

LIST OF VOLUMES

- VOLUME 01 - BRIDGE NO. 011001
- VOLUME 02 - BRIDGE NO. 011201
- VOLUME 03 - BRIDGE NO. 067001
- VOLUME 04 - BRIDGE NO. 067201
- VOLUME 05 - ROUTE 7 RETAINING WALL

STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

ROUTE 7, VICTORY HIGHWAY AND ROUTE 102

BRIDGE GROUP 17B: REHABILITATION & PRESERVATION OF
BRIDGE 110, 112, 670, 672 AND ROUTE 7 RETAINING WALL

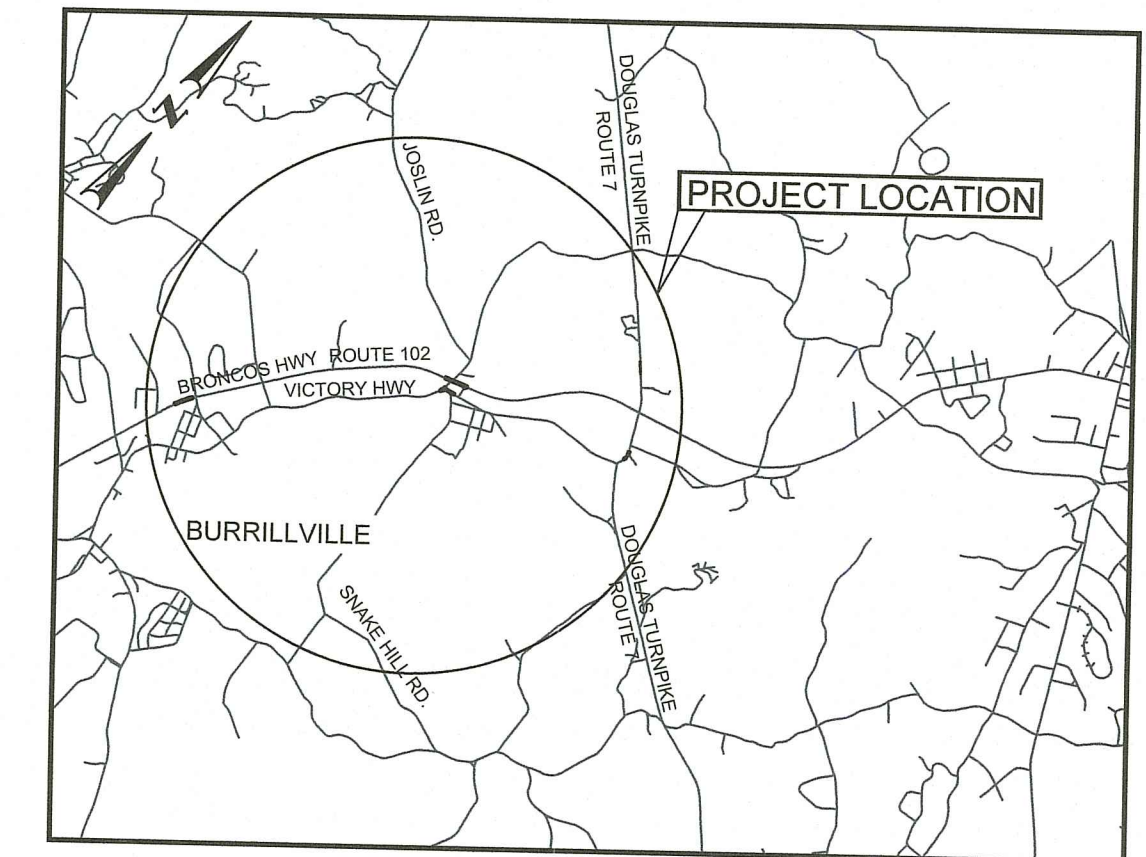
VOLUME 04: BRIDGE NO. 067201

TOWN OF BURRILLVILLE
COUNTY OF PROVIDENCE

R.I. CONTRACT NO. XXX
R.I. FAP NO. XXX

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XX-XXXX-XXX	2022	001	048

**RIDEM FWW PERMIT APPLICATION PLANS
REHABILITATION OF BRIDGE 672
SUBMISSION DATE: 09/13/2022**

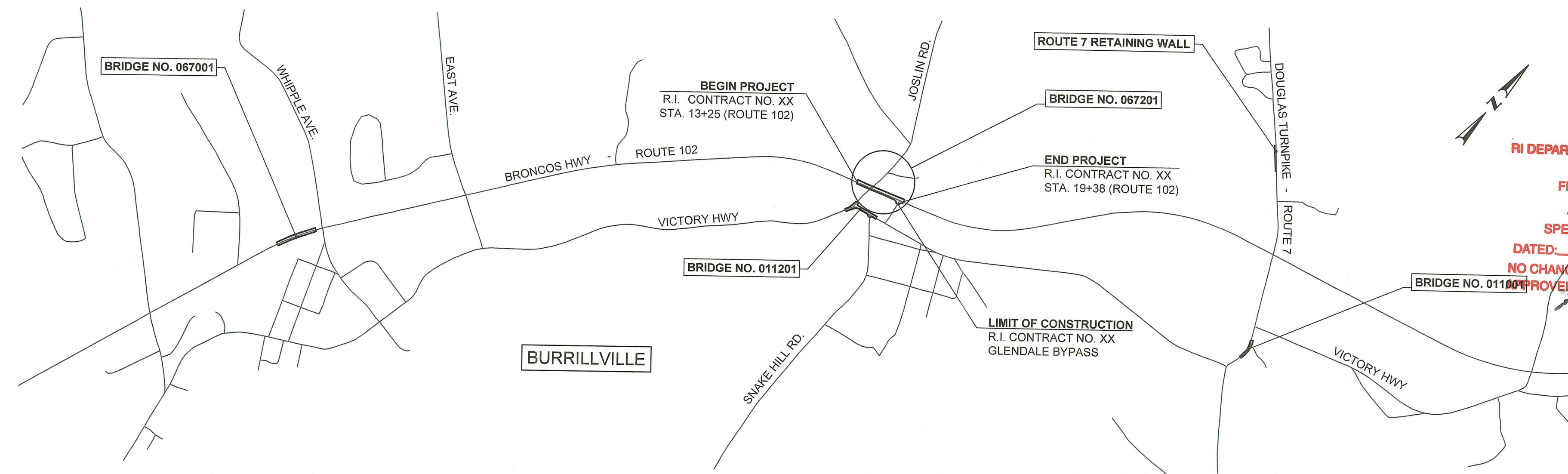


LOCATION MAP
1" = 5000'

DESIGN DESIGNATION

	ROUTE 7	VICTORY HWY	ROUTE 102
AADT (2020)	4,900	3,200	15,200
AADT (2055)	5,830	3,810	18,100
D	68%	72%	65%
K	11%	11%	9%
T	N/A	N/A	12%
DDHV	360	260	850
DHV	530	360	1,300
DESIGN SPEED	30 M.P.H.	25 M.P.H.	60 M.P.H.

Sheet Number	Sheet Title
001	COVER SHEET
002	STANDARD PLAN SYMBOLS & STANDARD LEGEND
003	STANDARD NOTES NO. 1
004	STANDARD NOTES NO. 2
005	JOB SPECIFIC NOTES AND LEGEND
006	KEY PLAN
007	TYPICAL SECTIONS NO. 1
008	TYPICAL SECTIONS NO. 2
009	MISCELLANEOUS DETAILS NO. 1
010	MISCELLANEOUS DETAILS NO. 2
011	MISCELLANEOUS DETAILS NO. 3
012	MISCELLANEOUS DETAILS NO. 4
013	MISCELLANEOUS DETAILS NO. 5
014	MISCELLANEOUS DETAILS NO. 6
015	MISCELLANEOUS DETAILS NO. 7
016	MISCELLANEOUS DETAILS NO. 8
017	MISCELLANEOUS DETAILS NO. 9
018	ALIGNMENT PLAN
019	GENERAL PLAN
N/A	LAND COVER & IMPACTS
020	PROFILE
021	DRAINAGE & UTILITIES DETAILS
022	MAINTENANCE & PROTECTION OF TRAFFIC PLAN NO. 1
023	MAINTENANCE & PROTECTION OF TRAFFIC PLAN NO. 2
024	MAINTENANCE & PROTECTION OF TRAFFIC PLAN NO. 3
025	MAINTENANCE & PROTECTION OF TRAFFIC PLAN DETAILS
026	SIGN & PAVEMENT MARKINGS
027	LEGEND & LIST OF ABBREVIATIONS
028	GENERAL NOTES SHEET 1 OF 4
029	GENERAL NOTES SHEET 2 OF 4
030	GENERAL NOTES SHEET 3 OF 4
031	GENERAL NOTES SHEET 4 OF 4
032	GENERAL BRIDGE PLAN
033	LONGITUDINAL SECTIONS
034	TRANSVERSE SECTIONS
035	DEMOLITION PLAN 1
036	DEMOLITION PLAN 2
037	BRIDGE CONSTRUCTION PLAN
038	BRIDGE CONSTRUCTION PHASING
039	WEST ABUTMENT PLAN & ELEVATION
040	EAST ABUTMENT PLAN & ELEVATION
041	PIER PLAN & ELEVATION
042	FRAMING PLAN
043	STEEL REPAIR DETAILS
044	BEARING DETAILS
045	DECK SLAB DETAILS
046	CONCRETE REHABILITATION DETAILS
047	END POST DETAILS
048	TL 4 SAFETY BARRIER DETAILS



LAYOUT PLAN
1" = 1000'

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.

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

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 26 2023 FILE # 22-0460
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



90% DESIGN
SEPTEMBER 2022

R.I. DEPARTMENT OF TRANSPORTATION

APPROVED _____ DATE _____

ADMINISTRATOR, PROJECT MANAGEMENT

APPROVED _____ DATE _____

CHIEF ENGINEER OF INFRASTRUCTURE

APPROVED _____ DATE _____

DIRECTOR

APPROVED _____ DATE _____

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____

DIVISION ADMINISTRATOR

NOT FOR CONSTRUCTION

Contract Number XXX
Number of Sheet 001
Total Sheets 048

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



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: J.W.K.
CHECKED BY: K.P.R.
DATE: 06/01/2022
SHEET: 001
OF: 048

NO.	DATE	BY	REVISIONS		
			NO.	DATE	BY

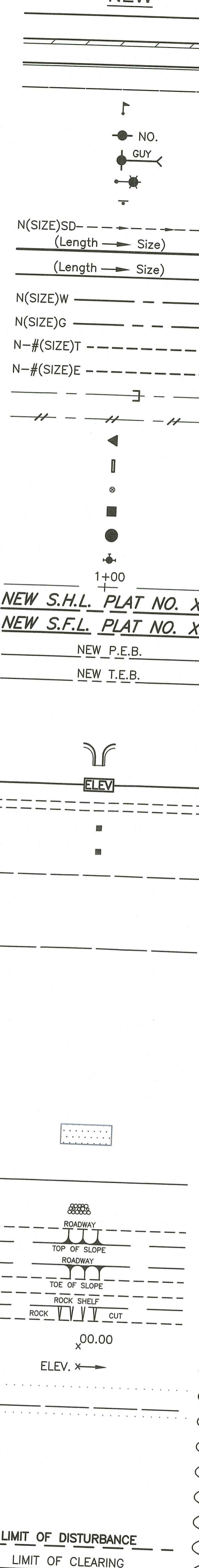
BRIDGE GROUP 17B
JOSLIN ROAD BRIDGE NO. 672
BURRILLVILLE CONTRACT: 00 VOLUME: 4 RHODE ISLAND

COVER SHEET

EXISTING

NEW

- EDGE OF PAVEMENT
BERM
CURB
GUARDRAIL
MAILBOX
UTILITY POLE
POLE GUY
LUMINARE
SIGN
SUBDRAIN
STORMDRAIN
SANITARY SEWER
WATER MAIN
GAS MAIN
TELEPHONE DUCT
ELECTRIC DUCT
PLUG AND CAP PIPE
ABANDONED UTILITY
FLARED END SECTION
HEADWALL
WATER OR GAS GATE
CATCH BASIN
MANHOLE
HYDRANT
BASELINE OR CENTERLINE
STATE HIGHWAY LINE
STATE FREEWAY LINE
PERMANENT EASEMENT LINE
TEMPORARY EASEMENT LINE
PROPERTY LINE
CITY OR TOWN LINE
PAVED WATERWAY
CONTOUR LINE
OPEN DITCH
R.I. HIGHWAY BOUND
STONE BOUND
RETAINING WALL
FIELD STONE WALL
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
CUT SLOPE
FILL SLOPE
ROCK CUT
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 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 SLOPED FACE)
7.3.0S GRANITE CURB (STRAIGHT)
7.3.0C GRANITE CURB (CIRCULAR)
7.3.1 3'-0" GRANITE TRANSITION CURB
7.3.2 6'-0" GRANITE TRANSITION CURB
7.3.3 GRANITE WHEELCHAIR RAMP TRANSITION CURB
7.3.4 GRANITE 2'-0" RADIUS CORNER
7.3.5 GRANITE INLET STONE (FOR SQUARE CATCH BASIN)
7.3.6 GRANITE INLET STONE (FOR ROUND CATCH BASIN)
7.3.7 GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
7.3.8 GRANITE APRON STONE (FOR ROUND CATCH BASIN)
7.4.0 GRANITE SLOPED FACE CURB
7.4.1 GRANITE SLOPED FACE TRANSITION CURB
7.4.2 GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
7.5.0 BITUMINOUS CONCRETE LIP CURB
7.5.1A BITUMINOUS BERM (CONSTRUCTION METHOD A)
7.5.1B BITUMINOUS BERM (CONSTRUCTION METHOD B)
7.6.0 CURB SETTING DETAIL
8.2.0 BITUMINOUS CONCRETE DITCH
8.3.0 RIP-RAP DITCH
8.4.0 PAVED WATERWAY
9.1.0 BALED HAY EROSION CHECK
9.2.0 SILT FENCE DETAIL
9.3.0 BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
9.4.0 BALED HAY DITCH AND SWALE EROSION CHECK
9.5.0 LOG AND HAY CHECK DAM
9.7.0 DEWATERING BASIN
9.8.0 BALED HAY CATCH BASIN INLET PROTECTION
9.9.0 CONSTRUCTION ACCESS
10.1.0 WET STONE MASONRY RETAINING WALL
10.2.0 RUBBLE MASONRY WALL
10.3.0 CONCRETE RETAINING WALL
10.4.0 STONE MASONRY STEPS
14.1.0 CONCRETE HIGHWAY BOUND
15.1.0 POST AND MOUNTINGS FOR RURAL MAILBOX
15.2.0 (NO.) POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
18.2.0 PRECAST TYPE "A" HANDHOLE
18.2.2 HEAVY DUTY TYPE "H" HANDHOLE
18.3.0 ALUMINUM LIGHTING STANDARDS
20.2.0 BI-DIRECTIONAL CONTROL DEVICE
24.6.1 STREET SIGN MOUNTING DETAIL
26.2.0 POLYETHYLENE DRUM WITH MARKINGS
26.3.0 PVC PLASTIC PIPE TYPE III BARRICADE
31.1.0 CHAIN LINK FENCE 3'-0" TO 4'-0"
31.2.0 CHAIN LINK FENCE 5'-0" TO 6'-0"
31.2.1 CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
31.3.0 WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)
34.1.0 TYPICAL GUARDRAIL INSTALLATION
34.2.0 STEEL BEAM GUARDRAIL
34.2.1 STEEL BEAM GUARDRAIL DETAILS
34.2.2 STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
34.2.3 STEEL BEAM GUARDRAIL FIXTURES
34.2.5 STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
34.3.1 GUARDRAIL END SECTION
34.3.2 TERMINAL END SECTION (SINGLE FACE)
34.3.3 ANCHORAGE DETAILS APPROACH END SECTION
34.3.4 ANCHORAGE DETAILS TRAILING END SECTION
34.4.0 STEEL BACKED TIMBER GUARDRAIL
34.4.1 STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
40.1.0 DOUBLE-FACED PRECAST MEDIAN BARRIER
40.2.0 SINGLE-FACED PRECAST MEDIAN BARRIER
40.2.1 SINGLE-FACED PRECAST MEDIAN BARRIER
40.3.0 PRECAST MEDIAN BARRIER TRANSITION UNIT
40.5.0 PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
43.1.0 CEMENT CONCRETE SIDEWALK
43.2.0 BITUMINOUS CONCRETE SIDEWALK
43.3.0 WHEELCHAIR RAMP
43.3.1 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
43.4.0 DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
43.4.1 DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
43.5.0 CEMENT CONCRETE DRIVEWAYS
48.1.0 DETECTABLE WARNING SYSTEM
51.1.0 TREE PROTECTION DEVICE
51.1.1 DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
51.2.0 SHRUB PROTECTION DEVICE
51.3.0 TREE WELL
51.4.0 TREE WALL

- AB ADJUST CATCH BASIN TO GRADE
ABM ADJUST CATCH BASIN TO MANHOLE
AC ADJUST CURB STOP TO GRADE
AD ADJUST DRAINAGE MANHOLE TO GRADE
AE ADJUST ELECTRIC MANHOLE TO GRADE
AFC ADJUST FRAME AND COVER TO GRADE
AFG ADJUST FRAME AND GRATE TO GRADE
AG ADJUST GAS GATE BOX TO GRADE
AHH ADJUST HANDHOLE TO GRADE
AS ADJUST SANITARY SEWER MANHOLE TO GRADE
AT ADJUST TELEPHONE MANHOLE TO GRADE
AW ADJUST WATER GATE BOX TO GRADE
BCD BITUMINOUS CONCRETE DRIVEWAY
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
NWSB FURNISH AND INSTALL NEW WATER CURB STOP BOX
PCD FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
PS PERMANENT CHECK DAM
RCB 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
RRR 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
TBT TIE NEW PIPE INTO EXISTING STRUCTURE
TBBC THRIE BEAM TRANSITION
TTB 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

Table with columns: FED. ROAD DIV. NO., STATE, FEDERAL AID PROJECT NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Values: 00, RI, XX-XXXX-XXX, 2022, 002, 048.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 28 2023 FILE #: 22-0460
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
SEP 20 2022
Office of Water Resources



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

Table with columns: DESIGNED BY, CHECKED BY, DATE, SHEET, OF. Values: J.W.K., K.P.R., 06/01/2022, 002, 048.

