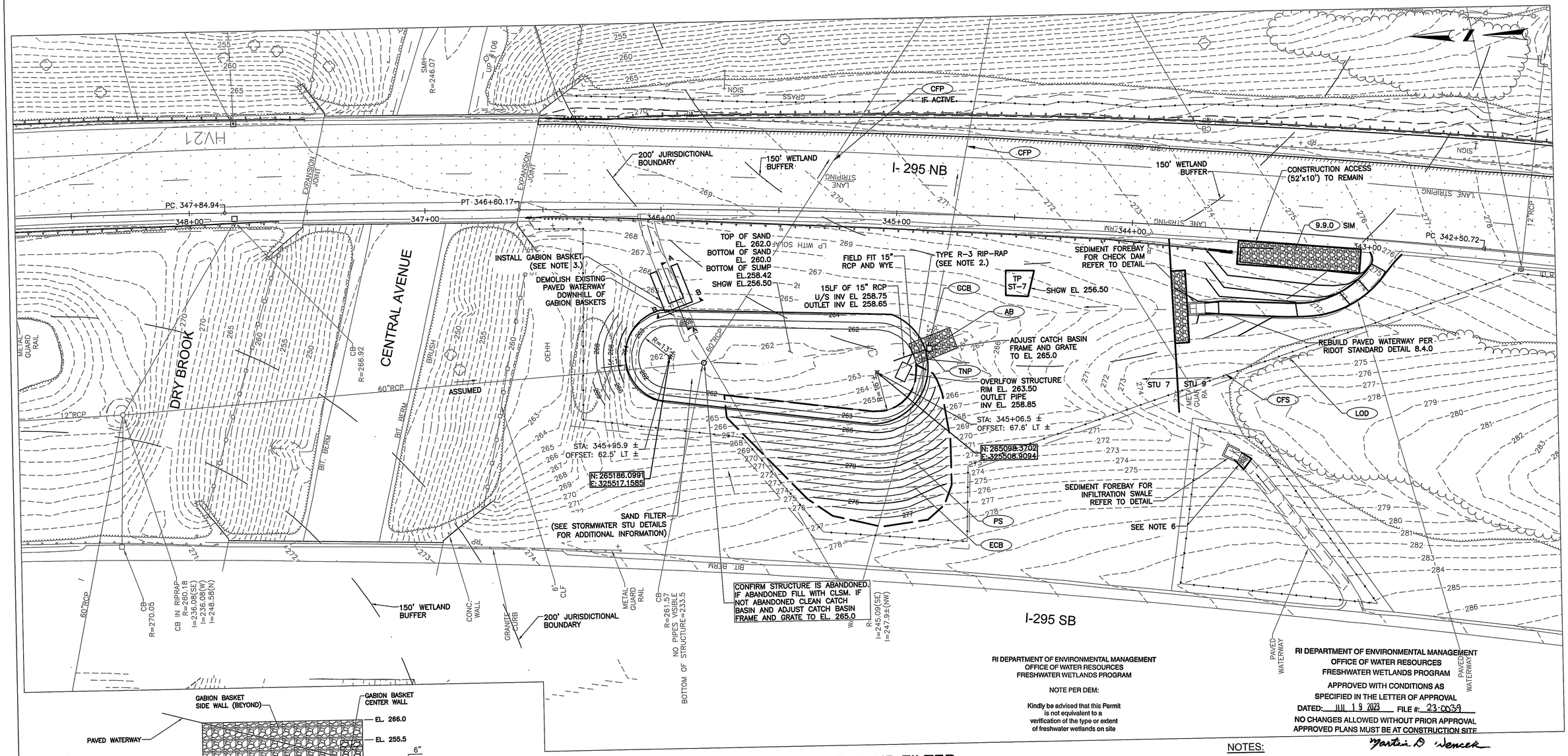
SCALE: 1"=40'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

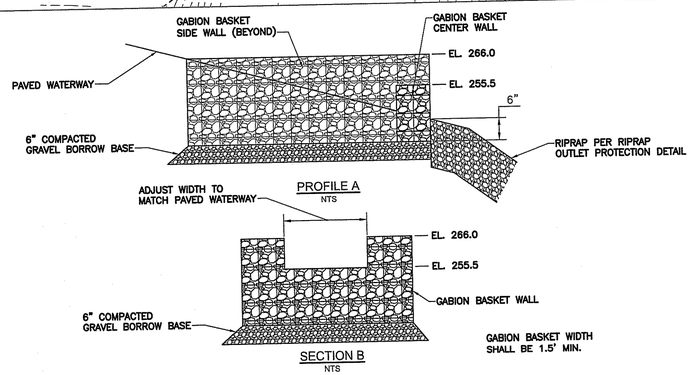
STORMWATER STU #6 PLAN (2 of 2)

C:\PWWORKING\USRI\DMS01525\0051B_V1_STU_PLAN_06-2.DWG PER DPM 450.06



PLAN - STU #7: SAND FILTER

SCALE: 1" = 20'



DETAIL 1: GABION BASKET WALL

NOTES:

1. CONSTRUCTION ACCESS POINTS SHALL BE STABILIZED AND RETURNED TO PRE-PROJECT CONDITIONS.
2. RIP RAP CENTERLINE SHALL BE 6 INCHES LOWER THAN EDGES TO CREATE SHALLOW 'V'. INTENT IS TO CHANNEL FLOW.
3. GABION BASKETS SHALL BE INSTALLED PER DETAIL 1.
4. CLEAN EXISTING PAVED WATERWAYS TO REMAIN.
5. DEMOLISH EXISTING PAVED WATERWAYS WHERE THEY ARE SHOWN TO BE REPLACED.
6. EXTEND EXISTING PAVED WATERWAY PER R.I. STANDARD DETAIL 8.4.0 (SIM). REMOVE EXISTING RIPRAP FROM WATERWAY.
7. AMEND DISTURBED SOILS FROM CONSTRUCTION ACTIVITY WITH 2" LOAM AND SEED AS NEEDED.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 6, 2023

RI dot
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	04/19/2023
SHEET:	258
OF:	472

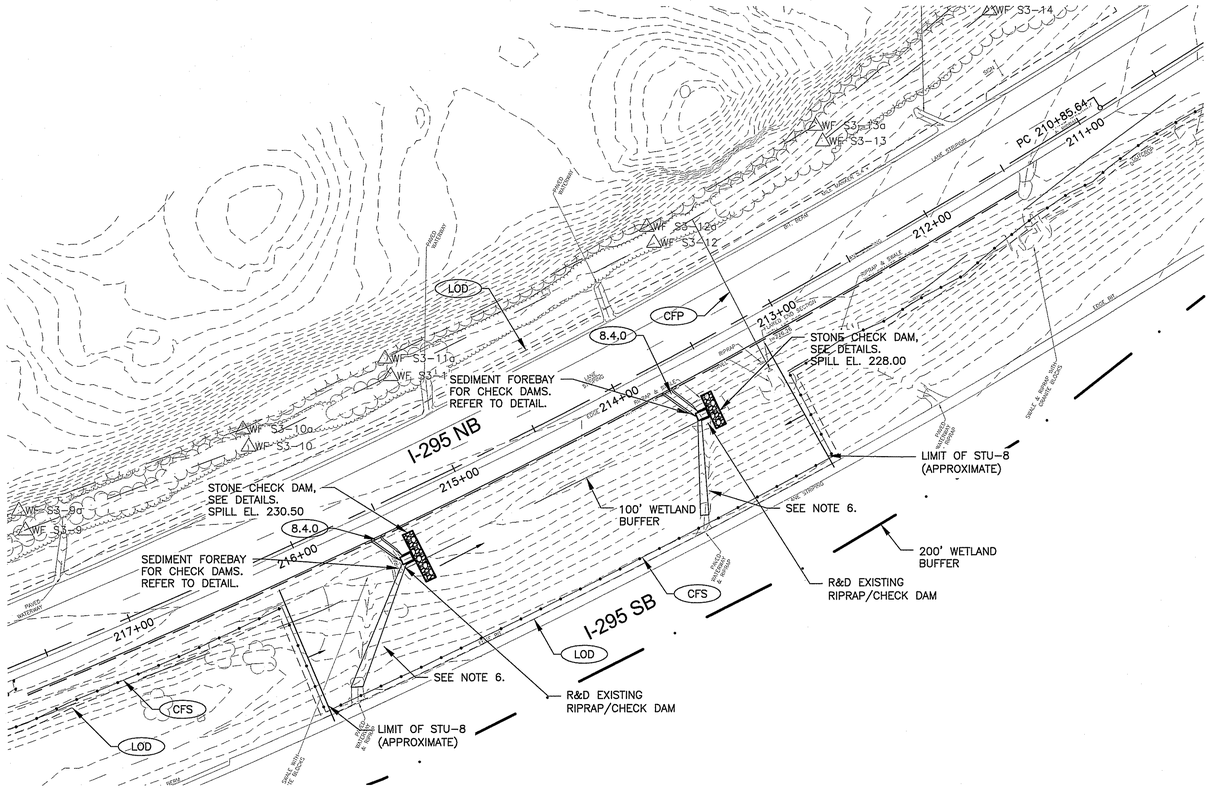
SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

STORMWATER STU #7 PLAN

C:\PWWORKING\USRI\DMS01525\0051B_V1_STU_PLAN_07.DWG PER DPM 450.06



PLAN - STU #8: INFILTRATION SWALE

SCALE: 1" = 40'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: JUL 19 2023 FILE #: 23-0039

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencer

NOTE:

1. CLEAN EXISTING PAVED WATERWAYS TO REMAIN.
2. DEMOLISH EXISTING PAVED WATERWAYS WHERE THEY ARE SHOWN TO BE REPLACED.
3. EXTEND EXISTING WATERWAYS AS NEEDED TO BOTTOM OF SWALE TO ADJOIN PAVED SEDIMENT FOREBAYS.
4. AMEND SOILS DISTURBED FROM CONSTRUCTION ACTIVITY WITH 2" LOAM AND SEED AS NEEDED.
5. RELOCATE RIPRAP AND BLOCKS AS NEEDED TO ACCOMMODATE PAVED WATERWAYS AND SEDIMENT FOREBAYS.
6. EXTEND EXISTING PAVED WATERWAYS PER R.I. STANDARD DETAIL 8.4.0 (SIM). REMOVE EXISTING RIPRAP FROM WATERWAY.
7. CONTRACTOR ACCESS POINTS SHALL BE STABILIZED AND RETURNED TO PRE-PROJECT CONDITIONS.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 5, 2023

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	04/19/2023
SHEET:	259
OF:	472

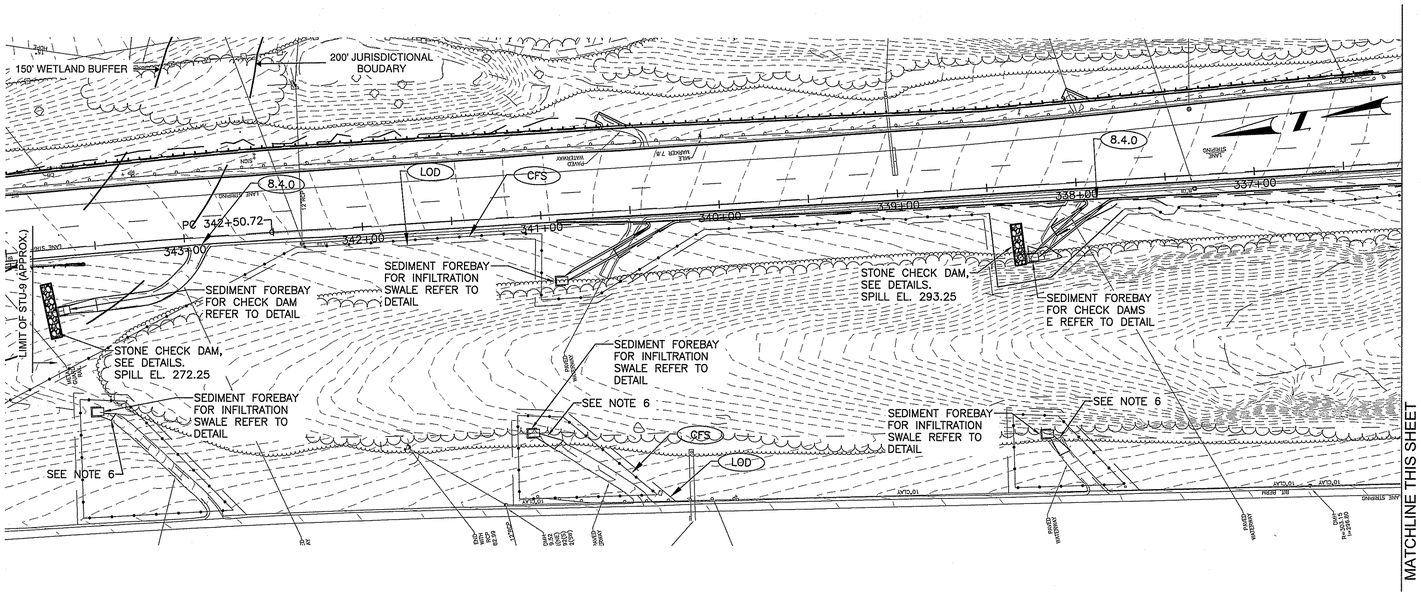
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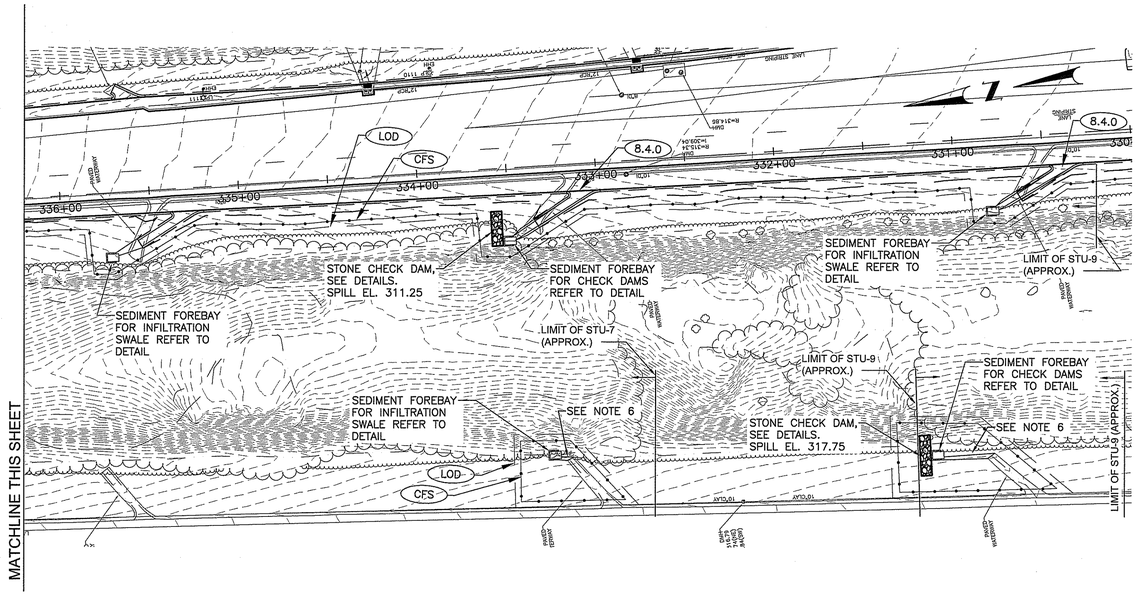
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

