

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATION DATED JULY 2023 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, AND THE INTERIM SPECIFICATIONS UP TO AND INCLUDING (2017), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003), INCLUDING REVISIONS UP TO 12/2019.

MATERIAL STRENGTHS:

CONCRETE:
 CLASS PCC 03340 $f_c = 3,000$ PSI
 CLASS PRC 05062 $f_c = 5,000$ PSI

THE CONCRETE STRENGTH, f_c , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENT OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.

REINFORCEMENT: (ASTM A615 GRADE 60) $f_y = 60,000$ PSI

LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES

FUTURE PAVING ALLOWANCE: NONE

BITUMINOUS CONCRETE OVERLAY: THIS WILL CONSIST OF TWO COURSES, 4" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS), ON 3" HMA S1 TRAFFIC LEVEL 2 (PLACED IN A SINGLE LIFT).

FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS. ALL ELEVATIONS ARE GIVEN IN FEET.

UTILITIES: THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION:

- | | | |
|-----------------|------------------------------|----------------|
| DAN BETTENCOURT | EVERSOURCE ENERGY - ELECTRIC | (860) 447-5739 |
| JIM TOURGEE | FRONTIER COMMUNICATION | (860) 237-5517 |
| KENNY BOLEN | COMCAST | (475) 227-0347 |
| CHRIS WOJCIAK | CONNECTICUT WATER COMPANY | (860) 292-2840 |
| RICH RAMONDETTA | POINT O'WOODS WPCA | (860) 798-5714 |

THE CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO UTILITY RELOCATION WITH THE RESPECTIVE UTILITY COMPANIES.

MASH TEST LEVEL: THE R-B MASH METAL BEAM RAIL MEETS THE TL-3 CRITERIA FOR MASH 2016.

CONCRETE NOTES:

REMAIN IN PLACE FORMS: THE USE OF REMAIN IN PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER, UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES"

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

BRIDGE NUMBER PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE NUMBER SIGNS ON THE SAME POSTS THAT THE STREAM CROSSING SIGNS ARE MOUNTED ON AND FACE TOWARDS TRAFFIC. THE SIGNS SHALL BE 4" X 12" ALUMINUM SHEET METAL WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON A GREEN REFLECTIVE BACKGROUND WITH FIVE NUMERALS (06896). ALL COST ASSOCIATED WITH PROVIDING AND INSTALLING BRIDGE NUMBER SIGNS SHALL BE COVERED UNDER THE ITEM 1208931A SIGN FACE SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING). THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

DESIGNED BY:
 PRIME AE GROUP, INC.
 100 GREAT MEADOW ROAD
 5TH FLOOR
 WETHERFIELD, CT 06109

THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	WINGWALL FOOTINGS & CULVERT CUT-OFF AND RETURN WALLS	PCC03340
ABUTMENT AND WALL CONCRETE	WINGWALL STEMS & RETENTION SILLS	PCC03340

NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE FREQUENCY OF INSPECTION OF ANY OTHER COMPONENTS OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.

COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
FOLLOW NORMAL INSPECTION PROCEDURE	-----

HYDRAULIC SUMMARY DATA

DRAINAGE AREA (SQ. MI.)	0.6
DESIGN FREQUENCY (YEAR)	50
DESIGN DISCHARGE (CFS)	140
AVERAGE DAILY FLOW ELEVATION (FEET) (COMPUTED)	32.5
UPSTREAM DESIGN WATER SURFACE ELEVATION (FEET)	34.8
DOWNSTREAM DESIGN WATER SURFACE ELEVATION (FEET)	32.2

MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
CULVERT	9'-4"	7'-8"	6'-0"	22,000 LB

LEGEND
 - APPROXIMATE BORING LOCATION

ADDENDUM NO. 2

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	1.31.25	ADD SANITARY FORCE MAIN	04.02

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
N. ROSSI
 CHECKED BY:
S. NALITZ
 SCALE AS NOTED



PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 06896, ROUTE 156 OVER ARMSTRONG BROOK

TOWN:
OLD LYME
 DRAWING TITLE:
GENERAL PLAN AND NOTES

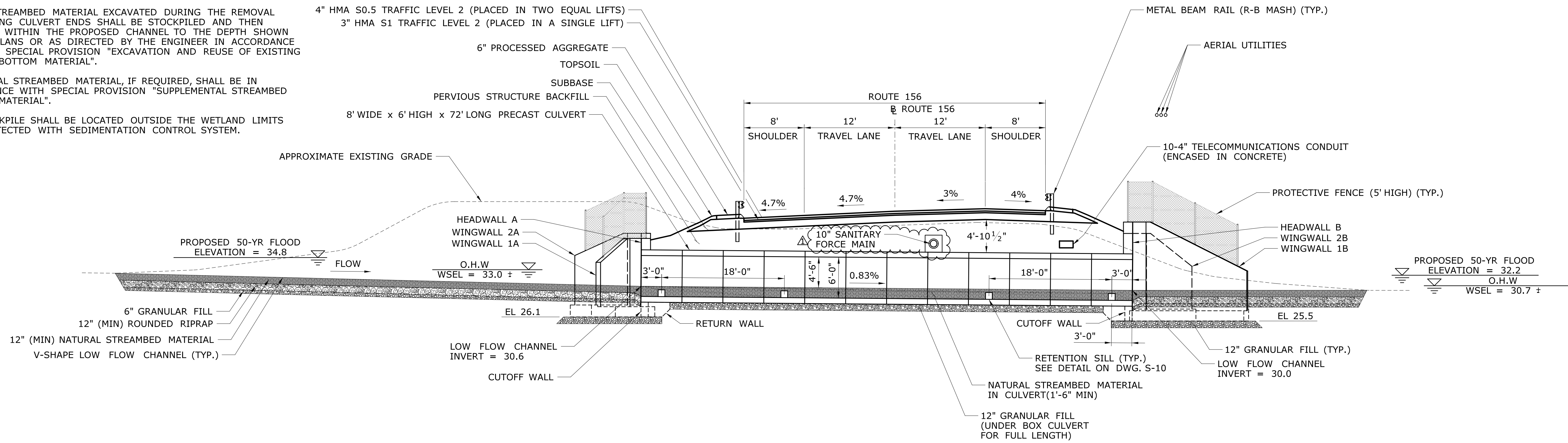
PROJECT NO.
104-175
 DRAWING NO.
S-02
 SHEET NO.
04.02.A2