Table with columns: BRIDGE GROUP 17B, JOSLIN ROAD BRIDGE NO. 672, CONTRACT: 00 VOLUME: 4, STANDARD PLAN SYMBOLS & STANDARD LEGEND.

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XX-XXXX-XXX	2022	003	048

3- 17

GENERAL NOTES:

- 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.
- 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.
- 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.
- ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
- THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANNED 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."
- 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.
- UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- 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.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
- THE COORDINATE SYSTEM IS THE R.I. STANDARD GRID SYSTEM, NAD 83. THE VERTICAL CONTROL IS NGVD 29.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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).
- 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).
- 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.
- 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:

- 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 RIDPES 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).
- 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.
- 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.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
- 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.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
 - SEEDING TYPE I.
 - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- 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.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSIONED 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.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM.
 - ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
 - NO HEAVY EQUIPMENT MAY ENCRONCH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
- 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 OUTFALL 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 OUTFALL SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- 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.
- 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):

- 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.
- 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.
- 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.
- 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.
- 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.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- 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:

- 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.
- 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.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 26 2022 FILE # 22-0460
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

[Signature]



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	J.W.K.
CHECKED BY:	K.P.R.
DATE:	06/01/2022
SHEET:	003
OF:	048

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 CONTRACT: 00 VOLUME: 4
 BURLINGHAM RHODE ISLAND

STANDARD NOTES NO. 1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XX-XXXX-XXX	2022	004	048

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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.

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
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 DATED: JAN 26 2023 FILE #: 22-0460
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Justin S. Almond

Environmental Management
 SEP 20 2022
 Office of Water Resources



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: J.W.K.
 CHECKED BY: K.P.R.
 DATE: 06/01/2022
 SHEET: 004
 OF: 048

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BARRILLVILLE CONTRACT: 00 VOLUME: 4 RHODE ISLAND
 STANDARD NOTES NO. 2

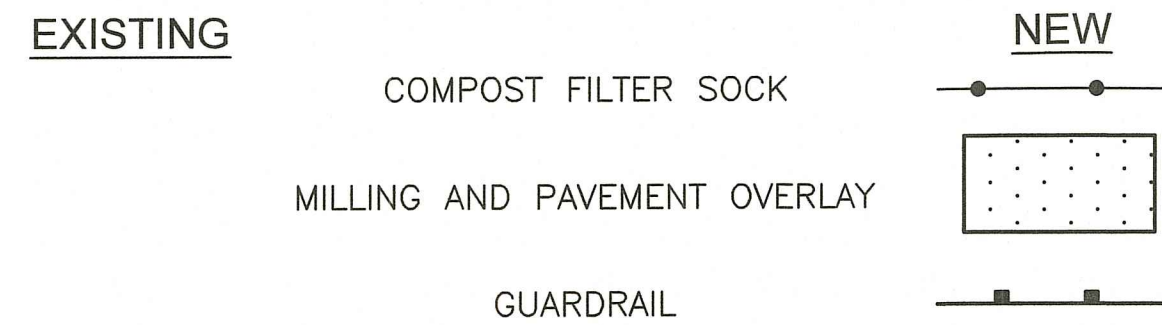
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XX-XXXX-XXX	2022	005	048

S - 17

JOB SPECIFIC LEGEND (HIGHWAY)

- (CFS) COMPOST FILTER SOCK 12" DIAMETER
- (ECB) EROSION CONTROL BLANKET
- (ISCD) INLET SEDIMENT CONTROL DEVICE
- (STU) STORMWATER TREATMENT UNIT
- (CBMH) CONVERT CATCH BASIN TO BYPASS MANHOLE WITH WEIR
- (RCC) RECONSTRUCT CORBEL CONES
- (RVW) RECONSTRUCT VERTICAL WALLS
- (ETEA) GUARDRAIL END TREATMENT - ENERGY ABSORBING TERMINAL (MASH)
- (TBTP) STEEL BEAM GUARDRAIL THRIE BEAM TRANSITION PANEL
- (MSBG) MASH COMPLIANT STEEL BEAM GUARDRAIL, TL-3
- (SBGC) STEAL BEAM GUARDRAIL CONNECTION TO NEW END POST
- (MTEG) MASH GUARDRAIL TRANSITION TO EXISTING GUARDRAIL
- (MO-1) MILLING AND PAVEMENT OVERLAY
2" PAVEMENT MILLING
2" MODIFIED CLASS 12.5 HMA SURFACE COURSE
- (P-1) FULL DEPTH PAVEMENT
2" MODIFIED CLASS 12.5 HMA SURFACE COURSE
7" CLASS 19.0 HMA (TWO-3.5" LIFTS) MEET EXISTING DEPTH
12" GRAVEL BORROW SUBBASE
- (P-2) FULL DEPTH PAVEMENT - BRIDGE DECK
3" MODIFIED CLASS 9.5 HMA
- (PMM) PAVEMENT MILLINGS MULCH
- (PT-1) PAVEMENT TRANSITION - EXISTING PAVEMENT TO MILL AND OVERLAY (SEE MISC. DETAIL SHEET NO. 1)
- (PT-2) PAVEMENT TRANSITION - MILL AND OVERLAY TO FULL DEPTH (SEE MISC. DETAIL SHEET NO. 1)
- (PT-3) PAVEMENT TRANSITION - FULL DEPTH TO BRIDGE APPROACH SLAB (SEE MISC. DETAIL SHEET NO. 1)
- (SC-1) FULL DEPTH SAWCUT OF BITUMINOUS CONCRETE
- (SC-2) SAWCUT AND MATCH EXISTING
- (DGC) REMOVE AND DISPOSE GRANITE CURB

JOB SPECIFIC PLAN SYMBOLS



JOB SPECIFIC LEGEND (TRAFFIC)

- (MFRS) MICRO MILLING AND FILL RUMBLE STRIP WITH CLASS 9.5 HOT MIX ASPHALT
- (SABM) SHOCK ABSORBING BARRIER MODULES
- (TD4Y) 4" YELLOW FAST DRYING WATERBORNE PAVEMENT MARKING - DOUBLE SOLID
- (TD4YS) 4" WHITE FAST DRYING WATERBORNE PAVEMENT MARKING - DOUBLE 2' DASH/4' SKIP
- (T6WS) 6" WHITE FAST DRYING WATERBORNE PAVEMENT MARKING - 2' DASH/4' SKIP
- (T6W) 6" WHITE FAST DRYING WATERBORNE PAVEMENT MARKING
- (TBL3) TEMPORARY BARRIER (TL-3)
- (TBL3A) TEMPORARY BARRIER (TL-3) - ANCHORED
- (TBL4) TEMPORARY BARRIER (TL-4)
- (TBL4A) TEMPORARY BARRIER (TL-4) - ANCHORED
- (20.1.0) PAVEMENT MARKINGS, ARROWS AND ONLY

JOB SPECIFIC GENERAL NOTES

1. ALL ITEMS NOT REFERENCED FOR MODIFICATION ON THE PLANS OR IN THE CONTRACT DOCUMENTS WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL REMOVE MATERIAL BELOW THE EXISTING SIDEWALKS AND PLACE NEW GRAVEL BORROW TO THE DEPTHS SHOWN ON R.I. STD. 43.1.0.
3. ALL EQUIPMENT AND MATERIALS SHALL BE PLACED AN ADEQUATE DISTANCE (AS DETERMINED BY THE ENGINEER) FROM THE ROADWAY TO AVOID INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC.
4. THE CONTRACTOR 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 FINAL LOCATION OF ALL CURB RAMPS SHALL BE COORDINATED IN THE FIELD WITH PROPOSED AND/OR EXISTING LOCATIONS OF DRAINAGE STRUCTURES, UTILITY POLES, LIGHT POLES, AND OTHER APPURTENANCES TO ENSURE A MINIMUM 36" CLEAR PEDESTRIAN PATH.
6. THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE ANY EXISTING VEGETATION WHICH OVERHANGS OR IS ADJACENT TO THE CONSTRUCTION ZONE. ANY DAMAGE THAT IS CAUSED BY THE CONTRACTOR'S NEGLIGENCE WILL BE FIXED AT HIS OWN EXPENSE.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING FRESHLY PLACED CONCRETE SIDEWALKS AND DRIVEWAYS FROM DAMAGE UNTIL THE CONCRETE HAS CURED SUFFICIENTLY. COSTS TO REPLACE DAMAGE TO FRESHLY PLACED CONCRETE WILL BE THE CONTRACTORS RESPONSIBILITY.
8. THE COST OF ANY CURB CUTTING REQUIRED TO INSTALL NEW CURB WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE NEW CURB.
9. ANY BRICK SIDEWALK OR ROADWAY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST. THE COST SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR THE ASSOCIATED WORK ITEM CAUSING THE DAMAGE. ANY BRICK SIDEWALKS DAMAGED, SHALL MATCH THE SAME BRICK THAT EXIST INCLUDING CONCRETE BASE, UNLESS OTHERWISE INDICATED ON THE PLANS.
10. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE.
11. THE EXISTING CURB TO BE REMOVED AND RESET UNDER ITEM CODE 906.0700 "REMOVE, HANDLE, HAUL, TRIM AND RESET CURB - EDGING, STRAIGHT, CIRCULAR, ALL TYPES" (RHH) MAY BE LARGE AND IRREGULAR IN SHAPE. THE ASSOCIATED BID PRICE SHALL INCLUDE THE COMPLETE REMOVAL AND RESETTING OF THE CURB REGARDLESS OF THE SIZE AND SHAPE, INCLUDING ANY CURB CUTTING REQUIRED.
12. THE CONTRACTOR SHALL NOTIFY IN WRITING ALL PROPERTY OWNERS ABUTTING THE SIDEWALK WORK 48 HOURS PRIOR TO COMMENCING WORK.
13. THE TRANSITION STONE CUTTING AND RAMP CURB ARE INCLUDED IN THE UNIT PRICE OF THE CURB.
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 LOAM AND SEED.
16. EXISTING BITUMINOUS LEAKOFFS SHALL BE REPLACED IN-KIND OR AS DIRECTED BY THE ENGINEER.

JOB SPECIFIC PAVEMENT MARKING NOTES

1. ALL PAVEMENT MARKINGS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. TRAVEL LANE SKIP STRIPING LINES SHALL CONSIST OF LINES AND SPACE AS SHOWN ON PLANS.
3. FINAL PAVEMENT MARKINGS SHALL BE WHITE AND YELLOW EPOXY RESIN.
4. SEE GENERAL PROVISIONS - CONTRACT SPECIFIC DOCUMENTS FOR SPECIAL REQUIREMENTS FOR PAVEMENT MARKINGS.
5. THE PERMANENT EPOXY RESIN PAVEMENT MARKINGS FOR THIS PROJECT SHALL BE PERFORMED BY RIDOT'S STATEWIDE STRIPING CONTRACTOR.

JOB SPECIFIC 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, SANITARY, CABLE TELEVISION, ETC.) ARE SHOWN. CONTRACTOR IS TO ASSUME THAT OTHER SERVICES ARE PRESENT TO ALL BUILDINGS. LOCATIONS OF THE SERVICES WILL BE CHECKED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANIES.
2. ALL EXISTING MANHOLES, CATCH BASINS, ROADWAY BOXES, AND SIDEWALK CURB STOPS FOR ALL UTILITIES WITHIN THE PROJECT WORK LIMITS SHALL BE ADJUSTED TO GRADE AS REQUIRED EXCEPT WHERE REPLACEMENT OR RECONSTRUCTION IS CALLED FOR ON THE PLANS, IN THE CONTRACT DOCUMENTS, OR DIRECTED BY THE ENGINEER.
3. 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. THERE WILL BE NO SEPARATE PAY ITEM FOR THIS WORK, IT SHALL BE CONSIDERED INCIDENTAL TO PAVING OPERATIONS.
4. ONLY NON-MECHANICAL MEANS OF EXCAVATION SHALL BE USED IN AREAS ADJACENT TO UNDERGROUND UTILITIES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

JOB SPECIFIC EROSION CONTROL NOTES

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

JOB SPECIFIC LIGHTING NOTES

1. ALL EXISTING HIGHWAY LUMINAIRES SHALL BE UPGRADED TO LED, MEETING CURRENT STATE REQUIREMENTS.
2. THE 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 LUMINAIRES 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. 066201 AND BRIDGE NO. 062101. 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, 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 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 26 2023 FILE #: 22-0460
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: J.W.K.
CHECKED BY: K.P.R.
DATE: 06/01/2022
SHEET: 005
OF: 048

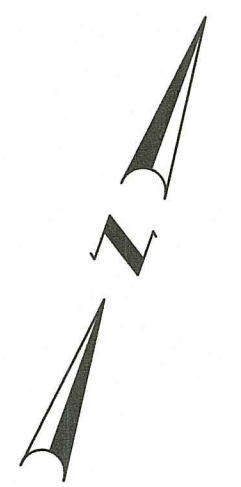
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

BRIDGE GROUP 17B
JOSLIN ROAD BRIDGE NO. 672
BURLINGHAM CONTRACT: 00 VOLUME: 4 RHODE ISLAND

JOB SPECIFIC NOTES AND LEGEND

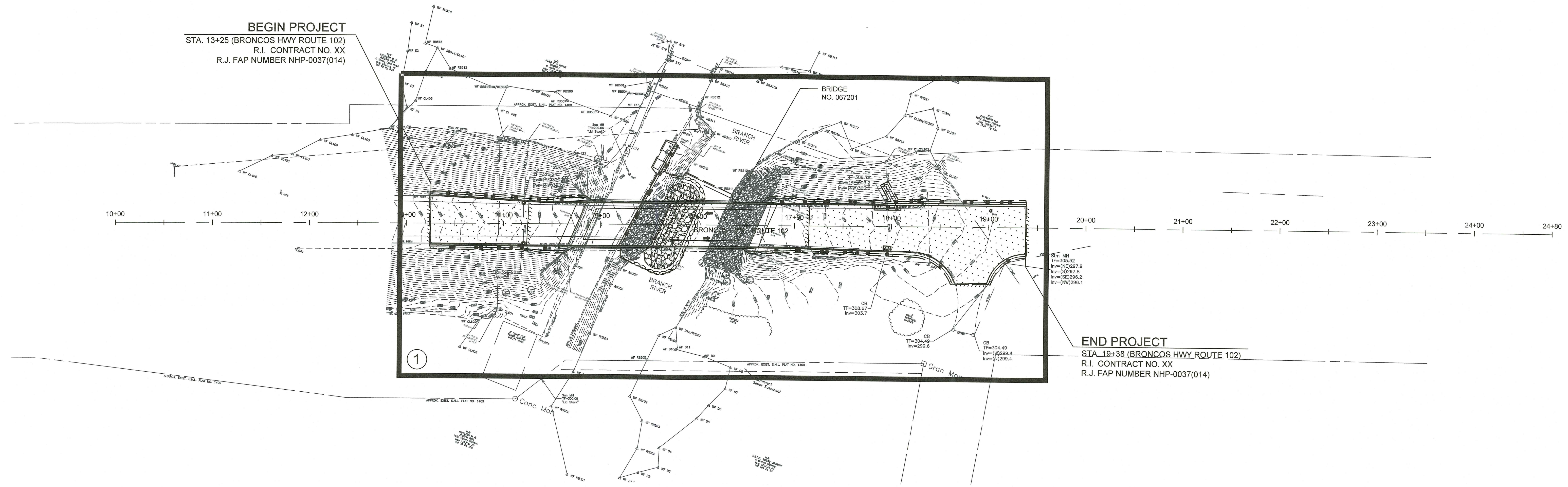
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XX-XXXX-XXX	2022	006	.048

