

**BENCHMARK DATA**

BM #1, IPF, STA. 10+43.26, OFFSET 12.67' LEFT, ELEV. = 906.40  
 BM #2, IPF, STA. 15+01.16, OFFSET 12.21' RIGHT, ELEV. = 903.22  
 BM #3, IPF, STA. 18+98.99, OFFSET 14.27' LEFT, ELEV. = 902.52

**NOTES**

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

**DESIGN TRAFFIC:**

2016 ADT = 540      2016 ADTT = 38  
 2036 ADT = 550      2036 ADTT = 39  
 DIRECTIONAL DISTRIBUTION = 53%

**LEGEND**

⊕ APPROXIMATE BORING LOCATION  
 CFCC = CARBON FIBER COMPOSITE CABLE

**HYDRAULIC DATA**

DRAINAGE AREA = 2.81 SQ. MILES      SPILLWAY ELEV. = 910.50  
 TOP OF DAM ELEV. = 925.50

**PROPOSED WORK**

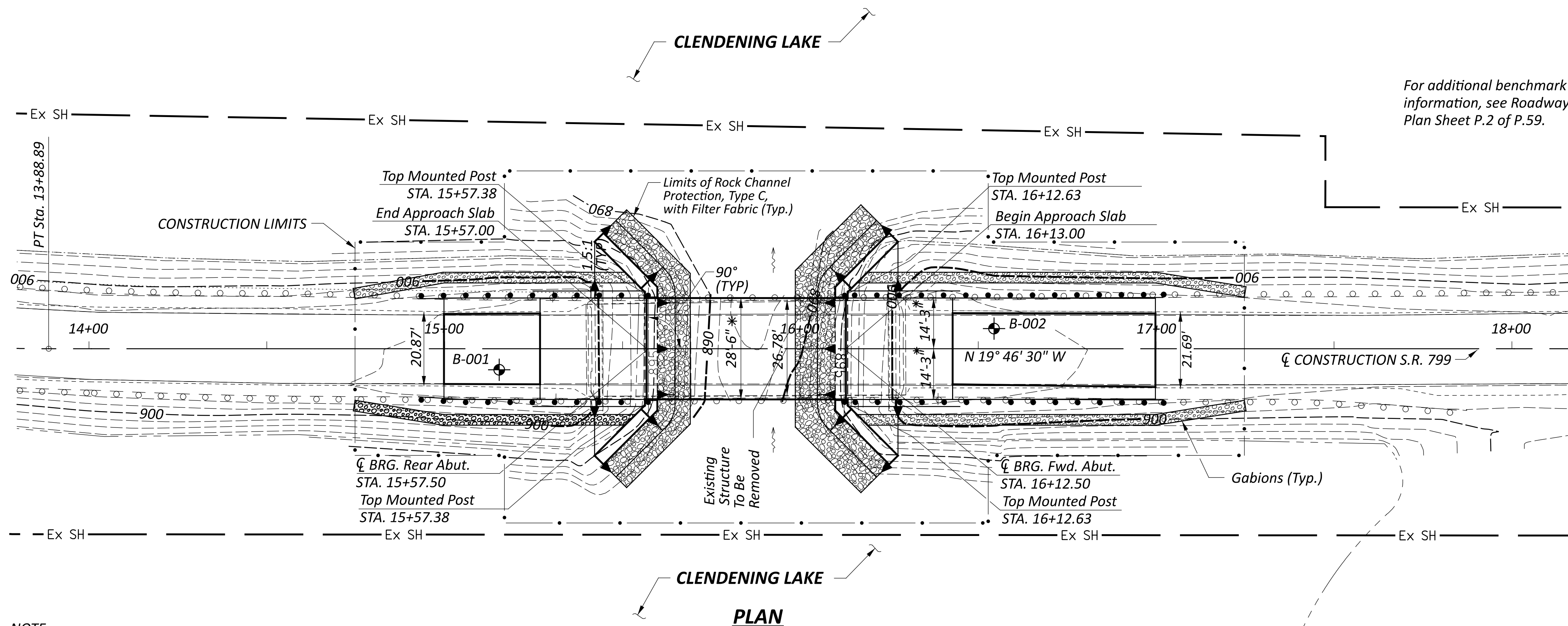
1. REMOVE EXISTING WEARING SURFACE, RAILING, BOX BEAMS, ABUTMENTS, PIER CAPS, AND PORTIONS OF EXISTING PIER PILES.
2. CONSTRUCT NEW ABUTMENTS AND WINGWALLS.
3. INSTALL NEW ABUTMENT BEARINGS.
4. SET BOX BEAMS WITH WATERTIGHT RUBBER SEALS AT ALL DUCT LOCATIONS, AS WELL AS 4"x4"x1" PLYWOOD SPACERS AT LOCATIONS IN PLANS.
5. INSTALL STRANDS IN DUCTS FOR POST-TENSIONING, GROUT JOINTS/ SHEAR KEYS AND ALLOW TO COME TO STRENGTH BEFORE POST-TENSIONING BEAMS.
6. FULLY POST-TENSION TRAVERSELY AT ALL DIAPHRAGM LOCATIONS, GROUT THE DUCTS.
7. CONSTRUCT THE DECK SLAB, ABUTMENT ABOVE THE BRIDGE SEAT AND APPROACH SLABS.
8. INSTALL TWIN TUBE RAILING.
9. SEAL ALL CONCRETE SURFACES.

