



PLAN

42

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6-14-88				6	ARK.			
7-6-88	5767-7-88							
JOB NO.						110122	35	57
① 6293 - LAYOUT -						29671		

GENERAL NOTES

BENCH MARK: SQUARE CUT IN S. WHEEL GUARD ON W. END OF THE CACHE RIVER BRIDGE 12 FT. RT. STA. 64+61, ELEV. 185.37.

DESIGN SPECIFICATION: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1993 EDITION WITH CURRENT INTERIMS.

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN LIVE LOAD: HS20-44 DESIGN METHOD: LOAD FACTOR.

CONCRETE: CONCRETE IN THE SUBSTRUCTURE SHALL BE CLASS S. CONCRETE IN THE SUPERSTRUCTURE SHALL BE CLASS S(AE). ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH, $f'c = 3500$ PSI, AND SHALL BE POURED IN THE DRY. UNLESS OTHERWISE NOTED, ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH.

DECK FINISH: THE ROADWAY SURFACE OF THE CONCRETE BRIDGE DECK SHALL BE GIVEN A TIME FINISH AS SPECIFIED FOR FINAL FINISHING IN SUBSECTION 902.23 FOR A CLASS C, ROADWAY SURFACE FINISH.

SOIL BORINGS: ORIGINAL BRIDGE SITE BORING LOGS MAY BE OBTAINED FROM THE PROGRAMS AND CONTRACTS DIVISION UPON REQUEST.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI, OR AS NOTED ON THE DETAIL DRAWINGS).

ALL PILING IN BENTS 2 AND 7 SHALL BE 18" SQUARE PRECAST CONCRETE AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE AND TO A MINIMUM PENETRATION OF 20 FT. BELOW GROUND LINE. PILING SHAPES SHALL NOT BE MIXED.

LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING PURPOSES ONLY. ACTUAL LENGTHS TO BE DETERMINED IN THE FIELD. DRIVE ONE 50 FT. TEST PILE IN BENT NO. 2, ONE 50 FT. TEST PILE IN BENT NO. 3, ONE 50 FT. TEST PILE IN BENT NO. 5, AND ONE 50 FT. TEST PILE IN BENT NO. 7.

PILES IN END BENTS TO BE DRIVEN AFTER EMBANKMENT TO BOTTOM OF CAP IS IN PLACE.

PIILING IN BENTS 1 AND 8 SHALL BE 16" OCT. OR 14" SQUARE AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER TO A MINIMUM PENETRATION OF 44 TONS PER PILE AND TO A MINIMUM PENETRATION OF 20 FEET.

DETAIL DRAWINGS

	DRAWING NOS.
PILING	2383
END BENTS	29672 & 29673
INT. BENTS 2 AND 3	29674
INT. BENTS 4 & 7	29675
75'-0" COMP. W-BEAM SPANS	29676
50'-0" COMP. W-BEAM SPANS	29676

DISPOSITION OF EXISTING BRIDGE (BRIDGE NO. 2561): THE CONTRACTOR SHALL REMOVE THE EXISTING 273' LONG BRIDGE AT LOG MILE 1.5 IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS.

EXISTING BRIDGE CONSIST OF 3- 91' STEEL TRUSS SPANS WITH WOOD AND CONCRETE SUBSTRUCTURE. ALL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

MAINTENANCE OF TRAFFIC: CONSTRUCT A 200' TEMPORARY BRIDGE STRUCTURE APPROXIMATELY 45' DOWNSTREAM. SEE ROADWAY PLANS FOR ALIGNMENT AND GRADE. THE TEMPORARY BRIDGE SHALL HAVE A MINIMUM WIDTH OF 24' AND BE DESIGNED FOR HIS LIVE LOADINGS. SEE SP603-5 OF THE STANDARD SPECIFICATIONS, AND DWS. NOS. 2391, 2391A AND 2392A. MIN. DECK ELEV. TO BE 182.0.

IF TIMBER PILING AND PINE TIMBER ARE USED ON THIS TEMPORARY BRIDGE STRUCTURE, THE MATERIALS SHALL BE TREATED WITH A PRESERVATIVE ACCORDING TO THE STANDARD SPECIFICATIONS.