Plotted Date: 2/6/2025

Filename: ..._SB_MSH_0104_0175_(02)_Br06896-GPE.dgn

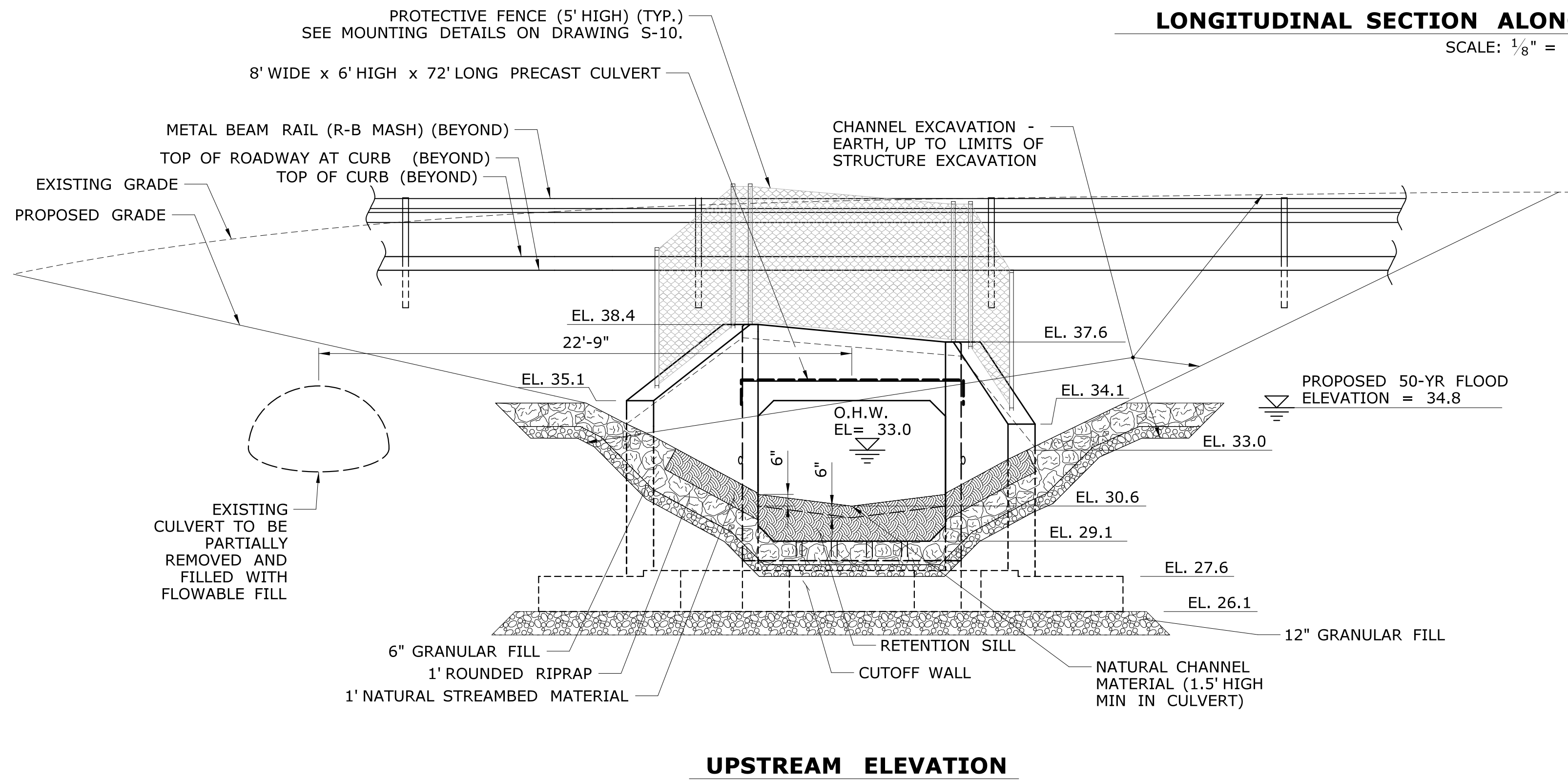
NATIVE STREAMBED MATERIAL NOTES:

1. NATIVE STREAMBED MATERIAL EXCAVATED DURING THE REMOVAL OF EXISTING CULVERT ENDS SHALL BE STOCKPILED AND THEN REPLACED WITHIN THE PROPOSED CHANNEL TO THE DEPTH SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL".
2. ADDITIONAL STREAMBED MATERIAL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION "SUPPLEMENTAL STREAMBED CHANNEL MATERIAL".
3. THE STOCKPILE SHALL BE LOCATED OUTSIDE THE WETLAND LIMITS AND PROTECTED WITH SEDIMENTATION CONTROL SYSTEM.



