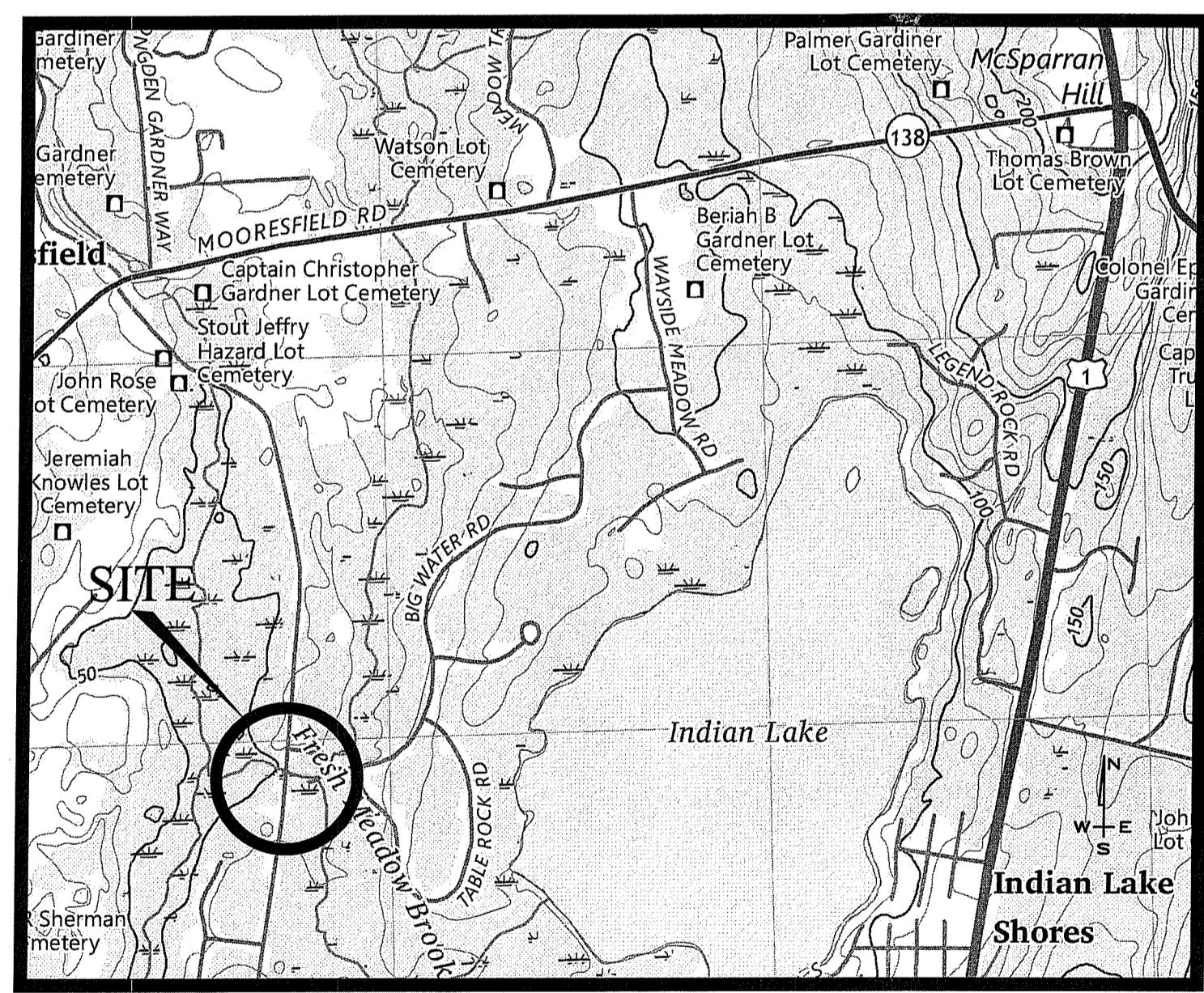
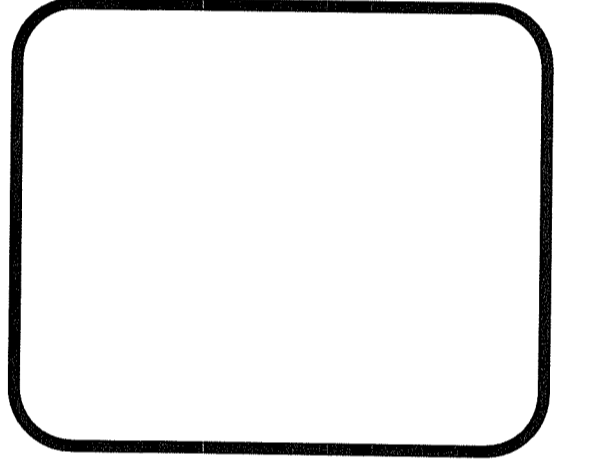