6-17



BEGIN PROJECT
 STA. 13+25 (BRONCOS HWY ROUTE 102)
 R.I. CONTRACT NO. XX
 R.J. FAP NUMBER NHP-0037(014)

END PROJECT
 STA. 19+38 (BRONCOS HWY ROUTE 102)
 R.I. CONTRACT NO. XX
 R.J. FAP NUMBER NHP-0037(014)



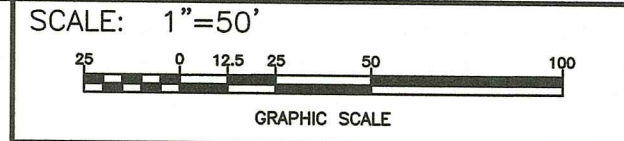
KEY LEGEND:

- ① - HIGHWAY GENERAL PLAN

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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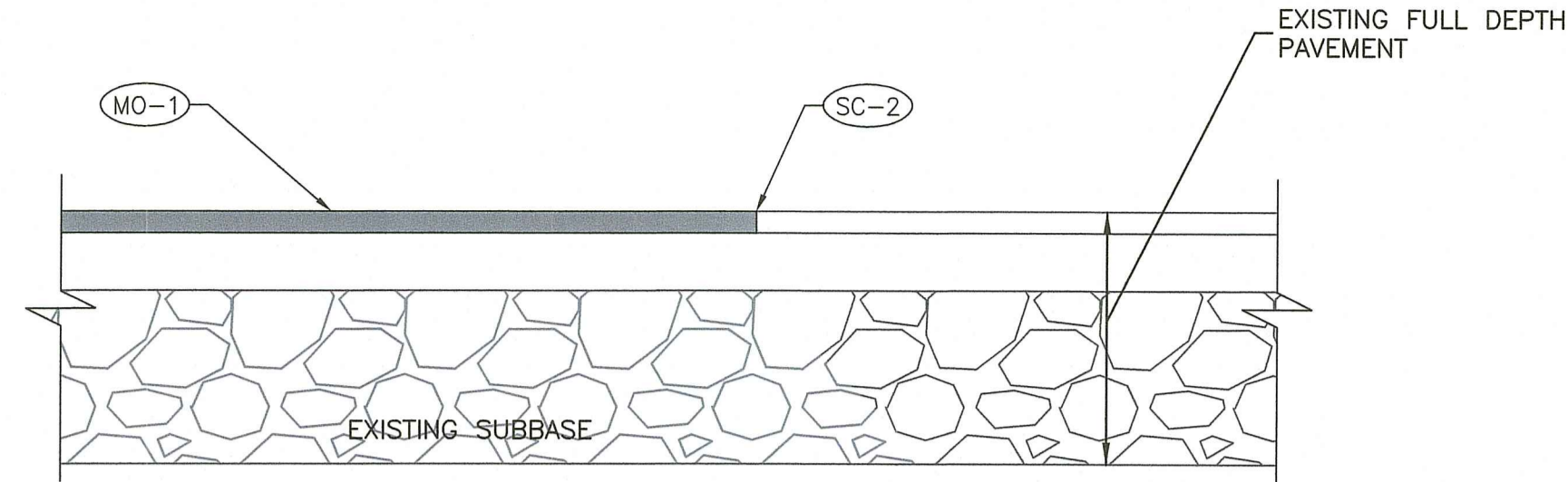