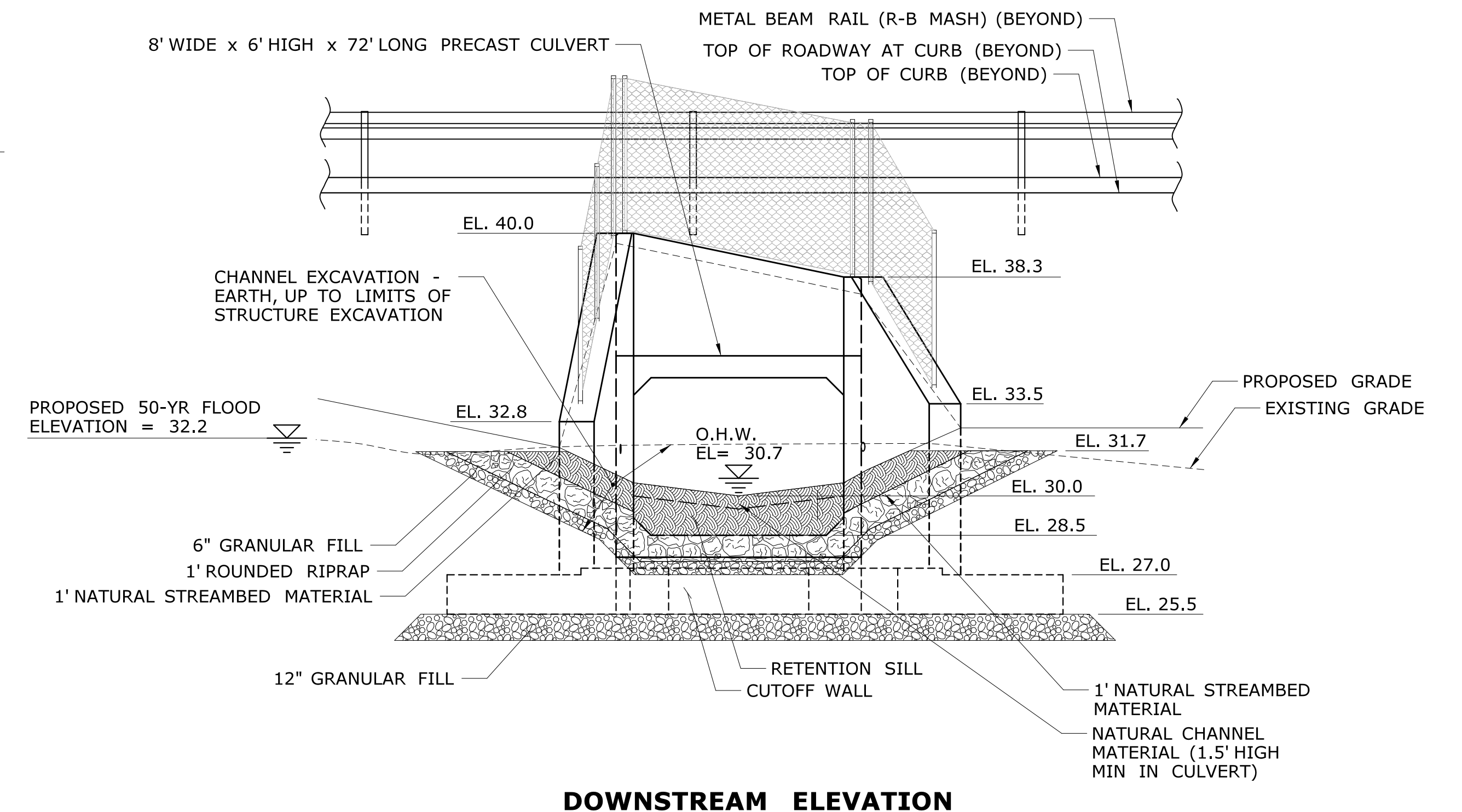
LONGITUDINAL SECTION ALONG CHANNEL CENTERLINE

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



UPSTREAM ELEVATION

SCALE: 1/4" = 1'-0"



DOWNSTREAM ELEVATION

SCALE: 1/4" = 1'-0"

ADDENDUM NO. 2

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	1.31.25	ADD SANITARY FORCE MAIN	04.03

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
N. ROSSI
CHECKED BY:
S. NALITZ
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK:
PRIME AL

