

COMPANY\1999 JOBS\99-044 AHTD\WHITERIVER\JOB 110395\Gennotes Alt1 ACAD SCALE: 1/2"=1'-0"

GENERAL NOTES

BENCH MARK: T.B.M. #907 "C.P. in 6" Hackberry" 38.50' Rt. of Sta. 246+05.5893; Elev. 164.43  
T.B.M. #912 "RR Spike in 8" Hickory" 30.28' Lt. of Sta. 295+04.2016; Elev. 160.34

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department  
Standard Specifications for Highway Construction (2003 edition) with applicable  
supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges (2002 edition) with  
current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor  
Seismic Performance Category: B

MATERIALS AND STRENGTHS:

Class S Concrete (substructure)	f'c = 3,500 psi
Class S(AE) Concrete (superstructure)	f'c = 4,000 psi
Class S Concrete (Prestressed Girders)	f'c = 5,000 or 6000 psi (see details)
Reinforcing Steel (M31 or M53, Gr. 60)	fy = 60,000 psi
Structural Steel (M270, Gr. 50W)	Fy = 50,000 psi
Structural Steel (M270, Gr. 36)	Fy = 36,000 psi

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

DETAIL DRAWINGS: DRAWING NO.

End Bents	47030-47031
Intermediate Bents	47032-47051
308'-0" Prestressed Concrete Girder Units	47052-47062
284'-0", 330'-0" & 368'-0" Prestressed Concrete Girder Units	47063-47077, 47065A, 47073A, 47077A, 47077B
363'-0" Prestressed Concrete Girder Units	47078-47084
386'-0" Cont. Comp. Plate Girder Unit	47085-47094, 47093A
Expansion Joints	47095-47097
Finger Joints	47098-47099
Details of Elastomeric Bearing Pads w/ Shear Blocks	47100-47103
Details for Concrete Piles	47187
Type Special Approach Slabs and Gutters	47104-47105

CONCRETE PILING: Piling for White River Bridge Bents 1-80 shall be 18" square precast  
prestressed concrete piles and shall be driven with an approved air, steam, or diesel  
hammer to a minimum ultimate bearing capacity of 150 tons per pile. The driving system  
approval and the ultimate bearing capacity shall be based on the requirements of Section  
805.09)c) (Method C "Dynamic Load Test").

Drive a 40' Dynamic Test Pile at White River Bent 12. Drive 40' Test Piles at White River Bents 3, 7, 16,  
20 and 24.

The Dynamic Test Pile at White River Bent 12 shall be used to approve the proposed driving system  
before all Test Piles and piles for White River Bents 1-27 are driven.

Drive a 48' Dynamic Test Pile at White River Bent 39. Drive a 47' Test Pile at White River Bent 30,  
a 40' Test Pile at White River Bent 34 and a 48' Test Pile at White River Bent 43.

The Dynamic Test Pile at White River Bent 39 shall be used to approve the proposed driving system  
before all Test Piles and piles for White River Bents 28-47 are driven.

Drive a 41' Dynamic Test Pile at White River Bent 54. Drive 41' Test Piles at White River Bents 49  
and 58.

The Dynamic Test Pile at White River Bent 54 shall be used to approve the proposed driving system  
before all Test Piles and piles for White River Bents 48-60 are driven.

Drive a 48' Dynamic Test Pile at White River Bent 65. Drive a 46' Test Pile at White River Bent 61  
and a 48' Test Pile at White River Bent 68.

The Dynamic Test Pile at White River Bent 65 shall be used to approve the proposed driving system  
before all Test Piles and piles for White River Bents 61-69 are driven.

Drive a 41' Dynamic Test Pile at White River Bent 76. Drive 41' Test Piles at White River Bents 72,  
78 and 80.

The Dynamic Test Pile at White River Bent 76 shall be used to approve the proposed driving system  
before all Test Piles and piles for White River Bents 70-80 are driven.

Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field.  
Piles shall be driven a minimum of 20 feet below the bottom of footing. Piling in End Bents  
shall be driven after embankment to bottom of cap is in place. Piling in  
End Bents shall have a minimum penetration of 20' below natural ground.  
Payment for cut-off or build-up of the piling shall be based upon the Standard Specifications.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
					ARK.			
					JOB NO.	110395	25	243
				06830	GENERAL NOTES		47023	

FOOTINGS: The top of footings for bents shall be a minimum of 5 feet below the natural ground.  
At bents with significant ground slope, the top of footings shall be a minimum 2 feet below the natural ground.  
Backfilling after construction of bents shall be to the natural ground profile.  
Foundation for the footing shall be set in accordance with Section 801.04 of the Standard Specifications.

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

CLASS I PROTECTIVE SURFACE TREATMENT. Treatment shall be applied to the roadway surface and to the  
roadway face and the top of the concrete parapet rail.

MAINTENANCE OF TRAFFIC: See Roadway Plans.

ABANDONED RR TRESTLE: There are remnants of an abandoned RR trestle located west of the existing RR  
embankment. Piling and other ruins may exist below ground surface. Remove existing piling and ruins as  
necessary to avoid interference with new construction work. This work shall not be paid for directly, but  
shall be considered subsidiary to other items in the Contract. Removed material shall be disposed of as  
provided in Subsections 104.07 and 201.04.



ALTERNATE NO. 1  
GENERAL NOTES

WHITE RIVER STR. & APPRS.  
(CLARENDON) (PH III) (F)  
MONROE COUNTY

ROUTE 79 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

Engstrom/Modjeski and Masters, Inc.

DRAWN BY: FS	DATE: Sep. 10	FILENAME: b1103951_112
CHECKED BY: Y0	DATE: Sep. 10	SCALE: 1/2"=1'-0"
DESIGNED BY: FS	DATE: Sep. 10	
BRIDGE NO. 06830	DRAWING NO. 47023	

BRIDGE ENGINEER