LONGITUDE 40°14'45.83"N

COORDINATES: LATITUDE

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HA
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TOTAL 18+00

PROFILE ALONG | SURVEY AND | CONSTRUCTION S.R. 799

ALIGNMENT:

15+00

14+00

17+00

LONG (AS-1-81)

30'-0"

APPROACH SLABS:

9 0 2

SKEW:

AMT

ROADWAY:

Socketed 12'-0" Into Miami Rock Channel Protection,

Concrete Piles.

Estimated Length = 55'

Semi-Integral Wall Type Abutments Supported on Cast-

With CFCC Strands, Transversely Post-Tensioned, With

Concrete Deck Slab

El. 887.98

Record Pool Elev. = 909.00

EL. 883.75

Surveillance Pool Elev. = 907.00

Winter Pool Elev. = 893.00

To Be Removed (Typ.)

**

T/SLOPE

CB17-48 Box Beam Prestressed

Concrete Deck Slab

El. 890.48

Provision of keyways and key slabs

For clarity, see roadway

For additional benchmark

Huntington District, by controlling the flow

When post-tensioning

Type C, IPF, STA. 900

CROWN:

EXISTING GRADE

I.F.

Minimum width

2036 ADTT = 550

2016 ADTT = 38

2036 ADT = 100

DIRECTIONAL DISTRIBUTION = 65%

LEGEND

APPROXIMATE BORING LOCATION

CFC = CARBON FIBER COMPOSITE CABLE

HYDRAULIC DATA

DRAINAGE AREA = 2.81 SQ. MILES

SPL/WAY ELEV. = 915.50

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 X 3/4" PLUG WOOD SPACERS AT LOCATIONS IN PLANS.

5. INSTALL STRANDS IN DUCTS FOR POST-TENSIONING, GROUT JOINTS/SHARP KEYS AND ALLOW TO COME TO STRENGTH BEFORE POST-TENSIONING BEAMS.

6. FULLY POST-TENSION TRAVELER AT YAT 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", 30'-0", 24'-0" C/C Bearings

ROADWAY: 26'-5" F/F SAFETY CURB

LOADING: HS20-44 SKW: NONE

WEARING SURFACE: 2 3/4" ASPHALT CONCRETE

APPROACH SLABS: NONE ALIGNMENT: TANGENT

CROWN: 3/16" PER FOOT DATE: BUILT: 1983

STRUCTURAL FILE NUMBER: 1903173

DISPOSITION: STRUCTURE TO BE REPLACED

PROPOSED STRUCTURE

TYPE: Single Span Prestressed Concrete Composite Box Beams with CFCC Strands, Transversely Post-Tensioned, With Semi-Integral Wall Type Abutments Supported on Cast-In-Place Piles and Drilled Shafts

SPANS: 55'-0" C/C Bearings

ROADWAY: 26'-11" GUARDRAIL TOE PARAPET

LOADING: 14, 83T and 65 PSF Future Weareign Surface

SKW: NONE

WEARING SURFACE: Monolithic Concrete

APPROACH SLABS: 30'-0" LONG (A-1-91)

ALIGNMENT: TANGENT CROWN: 3/16" F/F

DUCk ANsA: 1,508 SQ.FT

COORDINATES: LATITUDE 40°14'45.83"N LONGITUDE 81°32'07.67"W