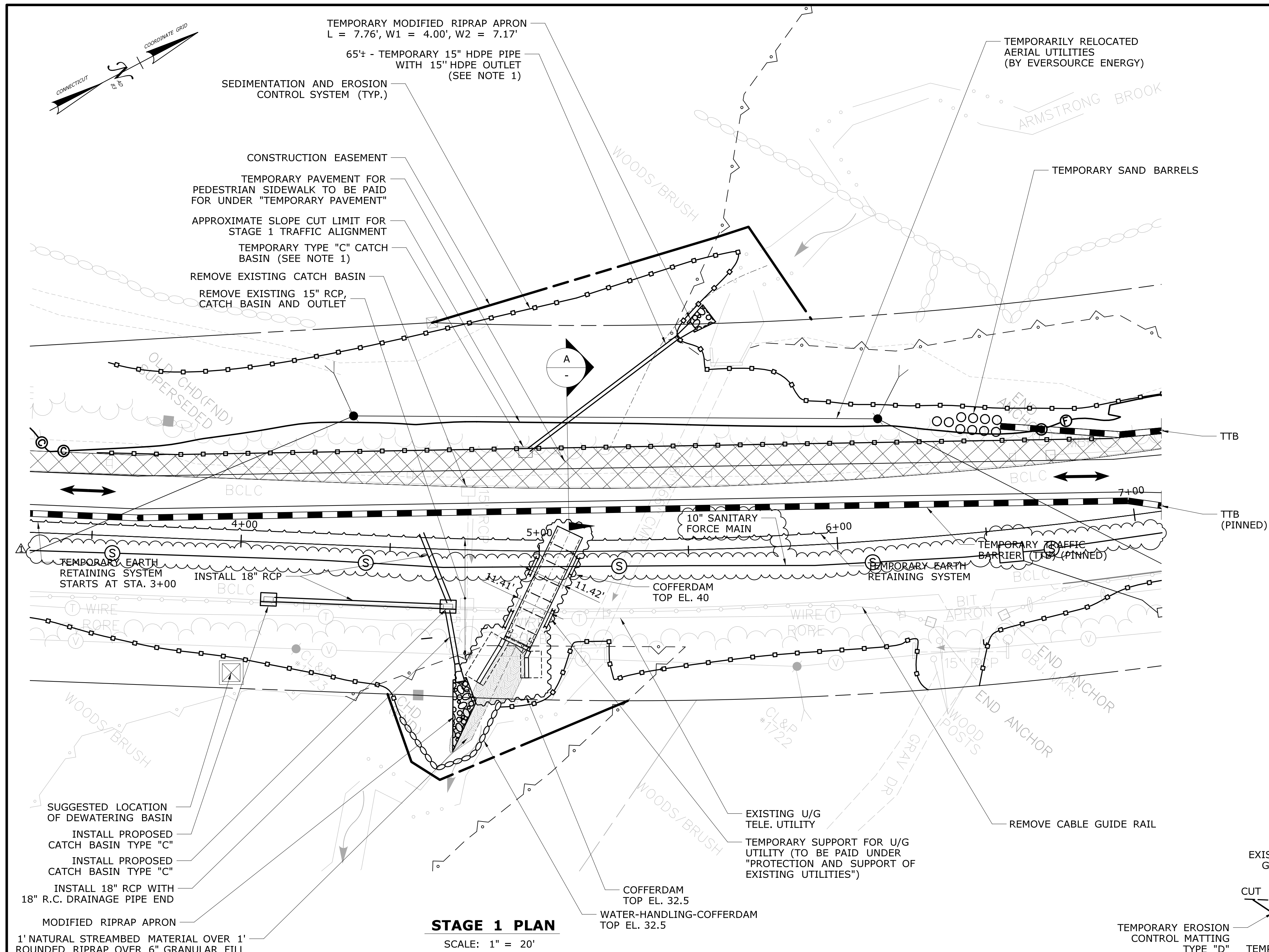
PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 06896, ROUTE 156 OVER ARMSTRONG BROOK

TOWN:
OLD LYME
DRAWING TITLE:
ELEVATIONS AND LONGITUDINAL SECTION

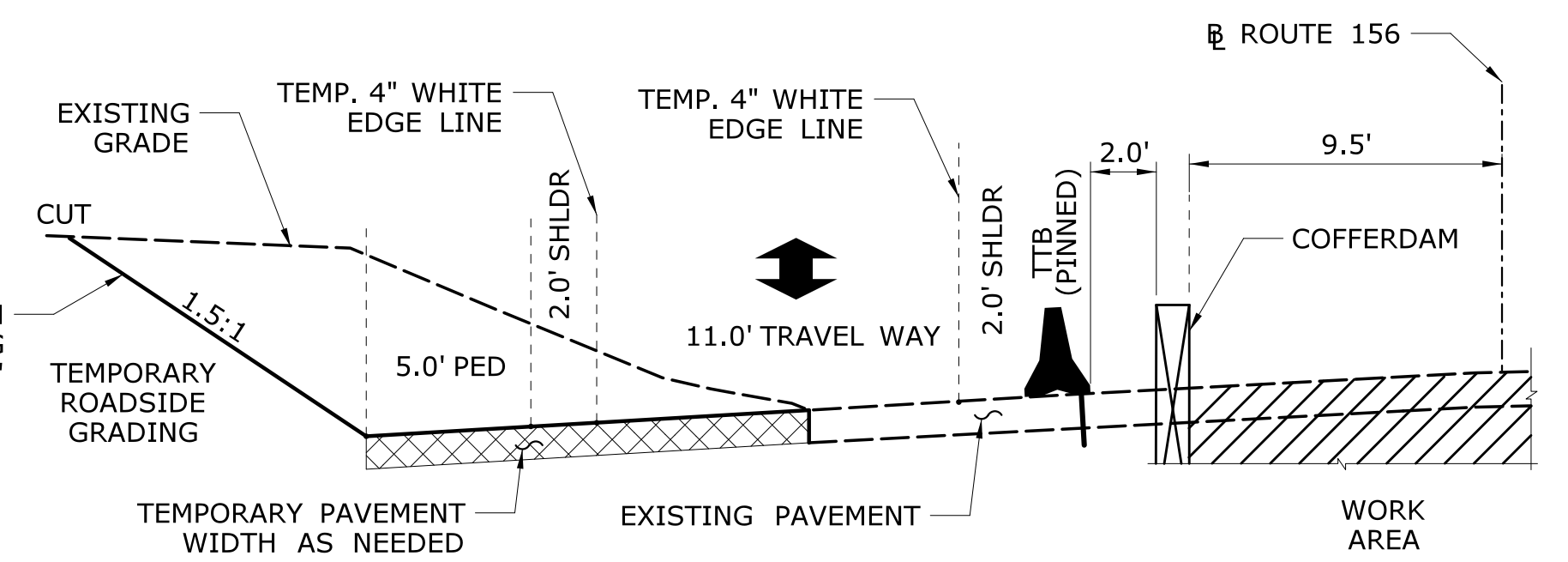
PROJECT NO.
104-175
DRAWING NO.
S-03
SHEET NO.
04.03.A2

SUGGESTED SEQUENCE OF CONSTRUCTION:

- STAGE 1**
1. INSTALL EROSION AND SEDIMENTATION CONTROL SYSTEM, REMOVE INVASIVE SPECIES, CLEAR AND GRUB.
 2. RELOCATE EXISTING UTILITIES.
 3. INSTALL TEMPORARY DRAINAGE SYSTEM (TEMPORARY CATCH BASIN, 15" HDPE PIPE WITH OUTLET AND MODIFIED RIPRAP APRON).
 4. PARTIALLY REMOVE METAL BEAM GUIDE RAIL ALONG NORTH EDGE OF ROADWAY, REGRADE SLOPE AND INSTALL TEMPORARY TRAFFIC BARRIER (TTB).
 5. EXCAVATE FOR STAGE 1 TEMPORARY ROADWAY ALIGNMENT, REMOVE EXISTING NORTH CATCH BASIN, CONSTRUCT TEMPORARY PAVEMENT AND INSTALL EROSION CONTROL MEASURES. TEMPORARY RELOCATE AREAL UTILITIES.
 6. INSTALL MAINTENANCE AND PROTECTION OF TRAFFIC (SEE DRAWING NO. TCP-1, SUBSET 05 - TRAFFIC - BRIDGE NO. 06896).
 7. REMOVE CABLE GUIDE RAIL.
 8. INSTALL COFFERDAM EXCEPT AT EXISTING DRAINAGE SYSTEM.
 9. REMOVE EXISTING DRAINAGE SYSTEM AS SHOWN.
 10. INSTALL REMAINING COFFERDAM.
 11. INSTALL DEWATERING BASIN.
 12. SUPPORT IN PLACE BURIED TELEPHONE UTILITIES.
 13. EXCAVATE AND CONSTRUCT SOUTH HALF OF PROPOSED BOX CULVERT, HEADWALL B, WINGWALLS 1B & 2B AND BACKFILL.
 14. INSTALL 10" SANITARY FORCE MAIN.
 15. PARTIALLY REMOVE COFFERDAM. SEE STAGE 2A FOR LIMITS OF COFFERDAM MATERIAL LEFT IN PLACE.
 16. INSTALL WATER-HANDLING-COFFERDAM DURING LOW FLOW PERIOD.
 17. CUT PORTION OF COFFERDAM MATERIAL LEFT IN PLACE FOR THE LIMITS SHOWN AROUND WINGWALL 1B TO 2.5' BELOW PROPOSED GRADE.
 18. INSTALL ROUNDED RIPRAP AND STREAM BED MATERIAL.
 19. INSTALL PROPOSED DRAINAGE SYSTEM (SOUTH PORTION).
 20. GRADE SOUTH EMBANKMENT UP TO PROPOSED GRADE EL 35. INSTALL PROTECTIVE FENCE ON HEADWALL B, WINGWALLS 1B & 2B.
 21. RELOCATE AERIAL UTILITIES BACK TO EXISTING CONDITIONS.
 22. RELOCATE WATER-HANDLING-COFFERDAM (SEE STAGE 2A FOR RELOCATION).
 23. INSTALL TEMPORARY EARTH RETAINING SYSTEM. RECONSTRUCT ROADWAY AND COMPLETE SOUTH EMBANKMENT GRADING WHERE POSSIBLE. PAVE 3" HMA S1 AND 2" OF HMA S0.5 AND INSTALL BITUMINOUS CURB.
 24. INSTALL PLANTINGS AND SEEDING ALONG EMBANKMENTS AT FINAL GRADE. INSTALL EROSION CONTROL MATTING ALONG EMBANKMENTS AT TEMPORARY GRADE.
 25. INSTALL METAL BEAM GUIDE RAIL (R-B MASH) AS SHOWN IN STAGE 2A.
 26. INSTALL TEMPORARY PAVEMENT FOR PEDESTRIAN SIDEWALK FOR STAGE 2 TRAFFIC ALIGNMENT (SEE DRAWING NO. TCP-2, SUBSET 05 - TRAFFIC - BRIDGE NO. 06896).



STAGE 1 PLAN
SCALE: 1" = 20'



SECTION A
SECTION AT CULVERT BUILD-OUT
SCALE: 1" = 5'