STORMWATER STU #8 PLAN

C:\PWWORKING\USRI\DMS01525\0051B_V1_STU_PLAN_08.DWG PER DPM 450.06





RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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

NOTES:

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7. CONSTRUCTIONS ACCESS POINTS SHALL BE STABILIZED AND RETURNED TO PRE-PROJECT CONDITIONS

RI Environmental Management
JUN - 7 2023
Office of Water Resources

PLAN - STU #9 AND STU #7 PRE-TREATMENT: INFILTRATION SWALE

SCALE: 1" = 40'

Aetna Bridge Company

AECOM

TENNILLE C. MIGNONE
No. 11897
REGISTERED PROFESSIONAL ENGINEER
CIVIL
June 5, 2023

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	SN
CHECKED BY:	THH
DATE:	04/19/2023
SHEET:	259
OF:	472

SCALE: 1"=40'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

STORMWATER STU #9 AND STU #7 PRE-TREATMENT PLAN

C:\PWWORKING\USRI\DMS01525\0051B_V1_STU_PLAN_09.DWG PER DPM 450.06

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	KEY PLAN
3-29	WETLAND IMPACT PLANS

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

I-295 AND ROUTE 37 INTERCHANGE

BRIDGE GROUP 51B: RT 37 C-3

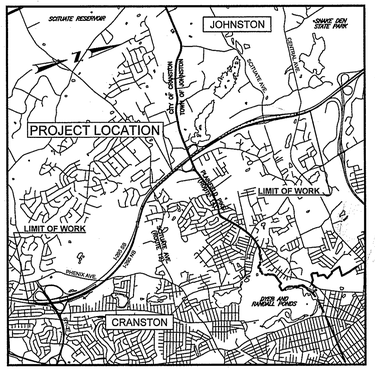
PERMITTING VOLUME WETLAND IMPACTS SHEETS
(RIDEM PERMIT APPLICATION 23-0039)

CITY OF CRANSTON, TOWN OF JOHNSTON

COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2021-DB-009

R.I. FAP NO. NHP-0037(014)

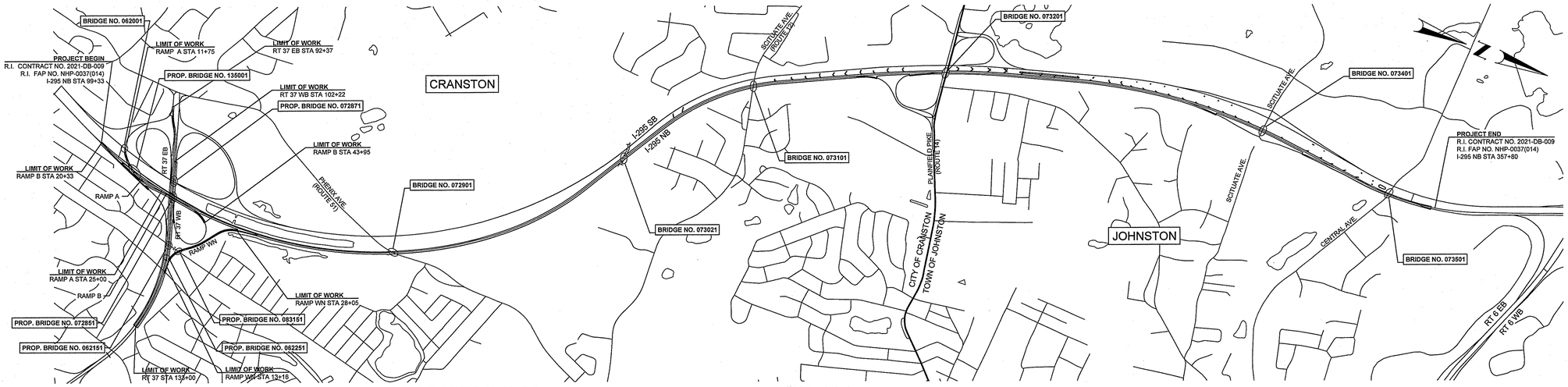


LOCATION MAP
1" = 5000'

PAVEMENT STRUCTURE 1-295 NB
1.5" FRICTION COURSE
1.5" CLASS 9.5 HMA
9" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE

PAVEMENT STRUCTURE RT.37
RAMP WN, RAMP A, RAMP B
1.5" FRICTION COURSE
1.5" CLASS 9.5 HMA
7" CLASS 19.0 HMA
12" GRAVEL BORROW SUBBASE COURSE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek



SCALE OF DRAWINGS

PLANS 1" = 20' UNLESS OTHERWISE NOTED

LAYOUT PLAN
SCALE: 1" = 1000'

I-295 NB - 4.9 MILES
RT. 37 - 0.8 MILES

BASE OF LEVELS

HORIZONTAL DATUM: RI STATE PLANE, NAD 83
VERTICAL DATUM: NAVD 88

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AMENDED MARCH 2018, 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.

RI Environmental Management
JUN - 7 2023
Office of Water Resources

Contract Number 2021-DB-009

Number of Sheet 1

Total Sheets 35

FRESHWATER WETLANDS PERMIT APPLICATION FEBRUARY 2023
(REVISED MARCH 2, 2023 AND JUNE 5, 2023)

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	JTS
CHECKED BY:	CED
DATE:	02/14/2023
SHEET:	1
OF:	466

SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RH

COVER SHEET

C:\PWWORKING\USRI\DMS02032\01- FWWP APPLICATION COVER SHEET.DWG

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	2	35



WETLAND IMPACT KEY PLAN

SCALE: 1" = 1000'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

KEY LEGEND:

(#) WETLAND IMPACT PLAN NUMBER

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	11
OF:	30

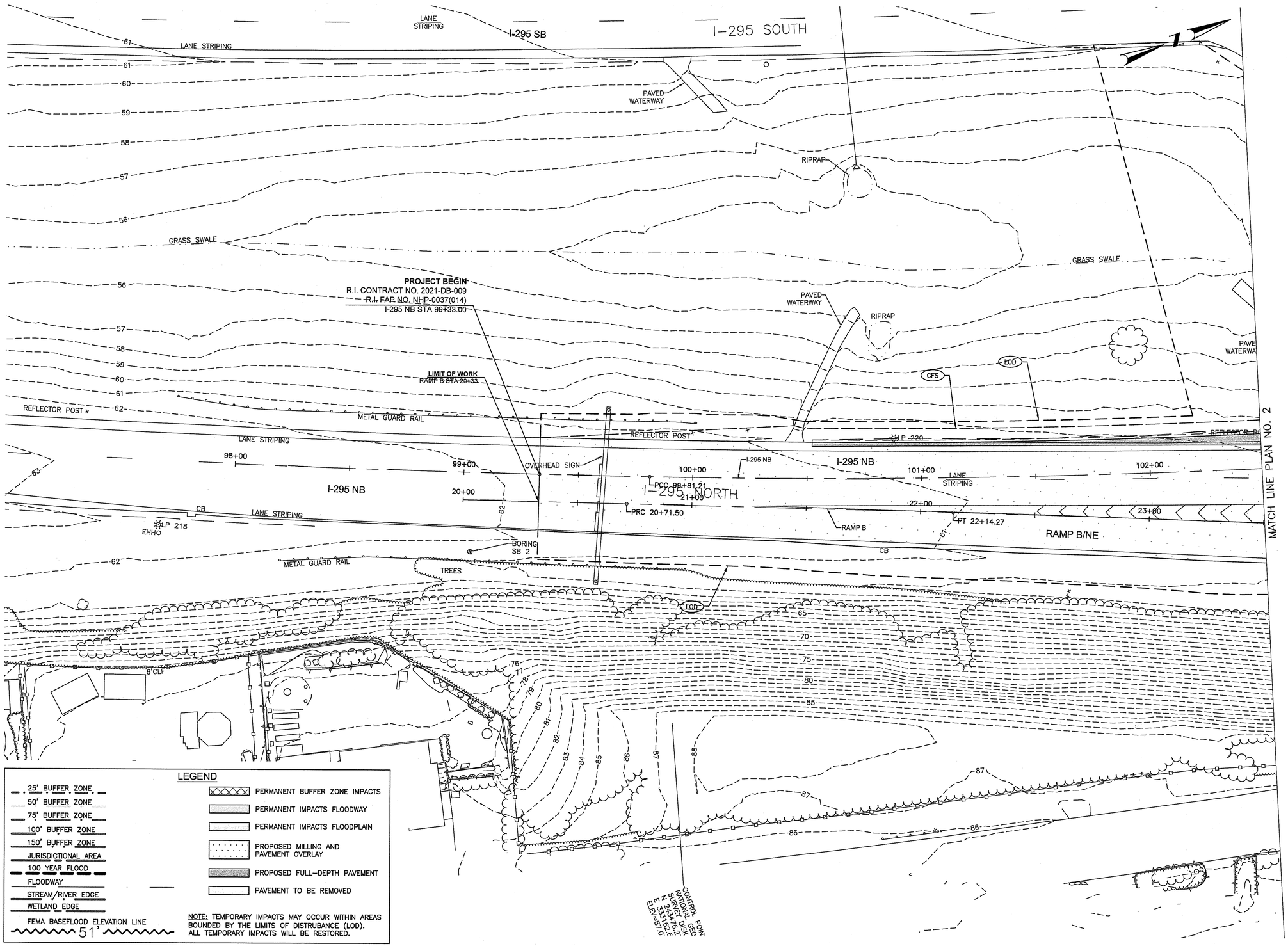
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0 1000 2000
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHC
WETLAND IMPACT KEY PLAN

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (2).DWG PL

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	3	35



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'
- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Environmental Management
JUN 07 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wencek

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	1
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 1

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	4	35

I-295 SB

LIMIT OF WORK
RAMP A
STA 11+75

RAMP EN

CONC. WALL

BRIDGE NO. 062001
(SEE VOLUME 3)

LOD

CFS

25' BUFFER ZONE
(WETLAND C)

WF WC1
WF WC2
WETLAND C
WF WC5
WF WC3
WF WC4

MASONRY RET. WALL

METAL GUARD RAIL

ASSF

PIECES OF GRANITE CURB

100' JURISDICTIONAL AREA

COMPENSATORY STORAGE AREA A

LOCATION OF STORMWATER TREATMENT UNIT STU NO. 1

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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100-YR FLOOD

GRASS

EDGE BIT.

RAMP A

PT 12+60.50

PC 13+28.42

PT 13+77.50

JERSEY BARRIER

BORING RW 1

PROPOSED RETAINING WALL

PROPOSED BRIDGE NO. 135001

RAMP EN

12" RCP

I-295 NB

103+00
104+00
105+00
106+00
107+00
108+00

PT 103+77.58

LANE STRIPING

GB

PC 107+14.18

I-295 NORTH

PROPOSED RETAINING WALLS

MATCH LINE PLAN SHEET NO. 1

MATCH LINE PLAN SHEET NO. 3

24+00
25+00
26+00
27+00
28+00
29+00

LANE STRIPING

EDGE BIT.

