

FOR R/W DATA, SEE RDWY. PLANS

Note: The Contractor shall remove a portion of the existing approach embankments as shown. Approximately 440 cubic yards of excavation.

① Temporary Shoring may be required to protect existing embankment during Stage I Construction. Payment for this work, if required, shall be incidental to the various bid items.

② The proposed bridge shall be constructed to avoid interference with the existing piling. The Contractor shall verify measurements before driving any piling. Any adjustments necessary to fit the proposed bridge to the existing bridge location shall be submitted for the Engineer's approval.

GENERAL NOTES

BENCH MARK: Chiseled "Square" in SW corner of bridge, 14.36 feet right of centerline construction Sta. 286+50.01. Elevation 230.46.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2003 edition) with applicable supplemental specifications and special provisions. Unless otherwise noted in the plans, Section and Subsection refer to the Standard Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges (2002 edition).

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor
SEISMIC PERFORMANCE CATEGORY: C

MATERIALS AND STRENGTHS:
Superstructure Concrete (Class S(AE)) $f'_c = 4,000$ psi
Substructure Concrete (Class S) $f'_c = 3,500$ psi
Reinforcing Steel (AASHTO M31 or M53, Gr. 60) $f_y = 60,000$ psi
Structural Steel (AASHTO M270, Gr. 36) $F_y = 36,000$ psi

BORING LOGS: Boring logs may be obtained from the Programs and Contracts Division.

② STEEL SHELL PILING: Piling for Bents 1 through 4 shall be 20" Diameter concrete filled Steel Shell piles and shall be driven with an approved air, steam, or diesel hammer. Drive piles in Bents 1 and 4 to a minimum safe bearing capacity of 50 tons per pile and to a minimum penetration of 20' below bottom of cap. Drive piles in Bents 2 and 3 to a minimum safe bearing capacity of 60 tons per pile and to a tip elevation of 196.0 or lower. Piles in end bents are to be driven after embankment is in place to bottom of cap.

Lengths of piling shown are assumed for estimating quantities only. Actual lengths will be determined in the field. No additional payment will be made for cut-off or build-up. Test piles are not required, but may be driven for the Contractor's information in accordance with Subsection 805.08(g).

Preboring as approved by the Engineer may be required to achieve the minimum penetration. Any cost for preboring shall be included in the item "Steel Shell Piling (20" Dia.)."