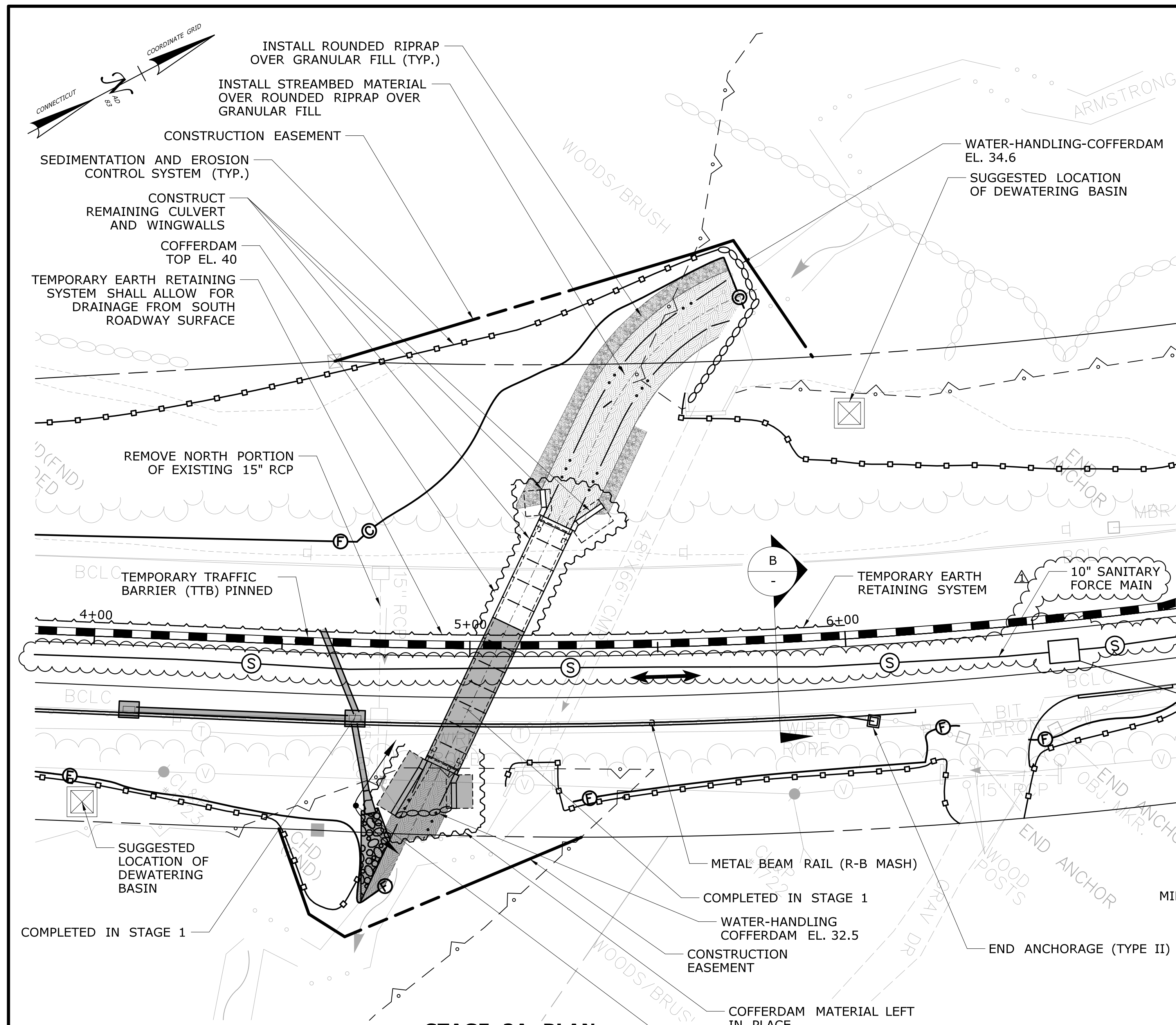
TEMPORARY HYDRAULIC SUMMARY DATA	
AVERAGE DAILY FLOW	1.1 CFS
AVERAGE SPRING FLOW	2.2 CFS
2-YEAR DESIGN FREQUENCY DISCHARGE	40 CFS
SHORT-TERM LOW FLOW PUMPING TEMPORARY DESIGN DISCHARGE = 2 X AVG. DAILY FLOW	2.2 CFS
GRAVITY FLOW BYPASS PIPE TEMPORARY DESIGN DISCHARGE = 2-YEAR FREQUENCY	40.0 CFS
2-YEAR EXISTING WATER SURFACE ELEVATION - UPSTREAM	34.1
2-YEAR EXISTING WATER SURFACE ELEVATION - DOWNSTREAM	32.0

NOTE:
1. TEMPORARY CATCH BASIN AND TEMPORARY 15" HDPE PIPE WITH 15" HDPE OUTLET TO BE PAID FOR UNDER ITEM "TEMPORARY DRAINAGE SYSTEM"

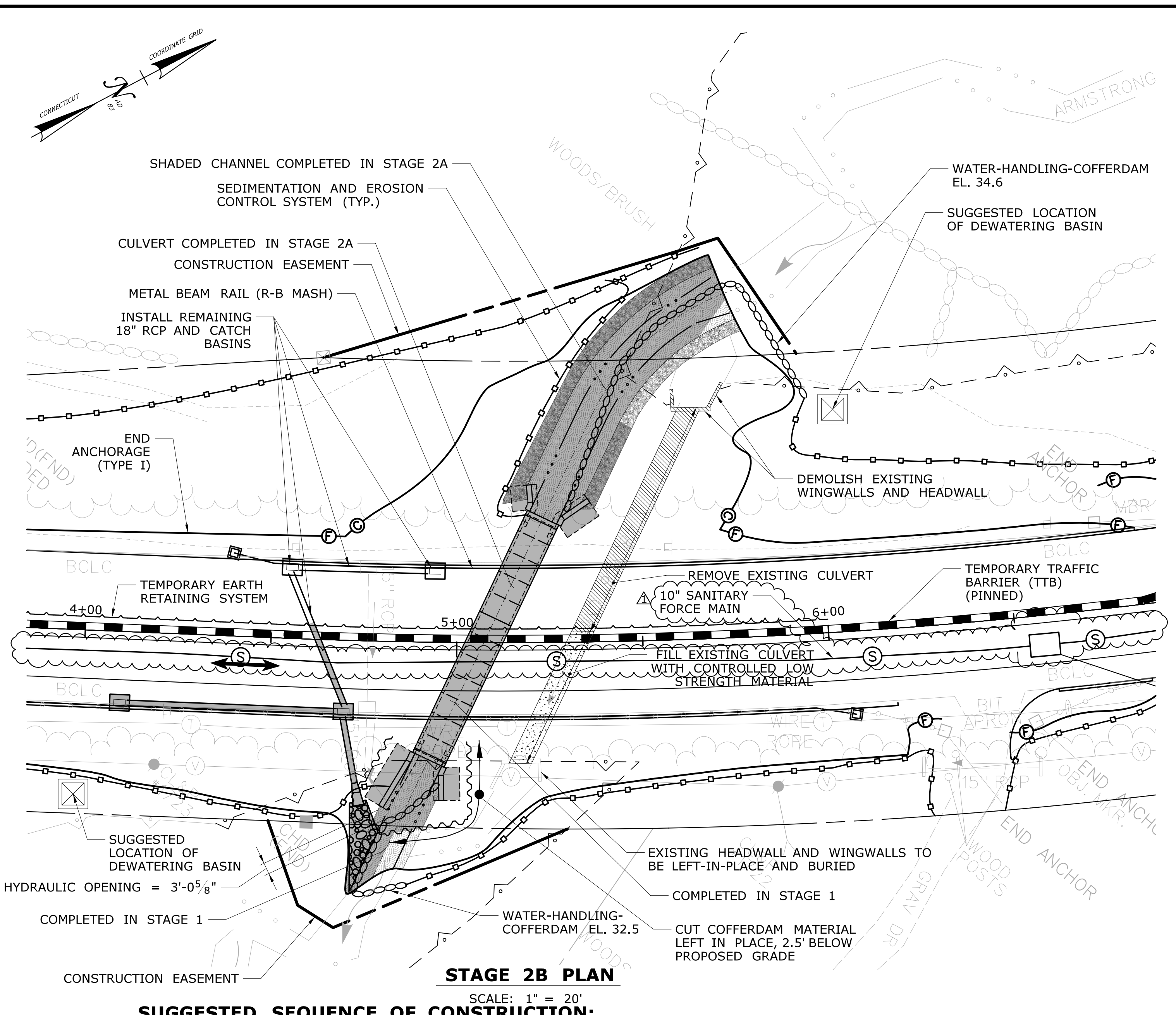
- LEGEND**
- TEMPORARY PAVEMENT
 - TEMPORARY EARTH RETAINING SYSTEM
 - COFFERDAM
 - SEDIMENTATION CONTROL SYSTEM (SCS)
 - STATE/ FEDERAL WETLANDS
 - WETLAND LIMITS
 - EDGE OF STREAM