# CONSTRUCTION PLANS FOR BROAD ROCK ROAD FRESH MEADOW BROOK - CULVERT REPAIR SOUTH KINGSTOWN, RI

CONSTRUCTION PLANS  
FOR  
BROAD ROCK ROAD  
FRESH MEADOW BROOK  
CULVERT REPAIR  
IN  
SOUTH KINGSTOWN,  
RHODE ISLAND  
PREPARED FOR  
THE TOWN OF SOUTH KINGSTOWN

NO.	REVISION	BY	DATE



**LOCUS MAP**  
NOT TO SCALE

PREPARED FOR:  
**TOWN OF SOUTH KINGSTOWN**  
**PUBLIC SERVICES DEPARTMENT**  
**509 COMMODORE PERRY HWY**  
**SOUTH KINGSTOWN, RI 02879**

PREPARED BY:  
  
**GAROFALO & ASSOCIATES, INC.**  
 CIVIL & STRUCTURAL ENGINEERS  
 SURVEYORS \ LAND PLANNERS  
 85 CORLISS STREET  
 P.O. BOX 6145  
 PROVIDENCE, RI 02940  
 (PH) 401-273-6000 (FX) 401-273-1000

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: JUL 15 2024 FILE #: 24-0138  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

PLAN SHEET LEGEND		
SHEET	PLAN TITLE	LATEST REVISION
1	COVER SHEET	
2	GENERAL NOTES & LEGEND	
3	CONSTRUCTION PLAN	
4	CROSS SECTION PLAN	
5	CONSTRUCTION DETAILS 1	
6	CONSTRUCTION DETAILS 2	

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS  
 SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
 CONSTRUCTION, FEBRUARY 2024, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS  
 INCLUDED IN THE CONTRACT DOCUMENTS.  
 STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

DATED:  
**JUNE 7, 2024**

JEFF E. LEWIS  
 No. 6249  
 REGISTERED  
 PROFESSIONAL ENGINEER  
*JE*  
 6-11-24

**GAROFALO**  
 GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS  
 SURVEYORS \ LAND PLANNERS

Garofalo & Associates, Inc. is the registered professional engineer and has prepared these plans and drawings for the project at this site and are not to be used for any other project without the written consent of this owner or one of its directors.

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 TEL. 401-273-6000

JOB NO. 7435.00	DRAWN BY MWC
DWG. NO.	CALCS BY MWC
SCALE: N/A	APPROVED JEL
	DATE: JUNE 7, 2024

SHEET  
 RI Department of Environmental Management  
 JUN 11 2024  
 Office of Water Resources  
1  
 OF 6 SHEETS



HIGHWAY CONSTRUCTION PLAN  
FOR  
BROAD ROCK ROAD  
FRESH MEADOW BROOK  
CULVERT REPAIR  
IN  
SOUTH KINGSTOWN,  
RHODE ISLAND  
PREPARED FOR  
THE TOWN OF SOUTH KINGSTOWN