EHHO
LP

RAMP A

BORING RW 3

BORING B 102

BORING RW 4

RAMP B/NE

RAMP B

LP 295

EHH

PC 28+69.87

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/22
SHEET:	2
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

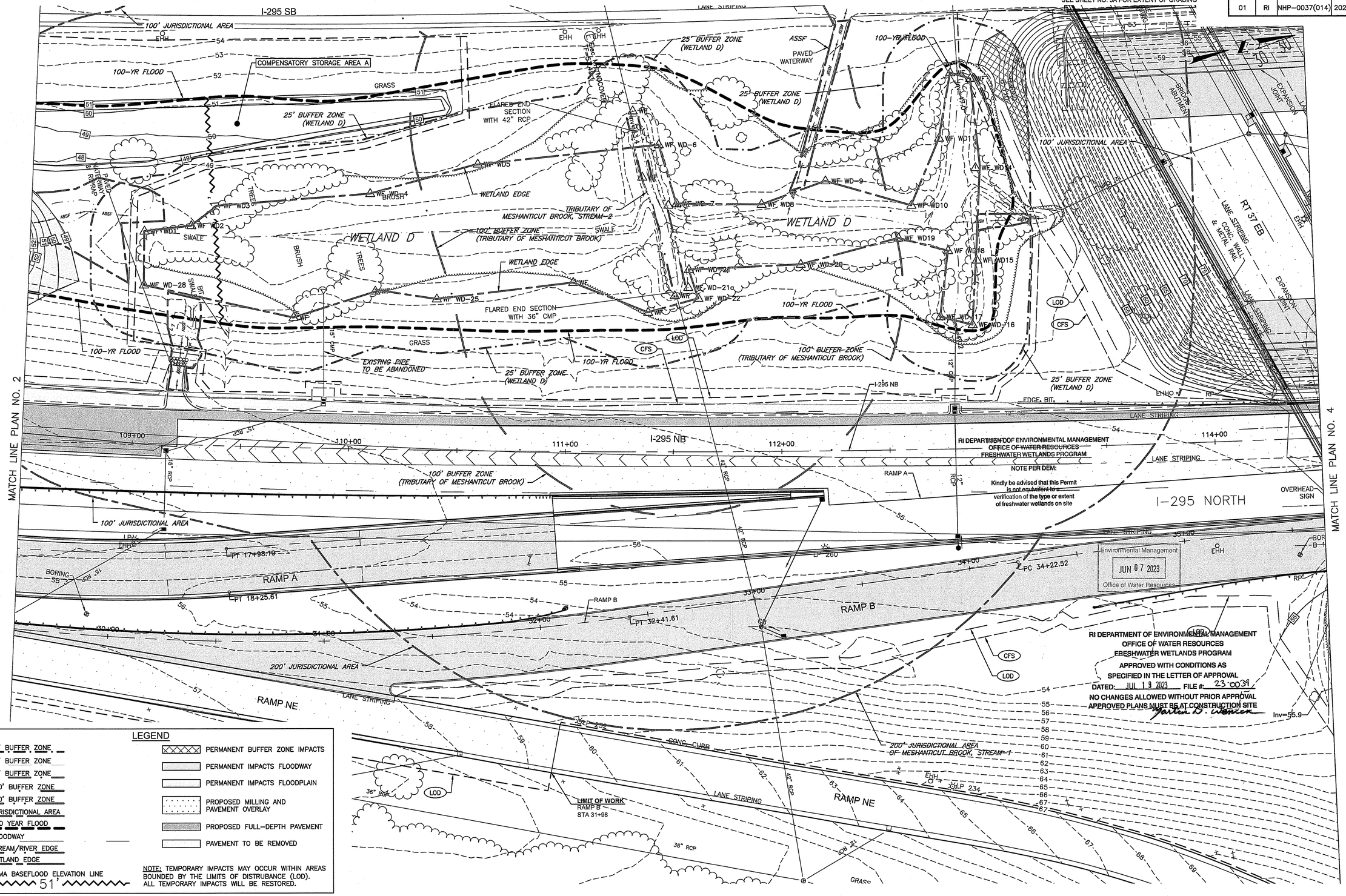
HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 2

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	5	35

SEE SHEET NO. 3A FOR EXTENT OF GRADING



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Environmental Management
JUN 07 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wencek

LEGEND

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- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
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- PAVEMENT TO BE REMOVED

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Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	3
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 3

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	6	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Warner

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 4

MATCH LINE PLAN NO. 3

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	11/XX/2022
SHEET:	30
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

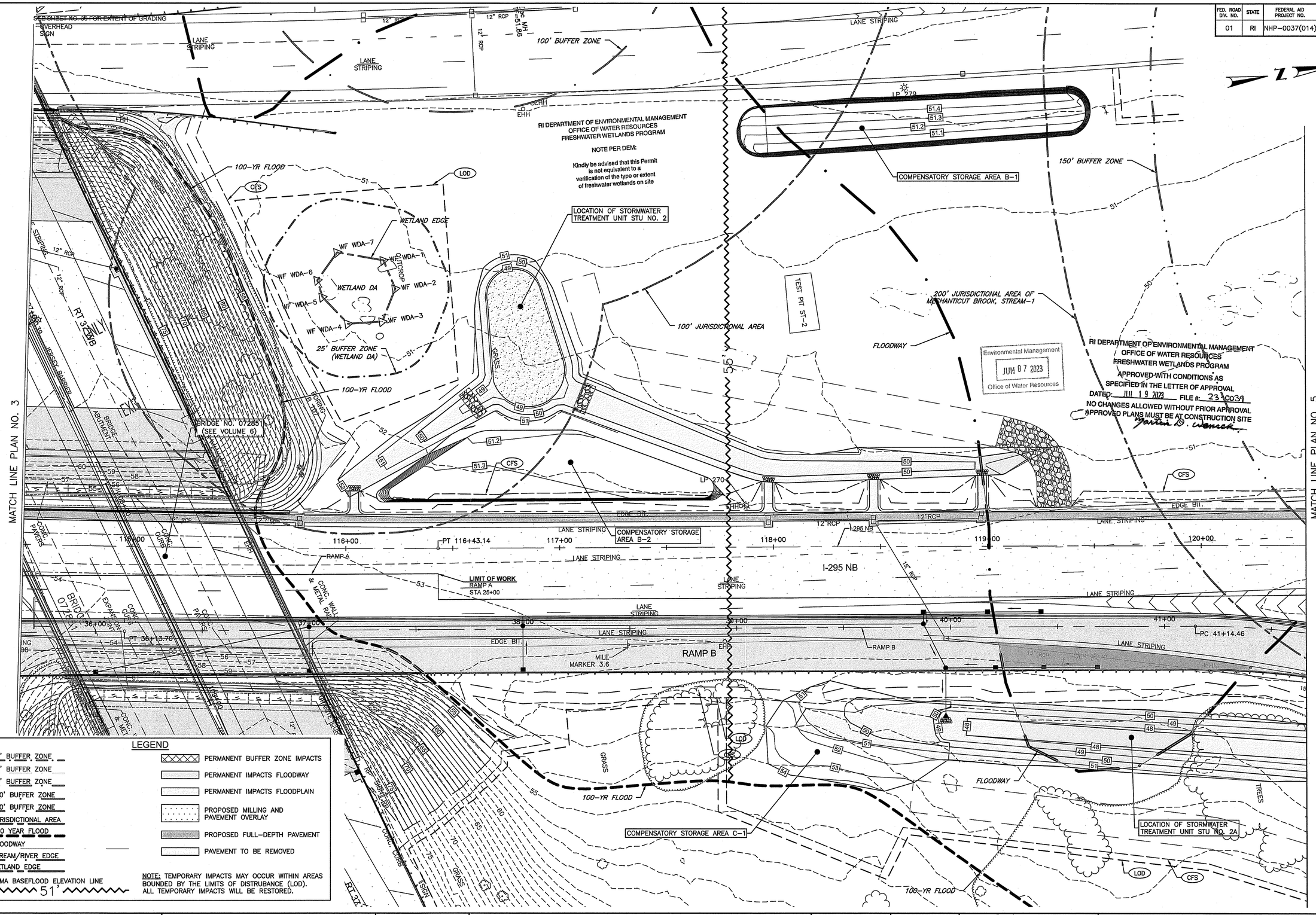
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 3A

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (4).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	7	35



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	4
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

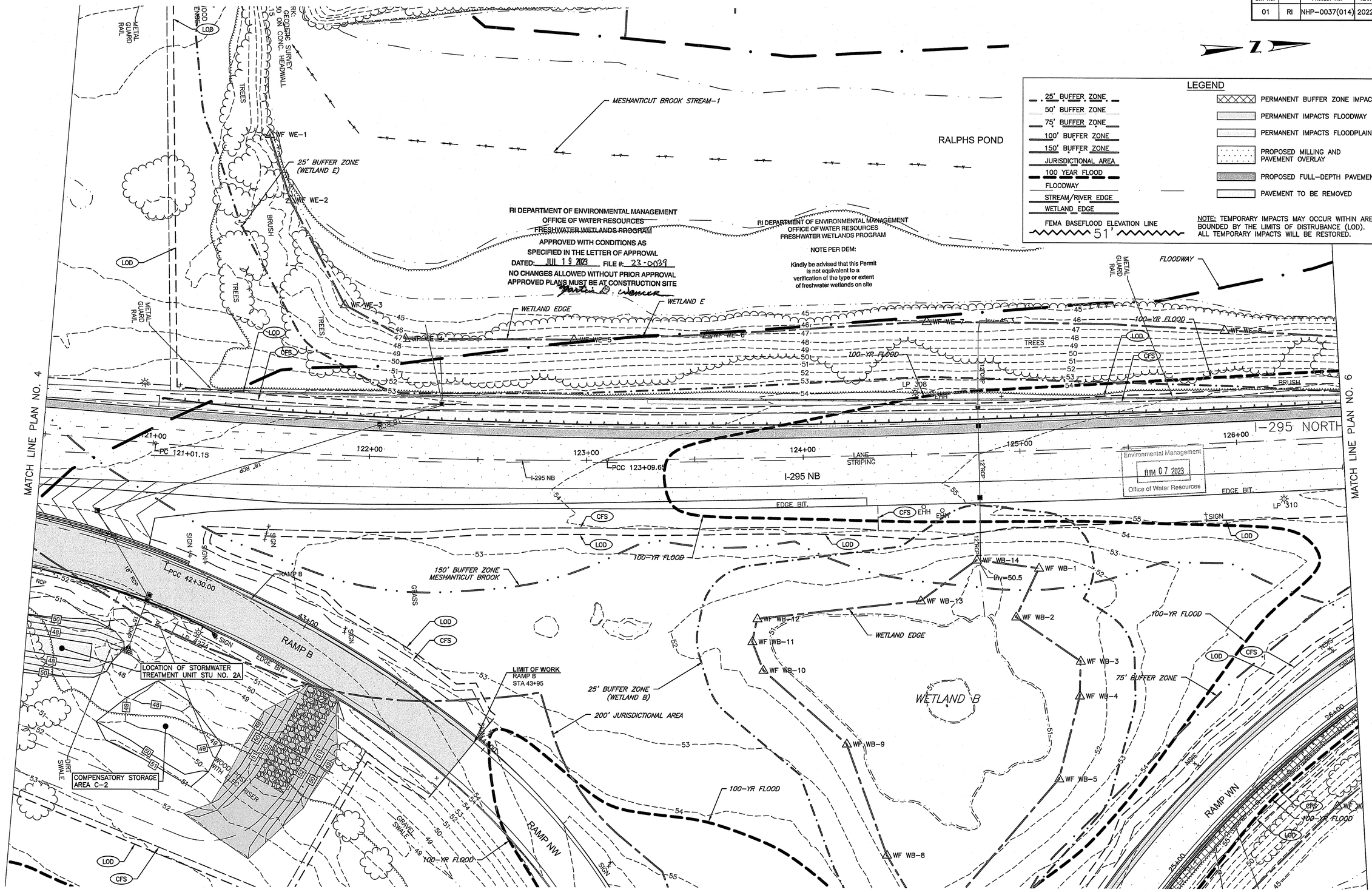
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 4

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	8	35



DESIGNED BY:	PJP	
CHECKED BY:	JTS	
DATE:	10/19/2022	
SHEET:	5	
OF:	30	

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 5

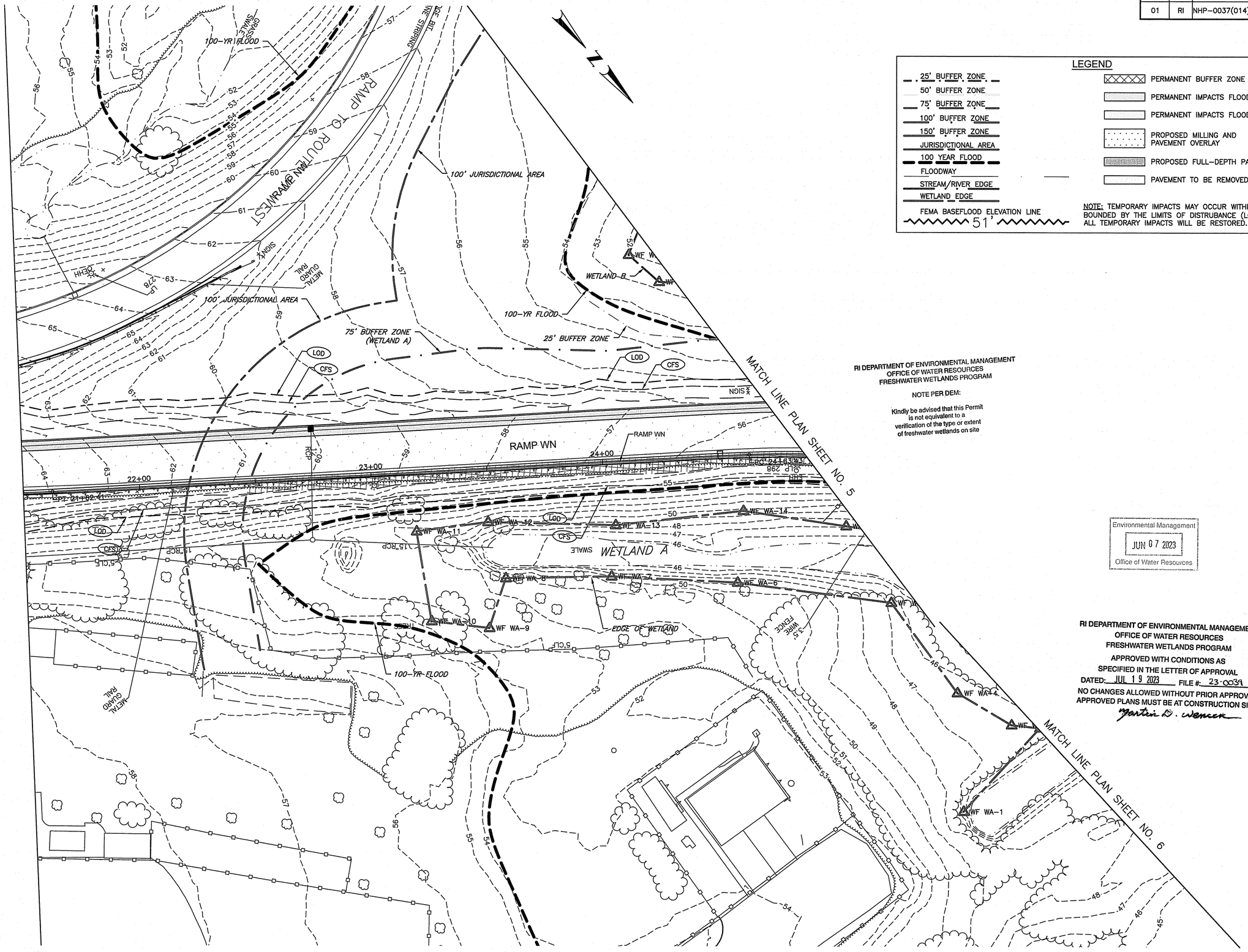
Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	9	35