ADDENDUM NO. 2
ORDINARY HIGH WATER (OHW)

DESIGNER/DRAFTER: N. ROSSI	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>		PROJECT TITLE: <p>REPLACEMENT OF BRIDGE NO. 06896, ROUTE 156 OVER ARMSTRONG BROOK</p>	TOWN: <p>OLD LYME</p>	PROJECT NO. 104-175
CHECKED BY: S. NALITZ					DRAWING NO. S-05
SCALE AS NOTED	FILENAME: ..._SB_MSH_0104_0175_(05)_Br06896-STG&WH-1.dgn		SIGNATURE/BLOCK:	SHEET NO. <p>04.05.A2</p>	
REV. DATE 1.31.25	ADD SANITARY FORCE MAIN REVISION DESCRIPTION	SHEET NO. 04.05	PLOTTED DATE: 2/6/2025	DRAWING TITLE: <p>WATER HANDLING AND STAGING PLAN - 1</p>	PROJECT NO. 104-175 DRAWING NO. S-05 SHEET NO. 04.05.A2



STAGE 2A PLAN
SCALE: 1" = 20'



STAGE 2B PLAN
SCALE: 1" = 20'

SUGGESTED SEQUENCE OF CONSTRUCTION:
STAGE 2B

10. REMOVE PORTION OF EXISTING CULVERT TO THE LIMITS SHOWN AND BACKFILL.
11. FILL THE PORTION OF THE EXISTING CULVERT BELOW THE ROADWAY CONSTRUCTED DURING STAGE 1 WITH CONTROLLED LOW STRENGTH MATERIAL (LIMITS AS SHOWN).
12. REMOVE REMAINING COFFERDAM BETWEEN PROPOSED CULVERT AND EXISTING CULVERT.
13. COMPLETE INSTALLATION OF RIPRAP AND STREAMBED MATERIAL ALONG THE NEW CHANNEL AND GRADE EMBANKMENTS UP TO EL. 35.
14. REMOVE UPSTREAM WATER-HANDLING-COFFERDAM AND DEWATERING BASIN.
15. INSTALL REMAINING PROPOSED DRAINAGE SYSTEM AS SHOWN.
16. RECONSTRUCT ROADWAY.
17. GRADE EMBANKMENTS TO FINAL PROPOSED CONDITIONS, INSTALL PLANTINGS AND SEEDING. INSTALL PROTECTIVE FENCE ON HEADWALL A, WINGWALLS 1A & 2A.
18. REMOVE TEMPORARY EARTH RETAINING SYSTEM.
19. PAVE 3" OF HMA S1.0 AND 2" OF HMA S0.5 (FIRST LIFT) AND INSTALL CURB. FINAL 2" OF HMA S0.5 TO BE COMPLETED AT THE END OF THE PROJECT.
20. INSTALL METAL BEAM GUIDE RAIL (R-B MASH) AND SPLICE TO EXISTING R-B 350 METAL BEAM GUIDE RAIL AT STATION 8+10 AND INSTALL END ANCHORAGE (TYPE I).
21. REMOVE MAINTENANCE AND PROTECTION OF TRAFFIC (SEE DRAWING NO. TCP-2, SUBSET 05 - TRAFFIC - BRIDGE NO. 06896).
22. UTILIZING ALTERNATING ONE-WAY TRAFFIC WITH TRAFFIC PERSONS REMOVE GUIDERAIL AT EXISTING CULVERT ENDWALL AND INSTALL WATER HANDLING COFFERDAM DURING LOW FLOW, CUT THE REMAINING PORTION OF COFFERDAM MATERIAL LEFT IN PLACE TO 2.5' BELOW PROPOSED GRADE, COMPLETE INSTALLATION OF RIPRAP AND STREAMBED MATERIAL. FINALIZE GRADING, PLANTINGS, AND SEEDING. REINSTALL THE REMOVED SECTION OF GUIDERAIL.
23. UTILIZING ALTERNATING ONE-WAY TRAFFIC WITH TRAFFIC PERSONS REMOVE TEMPORARY PAVEMENT FOR TCP-2, REGRADE, AND PERFORM SEEDING.
24. UTILIZING ALTERNATING ONE-WAY TRAFFIC WITH TRAFFIC PERSONS MILL AND OVERLAY FINAL PAVEMENT LIFT. SEE SHEET PLN-01 FOR MILLING LIMITS.
25. REMOVE EROSION AND SEDIMENTATION CONTROLS UPON PERMANENT STABILIZATION.