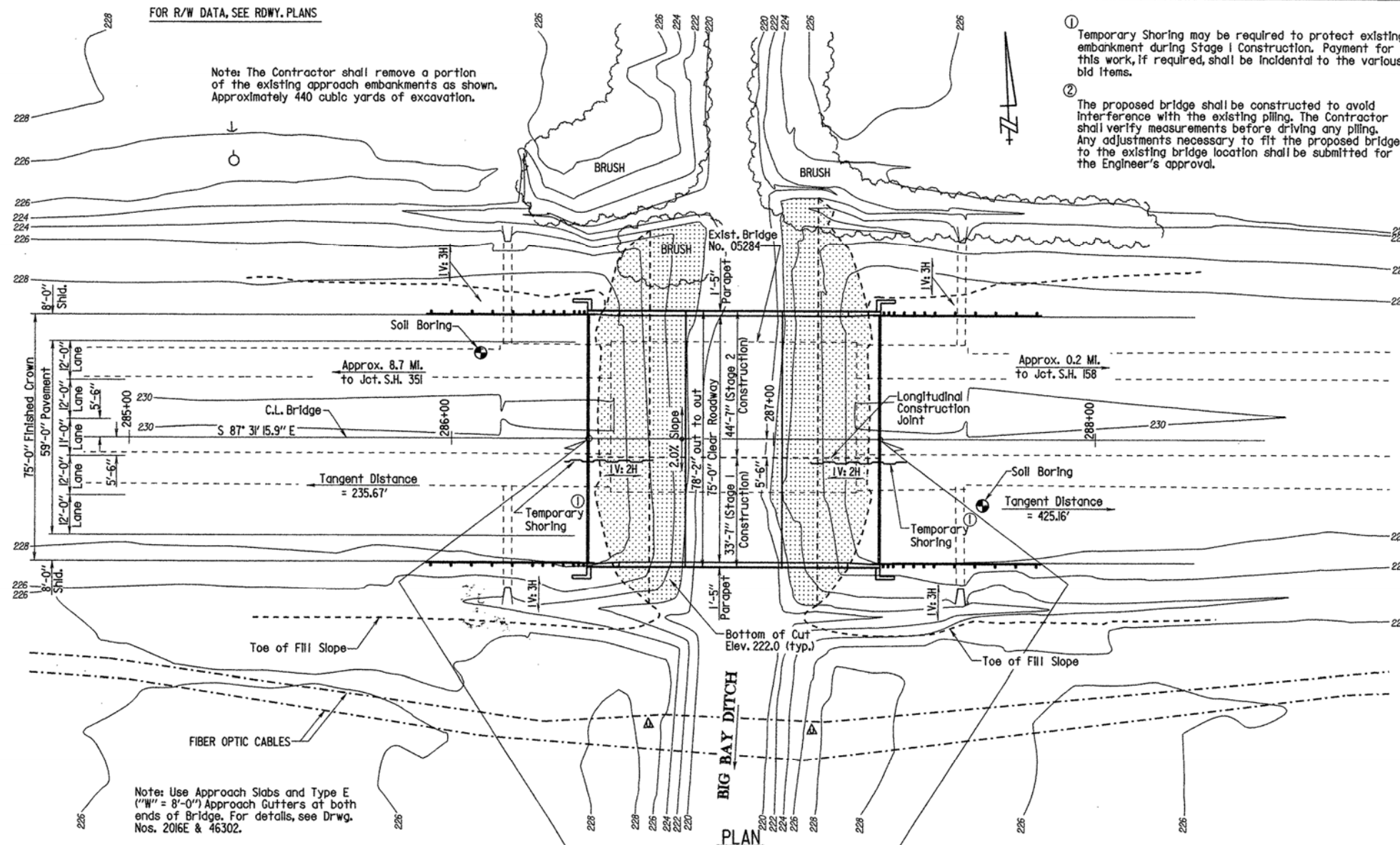
PILE ENCASEMENTS: Pile encasements for Bents 2 and 3 shall extend from bottom of cap to 3' below natural ground line.

BRIDGE DECK: The concrete bridge deck shall be given a fine finish as specified for final finishing in Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish.

DETAIL DRAWINGS: DRAWING NO.
Details of Stage Construction 46287
Bent Nos. 1 & 4 46297, 46299
Bent Nos. 2 & 3 46298
30'-0" R.C. Deck Girder Spans 46294, 46300, 46301
Type E Approach Gutters 2016E
Approach Slabs 46302
Steel Shell Piles 46291

EXISTING BRIDGE: Existing Bridge No. 05284 (log mile 13.43) is 43.0' wide and 75' long and consists of 25' R.C. Slab Spans supported by concrete trestle pile bents. The existing bridge occupies the same location as the proposed new bridge.

REMOVAL AND SALVAGE: Existing Bridge No. 05284 shall be removed in accordance with Section 205. The aluminum railing from the existing bridge shall remain the property of the State. All remaining material from the existing bridge shall become the property of the Contractor.



Note: Use Approach Slabs and Type E ("W" = 8'-0") Approach Gutters at both ends of Bridge. For details, see Drwg. Nos. 2016E & 46302.

Level Grade
C.L. Deck Elev. 232.30
(At C.L. Bridge)

Total Length of Bridge = 90'-0"
Three 30'-0" R.C. Deck Girder Spans

Note: For additional details of Stage Construction, see Drwg. No. 46287.

Note: For Hydraulic Data, see Drwg. No. 46296.

Note: For Soil Borings, Boring Legend and "N" values, see Drwg. No. 46296.

SHEET 1 OF 2
LAYOUT OF BRIDGE
OVER BIG BAY DITCH
HWY. 158 - WEST (S)
CRAIGHEAD COUNTY

ROUTE 18 SEC. 4
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 19 JUN 03 FILENAME: b100303x2.111
CHECKED BY: CAS DATE: 10-03 SCALE: 1" = 20'
DESIGNED BY: JPM DATE: 07-03

BRIDGE NO. 06986

DRAWING NO. 46295



BRIDGE ENGINEER