DESIGNED BY:	J.W.K.
CHECKED BY:	K.P.R.
DATE:	06/01/2022
SHEET:	006
OF:	048

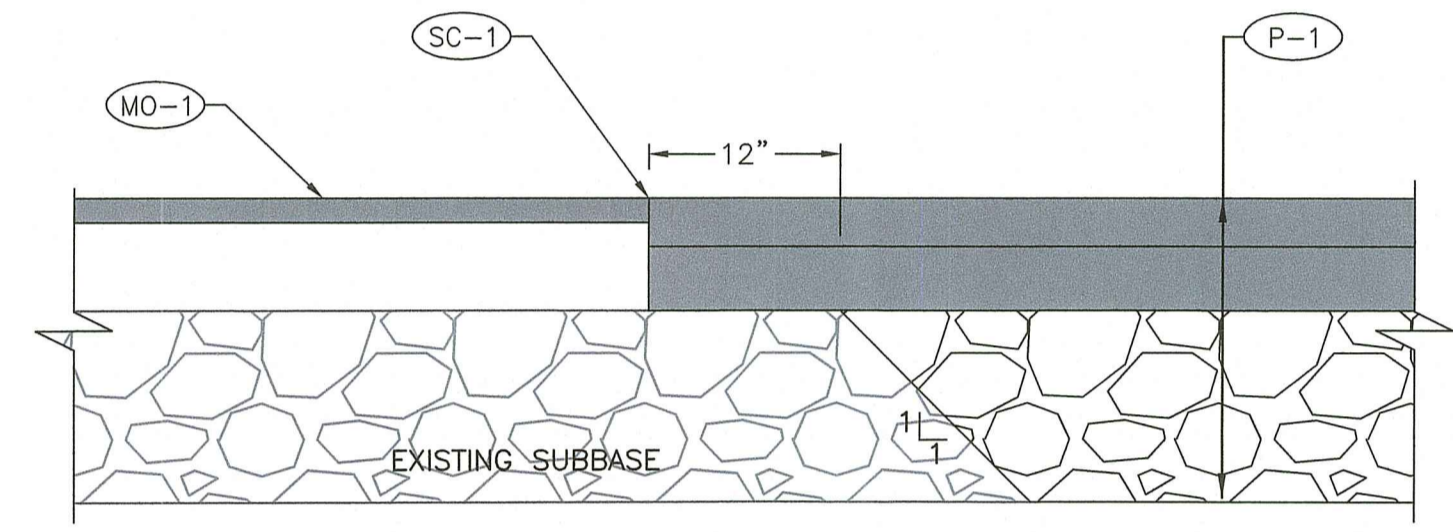


BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BURRILLVILLE CONTRACT: 00 VOLUME: 4 RHODE ISLAND

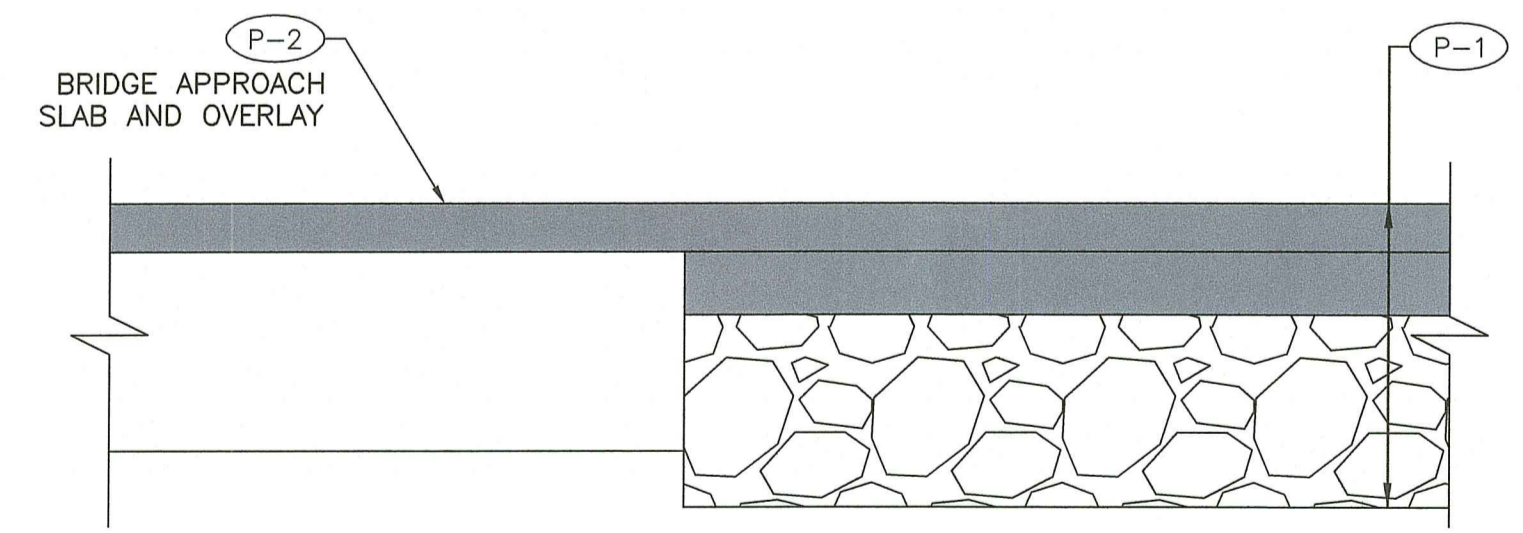
KEY PLAN



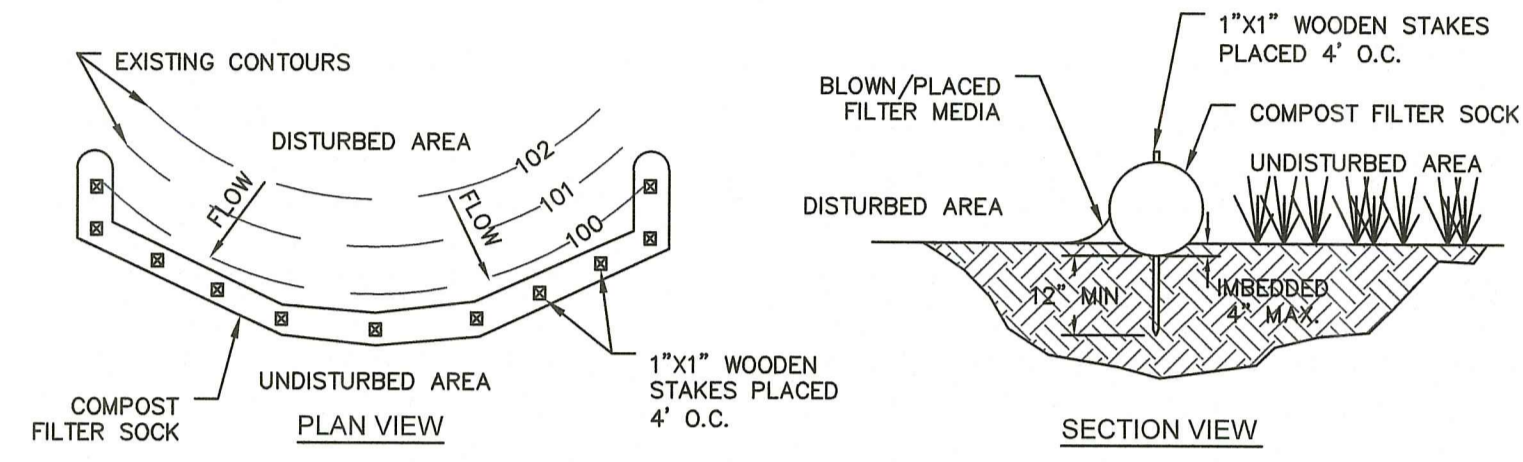
PAVEMENT TRANSITION - EXISTING PAVEMENT TO MILL AND OVERLAY (PT-1)
NOT TO SCALE



PAVEMENT TRANSITION - MILL AND OVERLAY TO FULL DEPTH (PT-2)
NOT TO SCALE

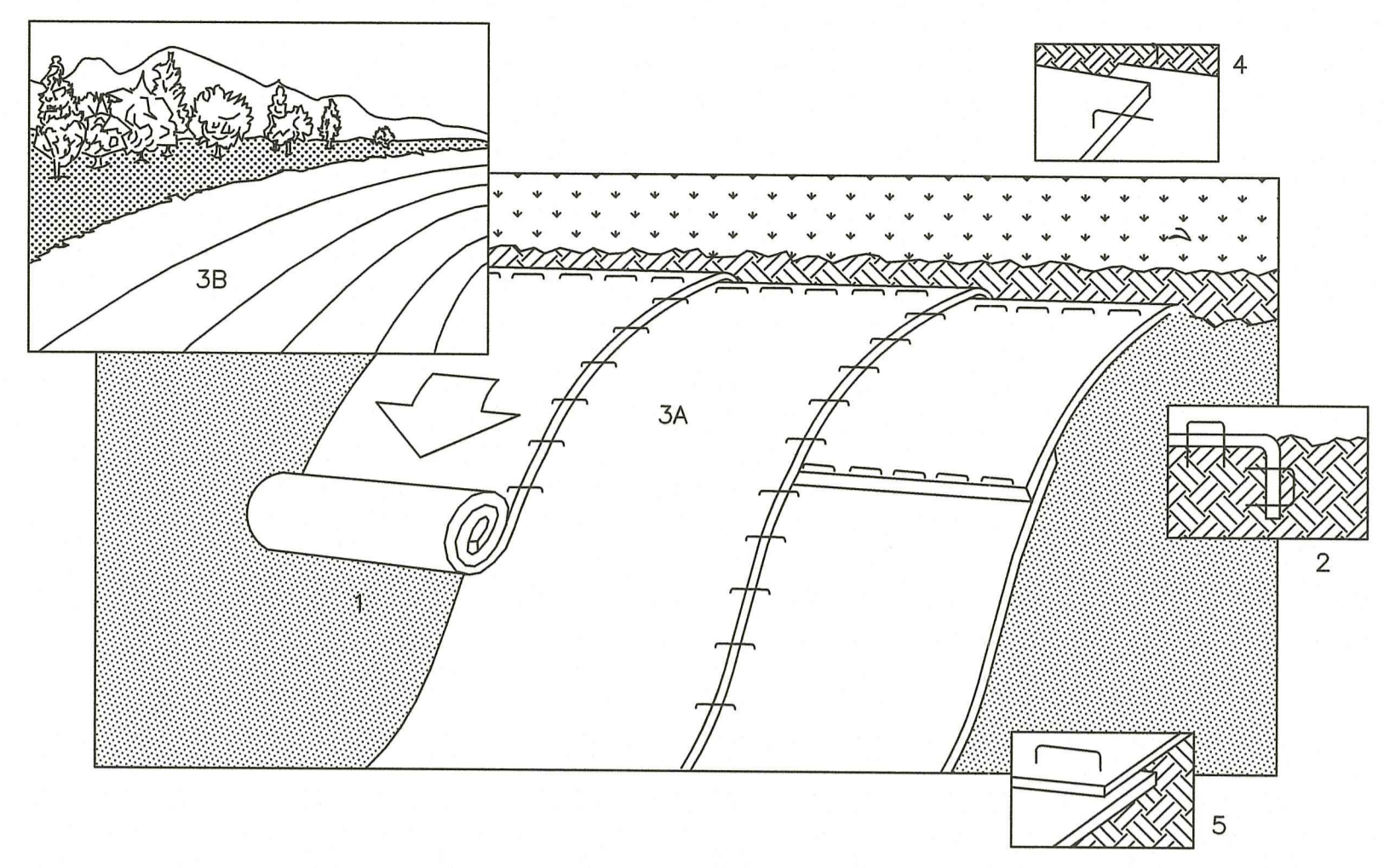


PAVEMENT TRANSITION - FULL DEPTH TO BRIDGE APPROACH SLAB (PT-3)
NOT TO SCALE



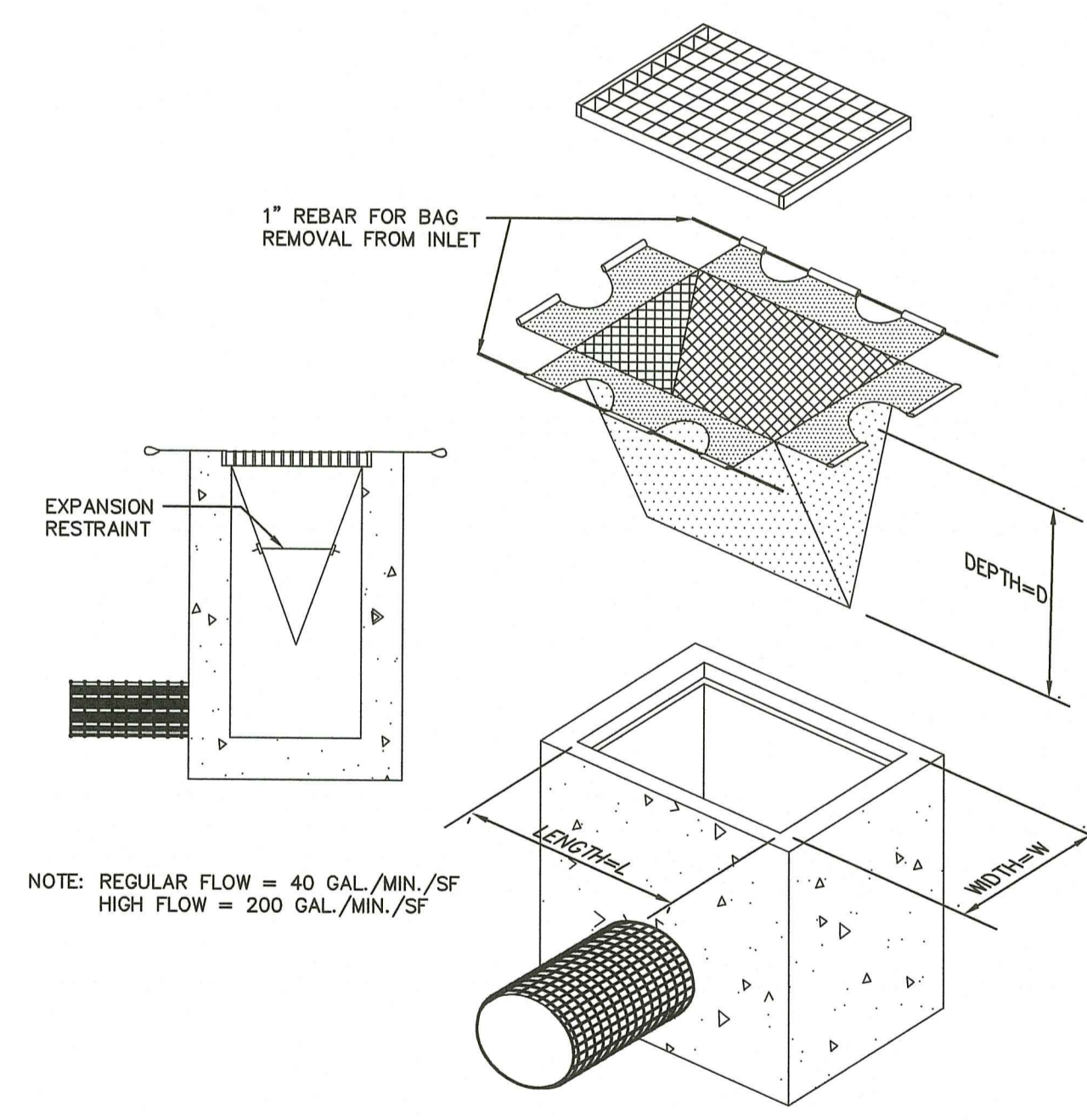
- NOTES:**
1. FILTER SOCKS SHALL BE INSTALLED WHERE INDICATED ON THE GENERAL PLANS AND SHALL BE CONSTRUCTED OF 100% BIODEGRADABLE MATERIAL. A ROW OF FILTER SOCKS (WEIGHTED DOWN AND NOT STAKED) SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS UTILIZED BY THE CONTRACTOR DURING CONSTRUCTION.
 2. 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 ROLL. COMPACT SOIL EXCAVATED TO CREATE A TRENCH ON THE 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 AND NO VEHICLES SHALL BE DRIVEN OVER FILTER SOCKS.

COMPOST FILTER SOCK (CFS)
NOT TO SCALE



- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

EROSION CONTROL BLANKET (ECB)
NOT TO SCALE



- NOTES:**
1. MEASURE CATCH BASIN DIMENSIONS AND PROVIDE APPROPRIATELY-SIZED DEVICES PER MANUFACTURER'S REQUIREMENTS.
 2. INSTALL INLET SEDIMENT CONTROL DEVICE IN CATCH BASIN BEFORE COMMENCING ANY ROADWORK.
 3. GRATE TO BE PLACED OVER INLET SEDIMENT CONTROL DEVICE.
 4. INLET SEDIMENT CONTROL DEVICE 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 (ISCD)
NOT TO SCALE

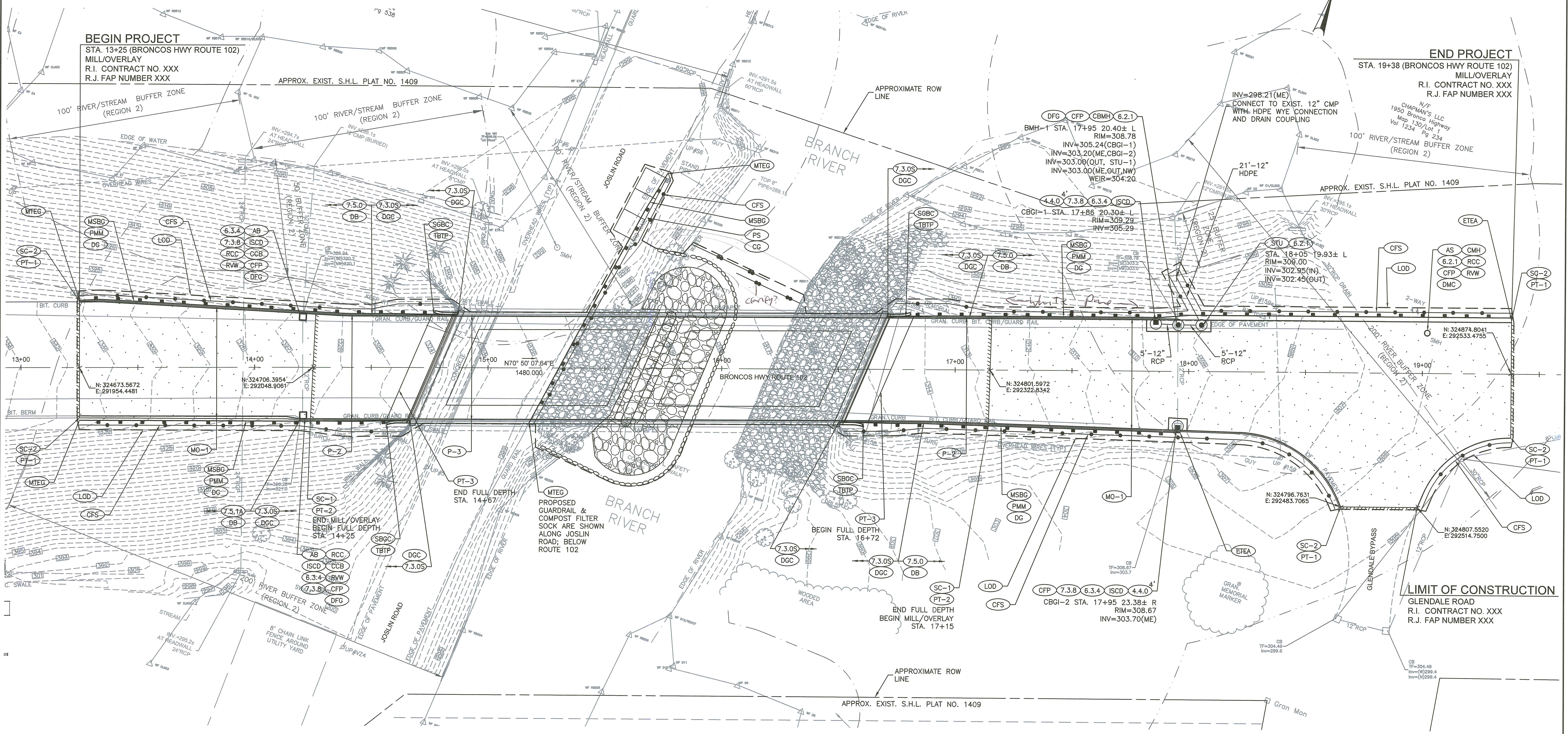
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 26 2022 FILE # 22-0460
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Environmental Management
SEP 20 2022
Office of Water Resources



DESIGNED BY:	J.W.K.
CHECKED BY:	K.P.R.
DATE:	06/01/2022
SHEET:	009
OF:	048

BRIDGE GROUP 17B
JOSLIN ROAD BRIDGE NO. 672
Burrillville CONTRACT: 00 VOLUME: 4 RHODE ISLAND
MISCELLANEOUS DETAILS NO. 1



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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Environmental Management
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Office of Water Resources

BL
ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
Companies

RI DOT
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: J.W.K.
CHECKED BY: K.P.R.
DATE: 06/01/2022
SHEET: 019
OF: 048

SCALE: 1"=20'
GRAPHIC SCALE

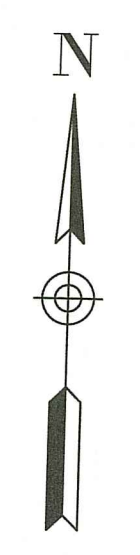
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NO.	DATE	NO.	DATE

BRIDGE GROUP 17B
JOSLIN ROAD BRIDGE NO. 672
CONTRACT: 00 VOLUME: 4
RHODE ISLAND

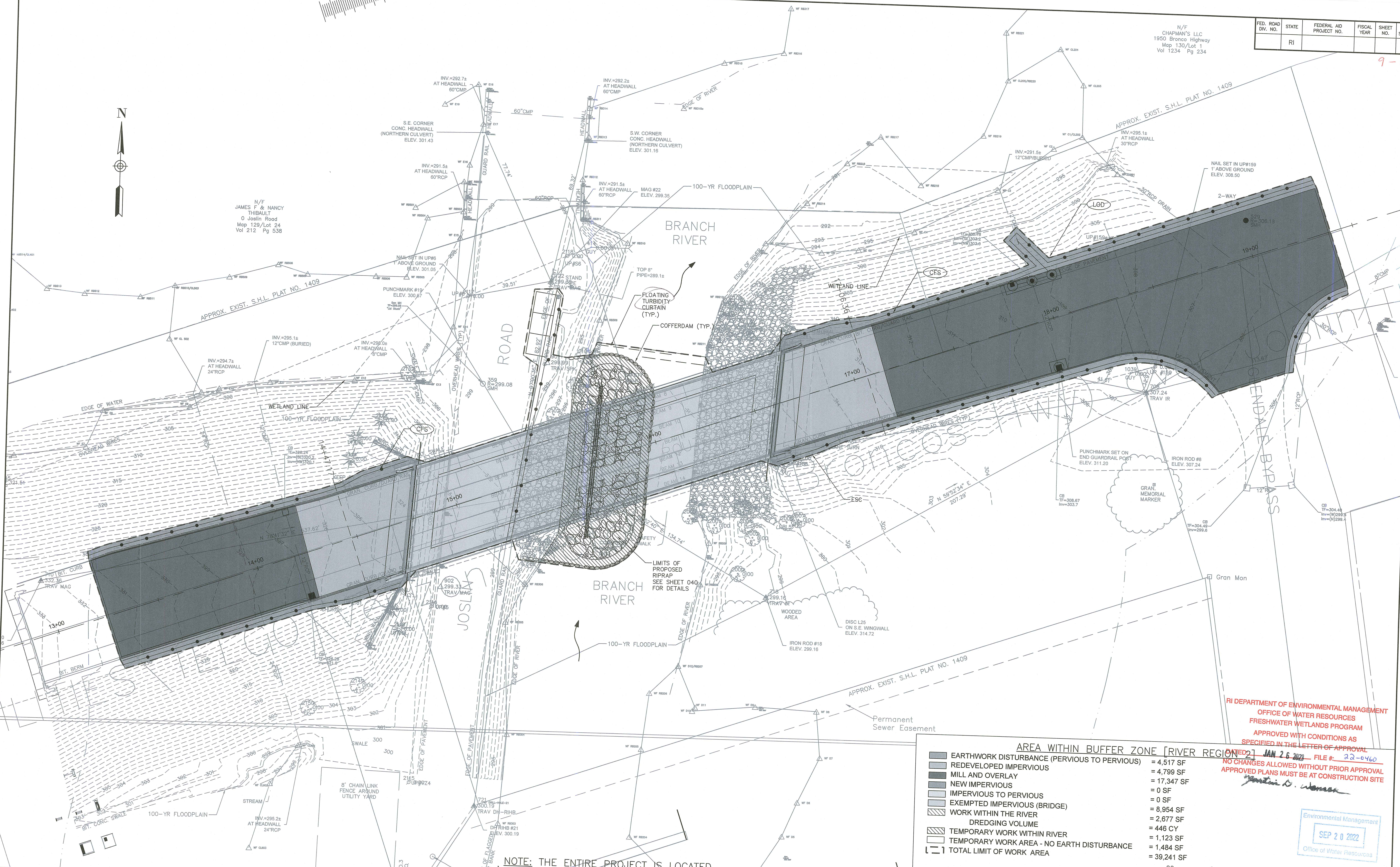
GENERAL PLAN

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			9-17	

N/F
CHAPMAN'S LLC
1950 Bronco Highway
Map 130/Lot 1
Vol 1234 Pg 234



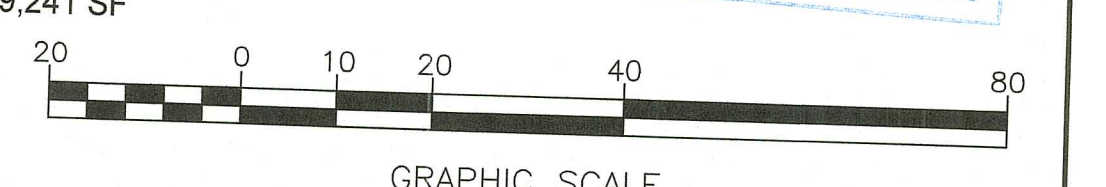
N/F
JAMES F & NANCY
THIBAUT
0 Joslin Road
Map 129/Lot 24
Vol 212 Pg 538



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FRESHWATER WETLANDS PROGRAM
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DATED 21 JAN 26 2022 FILE # 22-0460
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AREA WITHIN BUFFER ZONE [RIVER REGION]

EARTHWORK DISTURBANCE (PERVIOUS TO PERVIOUS)	= 4,517 SF
REDEVELOPED IMPERVIOUS	= 4,799 SF
MILL AND OVERLAY	= 17,347 SF
NEW IMPERVIOUS	= 0 SF
IMPERVIOUS TO PERVIOUS	= 0 SF
EXEMPTED IMPERVIOUS (BRIDGE)	= 8,954 SF
WORK WITHIN THE RIVER	= 2,677 SF
DREDGING VOLUME	= 446 CY
TEMPORARY WORK WITHIN RIVER	= 1,123 SF
TEMPORARY WORK AREA - NO EARTH DISTURBANCE	= 1,484 SF
TOTAL LIMIT OF WORK AREA	= 39,241 SF



NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN BUFFER ZONES [RIVER REGION 2]

DESIGNED BY: DSGNBY
CHECKED BY: CHKBY
DATE: DATE
SHEET: PAGE
OF: TOTAL

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PTS 2601R - BRIDGE GROUP 17B - BURRILLVILLE, RI
JOSLIN ROAD BRIDGE # 672
BRONCO HIGHWAY (ROUTE 102) OVER BRANCH RIVER
RHODE ISLAND

LAND COVER & IMPACTS PLAN

Environmental Management
SEP 20 2022
Office of Water Resources

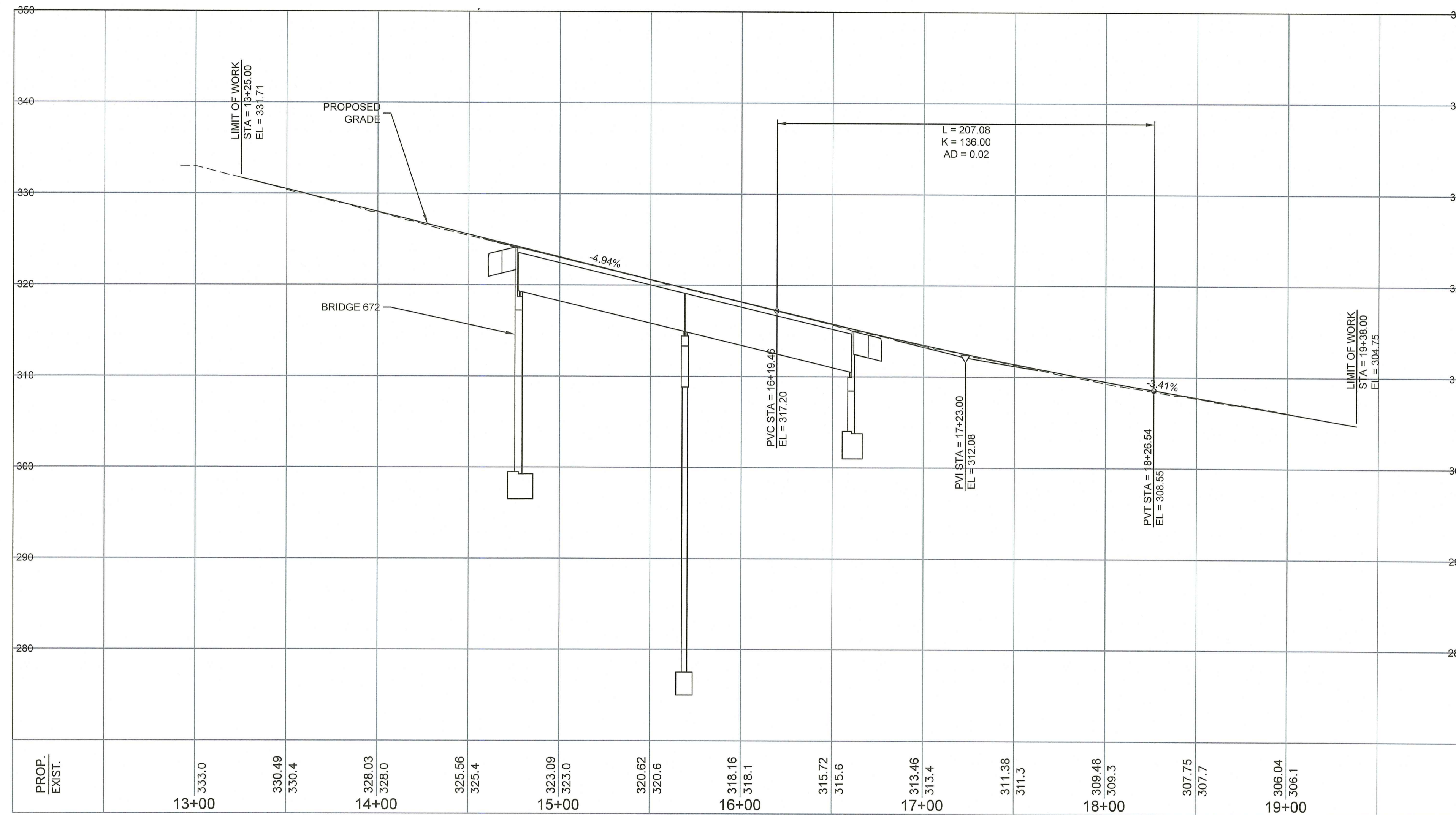
NOTES

1. THE MINIMUM DESIGN RATE OF VERTICAL CURVATURE (K) WAS TAKEN FROM THE AASHTO 2018, 7TH EDITION HIGHWAY AND STREET DESIGN "GREEN BOOK" WITH AN ASSUMED DESIGN SPEED OF 60 MPH. THE FOLLOWING MINIMUM ALLOWANCES WERE MADE THROUGHOUT DESIGN:

- CREST VERTICAL CURVE = 151
- SAG VERTICAL CURVE = 138

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XX-XXXX-XXX	2022	020	048

10-17

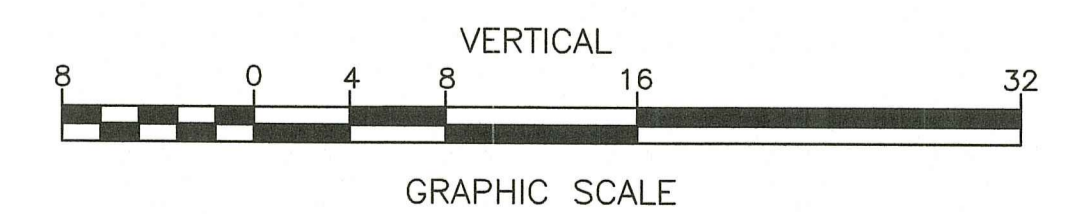
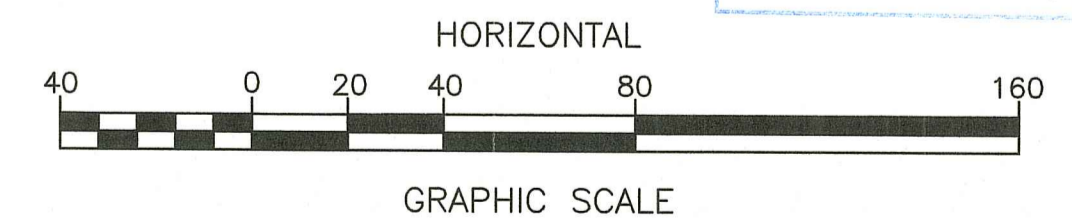


BRONCOS HIGHWAY - ROUTE 102

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 26 2022 FILE #: 22-0160
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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[Signature]

Environmental Management
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 Office of Water Resources



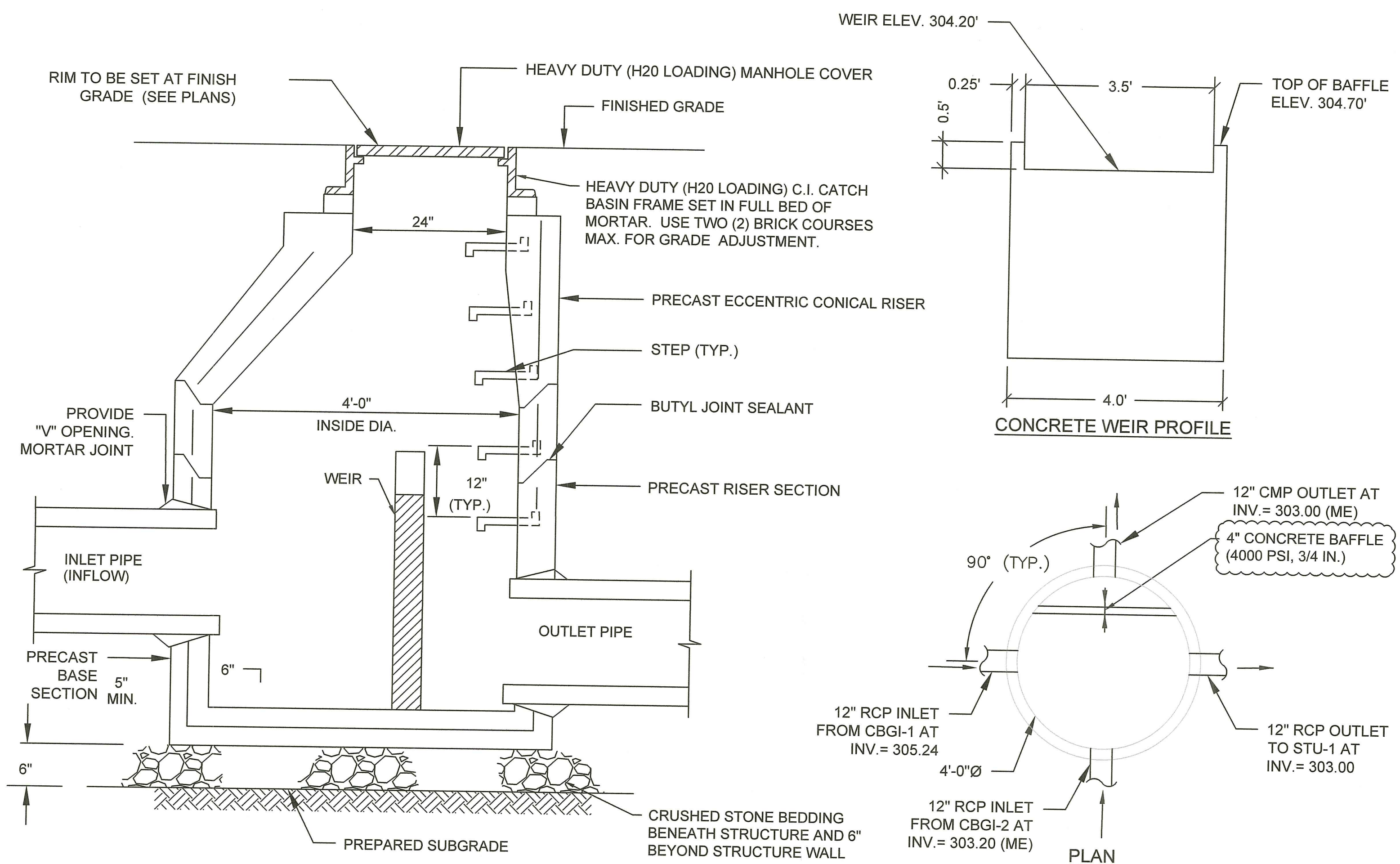
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: J.W.K.
 CHECKED BY: K.P.R.
 DATE: 06/01/2022
 SHEET: 020
 OF: 048

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BARRILLVILLE CONTRACT: 00 VOLUME: 4 RHODE ISLAND

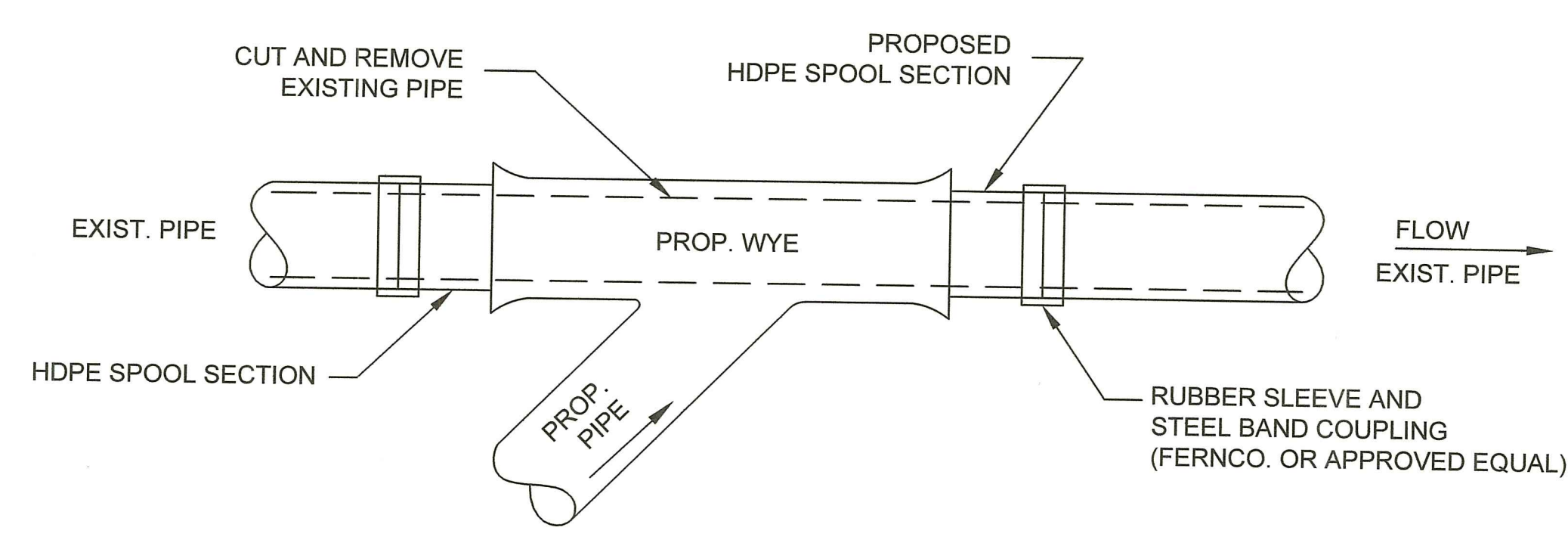
PROFILE



- NOTES:**
1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478
 2. STEEL REINFORCING SHALL CONFORM TO ASTM A185
 3. MANHOLE STEPS SHALL BE 14" WIDE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND SHALL BE CAST INTO MANHOLE SECTIONS BY THE PRECAST MANHOLE MANUFACTURER.

1 TYPICAL BYPASS MANHOLE (BMH-1)

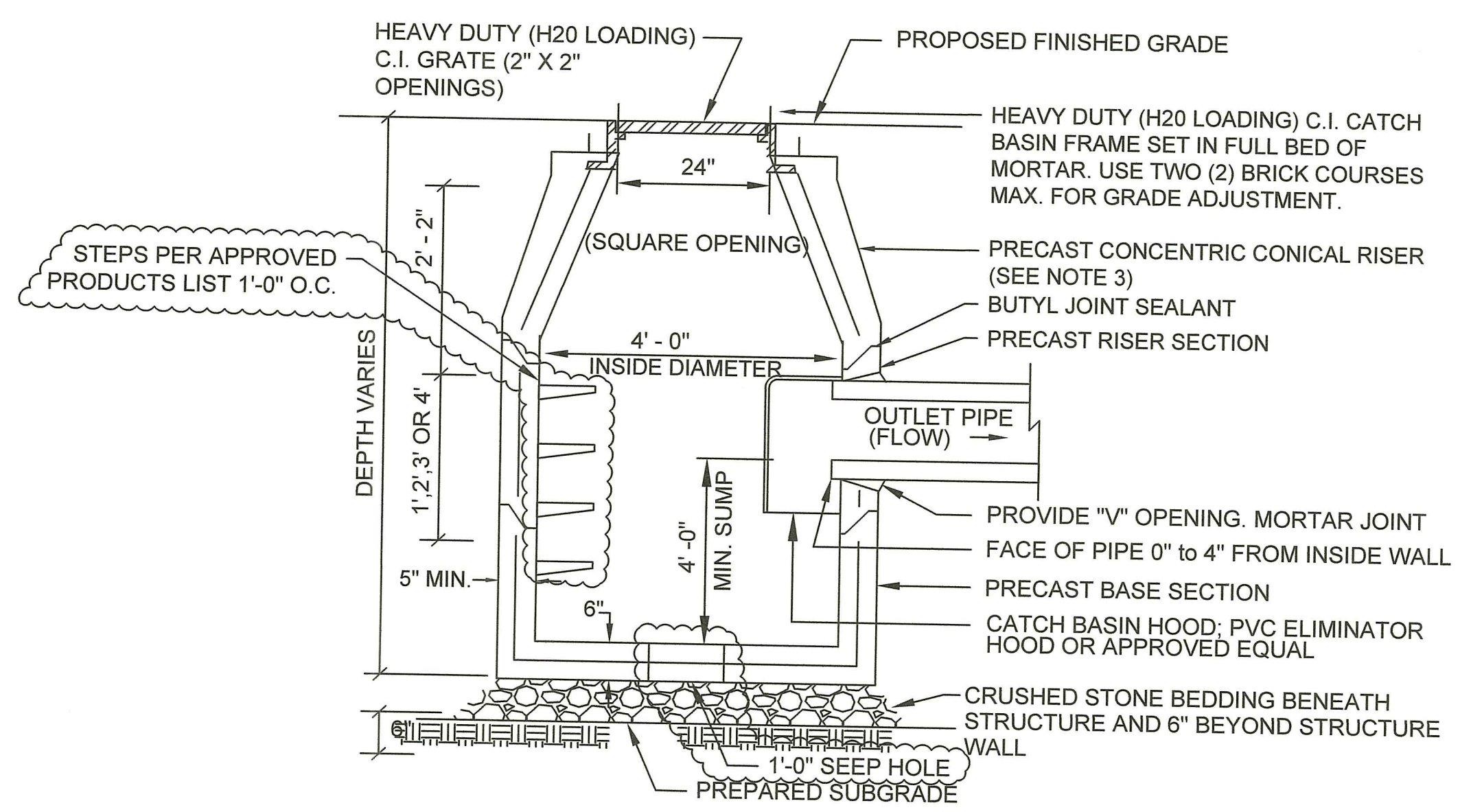
NOT TO SCALE



- NOTES:**
1. CUT AND REMOVE SECTION OF EXISTING PIPE
 2. REPLACE WITH WYE AND SPOOL PIECES AS INDICATED
 3. PROVIDE TEMPORARY BULKHEAD AND BYPASS PUMP SYSTEM UPSTREAM OF CONNECTION DURING CONSTRUCTION IF REQUIRED.

