

DATE REVISED	DATE PRINTED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	191(4)		2	65
				JOB NO.	5617				
				50 5410	LAYOUT			1711	

GENERAL NOTES

BENCH MARK - A CHISELED SQUARE PAINTED NEIA, 5 MILES ALONG HWY. 14 NEAR THE CENTER OF W1/2, SECTION 7, T13N, R3W IN CENTER OF SW CONCRETE CURB, ELEVATION 323.79.

FOOTINGS SHALL BE SET A MINIMUM OF 1' 6" INTO ROCK. ROCK EXCAVATIONS SHALL BE MADE TO NEAT LINES OF CONCRETE FOOTINGS. CARE SHALL BE EXERCISED TO AVOID SHATTERING OF ROCK FACES BY EXCESSIVE BLASTING. CONCRETE IN FOOTINGS SHALL BE POURED DIRECTLY AGAINST EXCAVATED SURFACE OF ROCK.

ALL CONCRETE SHALL BE POURED IN THE DRY.

FOR DETAILS OF END BENTS SEE DWG. NO. 17121
FOR DETAILS OF INTERMEDIATE BENTS SEE DWG. NO. 17122
FOR DETAILS OF 35' R.C. SLAB SPANS SEE DWG. NO. 17119, 17120

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1959, THE 1966 SUPPLEMENTAL SPECIFICATIONS, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHO 1969
LIVE LOADING: H20
UNIT STRESSES: CLAS S CONCRETE (f_{ck}=17) 1,200 PSI
REINFORCING STEEL 20,000 PSI

FOUNDATION PRESSURE - Group III 9.6 ksf, 7.8 ksf
5.3 ksf, 17.1 ksf

PLAN

CONSTRUCT BRIDGE ON 3° CURVE. BENTS SHALL BE CONSTRUCTED ON 45° RT. FWD. SKEW TURNED OFF A RADIAL LINE. CURBS SHALL BE CONCENTRIC ARCS OF 3° CURVE.

NOTE:
REMOVE THE EXISTING 120' BRIDGE. THE EXISTING BRIDGE SUPERSTRUCTURE CONSISTS OF A CONCRETE AND TIMBER DECK ON STEEL AND TIMBER STRINGERS. THE EXISTING BRIDGE HAS A TIMBER SUBSTRUCTURE. SEE SECTION 1006 OF THE STANDARD SPECIFICATIONS.

CONSTRUCT A 90' DETOUR BRIDGE APPROXIMATELY 60' UPSTREAM WITH A MINIMUM DECK ELEVATION 318.5. THE DETOUR SHALL HAVE A 20' MINIMUM ROADWAY AND BE DESIGNED TO HIS LIVE LOAD. SEE SP-1008-1.

HORIZONTAL CURVE DATA

Δ = 91°09' LT.
D = 3°00'
T = 1948.7
L = 3038.3
R = 1909.86
P.I. = 25+04.0

VERTICAL CURVE DATA

-0.65
500 V.C.

ELEVATION

D.A. = 2.60 MI.
Q₅₀ = 3,200 CFS.

Bent Height Dimensions are from point on Top of Cap located below the intersection of E Deck & Bent to Bottom Elev. of Footing.

DRAWN BY: W.W.W. DATE: 11-6-70
TRACED BY: DATE: 12-3-70
CHECKED BY: DATE: 12-3-70
BRIDGE NO. 5410 DRAWING NO. 17111

LAYOUT OF BRIDGE OVER
KIRKLAND CREEK
HWY. 14 BRIDGES
STONE COUNTY
ROUTE 14 SEC. 7
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Viral Pinkerton
BRIDGE ENGINEER