NO.	REVISION	BY	DATE

RI Environmental Management  
JUN 11 2024  
Office of Water Resources

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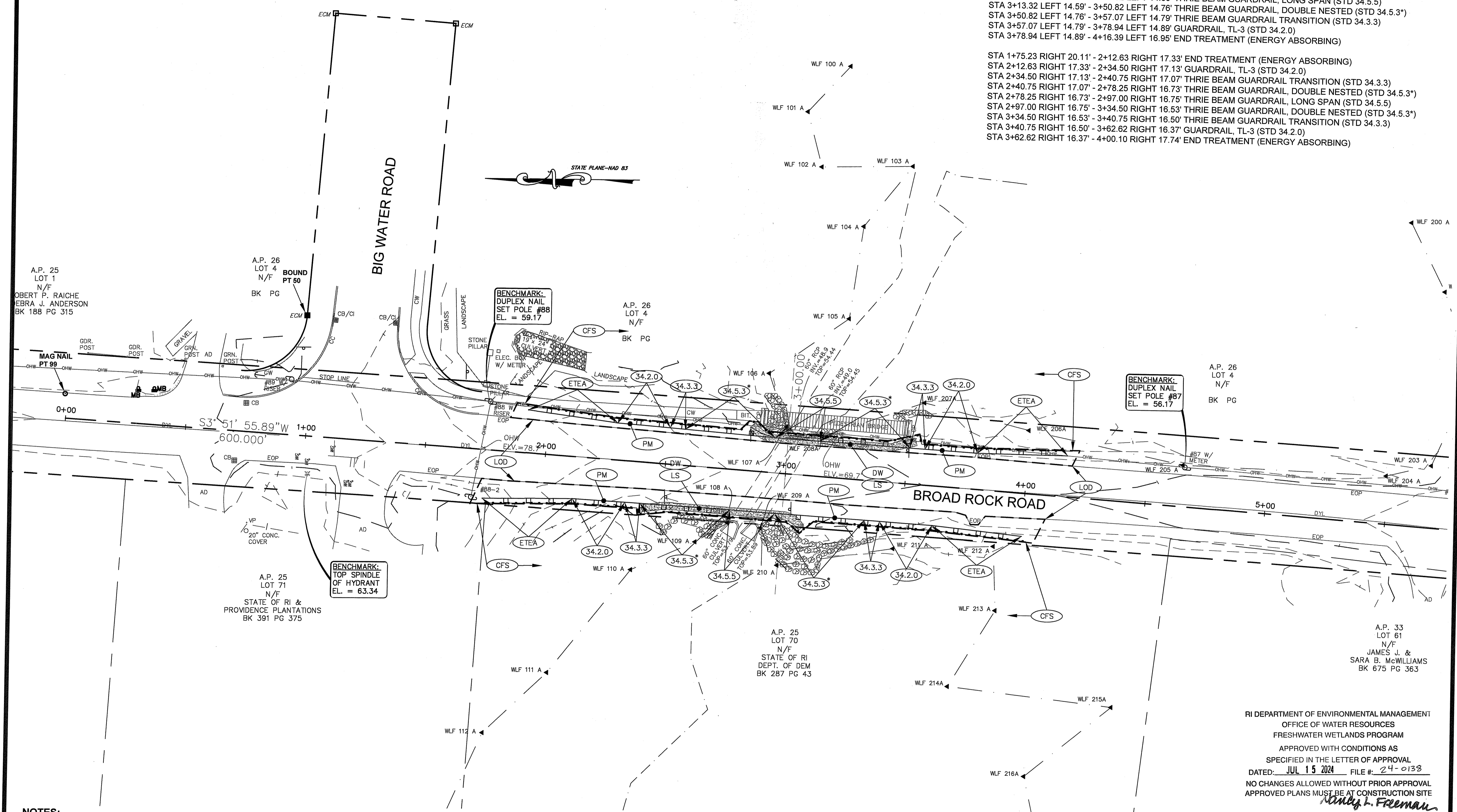
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DATED: JUL 15 2024 FILE #: 24-0133  
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*Nancy L. Freeman*