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'
- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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Environmental Management
JUN 07 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	11
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 5A

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (2).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	10	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 5

MATCH LINE PLAN NO. 4

MESHANTICUT BROOK STREAM-1

RALPHS POND

MASONRY WALL

RIPRAP

WF WE-9c

WF WE-9b

WF WE-9a

WF WE-10

Inv=49.8

LP 312

EHH

4' WIRE FENCE

WF WE-11

100-YR FLOOD

25' BUFFER ZONE (WETLAND E)

FLOODWAY

METAL GUARD RAIL

WF WE-13

WF WE-14

WF WE-15

LP 316

Inv=51.6

CFS

LOD

127+00

128+00

129+00

130+00

131+00

132+00

I-295 NB

I-295 NORTH

75' BUFFER ZONE (WETLAND A)

LANE STRIPING

LIMIT OF WORK
RAMP WN
STA 28+05

EDGE PAV

LP 300

SIGN

RAMP WN

27+00

28+00

29+00

30+00

31+00

31+10

WETLAND EDGE

WF WA-18

WF WA-19

WF WA-20

WF WA-21

WF WA-22

WF WA-23

WF WA-24

WF WA-25

100-YR FLOOD

WETLAND A

LP 314

LP BASE & EHH

150' BUFFER ZONE (MESHANTICUT BROOK)

85'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: JUL 19 2023 FILE #: 23-0039

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Patricia D. Kwasnik

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	6
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

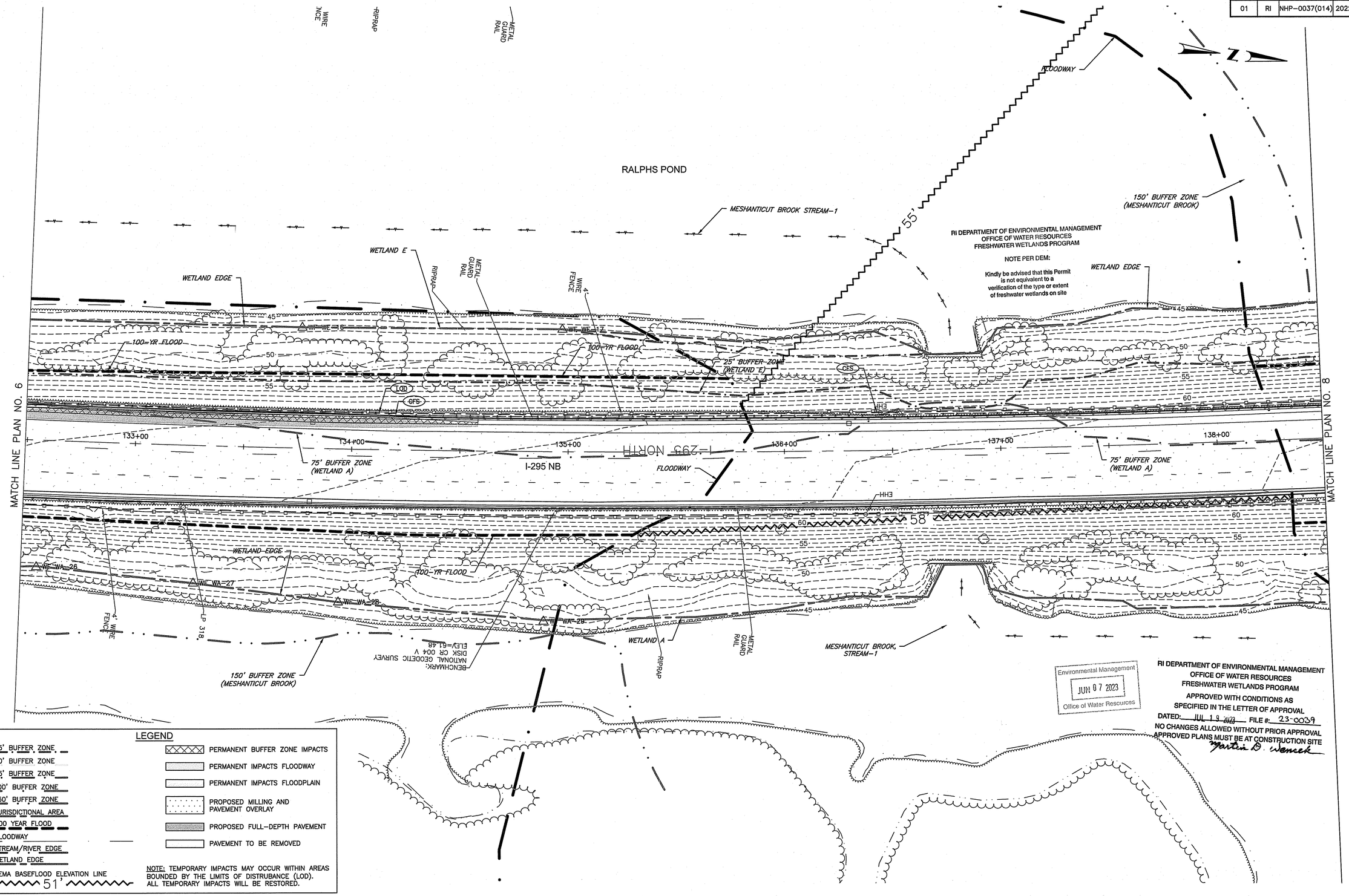
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 6

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	11	35



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Environmental Management
JUN 07 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: JUL 19 2023 FILE #: 23-0039

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

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Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	7
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 7

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG REVISED PLOT 10/19/2022

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	12	35

RALPHS POND

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 7

MATCH LINE PLAN NO. 9

RIPRAP
METAL GUARD RAIL
LP 349
4' WIRE FENCE
WETLAND EDGE
WETLAND E
EHH
100-YR FLOOD
25' BUFFER ZONE (WETLAND E)
150' BUFFER ZONE (MESHANTICUT BROOK)
LOD
CFS
LP 324
BIT. BERM
LANE STRIPING
139+00
140+00
141+00
142+00
143+00
144+00
I-295 NORTH
I-295 NB
75' BUFFER ZONE (WETLAND A)
LP 322
60
55
50
45
WETLAND A
WETLAND EDGE
4' WIRE FENCE
METAL GUARD RAIL
CLF
6'
58'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jordan D. Haworth

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	8
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO.8

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	13	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RALPHS POND

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencer

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 8

MATCH LINE PLAN NO. 10

55'

METAL GUARD RAIL

4' WIRE FENCE

WETLAND EDGE

25' BUFFER ZONE (WETLAND E)

100-YR FLOOD

TREES

BRUSH

LOD

RIPRAP

BIT. BERM

LANE STRIPING

I-295 NORTH

I-295 NORTH

I-295 NORTH

145+00

146+00

147+00

148+00

149+00

150+00

I-295 NB

EHH

GRASS

MILE MARKER 4.2

200' JURISDICTIONAL AREA of MESHANTICUT BROOK, STREAM-1

100' JURISDICTIONAL AREA

150' BUFFER ZONE

WETLAND A

75' BUFFER ZONE (WETLAND A)

FLOODWAY

WETLAND E

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	9
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

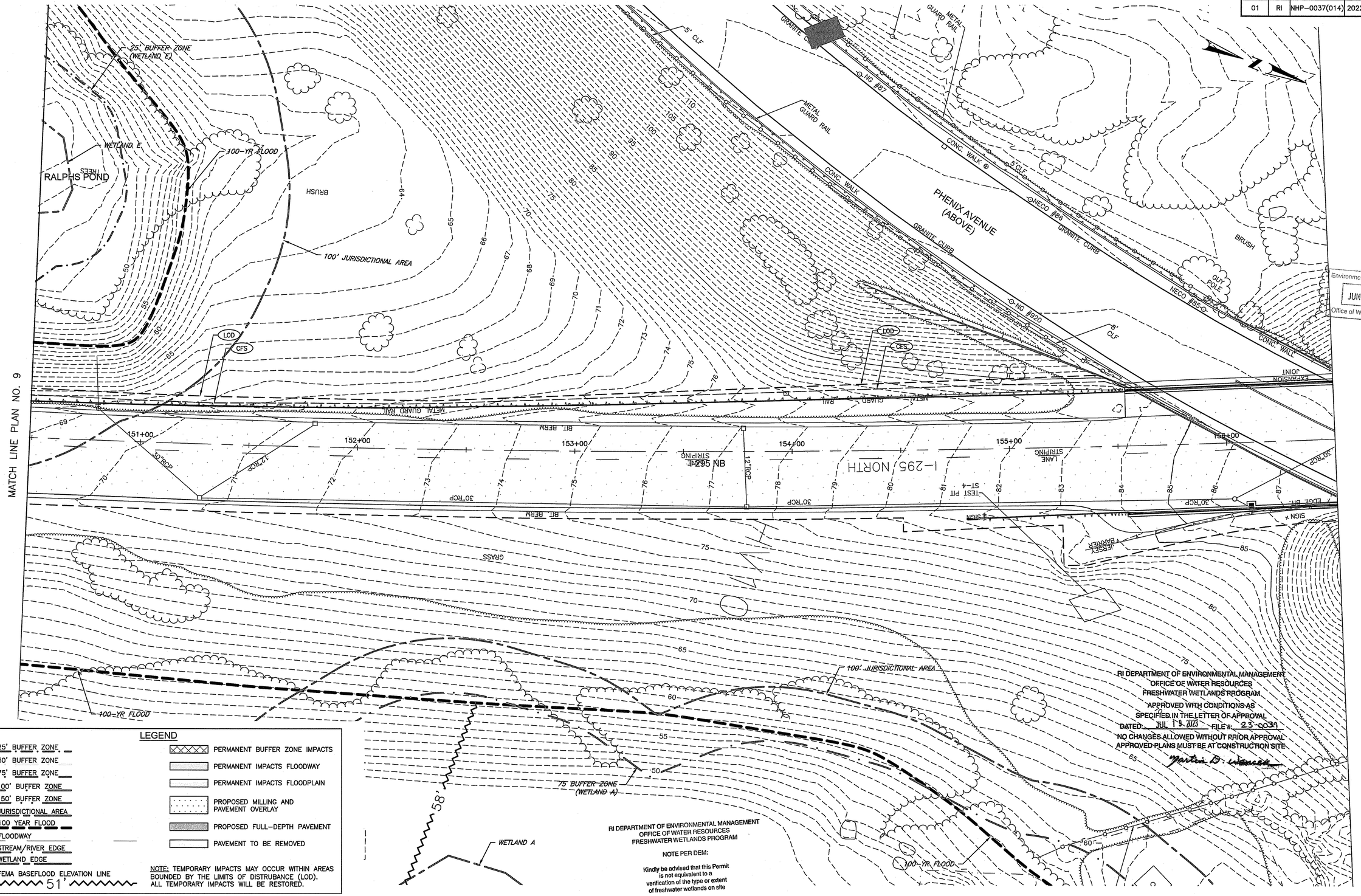
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 9

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	14	35



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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Environmental Management
JUN 07 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OE WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0031
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Vanasse

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	10
OF:	30

SCALE: 1"=20'
10 0 10 20 40
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 10

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (1).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	15	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 11A

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	12
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 11

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	16	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 11

MATCH LINE PLAN NO. 11B

I-295 NB

PT 193+35.68

HV12

50' BUFFER ZONE (WETLAND)

100' JURISDICTIONAL AREA

WETLAND

LOD

CFS

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	12
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 11A

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	17	35

MATCH LINE PLAN NO. 11A

MATCH LINE PLAN NO. 12

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

I-295 SB

I-295 NB

200' JURISDICTIONAL AREA

100' JURISDICTIONAL AREA

EXISTING BRIDGE NO. 073021 (NIC)

PWSB AQUEDUCT AND ARCH CULVERT (UNDER I-295)

50' BUFFER ZONE (WETLAND)

100' BUFFER ZONE (STREAM-1)

WETLAND

LOD

CFS

Environmental Management
JUN 07 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 17 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'
- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	12
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 11B