3 TYPICAL CUT-IN WYE CONNECTION TO EXISTING PIPE

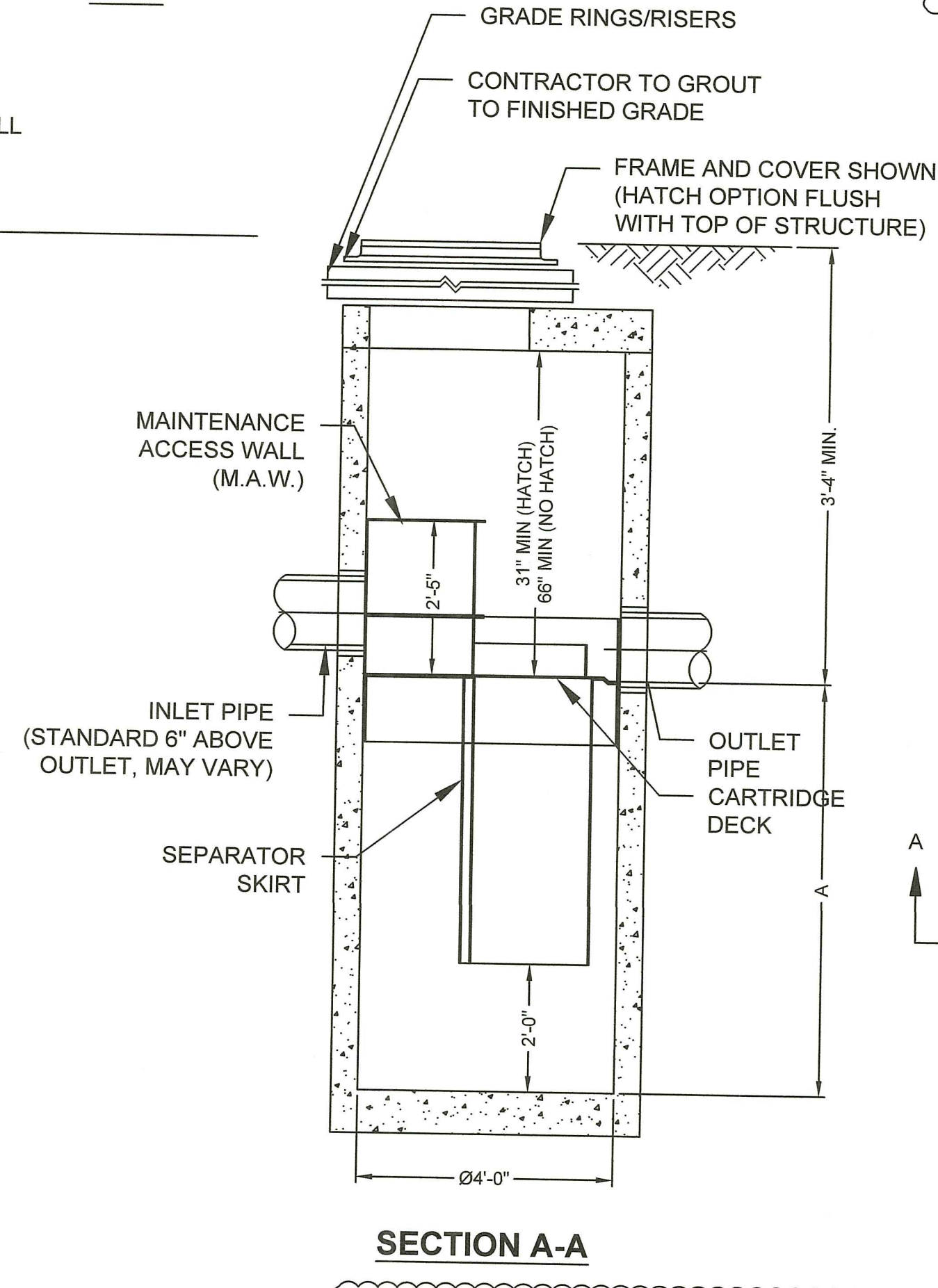
NOT TO SCALE



- NOTES:**
1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478
 2. STEEL REINFORCING SHALL CONFORM TO ASTM A185
 3. USE FLAT TOP SLAB WHEN PIPE(S) COVER IS LESS THAN 2 FT.

2 TYPICAL PRECAST CATCH BASIN (4.4.0)^M

NOT TO SCALE



4 JELLYFISH JF-4-2-1 (STU-1)

NOT TO SCALE

CARTRIDGE SELECTION	
CARTRIDGE DEPTH	54"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-5"
FLOW RATE HIGH-FLO / DRAINDOWN (cfs) (per cart)	0.18 / 0.09
MAX. CARTS HIGH-FLO / DRAINDOWN	2 / 1

- GENERAL NOTES:**
1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR MANUFACTURER REPRESENTATIVE.
 3. WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 3' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. CONTRACTOR TO CONFIRM ACTUAL GROUNDWATER ELEVATION AND NOTIFY ENGINEER IF HIGHER THAN OUTLET ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE MANUFACTURER LOGO.
 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 6. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE. IF THE CONTRACTOR INTENDS ON SUBSTITUTING AN APPROVED EQUAL, IT WILL BE THEIR RESPONSIBILITY TO UPDATE THE RIDEM PERMIT.
 7. STRUCTURE SHALL MEET MINIMUM REQUIRED WATER QUALITY FLOW RATE (WQF) OF 0.40 CFS.

- INSTALLATION NOTES**
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
 - C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
 - D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - E. CARTRIDGE INSTALLATION, BY MANUFACTURER, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT MANUFACTURER TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 25 2023 FILE # 22-0460

JAN 12 2023
 Office of Water Resources



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



DESIGNED BY: BV
 CHECKED BY: DS
 DATE: 08/16/2022
 SHEET: 021
 OF: 38

SCALE: NOT TO SCALE

REVISIONS		REVISIONS			
NO.	DATE	BY	NO.	DATE	BY
1	12/19	BV			

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BURRILLVILLE CONTRACT: 00 VOLUME: 3
 RHODE ISLAND

DRAINAGE & UTILITIES DETAILS

LIST OF ABBREVIATIONS

A
 ABUTMENT = ABUT.
 ALTERNATE = ALT.
 ANCHOR BOLT = A.B.
 APPROVED = APPD.
 APPROXIMATE = APPROX.
 AVERAGE = AVG.

B
 BEAM = BM.
 BACK TO BACK = B TO B
 BETWEEN = BTWN
 BEARING = BRG.
 BITUMINOUS = BIT.
 BUILDING = BLDG.
 BUILDING LINE = B.L.
 BOLT CIRCLE = B.C.
 BOTTOM = BOT.

C
 CENTER TO CENTER = C TO C
 CENTERLINE = C
 CIRCLE = CIR.
 CLEARANCE = CL.
 COLUMN = COL.
 CONCRETE = CONC.
 CONDUIT = COND.
 CONNECTION = CONN.
 CONSTRUCTION = CONST.
 CONTRACTION = CONTR.
 COUNTERSINK = CSK.
 COUPLING = CPLG.
 CLASS I CONTROLLED LOW STRENGTH MATERIAL = CLSM

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

E
 EACH = EA.
 EACH FACE = E.F.
 ELEVATION = EL.
 EXISTING = EXIST.
 EXPANSION = EXP.

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

G
 GAGE = GA.
 GALVANIZE = GALV.
 GRADE = GR.
 GRATING = GRGTG.
 GROUND = GND.

H
 HEIGHT = HGT.
 HEXAGON = HEX.
 HOT MIX ASPHALT = HMA
 HORIZONTAL = HORIZ.

I
 INCH = IN.
 INFORMATION = INFO.
 INSIDE DIAMETER = I.D.
 INVERT = INV.

J
 JOINT = JT.

L
 LENGTH = LGTH.
 LIGHTING = LTG.
 LONG = LG.
 LOAD & RESISTANCE FACTOR DESIGN = LRFD

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

N
 NEAR FACE = N.F.
 NEAR SIDE = N.S.
 NOT TO SCALE = N.T.S.
 NUMBER = NO.

O
 ON CENTER = O.C.
 OPENING = OPNG.
 OUTSIDE DIAMETER = O.D.
 OPTIONAL = OPT.

P
 PLATE = P.
 POINT OF VERTICAL CURVATURE = P.V.C.
 POINT OF VERTICAL TANGENCY = P.V.T.
 POLYVINYL CHLORIDE = PVC
 POINT OF TANGENCY = P.T.
 POUNDS PER SQUARE INCH = P.S.I.
 POUNDS PER SQUARE FOOT = P.S.F.

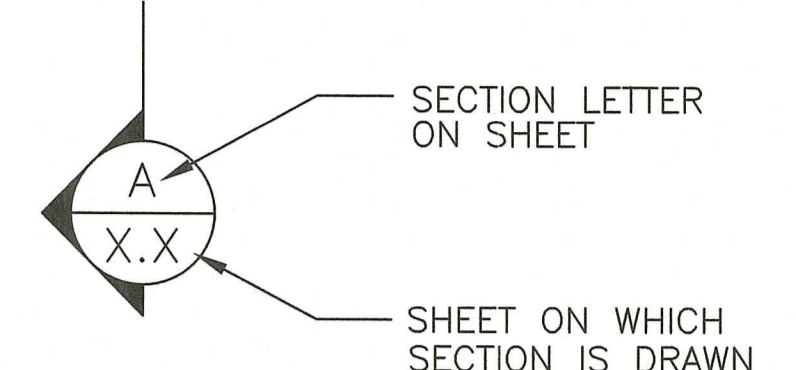
R
 RADIUS = RAD.
 RAILROAD = RR
 REQUIRED = REQD.
 REINFORCING = REINF.
 REHABILITATION = REHAB.
 REMOVE & DISPOSE = R & D

S
 SECTION = SECT.
 SCHEDULE = SCH.
 SCHEMATIC = SCHEM.
 SHEET = SH.
 SPACES = SP.
 STATION = STA.
 SYMMETRICAL = SYM.
 STAY IN PLACE = S.I.P.

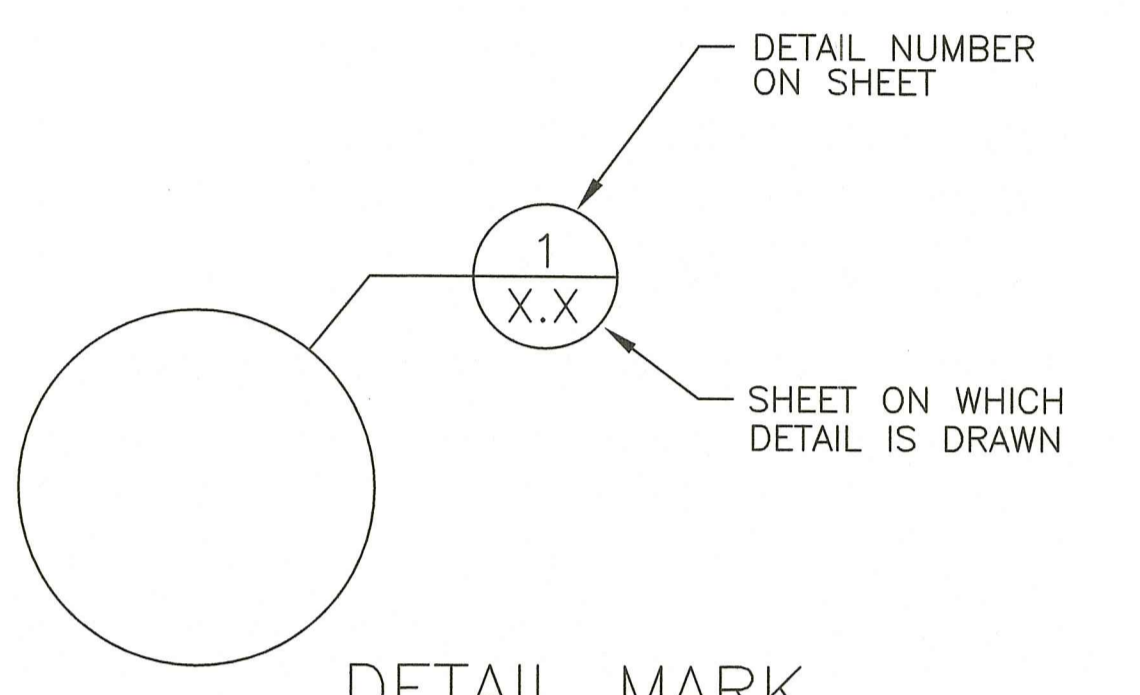
T
 TOP = T
 TYPICAL = TYP.

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

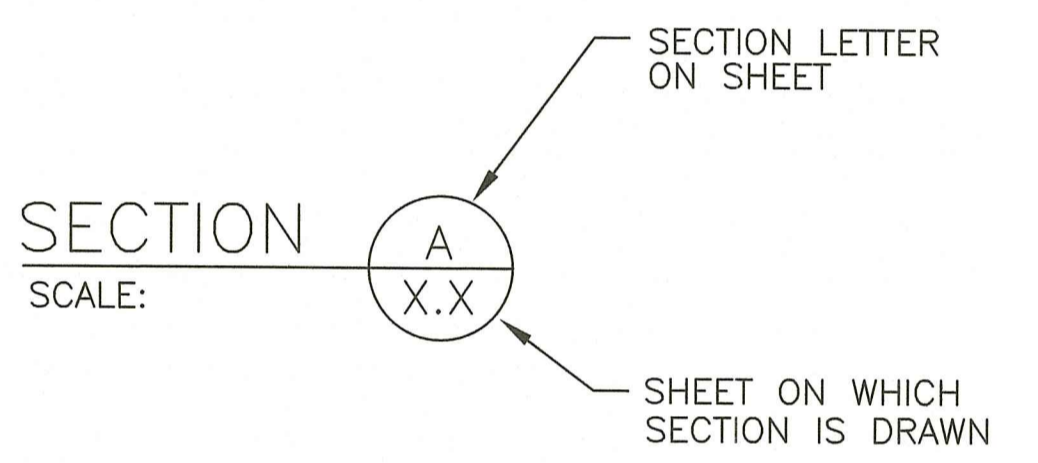
W
 WELDED WIRE FABRIC WITH = W.W.F.
 WIDE FLANGE = W/
 WORKING POINT = W.P.



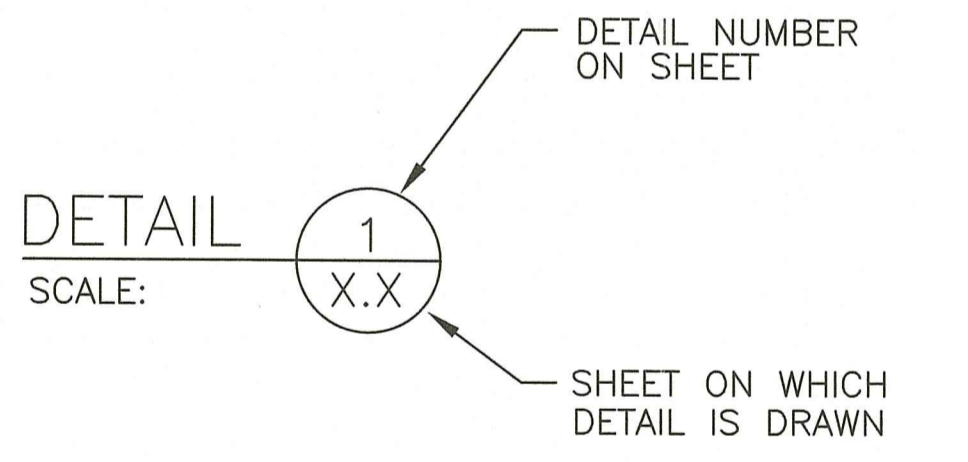
SECTION MARK



DETAIL MARK



SECTION TITLE



DETAIL TITLE

SECTION & DETAIL DESIGNATIONS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 26 2022 FILE # 22-0460
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

[Signature]

Environmental Management
 SEP 20 2022
 Office of Water Resources



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	TMB
CHECKED BY:	MEA
DATE:	06/01/2022
SHEET:	026
OF:	048

SCALE: AS NOTED

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BURRILLVILLE CONTRACT: 00 VOLUME: 4 RHODE ISLAND

LEGEND AND LIST OF ABBREVIATIONS

GENERAL NOTES

- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
 - THE 2004 EDITION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).
 - THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 9TH EDITION, (2020), INCLUDING THE LATEST INTERIM REVISIONS.
 - THE SPECIFICATIONS ACCOMPANYING THESE PLANS.
- DIMENSIONS, STATIONS, AND ELEVATIONS ARE SHOWN TO THE NEAREST ONE-HUNDREDTH OF A FOOT OR ONE-EIGHTH OF AN INCH, EXCEPT STRUCTURAL STEEL DIMENSIONS WHICH ARE TO THE NEAREST ONE-SIXTEENTH OF AN INCH.
- ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF NAVD 88.
- COORDINATES USED ON THESE PLANS ARE BASED ON THE STATEWIDE COORDINATE SYSTEM, THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- TOPOGRAPHIC CONDITIONS WERE OBTAINED FROM AERIAL PHOTOGRAMMETRY. ACCURACY OF VERTICAL TOPOGRAPHY IS WITHIN ("DESIGNER TO SPECIFY ACCURACY, FOR EXAMPLE "ONE-HALF OF A FOOT").
- FOR BENCH MARKS AND TIES SEE HIGHWAY LOCATION PLANS.
- ANGLES ARE SHOWN TO THE NEAREST SECOND.
- ALL FOOTINGS SHALL BE APPROVED BY THE ENGINEER AS TO DIMENSIONS, ELEVATIONS, AND SUITABILITY OF FOUNDATION MATERIAL BEFORE THE PLACING OF CONCRETE.
- ALL WORKING POINTS ARE SHOWN AT THE CENTERLINES OF BEARINGS OF ABUTMENTS AND AT THE CENTERLINES OF PIERS, UNLESS OTHERWISE NOTED.
- ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT THE EXPOSED FACES.
- IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE AS DESIGNATED ON THE COVER SHEET, 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.
- THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE LOCATED USING THE BEST AVAILABLE INFORMATION. NO BUILDING SERVICE CONNECTIONS (ELECTRIC, TELEPHONE, GAS, WATER, SANITARY AND OTHERS) ARE SHOWN. THE CONTRACTOR IS TO ASSUME THAT SERVICES TO ALL BUILDINGS ARE PRESENT.
- BOTH FEDERAL AND STATE LAW (RI. GENERAL LAW 39-1.2) REQUIRE NOTIFICATION OF APPROPRIATE UTILITY COMPANIES BEFORE DIGGING, TRENCHING, BLASTING, DEMOLISHING, BORING, BACK FILLING, GRADING, LANDSCAPING, OR OTHER EARTH MOVING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES (INCLUDING THROUGH THE "DIG SAFE" PROGRAM) TO ENSURE THAT ALL UTILITIES, BOTH UNDERGROUND AND OVERHEAD, HAVE BEEN MARKED BEFORE COMMENCEMENT OF SUCH WORK. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE "DIG SAFE" PROGRAM. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANIES, SHALL BE REPAIRED OR REPLACED (AS DEEMED APPROPRIATE BY THE STATE AND/OR THE IMPACTED UTILITY COMPANY) AT NO ADDITIONAL COST TO THE STATE.