GUARDRAIL DETAILS

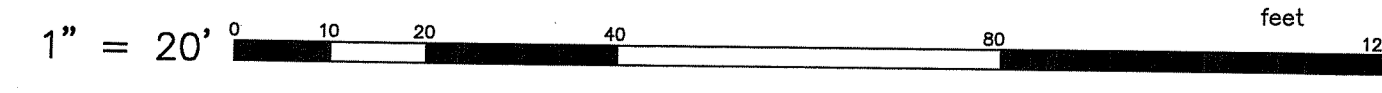
- STA 1+91.53 LEFT 17.78' - 2+28.95 LEFT 15.33' END TREATMENT (ENERGY ABSORBING)
- STA 2+28.95 LEFT 15.33' - 2+50.82 LEFT 15.05' GUARDRAIL, TL-3 (STD 34.2.0)
- STA 2+50.82 LEFT 15.05' - 2+57.07 LEFT 14.97' THRIE BEAM GUARDRAIL TRANSITION (STD 34.3.3)
- STA 2+57.07 LEFT 14.97' - 2+94.57 LEFT 14.48' THRIE BEAM GUARDRAIL, DOUBLE NESTED (STD 34.5.3\*)
- STA 2+94.57 LEFT 14.48' - 3+13.32 LEFT 14.59' THRIE BEAM GUARDRAIL, LONG SPAN (STD 34.5.5)
- STA 3+13.32 LEFT 14.59' - 3+50.82 LEFT 14.76' THRIE BEAM GUARDRAIL, DOUBLE NESTED (STD 34.5.3\*)
- STA 3+50.82 LEFT 14.76' - 3+57.07 LEFT 14.79' THRIE BEAM GUARDRAIL TRANSITION (STD 34.3.3)
- STA 3+57.07 LEFT 14.79' - 3+78.94 LEFT 14.89' GUARDRAIL, TL-3 (STD 34.2.0)
- STA 3+78.94 LEFT 14.89' - 4+16.39 LEFT 16.95' END TREATMENT (ENERGY ABSORBING)
- STA 1+75.23 RIGHT 20.11' - 2+12.63 RIGHT 17.33' END TREATMENT (ENERGY ABSORBING)
- STA 2+12.63 RIGHT 17.33' - 2+34.50 RIGHT 17.13' GUARDRAIL, TL-3 (STD 34.2.0)
- STA 2+34.50 RIGHT 17.13' - 2+40.75 RIGHT 17.07' THRIE BEAM GUARDRAIL TRANSITION (STD 34.3.3)
- STA 2+40.75 RIGHT 17.07' - 2+78.25 RIGHT 16.73' THRIE BEAM GUARDRAIL, DOUBLE NESTED (STD 34.5.3\*)
- STA 2+78.25 RIGHT 16.73' - 2+97.00 RIGHT 16.75' THRIE BEAM GUARDRAIL, LONG SPAN (STD 34.5.5)
- STA 2+97.00 RIGHT 16.75' - 3+34.50 RIGHT 16.53' THRIE BEAM GUARDRAIL, DOUBLE NESTED (STD 34.5.3\*)
- STA 3+34.50 RIGHT 16.53' - 3+40.75 RIGHT 16.50' THRIE BEAM GUARDRAIL TRANSITION (STD 34.3.3)
- STA 3+40.75 RIGHT 16.50' - 3+62.62 RIGHT 16.37' GUARDRAIL, TL-3 (STD 34.2.0)
- STA 3+62.62 RIGHT 16.37' - 4+00.10 RIGHT 17.74' END TREATMENT (ENERGY ABSORBING)



- NOTES:**
- EROSION CONTROLS SHALL BE INSTALLED PRIOR TO ANY WORK BEING PERFORMED ON THIS PROJECT.
  - THE TWO BLOCK PARAPET WALLS SHALL BE REMOVED TO APPROXIMATELY 6-INCHES BELOW GRADE OR TO ALLOW FOR INSTALLATION OF THE GUARDRAIL POSTS. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
  - VEGETATION TRIMMING AND CLEARING WORK SHALL BE KEPT TO THE MINIMUM AMOUNT REQUIRED FOR REMOVAL OF THE BLOCK PARAPET WALLS AND GUARDRAIL INSTALLATION. NO VEGETATION SHALL BE REMOVED FROM WITHIN THE WETLAND AREA.
  - REPOINTING AND/OR GROUTING OF THE STONE HEADWALL VOIDS SHALL BE PERFORMED IN A MANNER TO PREVENT ANY DISTURBANCE TO THE WATERWAY OR WETLAND AREA. NO WATER FLOW WILL BE ALLOWED TO BE BLOCKED, REDIRECTED OR ALTERED IN ANY WAY THROUGH THE TWIN CULVERT.
  - AFTER REMOVAL OF BLOCK PARAPET WALLS AND INSTALLATION OF GUARDRAIL, MILLINGS WILL BE PLACED BENEATH THE GUARDRAIL. IN ALL OTHER AREAS WHERE BLOCK WALL HAS BEEN REMOVED OR GROUND HAS BEEN DISTURBED, LOAM AND SEED SHALL BE PLACED.
  - NO PAVED ROADWAY WORK IS PROPOSED AND NO CHANGE TO IMPERVIOUS AREA WILL OCCUR. ANY DAMAGE TO THE PAVED ROADWAY SURFACE WILL BE REPAIRED IN KIND BY THE CONTRACTOR AT NO COST TO THE TOWN.