Sta. 81+40 - 11' Rt. of ℓ Survey

5.5'-6.5', N=4	10.5'-11.5', N=4
15.5'-16.5', N=4	20.5'-21.5', N=9
30.5'-31.5', N=21	35.5'-36.5', N=12
40.5'-41.5', N=26	45.5'-46.5', N=41
50.5'-51.5', N=25	55.5'-56.5', N=25
60.5'-61.5', N=42	65.5'-66.5', N=23
70.5'-71.5', N=31	75.5'-76.5', N=50

Sta. 84+27 - 23' Rt. of ℓ Survey

5.5'-6.5', N=4	10.5'-11.5', N=10
15.5'-16.5', N=7	20.5'-21.5', N=29
25.5'-26.5', N=8	30.5'-31.5', N=29
35.5'-36.5', N=47	40.5'-41.5', N=44
45.5'-46.5', N=31	50.5'-51.5', N=50
55.5'-56.5', N=46	60.5'-61.5', N=36

Sta. 83+70 - 20' Rt. of ℓ Survey

5.5'-6.5', N=4	10.5'-11.5', N=4
15.5'-16.5', N=6	20.5'-21.5', N=14
25.5'-26.5', N=8	30.5'-31.5', N=32
35.5'-36.5', N=32	40.5'-41.5', N=31
45.5'-46.5', N=32	50.5'-51.5', N=22
55.5'-56.5', N=30	60.5'-61.5', N=38
65.5'-66.5', N=38	70.5'-71.5', N=38
75.5'-76.5', N=51	

Sta. 85+20 - 8' Rt. of ℓ Survey

5.5'-6.5', N=4	10.5'-11.5', N=4
15.5'-16.5', N=2	20.5'-21.5', N=17
25.5'-26.5', N=8	30.5'-31.5', N=11
35.5'-36.5', N=23	40.5'-41.5', N=45
45.5'-46.5', N=53	50.5'-51.5', N=39
55.5'-56.5', N=35	60.5'-61.5', N=32

- BORING LEGEND**
- A. MOIST, SOFT, BROWN SILTY CLAY WITH SOME ORGANIC MATTER (FILL MATERIAL)
 - B. MOIST, SOFT, BROWN AND GRAY SILTY CLAY WITH SOME ORGANIC MATTER
 - C. WET, VERY LOOSE, GRAY AND BROWN SAND
 - D. WET, LOOSE, GRAY SAND
 - E. WET, MEDIUM DENSE, GRAY SAND
 - F. WET, MEDIUM DENSE, GRAY SAND AND GRAVEL WITH SOME CLAY SEAMS
 - G. WET, MEDIUM DENSE, GRAY SAND AND GRAVEL
 - H. WET, DENSE, GRAY SAND AND GRAVEL
 - I. WET, MEDIUM DENSE, GRAY SAND AND GRAVEL WITH SOME ORGANIC MATTER
 - J. MOIST, LOOSE, BROWN SILTY SAND
 - K. WET, VERY LOOSE, BROWN SILTY SAND WITH SOME GRAVEL
 - L. WET, VERY LOOSE, GRAY SAND
 - M. WET, LOOSE, GRAY SAND WITH SOME ORGANIC MATTER
 - N. WET, MEDIUM DENSE, GRAY SAND WITH SOME ORGANIC MATTER
 - O. WET, LOOSE, GRAY SAND WITH SOME GRAVEL
 - P. WET, DENSE, GRAY SAND
 - Q. WET, VERY DENSE, GRAY SAND AND GRAVEL
 - R. MOIST, VERY LOOSE, BROWN SILTY SAND
 - S. WET, LOOSE, BROWN AND GRAY SILTY SAND
 - T. WET, MEDIUM DENSE, GRAY SAND WITH TRACES OF ORGANIC MATTER
 - U. WET, DENSE GRAY SAND AND GRAVEL WITH TRACES OF ORGANIC MATTER
 - V. ASPHALT PAVEMENT
 - W. MOIST, SOFT, BROWN AND GRAY SANDY CLAY WITH SOME ORGANIC MATTER (FILL MATERIAL)
 - X. MOIST, SOFT, BROWN AND GRAY SANDY CLAY
 - Y. MOIST, VERY LOOSE, GRAY CLAYEY SAND
 - Z. WET, MEDIUM DENSE, GRAY SAND WITH SOME GRAVEL
 - AA. WET, VERY DENSE, GRAY SAND

ALTERNATE NO. 2
SHEET 2 OF 2
LAYOUT OF BRIDGE
OVER CACHE RIVER

WOODRUFF COUNTY
ROUTE 38 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: LDF DATE: 7-24-87
 CHECKED BY: UAS DATE: 2-26-88
 DESIGNED BY: DATE: _____

BRIDGE NO. 6293 DRAWING NO. 29671

SCALE: 1" = 20'-0"