DESIGN DATA

1. DESIGN SPECIFICATIONS

- THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020, INCLUDING ALL INTERIM REVISIONS TO DATE.
- THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL 2007 EDITION INCLUDING ALL REVISIONS TO DATE.
- ALL OTHER APPLICABLE DESIGN SPECIFICATIONS ARE REFERENCED IN SECTION 1 OF THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL DATED 2007.
- THE 2004 REVISION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).
- IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN.

2. LOAD MODIFIERS

THE LOAD MODIFIERS FOR THIS PROJECT ARE AS FOLLOWS:

- THE LOAD MODIFIER FOR DUCTILITY SHALL BE TAKEN AS 1.0 FOR ALL LIMIT STATES.
- THE LOAD MODIFIER FOR REDUNDANCY SHALL BE TAKEN AS (* STATE VALUE FOR EACH LIMIT STATE).
- THE LOAD MODIFIER FOR OPERATIONAL IMPORTANCE SHALL BE TAKEN AS (* STATE VALUE FOR EACH LIMIT STATE).

3. LOAD FACTORS

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

- THE LOAD FACTOR FOR TEMPERATURE GRADIENT SHALL BE TAKEN AS (* STATE VALUE FOR EACH LIMIT STATE).
- THE LOAD FACTOR FOR LIVE LOAD FOR THE EXTREME EVENT I SHALL BE TAKEN AS ZERO.
- THE LOAD FACTOR FOR DEAD LOAD FOR THE EXTREME EVENT I AND EXTREME EVENT II SHALL BE TAKEN AS 1.0
- THE LOAD FACTOR FOR SETTLEMENT FOR ALL LIMIT STATES SHALL BE TAKEN AS 1.0

4. LIVE LOADS

- THE DESIGN VEHICULAR LIVE LOAD SHALL BE THE HL-93 DESIGNATION ADJUSTED FOR DYNAMIC LOAD ALLOWANCE AND MULTIPLE PRESENCE FACTOR.
- THE DESIGN PEDESTRIAN LIVE LOAD SHALL BE 75 PSF.

5. FOUNDATION DESIGN DATA

SPREAD FOOTINGS:

THE FACTORED BEARING RESISTANCE FOR THE VARIOUS TYPES OF BEARING MATERIAL ARE AS FOLLOWS:

LOCATION	TYPE OF BEARING MATERIAL	FACTORED BEARING RESISTANCE (KSF)	
		STRENGTH LIMIT STATES	EXTREME LIMIT STATES
*	*	*	*
*	*	*	*

(*DESIGNER TO SPECIFY THE NOMINAL BEARING RESISTANCE AND ASSOCIATED TOLERABLE MOVEMENT FOR EACH OF THE ABOVE LIMIT STATES*).

DEEP FOUNDATIONS:

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

LOCATION	TYPE	FACTORED AXIAL RESISTANCE (KIPS)			
		GEOTECHNICAL		STRUCTURAL	
		STRENGTH LIMIT STATES	EXTREME LIMIT STATES	STRENGTH LIMIT STATES	EXTREME LIMIT STATES
*	*	*	*	*	*
*	*	*	*	*	*

LOCATION	TYPE	FACTORED UPLIFT RESISTANCE (KIPS)	
		STRENGTH LIMIT STATES	EXTREME LIMIT STATES
*	*	*	*
*	*	*	*

(*DESIGNER TO COMPLETE TABLE*)

- THE FACTORED DESIGN AXIAL RESISTANCE AT EACH LOCATION IS THE LESSER VALUE OF THE FACTORED GEOTECHNICAL AND THE FACTORED STRUCTURAL RESISTANCES INDICATED.
- THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE STRENGTH LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE AS DETERMINED USING ("DESIGNER TO SPECIFY METHOD") AND A RESISTANCE FACTOR OF ("DESIGNER TO SPECIFY RESISTANCE FACTOR").
- THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE EXTREME LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE AS DETERMINED USING ("DESIGNER TO SPECIFY METHOD") AND A RESISTANCE FACTOR OF ("DESIGNER TO SPECIFY RESISTANCE FACTOR").
- THE FACTORED GEOTECHNICAL UPLIFT RESISTANCE FOR THE STRENGTH LIMIT STATE IS BASED ON THE NOMINAL UPLIFT RESISTANCE AS DETERMINED USING ("DESIGNER TO SPECIFY METHOD") AND A RESISTANCE FACTOR OF ("DESIGNER TO SPECIFY RESISTANCE FACTOR").
- THE FACTORED GEOTECHNICAL UPLIFT RESISTANCE FOR THE EXTREME LIMIT STATE IS BASED ON THE NOMINAL UPLIFT RESISTANCE AS DETERMINED USING ("DESIGNER TO SPECIFY METHOD") AND A RESISTANCE FACTOR OF ("DESIGNER TO SPECIFY RESISTANCE FACTOR").

6. WIND LOADING DESIGN DATA

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

- EXCEPT DURING CONSTRUCTION, THE DESIGN WIND PRESSURE IS BASED ON A DESIGN WIND SPEED OF ("DESIGNER TO SPECIFY - REFER TO RI LRFD SECTION 3") MPH.
- THE DESIGN WIND PRESSURES DURING CONSTRUCTION SHALL BE AS SPECIFIED UNDER THE NOTES TITLED "GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS".

7. HYDRAULIC AND SCOUR DATA

DRAINAGE AREA	67.9 SQ. MI.
HYDRAULIC OPENING	HYDRAULIC AREA = 2,182 SQ. FT.
	SPAN 1 WIDTH = APPROX. 20 FT. SPAN 2 WIDTH = APPROX. 80 FT.
	OPEN HEIGHT = 18.72 FT.
WATER SURFACE ELEVATION	2-YR = 296.95 FT.
	10-YR = 297.98 FT.
	25-YR = 298.74 FT.
	50-YR = 299.51 FT.
	100-YR = 300.31 FT.
DESIGN VELOCITY	500-YR = 301.45 FT.
	100-YR = 5.41 FT/S
	500-YR = 5.42 FT/S
SCOUR DEPTH	LEFT ABUTMENT 100-YR SCOUR = 2.2 FT.
	RIGHT ABUTMENT 100-YR SCOUR = 14.7 FT.
	PIER SCOUR = 8.1 FT.
	LEFT ABUTMENT 500-YR SCOUR = 3.7 FT.
	RIGHT ABUTMENT 500-YR SCOUR = 27.7 FT.
	PIER SCOUR = 9.32 FT.

8. THERMAL DESIGN FORCE DATA

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

9. SEISMIC DESIGN DATA

- THE SEISMIC ANALYSIS AND DESIGN SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL.
- THIS BRIDGE HAS BEEN CLASSIFIED AS NON-CRITICAL.
- THE SITE HAS BEEN CLASSIFIED AS SITE CLASS TBD.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 26 2023 FILE #: 22-0460
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
 SEP 20 2022
 Office of Water Resources



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

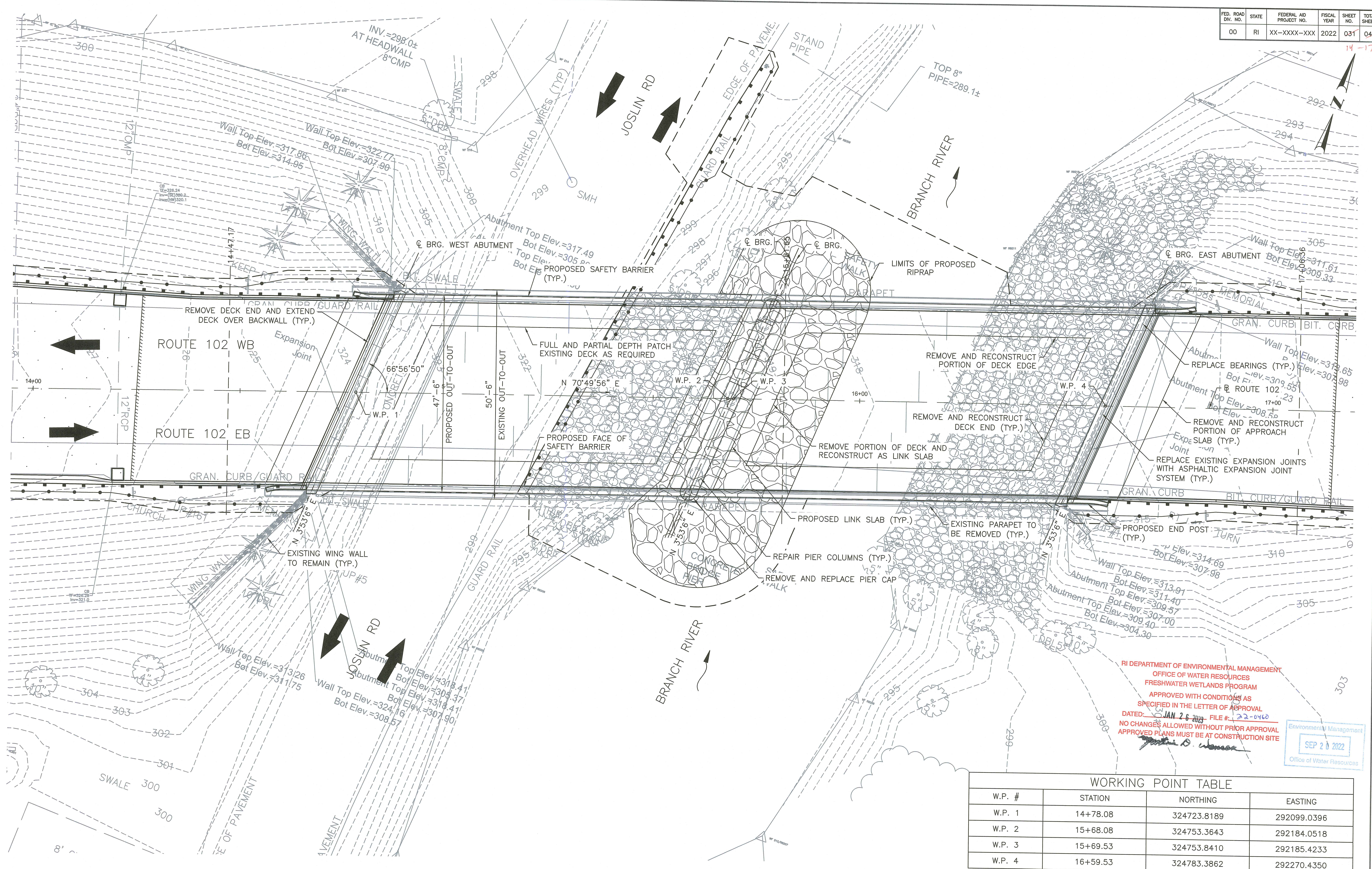
DESIGNED BY: TMB
 CHECKED BY: MEA
 DATE: 06/01/2022
 SHEET: 027
 OF: 048

SCALE: AS NOTED

NO.	DATE	BY	REVISIONS		
			NO.	DATE	BY

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BURRILLVILLE CONTRACT: 00 VOLUME: 4 RHODE ISLAND

GENERAL NOTES SHEET 1 OF 4



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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W.P. #	STATION	NORTHING	EASTING
W.P. 1	14+78.08	324723.8189	292099.0396
W.P. 2	15+68.08	324753.3643	292184.0518
W.P. 3	15+69.53	324753.8410	292185.4233
W.P. 4	16+59.53	324783.3862	292270.4350



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

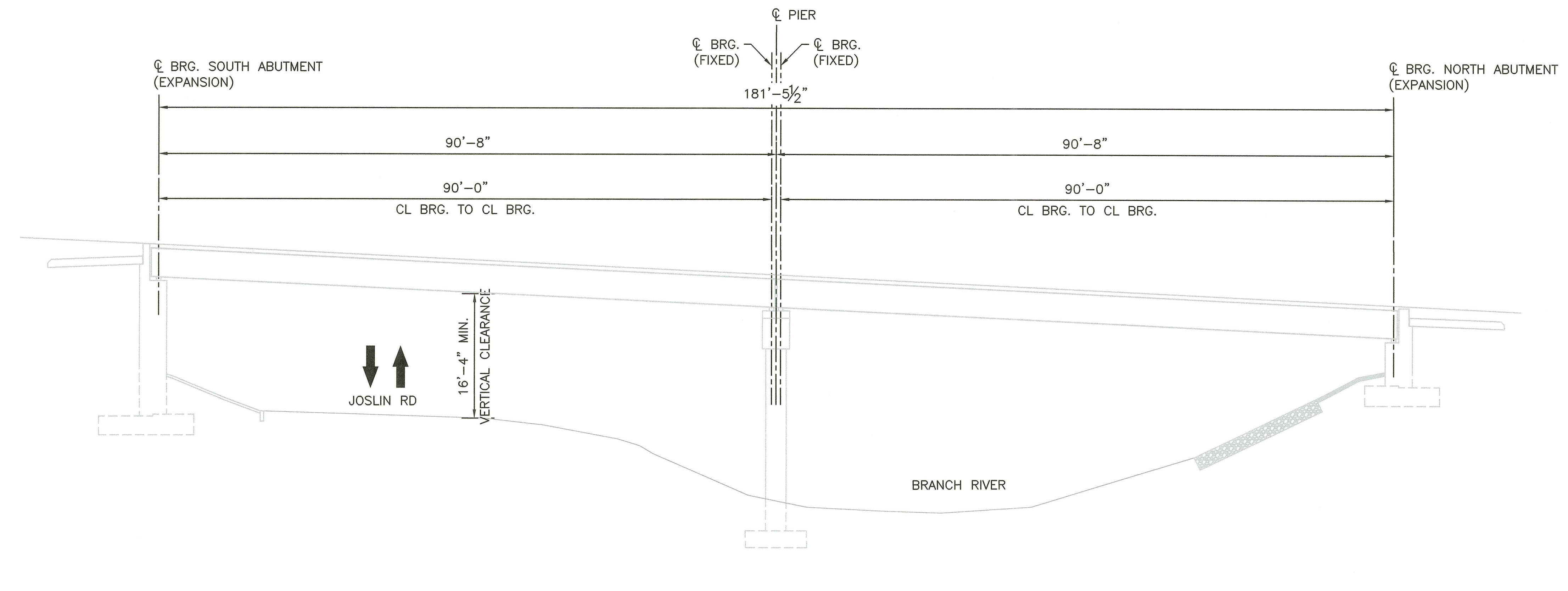
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 OF: 048

SCALE: 1"=10'-0"
 GRAPHIC SCALE

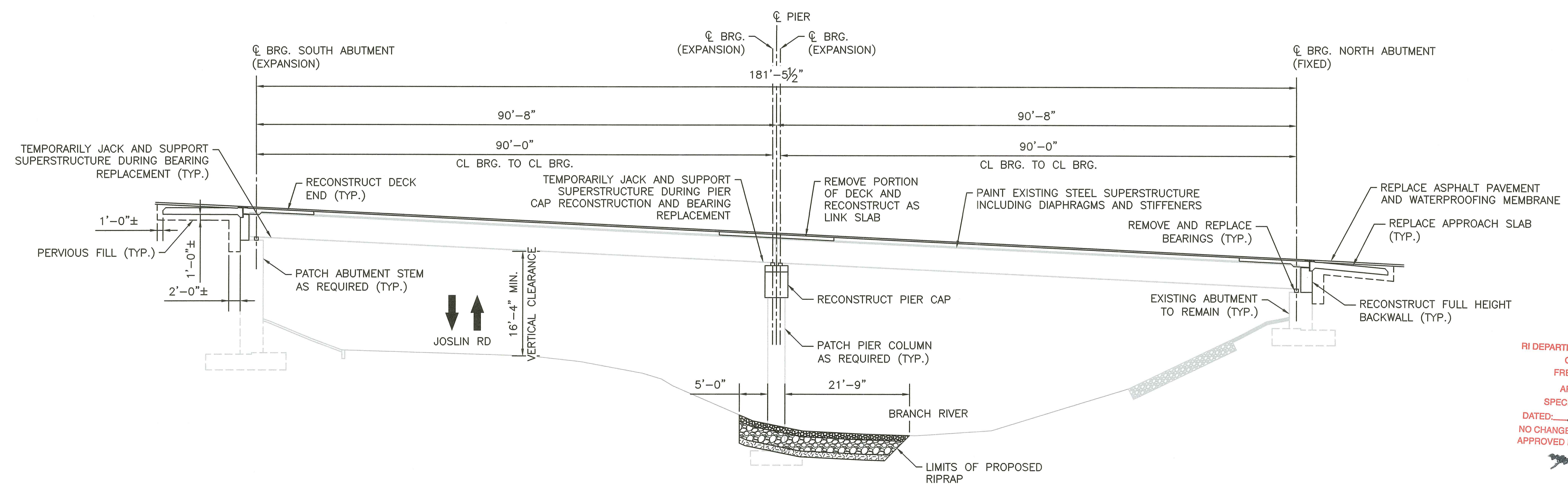
REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 CONTRACT: 00 VOLUME: 4
 BARRILLVILLE
 RHODE ISLAND