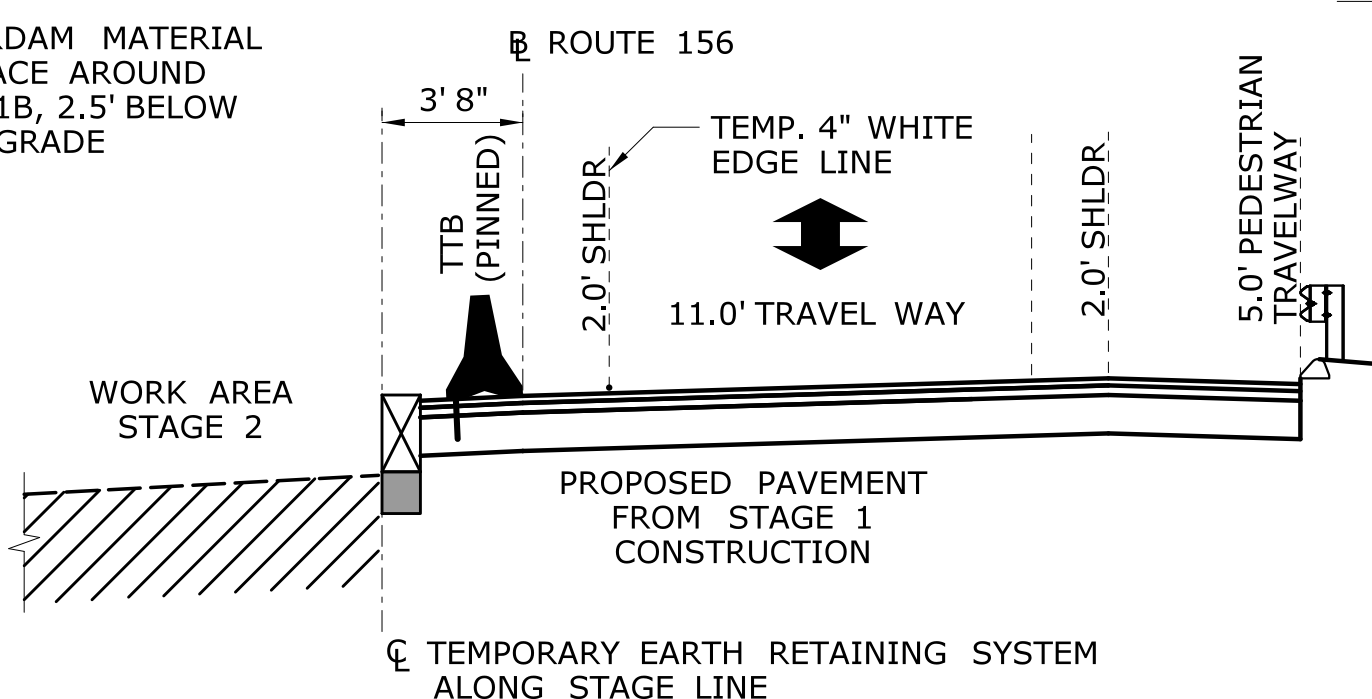
SUGGESTED SEQUENCE OF CONSTRUCTION:

STAGE 2A

1. RELOCATE MAINTENANCE AND PROTECTION OF TRAFFIC (SEE DRAWING NO. TCP-2, SUBSET 05 - TRAFFIC - BRIDGE NO. 06896).
2. REMOVE TEMPORARY DRAINAGE SYSTEM, NORTH PORTION OF EXISTING 15" RCP AND TEMPORARY PAVEMENT FOR STAGE 1 PEDESTRIAN ACCESS.
3. INSTALL UPSTREAM WATER-HANDLING-COFFERDAM.
4. INSTALL COFFERDAM.
5. INSTALL DEWATERING BASIN.
6. CONSTRUCT NORTH HALF OF PROPOSED BOX CULVERT, HEADWALL A AND WINGWALLS 1A & 1B AND BACKFILL.
7. REMOVE UPSTREAM COFFERDAM EXCEPT FOR THE PORTION BETWEEN EXISTING AND PROPOSED CULVERTS.
8. INSTALL RIPRAP AND STREAMBED MATERIAL AT THE UPSTREAM CHANNEL.
9. RELOCATE WATER-HANDLING-COFFERDAMS UPSTREAM AND DOWNSTREAM TO DIRECT STREAM FLOW THROUGH THE PROPOSED CULVERT AS SHOWN IN STAGE 2B.

LEGEND

- TEMPORARY EARTH RETAINING SYSTEM
- COFFERDAM
- SEDIMENTATION CONTROL SYSTEM (SCS)
- STATE/ FEDERAL WETLANDS
- WETLAND LIMITS
- STREAM
- OHW ORDINARY HIGH WATER (OHW)



B TEMPORARY EARTH RETAINING SYSTEM ALONG STAGE LINE
SCALE: 1" = 5'

ADDENDUM NO. 2

1.31.25 REV. DATE	ADD SANITARY FORCE MAIN REVISION DESCRIPTION	04.06 SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: N. ROSSI CHECKED BY: S. NALITZ SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION PRIME AE	SIGNATURE/ BLOCK: 	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 06896, ROUTE 156 OVER ARMSTRONG BROOK	TOWN: OLD LYME	PROJECT NO. 104-175 DRAWING NO. S-06 SHEET NO. 04.06.A2
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