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	18	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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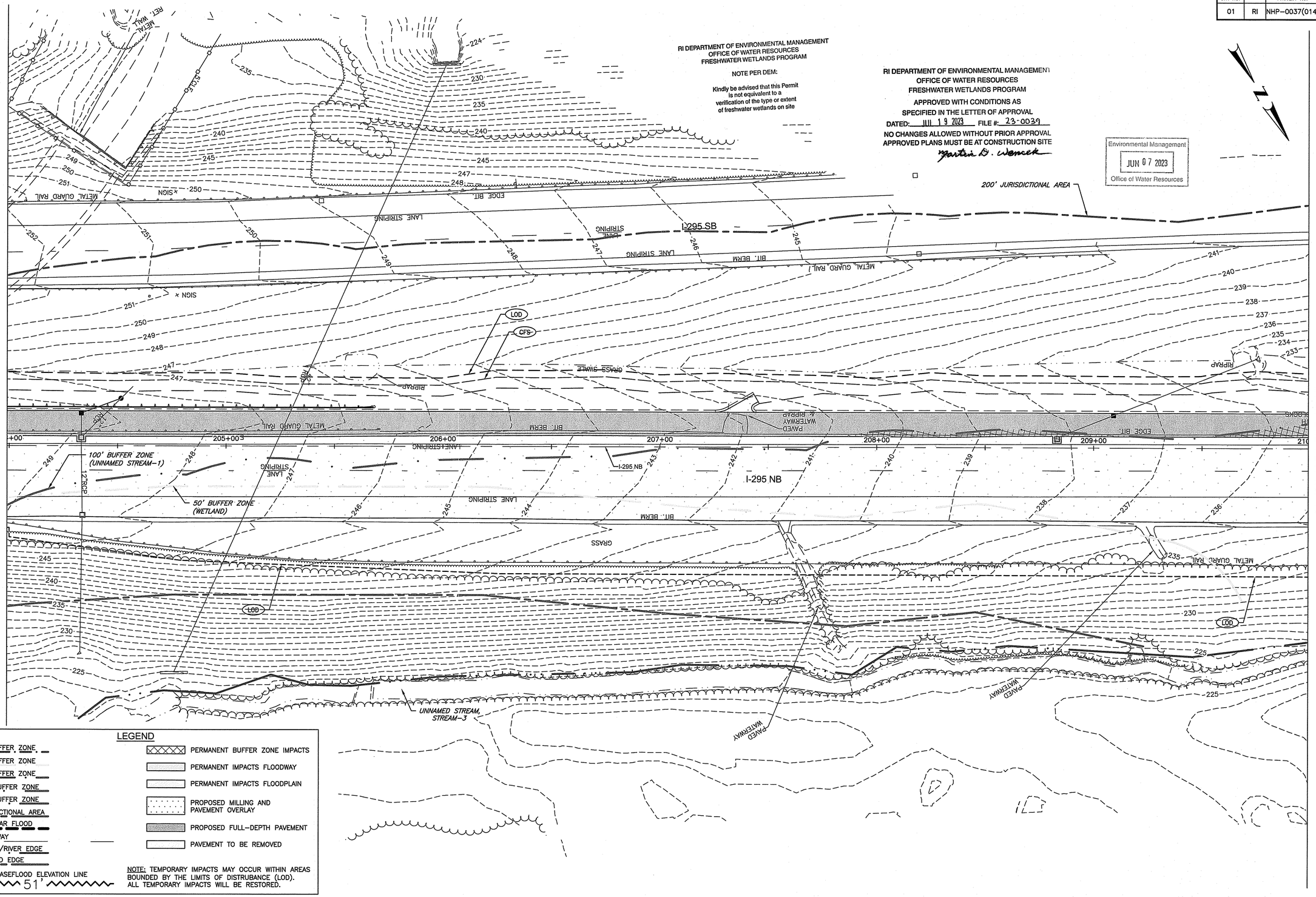
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 33

MATCH LINE PLAN NO. 13



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	12
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 12

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP–0037(014)	2022	19	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

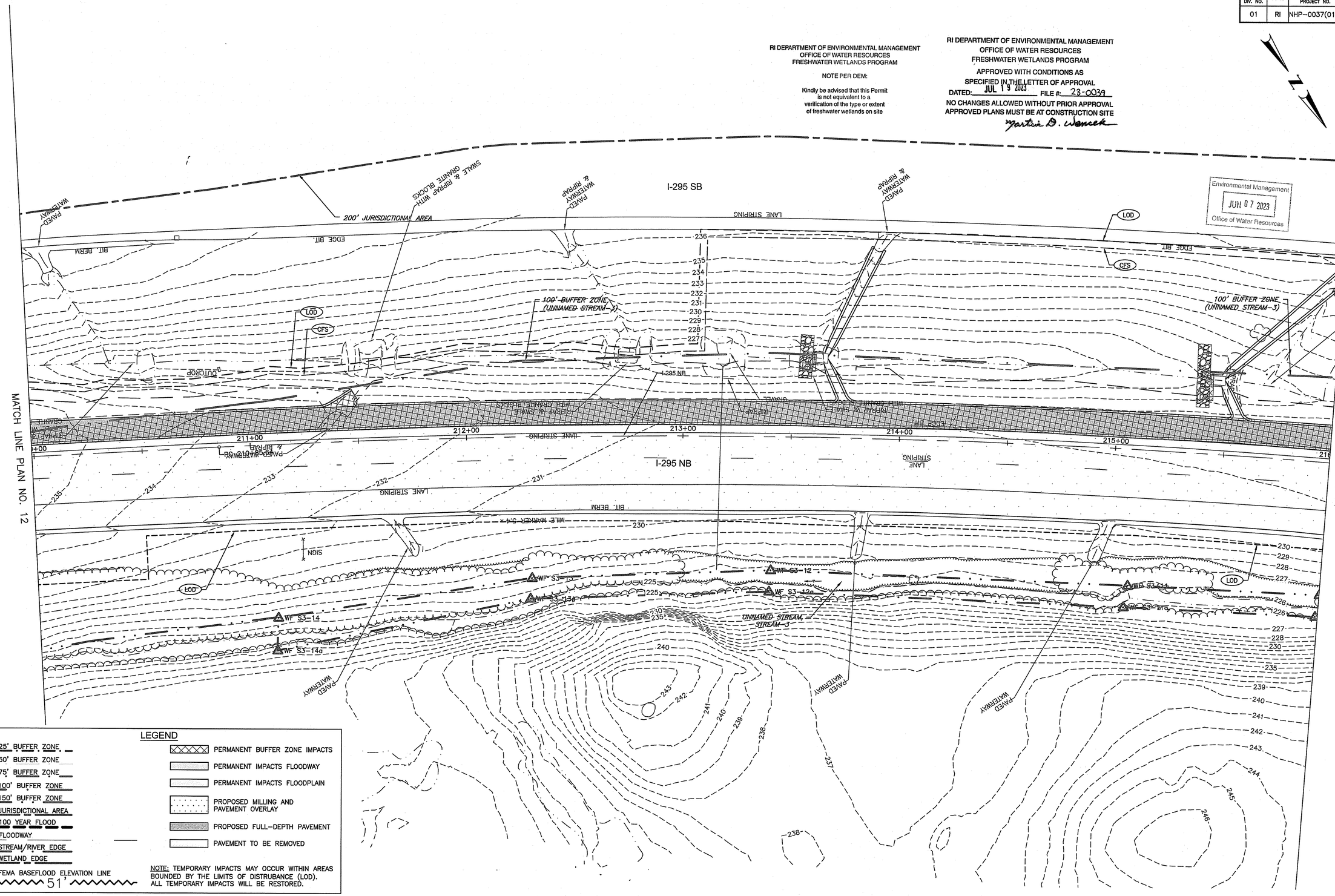
NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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

Environmental Management
JUN 07 2023
Office of Water Resources



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL–DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	13
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 13

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT– (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	20	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

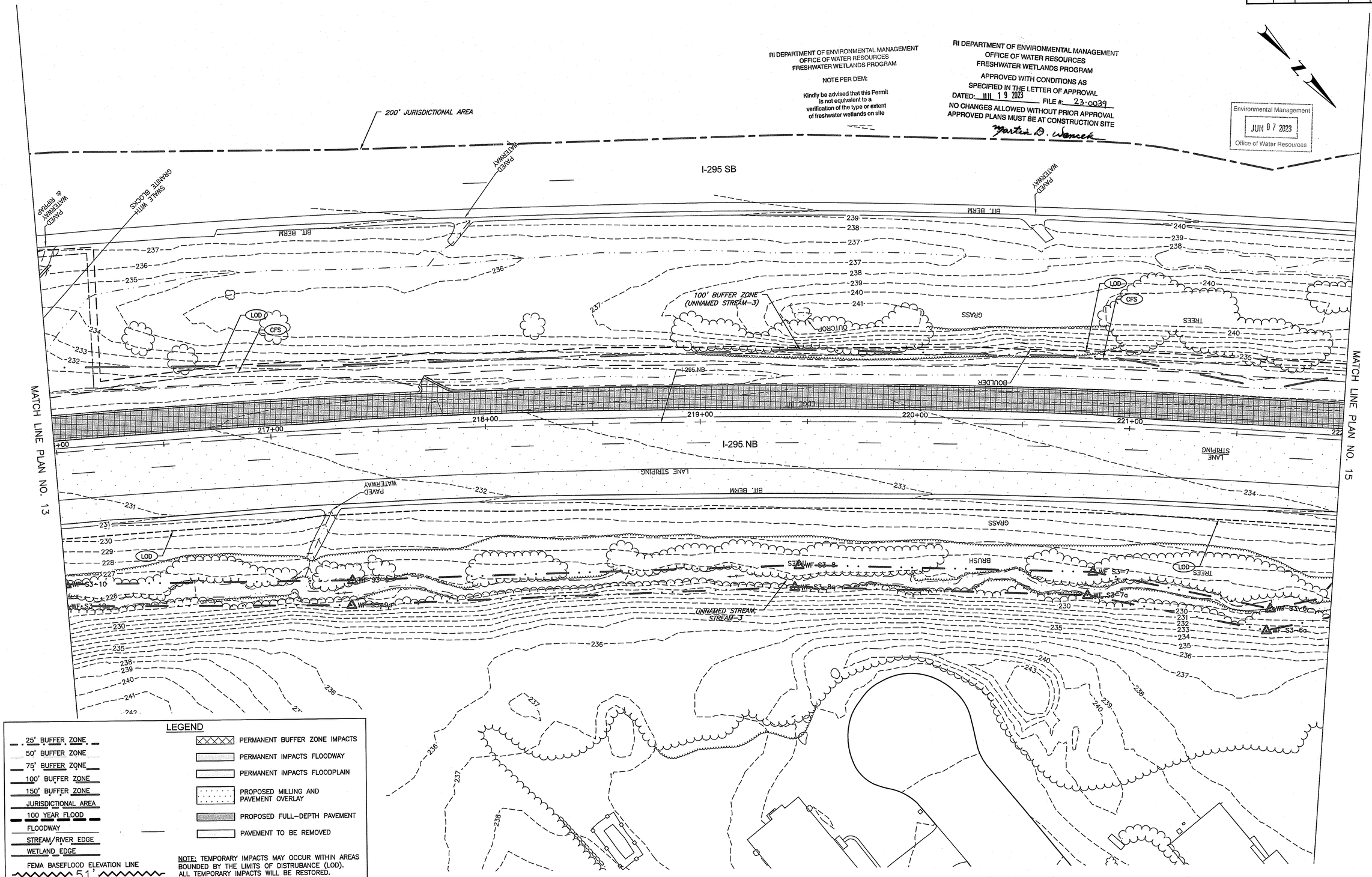
NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'
- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

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Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	14
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 14

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	21	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Martin D. Wencek

MATCH LINE PLAN NO. 14

MATCH LINE PLAN NO. 16

I-295 SB

I-295 NB

200' JURISDICTIONAL AREA

100' BUFFER ZONE (UNNAMED STREAM-3)

25' BUFFER ZONE (WETLAND F)

WETLAND F

UNNAMED STREAM, STREAM-3

LOD

CFS

GRASS

TREES

LANE STRIPING

PAVED WATERWAY

BIT. BERM

MILE MARKER 5.6

SIGN

18" RCP

GRASS SWALE

METAL GUARD

223+00 224+00 225+00 226+00 227+00

WF WF-102 WF S3-1 WF S3-2 WF S3-3a WF S3-4a WF S3-5d WF S3-5c WF S3-4c WF WF-104 WF WF-105 WF S4-1 WF S4-2a WF S4-2c WF S4-102 WF (WF-101)

BENCHMARK SURVEY DISK GEODETIC ELEV=260.39

MONUMENT DISK GEODETIC N 234342.52 E 928434.02 ELEV=242.74

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	15
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE 10 0 5 10 20 40

REVISIONS NO.	DATE	BY	REVISIONS NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 15

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	22	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