**FIELD POINT DATA**

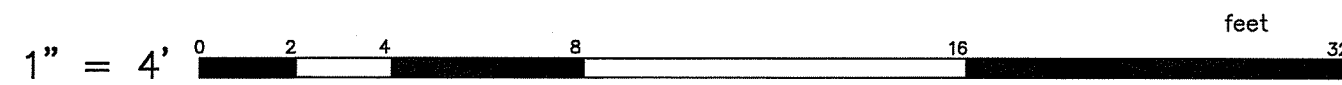
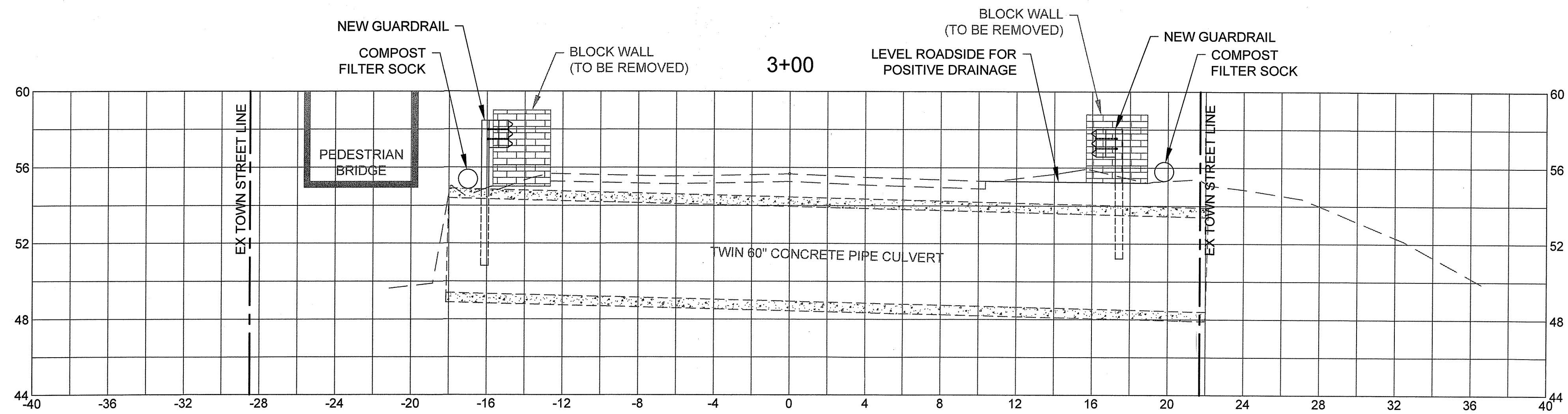
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99	332897.0545	144520.7438	MAG NAIL
STA 0+00	332886.9469	144520.4991	BASELINE STATION
STA 5+00	332853.2394	144021.6366	BASELINE STATION



JOB NO. 7435.00  
DWG. NO. 7435.00  
SCALE: 1"=20'  
SHEET

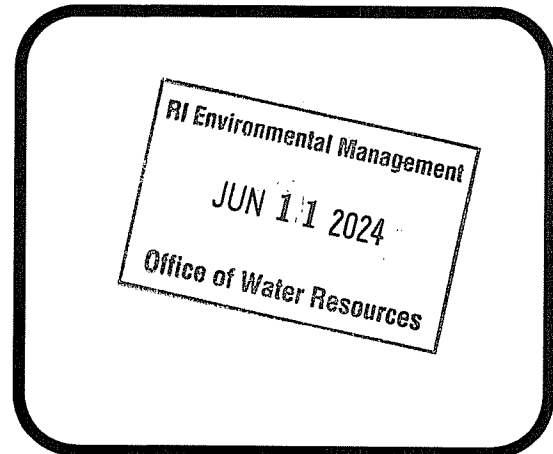
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CALCS BY MWC  
APPROVED JEL  
DATE: JUNE 7, 2024