**EXISTING STRUCTURE**

TYPE: PRESTRESSED CONCRETE BOX BEAMS ON CAPPED PILE ABUTMENTS AND PIERS  
 SPANS: 24'-0", 33'-0", 24'-0" C/C BEARINGS  
 ROADWAY: 26'-8" F/F SAFETY CURB  
 LOADING: HS20-44      SKEW: NONE  
 WEARING SURFACE: 2 3/4" ASPHALT CONCRETE  
 APPROACH SLABS: NONE      ALIGNMENT: TANGENT  
 CROWN: 3/16" PER FOOT      DATE BUILT: 1983  
 STRUCTURAL FILE NUMBER: 3403173  
 DISPOSITION: STRUCTURE TO BE REPLACED

**PROPOSED STRUCTURE**

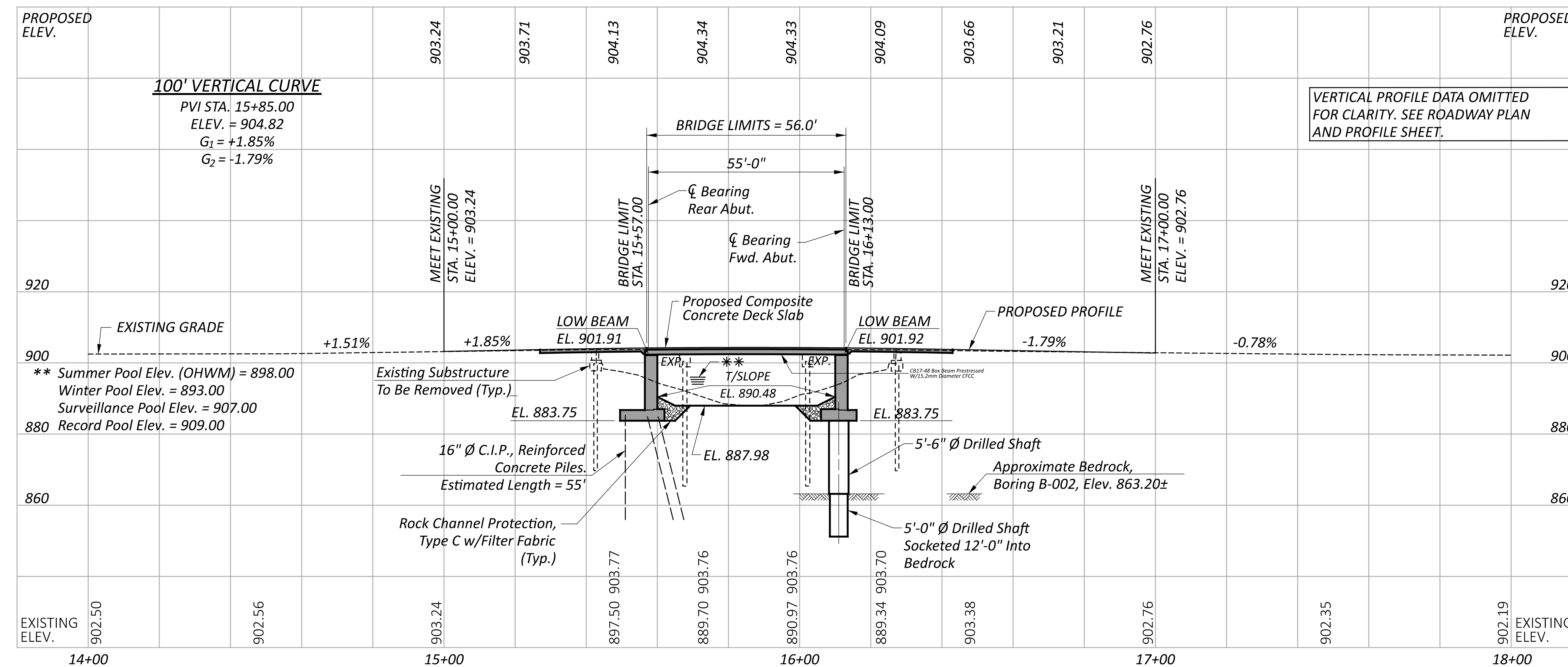
TYPE: SINGLE SPAN PRESTRESSED CONCRETE COMPOSITE BOX BEAMS WITH CFCC STRANDS, TRAVERSELY POST-TENSIONED, WITH SEMI-INTEGRAL WALL TYPE ABUTMENTS SUPPORTED ON CAST-IN-PLACE PILES AND DRILLED SHAFTS  
 SPANS: 55'-0" C/C BEARINGS  
 ROADWAY: 28'-6" F/F GUARDRAIL TOE/TOE PARAPET  
 LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE  
 SKEW: NONE  
 WEARING SURFACE: MONOLITHIC CONCRETE  
 APPROACH SLABS: 30'-0" LONG (AS-1-81)  
 ALIGNMENT: TANGENT      CROWN: 3/16" FT/FT  
 DECK AREA: 1,568 SQ.FT.  
 COORDINATES: LATITUDE 40°14'45.83"N      LONGITUDE 81°12'07.62"W



**PLAN**

NOTE:  
 The pool elevations are maintained by USACE, Huntington District, by controlling the flow at the outlet or spillway. The Contractor is responsible for coordinating construction activities with the owner.

\* Includes 1" gap between beams for post-tensioning



**PROFILE ALONG C SURVEY AND C CONSTRUCTION S.R. 799**

SITE PLAN  
 BRIDGE NO. HAS-799-0380 OVER CLENDENING LAKE  
 STA. 15+57.00 TO STA. 16+13.00

HAS-799-0380

MODEL: SP1316-2, PAPER SIZE: 34x22 (in.), DATE: 1/17/2025 TIME: 8:00:00 AM  
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SFN	3410000
DESIGN AGENCY	Jane C. Smith Consulting, Inc. 9809 English Drive Columbiana, Ohio 43000
DESIGNER	AMM
CHECKER	AMT
REVIEWER	DWS
PROJECT ID	131602
SUBSET	1
TOTAL	21
SHEET	P.25
TOTAL	59