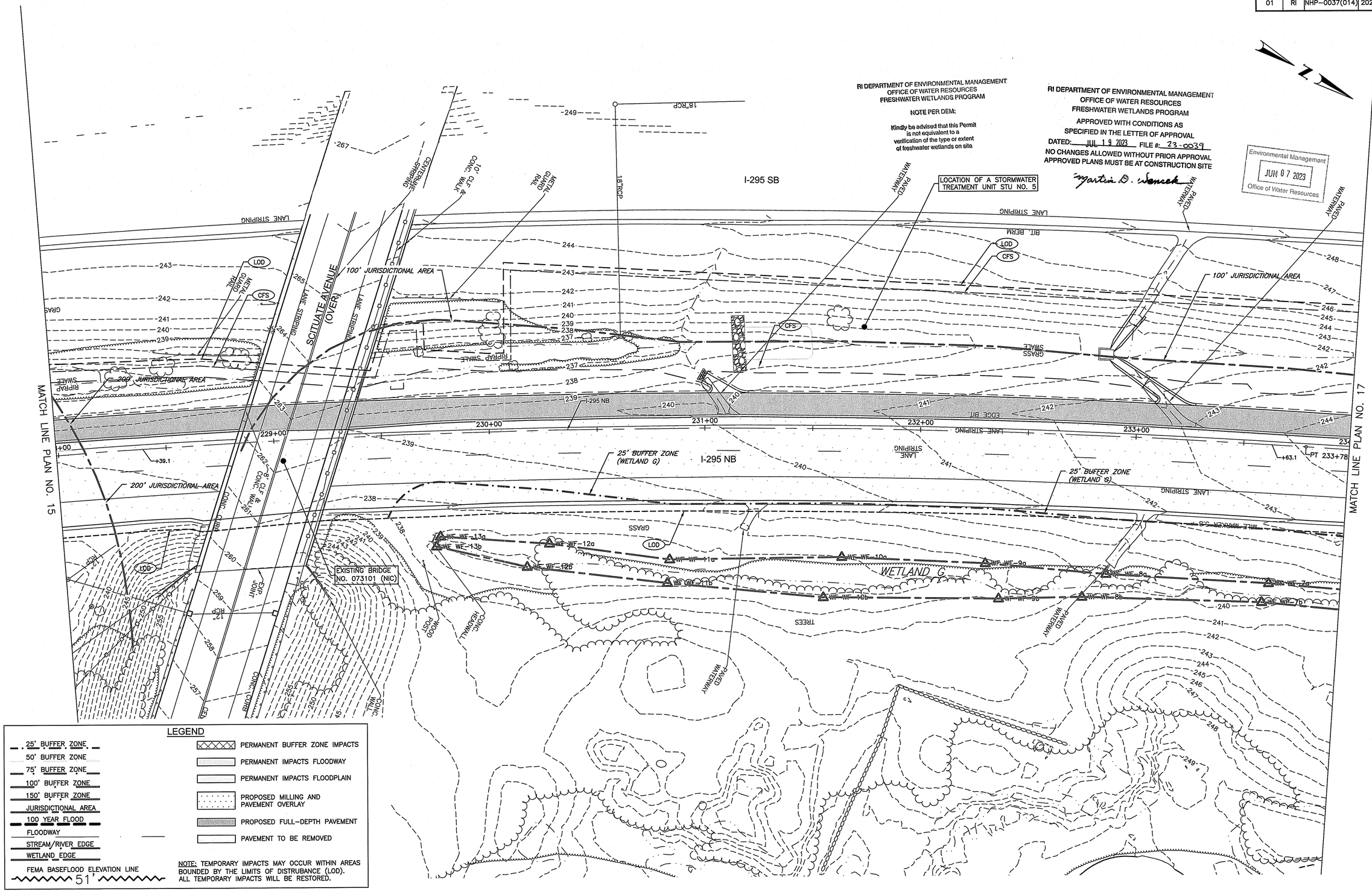
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: JUL 19 2023 FILE #: 23-0039

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Martin D. Vencek

Environmental Management
JUN 07 2023
Office of Water Resources



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	16
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 16

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	23	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Martin D Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 15

MATCH LINE PLAN NO. 17

I-295 SB

I-295 NB

200' JURISDICTIONAL AREA

LOCATION OF A STORMWATER TREATMENT UNIT STU NO. 5

PAVED WATERWAY

100' JURISDICTIONAL AREA

25' BUFFER ZONE (WETLAND G)

WETLAND G

WETLAND H

100' BUFFER ZONE (TRIBUTARY TO MESHANTICUT LAKE, STREAM-5)

25' BUFFER ZONE (WETLAND-H)

TRIBUTARY TO MESAHNTICUT LAKE, STREAM-5

LOD

CFS

SIGN

GRASS

TREES

BERM

BIT. BERM

EDGE BIT.

LANE STRIPING

235+00 236+00 237+00 238+00 239+00

WF WF-1 WF WF-2 WF WF-3 WF WF-4a WF WF-4b WF WF-5a WF WF-5b WF WF-6a WF WF-6b

WF WH-1 WF WH-2 WF WH-3 WF WH-4 WF WH-5 WF S5-1 WF S5-1a WF S5-2 WF S5-2a WF S5-3 WF S5-4

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/XX/2022
SHEET:	17
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 17

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	24	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Martin D. Wencek

Environmental Management
JUN 07 2023
Office of Water Resources

MATCH LINE PLAN NO. 15

MATCH LINE PLAN NO. 17

I-295 SB

I-295 NB

200' JURISDICTIONAL AREA

100' BUFFER ZONE (TRIBUTARY TO MESHANTICUT LAKE, STREAM-5)

TRIBUTARY TO MESAHNTICUT LAKE, STREAM-5

LOD

CFS

PAVED WATERWAY

PAVED WATERWAY & RIPRAP

GRASS SWALE

LANE STRIPING

EDGE BIT.

BIT. BERM

LP 80847

MILE MARKER 6

SIGN

METAL GUARD RAIL

+59.2

+77.9

241+00 242+00 243+00 244+00 245+00

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	18
OF:	30

SCALE: 1"=20'
10 0 5 10 20 40
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 18

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	25	35

MATCH LINE PLAN NO. 18

MATCH LINE PLAN NO. 20

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Environmental Management
JUN 07 2023
Office of Water Resources

I-295 NB

PC 249+37.33

200' JURISDICTIONAL AREA

100' BUFFER ZONE (TRIBUTARY TO MESHANTICUT LAKE, STREAM-5)

TRIBUTARY TO MESAHNICUT LAKE, STREAM-5

LIMIT OF WORK I-295 NB STA 251+27

EXIT 6 OFF-RAMP

WF S-56
WF S5-57

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	19
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

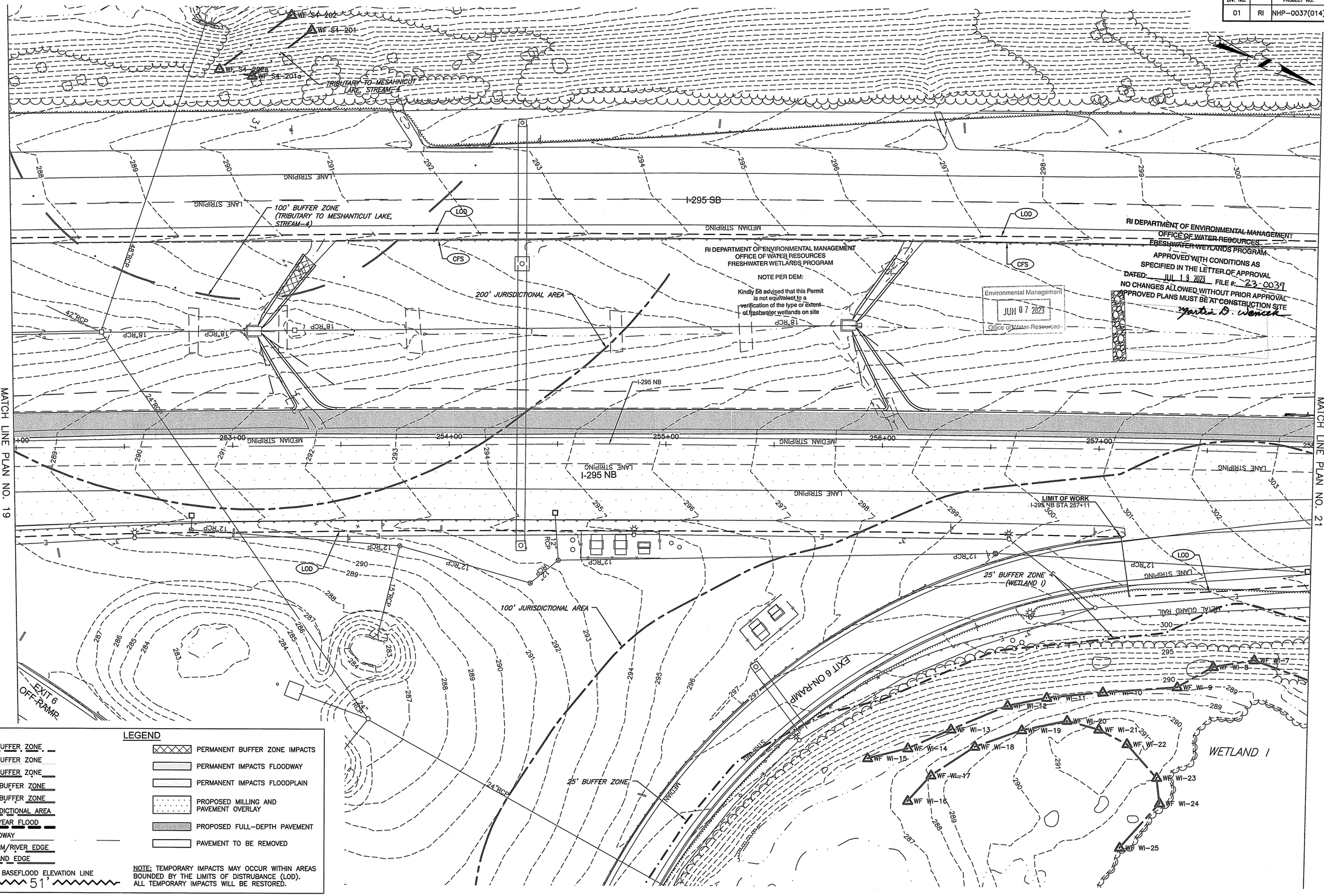
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 19

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	26	35



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	20
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

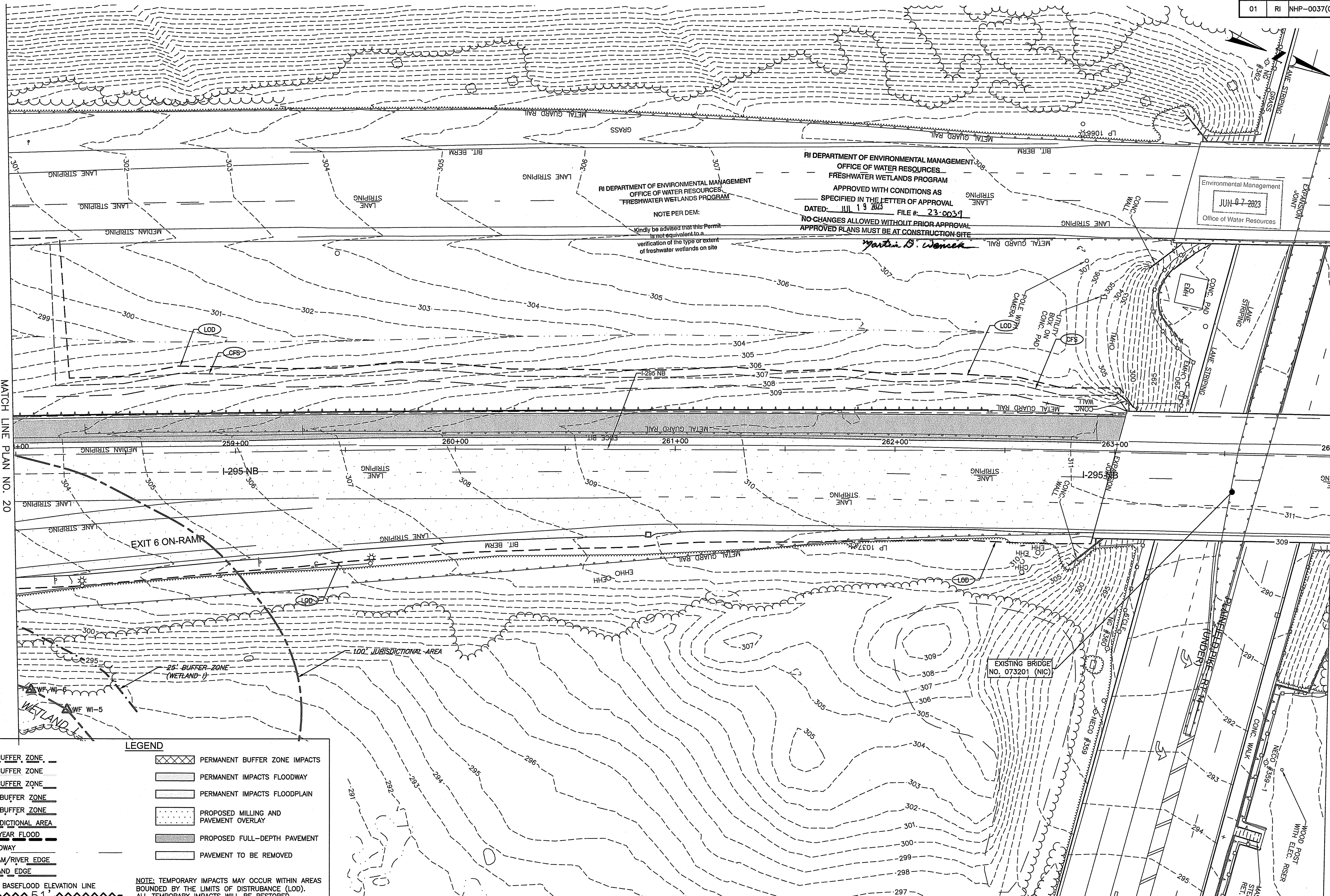
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 20

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP–0037(014)	2022	27	35



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

Environmental Management
JUN 07 2023
Office of Water Resources

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'
- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: PJP
CHECKED BY: JTS
DATE: 10/19/2022
SHEET: 21
OF: 30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 21