**3**  
OF 6 SHEETS



CROSS SECTION AT CLUVERT  
 FOR  
 BROAD ROCK ROAD  
 FRESH MEADOW BROOK  
 CULVERT REPAIR  
 IN  
 SOUTH KINGSTOWN,  
 RHODE ISLAND  
 PREPARED FOR  
 THE TOWN OF SOUTH KINGSTOWN

NO.	REVISION	BY	DATE



**GAROFALO**  
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 directors.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
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 DATED: JUL 15 2024 FILE #: 24-0138  
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*Walter L. Freeman*

JOB NO. 7435.00	DRAWN BY MWC
DWG. NO.	CALCS BY MWC
SCALE: 1"=4'	APPROVED JEL
	DATE: JUNE 7, 2024

SHEET

**4**

OF 6 SHEETS

**NOTES:**

- ALL DIMENSIONS OF STANDARD GUARDRAIL COMPONENTS, INCLUDING PANELS, POSTS, OFFSET BLOCKS, BOLTS, NUTS, WASHERS AND HOLES, ARE BASED UPON ENGLISH UNIT CONVERSIONS OF THE AASHTO-AGC JOINT COMMITTEE TASK FORCE 13 REPORT: A GUIDE TO STANDARDIZING HIGHWAY BARRIER HARDWARE ([HTTP://WWW.AASHTOF13.ORG/BARRIER-HARDWARE\\_PHP](http://www.aashtof13.org/barrier-hardware_php)).
- ALL GUARDRAIL MATERIALS SHALL CONFORM TO M.08 UNLESS OTHERWISE INDICATED.
- APPROVAL BY THE ENGINEER IS REQUIRED WHERE A DIFFERING GUARDRAIL CONFIGURATION IS REQUIRED FOR CONSTRUCTABILITY BEYOND THE OPTIONS SHOWN IN THESE STANDARDS OR THE PLANS.
- THE BEGIN OR END STATION LABELS SHOWN IN THESE STANDARDS CORRESPOND TO THE STATION AND OFFSET CALLOUTS SPECIFIED IN THE PLANS.
- USE 12'-6" NOMINAL LENGTH PANELS UNLESS OTHERWISE INDICATED IN THESE STANDARDS OR THE PLANS.
- ALL LAP SPLICES SHALL BE MIDSPAN UNLESS OTHERWISE SHOWN.
- 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.
- STANDARD POSTS SHALL BE STEEL OR TIMBER, UNLESS OTHERWISE INDICATED IN THE PLANS. FABRICATED TO THE DIMENSIONS SHOWN ON POST AND OFFSET BLOCK DETAILS. 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, ANCHORAGES, AND/OR LONG SPAN UNITS.
- DEEP POST SHALL ONLY BE USED WHERE INDICATED IN THESE STANDARDS OR THE PLANS.
- OFFSET BLOCKS, WHERE REQUIRED, SHALL BE TIMBER AND FABRICATED TO THE NOMINAL DIMENSIONS SHOWN ON POST AND OFFSET BLOCK DETAILS. PLASTIC OR COMPOSITE OFFSET BLOCKS OF THE SAME NOMINAL DIMENSIONS THAT ARE LISTED ON THE QUALIFIED CONSTRUCTION MATERIALS LIST MAY BE SUBSTITUTED. 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.
- MILLINGS, WHERE CALLED, SHALL CONFORM TO SECTION 213 OF THE RI STANDARD SPECIFICATIONS. THE MILLINGS SHALL BE INSTALLED WITH A DEPTH OF 4".
- GUARDRAIL DELINEATORS, CONFORMING TO SECTION 901 SHALL BE INSTALLED AT 25' INTERVALS WITHIN 100' OF END TREATMENT OR TRAILING ANCHORAGE AND AT 100' INTERVALS IN ALL OTHER AREAS UNLESS OTHERWISE SHOWN IN THE PLANS.
- MINIMAL OFFSET DISTANCE FROM FACE OF W-BEAM PANEL TO A FIXED (NON-BREAKAWAY) OBJECT SHALL BE 48" FOR TL-2 AND 80" FOR TL-3.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