GENERAL BRIDGE PLAN



EXISTING LONGITUDINAL SECTION - LOOKING WEST
SCALE: 1" = 10'-0"



PROPOSED LONGITUDINAL SECTION - LOOKING WEST
SCALE: 1" = 10'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 26 2023 FILE #: 22-0460
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Michael D. Wood

Environmental Management
JAN 12 2023
Office of Water Resources

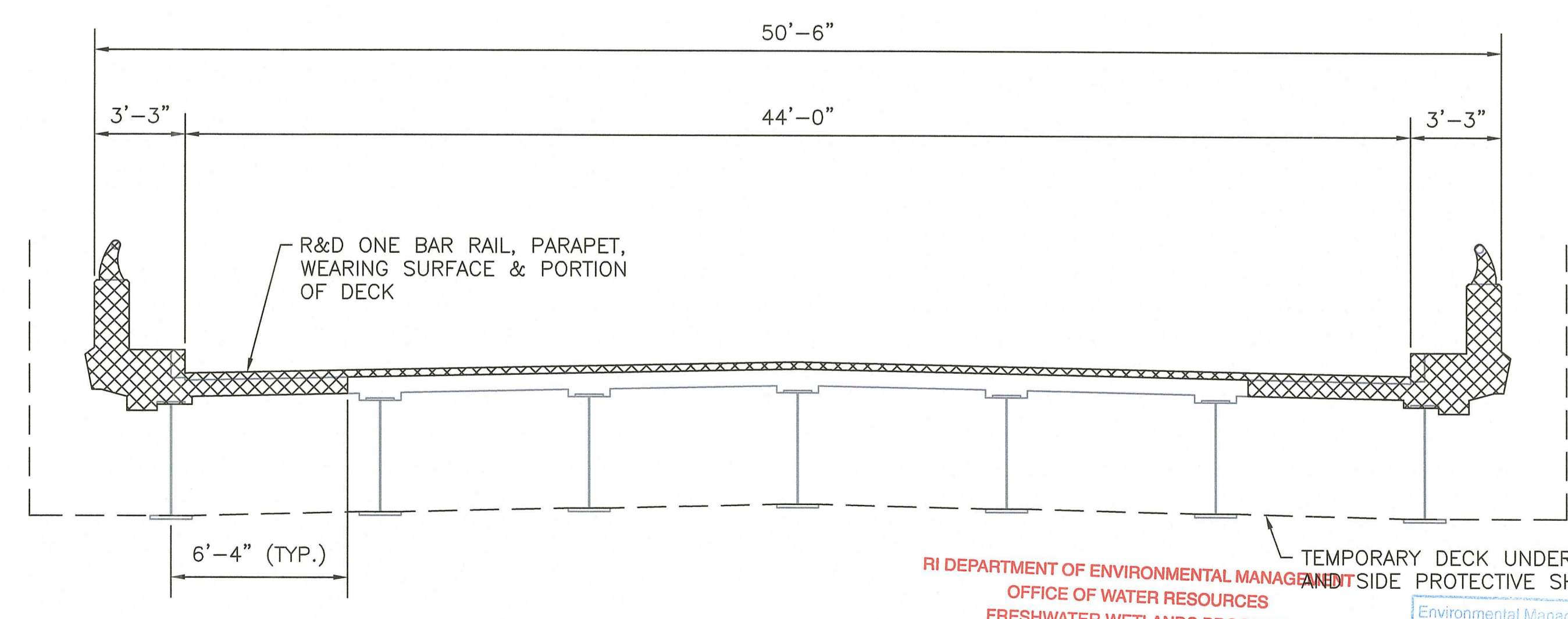
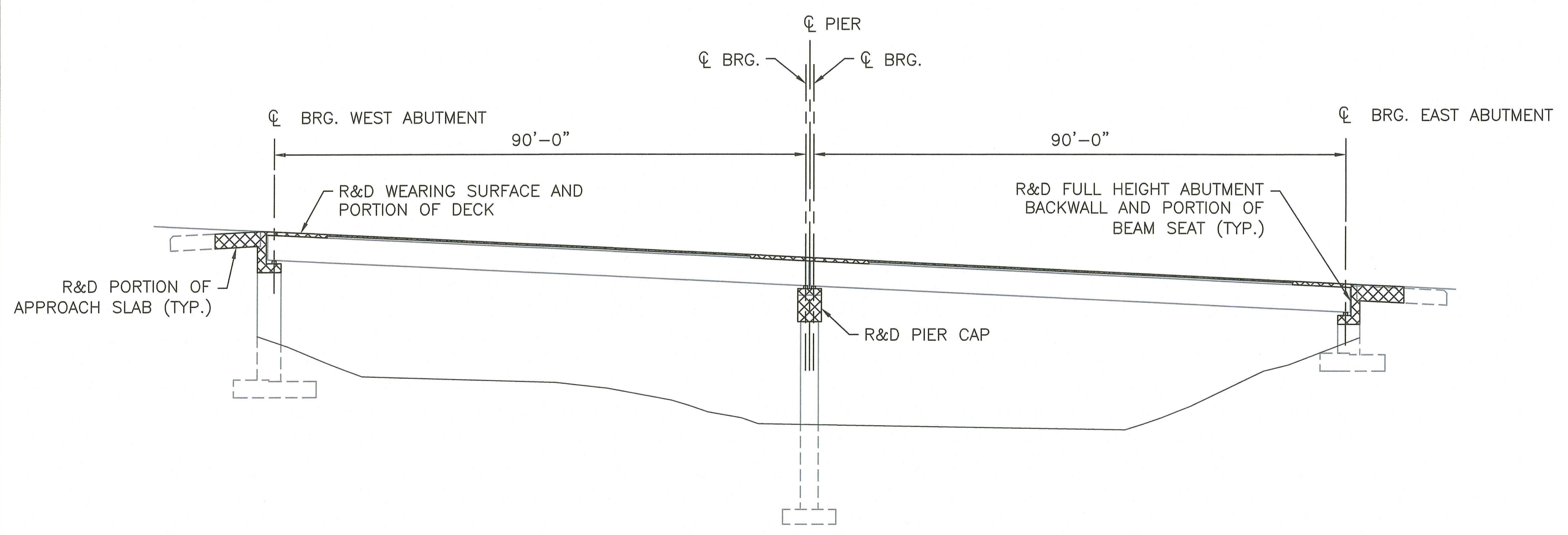
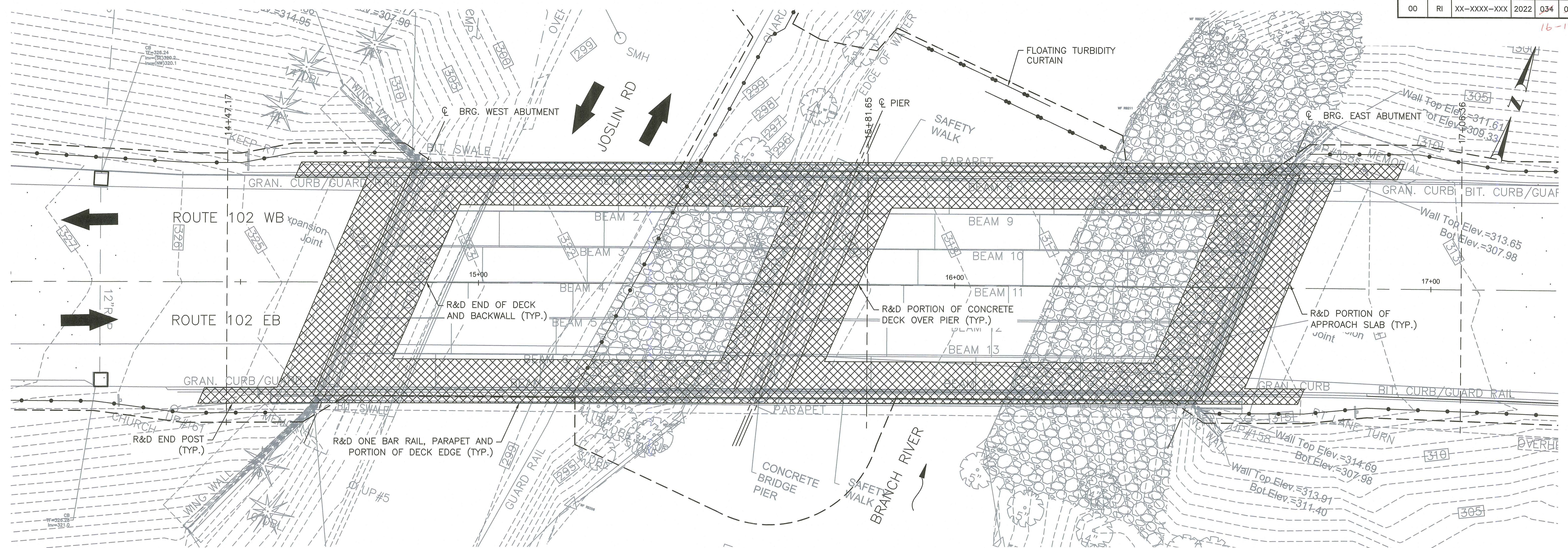


DESIGNED BY: TMB
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DATE: 12/16/2022
SHEET: 032
OF: 052

SCALE: 1" = 10'-0"

REVISIONS				REVISIONS			
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE

BRIDGE GROUP 17B
JOSLIN ROAD BRIDGE NO. 672
Burrillville CONTRACT: 00 VOLUME: 03 RHODE ISLAND
LONGITUDINAL SECTIONS



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SHOWN THE LETTER OF APPROVAL
DATED: JAN 26 2023 FILE #: 22-0163
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TEMPORARY DECK UNDERSIDE PROTECTIVE SHIELDING

LEGEND
[Symbol] REMOVE & DISPOSE



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	CAP	SCALE:	AS NOTED
CHECKED BY:	MEA		
DATE:	06/01/2022		
SHEET:	034		
OF:	048		

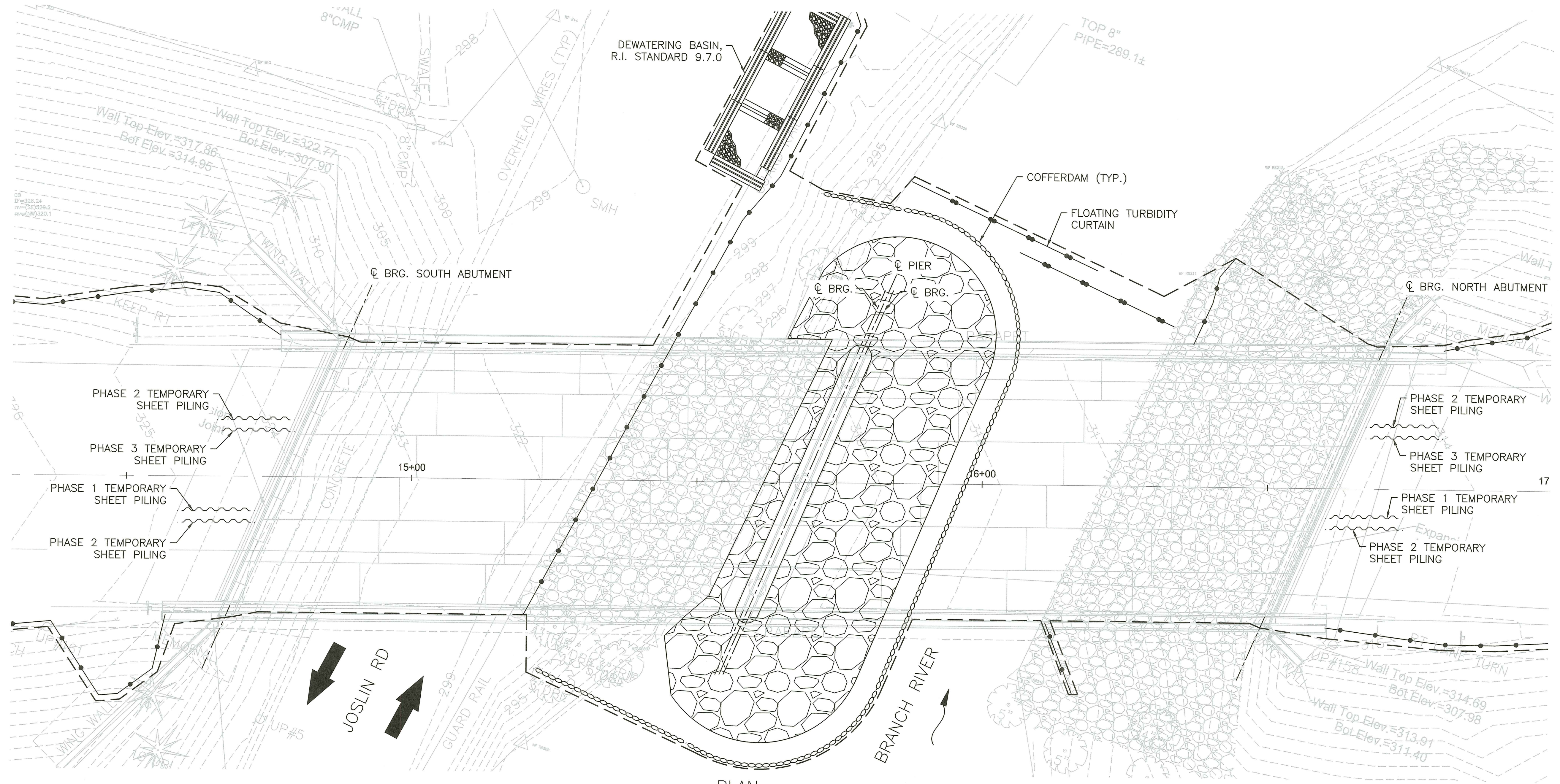
BRIDGE GROUP 17B
JOSLIN ROAD BRIDGE NO. 672
CONTRACT: 00 VOLUME: 4
DEMOLITION PLAN 1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	BHO-017B(002)	2023	036	052

17-17

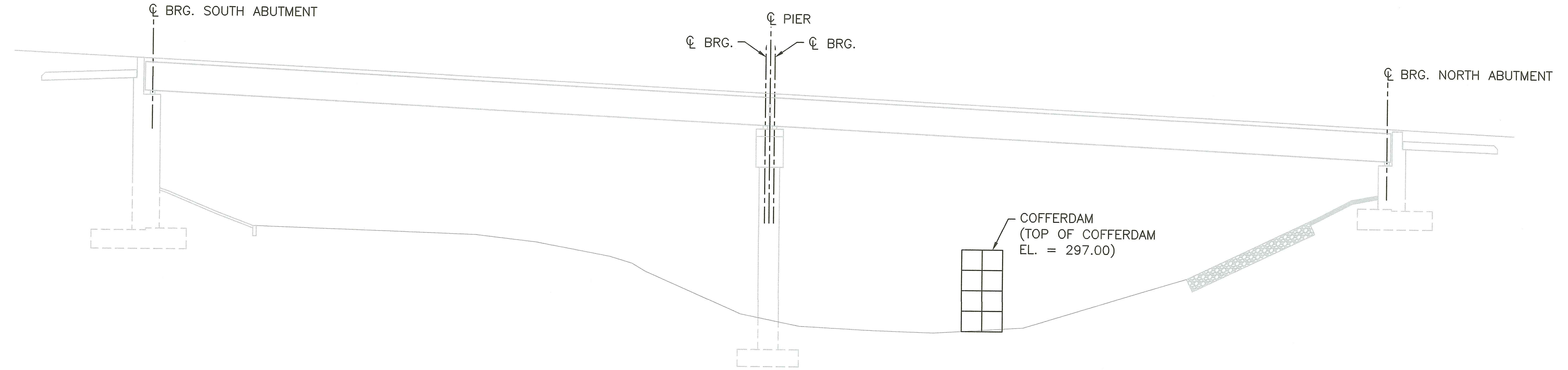
NOTES:

1. COFFERDAM IS TO BE DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.



PLAN

SCALE: 1" = 10'-0"



ELEVATION

SCALE: 1" = 10'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 26 2023 FILE #: 22-0460
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Justin D. Womack

Environmental Management
 JAN 12 2023
 Office of Water Resources



DESIGNED BY: TMB
 CHECKED BY: MEA
 DATE: 06/01/2022
 SHEET: 036
 OF: 052

SCALE: 1"=10'-0"			
GRAPHIC SCALE			
REVISIONS		REVISIONS	
NO.	DATE	BY	NO.
1	12/16/2022	TMB	

BRIDGE GROUP 17B
 JOSLIN ROAD BRIDGE NO. 672
 BURRILLVILLE CONTRACT: 00 VOLUME: 03 RHODE ISLAND
BRIDGE CONSTRUCTION PLAN