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT– (3).DWG PER DPM 450.06

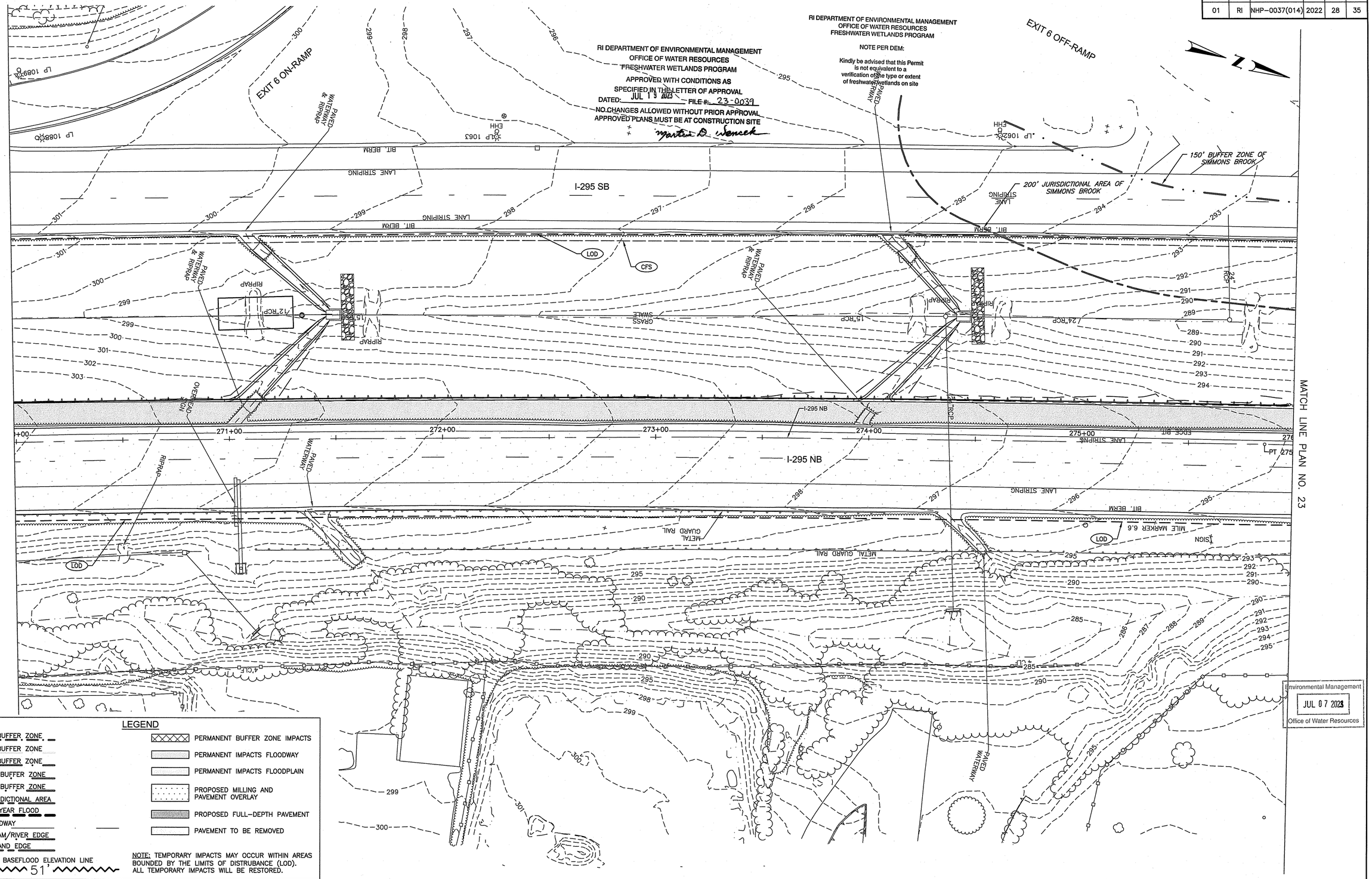
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	28	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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MATCH LINE PLAN NO. 23

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Environmental Management
JUL 07 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	22
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
RHODE ISLAND

WETLAND IMPACT PLAN NO. 22

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	29	35

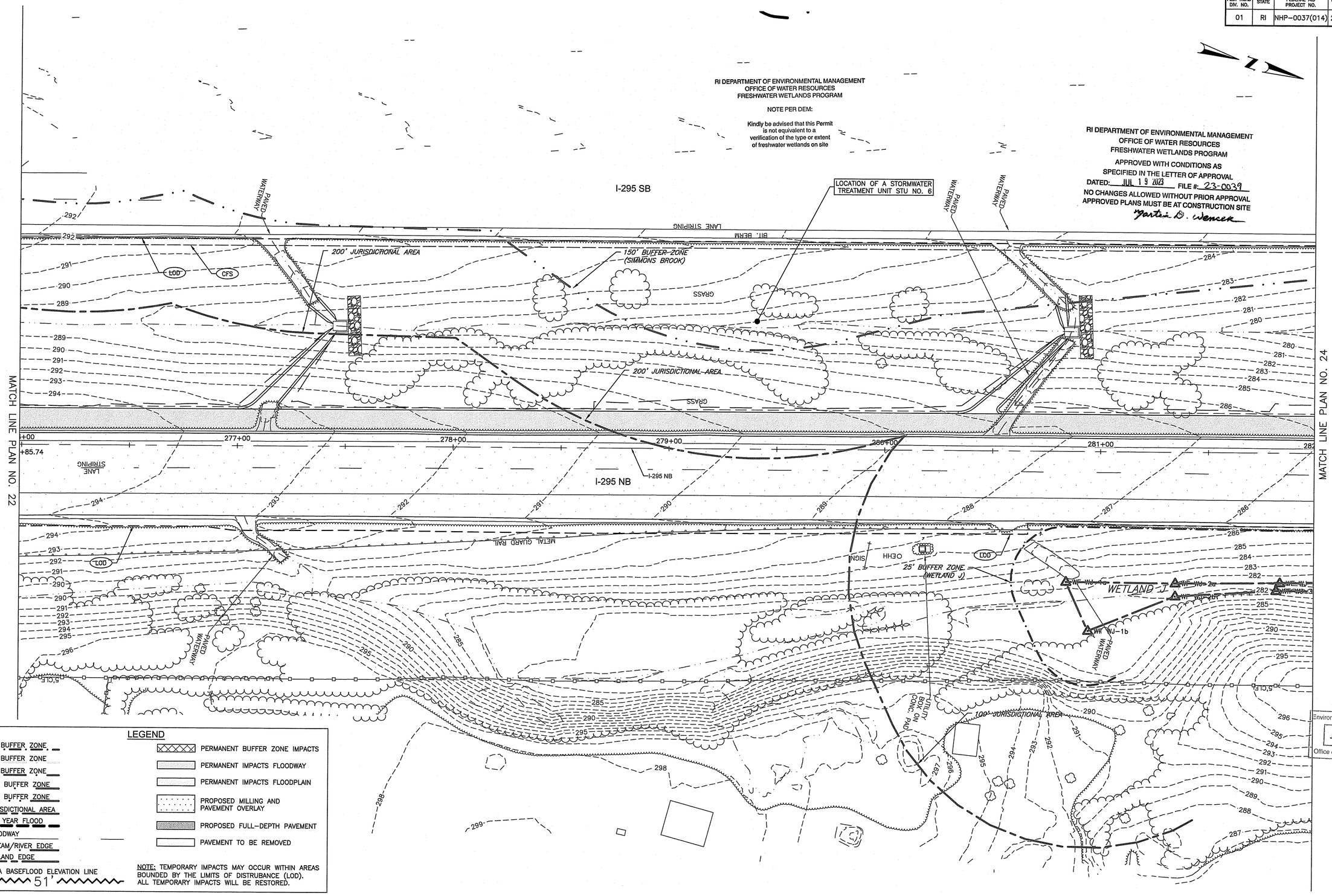
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Environmental Management
JUL 07 2023
Office of Water Resources

Aetna Bridge Company | AECOM | RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	23
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 23

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	30	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

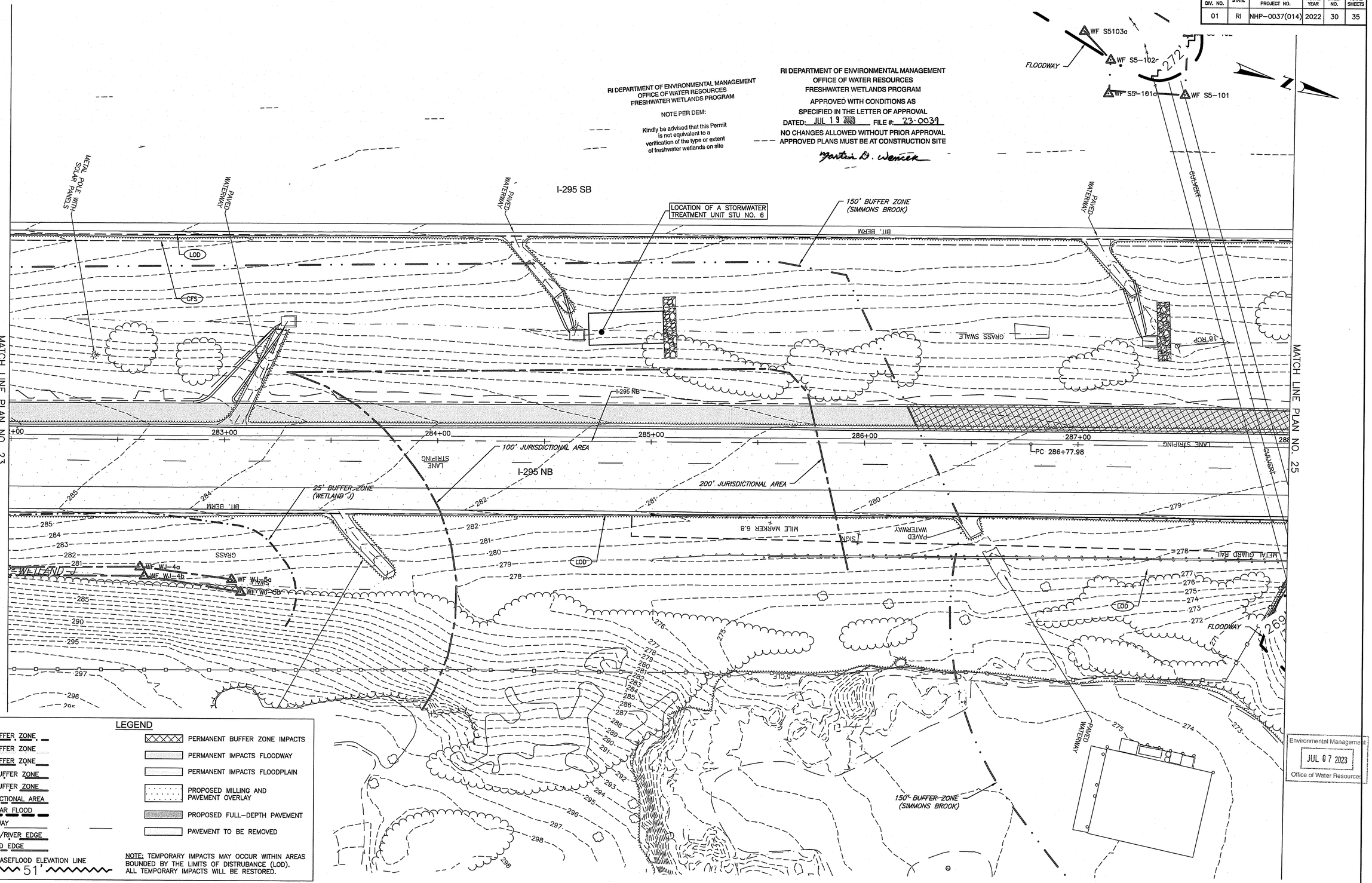
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wencek



LEGEND

25' BUFFER ZONE	PERMANENT BUFFER ZONE IMPACTS
50' BUFFER ZONE	PERMANENT IMPACTS FLOODWAY
75' BUFFER ZONE	PERMANENT IMPACTS FLOODPLAIN
100' BUFFER ZONE	PROPOSED MILLING AND PAVEMENT OVERLAY
150' BUFFER ZONE	PROPOSED FULL-DEPTH PAVEMENT
JURISDICTIONAL AREA	PAVEMENT TO BE REMOVED
100 YEAR FLOOD	
FLOODWAY	
STREAM/RIVER EDGE	
WETLAND EDGE	
FEMA BASEFLOOD ELEVATION LINE 51'	

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Environmental Management
JUL 07 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	24
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO.24

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	31	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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Martin D. Wencek

MATCH LINE PLAN NO. 24

MATCH LINE PLAN NO. 26

200' JURISDICTIONAL AREA

150' BUFFER ZONE (SIMMONS BROOK)

100' BUFFER ZONE (TRIBUTARY OF SIMMONS BROOK, STREAM 6)

I-295 NB

LANE STRIPING

30" ROP

GRASS

TREES

PAVED WATERWAY

LOD

CFS

SIMMONS BROOK, STREAM-6

FLOODWAY

TRIBUTARY OF SIMMONS BROOK, STREAM-6

WF S6-1a, WF S6-2, WF S6-3a, WF S7-1a, WF S7-2, WF S7-3, WF S7-4, WF S7-5, WF S7-5a

289+00, 290+00, 291+00, 292+00, 293+00

+76.0, +62.5

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Environmental Management
JUL 07 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	25
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01