**GUARDRAIL GENERAL NOTES**

R.I. STANDARD 34.1.0

10/21/2022

Robert Rocchio  
CHIEF ENGINEER  
TRANSPORTATION

**ELEVATION**

**NOTES:**

- SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE RI STANDARD SPECIFICATIONS.
- REVERSE DIRECTION HAS THE SAME DIMENSIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

**STEEL BEAM GUARDRAIL THRIE BEAM TRANSITION PANEL**

R.I. STANDARD 34.3.3

10/21/2022

Robert Rocchio  
CHIEF ENGINEER  
TRANSPORTATION

**NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL, SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "BOOK STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- THE BUFFER SPACES SHOULD BE EXTENDED IF NECESSARY SO THAT THE 100' MAX. TWO-WAY TRAFFIC TAPERS ARE PLACED BEFORE HORIZONTAL (OR CREST VERTICAL) CURVES TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND QUEUES OF STOPPED VEHICLES.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN THE 100' MAX. TWO-WAY TRAFFIC TAPERS IS 25 FEET. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIERS.
- THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
- WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

**TYPICAL LANE CLOSURE ON TWO-LANE ROADWAY**

NOT TO SCALE DATE: 12-23-08

Posted Speed Limit & Location	Distance Between Signs (Feet)		
	A	B	C
30 MPH OR LESS IN URBAN OR RURAL AREA	100	100	100
35 MPH OR GREATER IN URBAN AREA	350	350	350
35 MPH OR GREATER IN RURAL AREA	500	500	500

Speed Limit	Upstream Buffer Space* (Feet)
25 MPH	55
30 MPH	85
35 MPH	120
40 MPH	170
45 MPH	220
50 MPH	280

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
TEMPORARY TRAFFIC CONTROL PLAN

**COMPOST SILT SOCK DETAIL**

NOT TO SCALE

**NOTES:**

- COMPOST SOCK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 8" IN DIAMETER.
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- WHEN PLACING COMPOST SOCK ON SLOPES, USE EROSION CONTROL BLANKET AS SPECIFIED ON PLANS.
- ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
- REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.

**ROADSIDE GUARDRAIL INSTALLATION**

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

R.I. STANDARD 34.1.0 CONT.

10/21/2022

Robert Rocchio  
CHIEF ENGINEER  
TRANSPORTATION

NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE RI STANDARD SPECIFICATIONS.
- SHALL BE IN ACCORDANCE WITH SECTION 213 OF THE RI STANDARD SPECIFICATIONS. THE DEPTH OF MILLINGS SHALL BE 4".
- SINGLE FACED TL-3 OR TL-4 GUARDRAIL SHALL NOT BE OFFSET FROM VERTICAL CURB OR BITUMINOUS BERM UNLESS OTHERWISE SHOWN IN THE PLANS OR THESE STANDARDS.
- IN ORDER TO FACILITATE DESIGN AND CONSTRUCTION, THE OFFSET FROM THE CURB TO FACE OF GUARDRAIL DOES NOT HAVE TO BE SYMMETRICAL BETWEEN SIDES. ONE SIDE MAY BE LOCATED AT THE FACE OF CURB AND THE OPPOSITE MAY BE OFFSET.
- REFER TO STD. 34.1.0 FOR TL-3 THRIE BEAM INSTALLATION AND STD. 34.5.3 & 34.5.4 FOR TL-4 STEEL THRIE BEAM GUARDRAIL INSTALLATIONS.
- TOP OF RAIL HEIGHT MEASURED FROM 1V:10H SURFACE.
- IF OFFSET IS REQUIRED BEHIND BITUMINOUS BERM OR VERTICAL CURB, THE OFFSET SHALL BE 6 FEET MINIMUM. THE GUARDRAIL WILL MEET TL-2 UNDER THIS CONDITION.

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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*Admly L. Freeman*

CONSTRUCTION DETAILS 1  
FOR  
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FRESH MEADOW BROOK  
CULVERT REPAIR  
IN  
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NO.	REVISION	BY	DATE



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JOB NO. 7435.00  
DWG. NO.   
SCALE: N/A

DRAWN BY MWC  
CALCS BY MWC  
APPROVED JEL  
DATE: JUNE 7, 2024

SHEET

**5**

OF 6 SHEETS