CRANSTON/JOHNSTON RHODE ISLAND

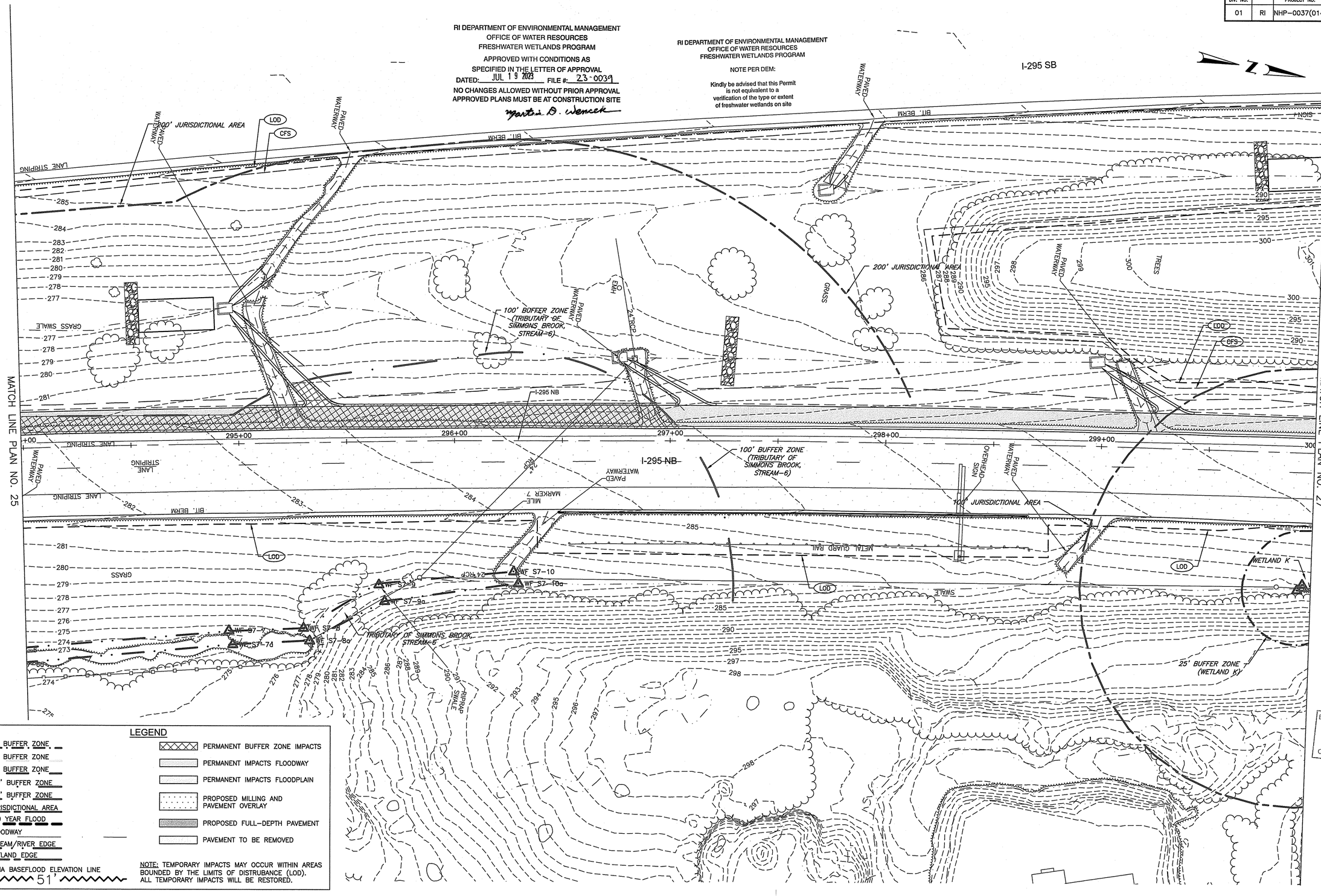
WETLAND IMPACT PLAN NO. 25

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	32	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0039
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
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LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Environmental Management
JUL 07 2023
Office of Water Resources

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	26
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

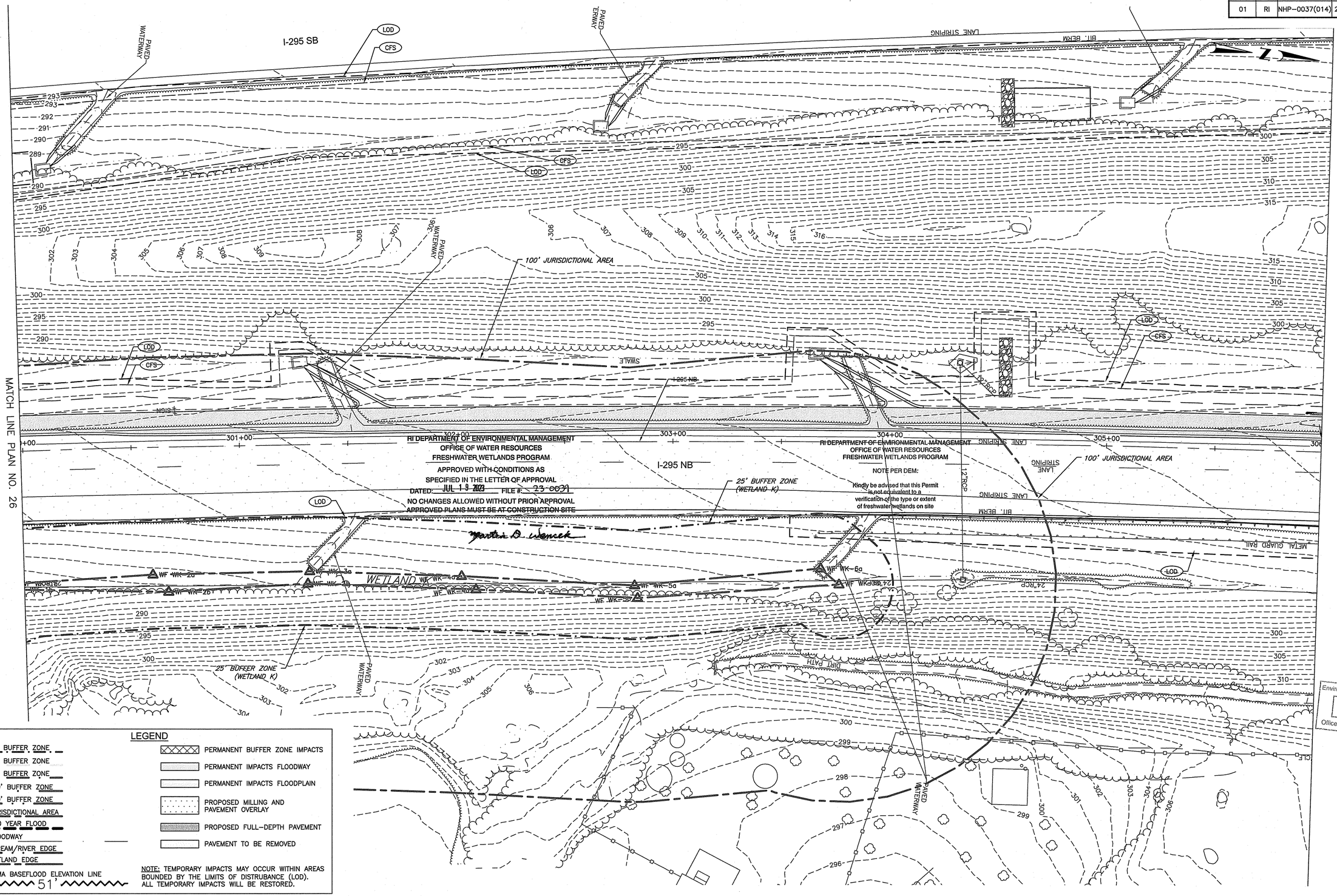
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 26

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	33	35



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 19 2023 FILE #: 23-0037
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
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Environmental Management
JUL 07 2023
Office of Water Resources

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

AETNA Aetna Bridge Company

AECOM

RI DOT RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	27
OF:	30

SCALE: 1"=20'
10 0 5 10 20 40
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 27

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	34	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

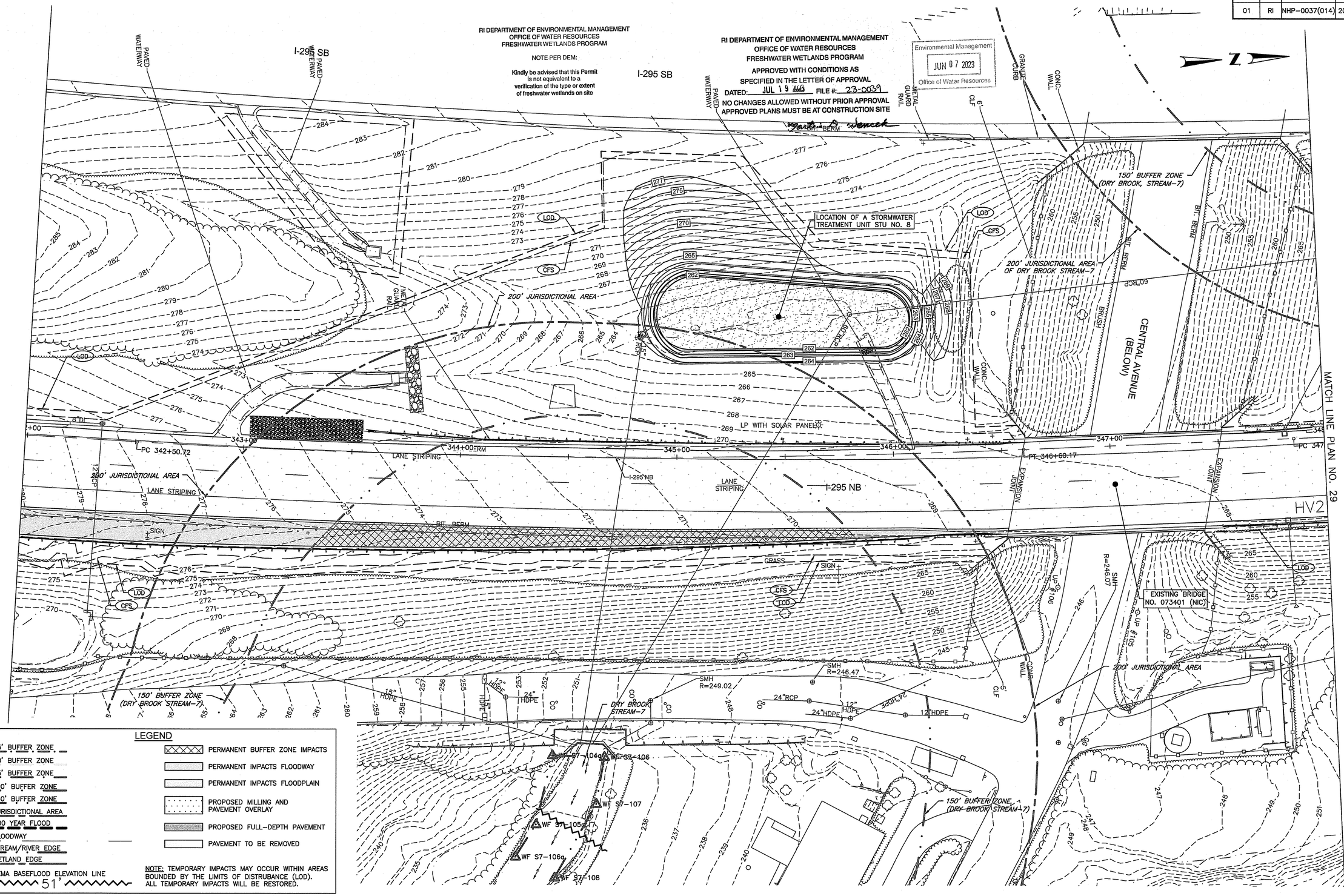
NOTE PER DEM:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Environmental Management
JUN 07 2023
Office of Water Resources



LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	28
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
VOLUME: 01
CRANSTON/JOHNSTON RHODE ISLAND

WETLAND IMPACT PLAN NO. 28

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
01	RI	NHP-0037(014)	2022	35	35

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wencer

Environmental Management
JUN 07 2023
Office of Water Resources

I-295 SB

MATCH LINE PLAN NO. 28

150' BUFFER ZONE OF DRY BROOK STREAM-7

200' JURISDICTIONAL AREA OF DRY BROOK, STREAM-7

100' JURISDICTIONAL AREA

25' BUFFER ZONE (WETLAND L)

WETLAND L

I-295 NB

LANE STRIPING

BIT. BERM

METAL GUARD RAIL

PAVED WATERWAY

RIPRAP

SWALE

BRUSH

GRASS

TREES

LOD

12"RCP

60"RCP

EHHO

SIGN

PCC 350+13.43

LEGEND

- 25' BUFFER ZONE
- 50' BUFFER ZONE
- 75' BUFFER ZONE
- 100' BUFFER ZONE
- 150' BUFFER ZONE
- JURISDICTIONAL AREA
- 100 YEAR FLOOD
- FLOODWAY
- STREAM/RIVER EDGE
- WETLAND EDGE
- FEMA BASEFLOOD ELEVATION LINE 51'

- PERMANENT BUFFER ZONE IMPACTS
- PERMANENT IMPACTS FLOODWAY
- PERMANENT IMPACTS FLOODPLAIN
- PROPOSED MILLING AND PAVEMENT OVERLAY
- PROPOSED FULL-DEPTH PAVEMENT
- PAVEMENT TO BE REMOVED

NOTE: TEMPORARY IMPACTS MAY OCCUR WITHIN AREAS BOUNDED BY THE LIMITS OF DISTRUBANCE (LOD). ALL TEMPORARY IMPACTS WILL BE RESTORED.

Aetna Bridge Company

AECOM

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	PJP
CHECKED BY:	JTS
DATE:	10/19/2022
SHEET:	29
OF:	30

SCALE: 1"=20'
GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

HIGHWAY
BRIDGE GROUP 51B: RT 37 C-3
CRANSTON/JOHNSTON VOLUME: 01 RHODE ISLAND

WETLAND IMPACT PLAN NO. 29

C:\PWWORKING\USRI\DMS02032\WETLANDPERMIT- (3).DWG PER DPM 450.06