

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		110387	31	96
				① 06978 - GENERAL NOTES - 46111				

GENERAL NOTES

BENCH MARK: 920 ST DISC STMPD NUT, 69.82' Rt. of Sta. 118+63.28, Elev. 189.02.

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, section and subsection numbers in the plans refer to the Standard Construction Specifications.

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

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

CONCRETE PILING: Piling for Bents 1 through 6 shall be 18" square precast concrete and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 65 tons per pile. Drive all piles to a minimum penetration of 20' below natural ground. Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Drive one 65' test pile in Bent 1 and one 65' test pile in Bent 4. Piles in end bents to be driven after embankment to bottom of cap is in place.

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 NOS.
End Bents	46112-46115
Intermediate Bents	46116-46119
305'-0" Continuous Composite W-Beam Unit	46120-46124
Elastomeric Bearings	46125-46126
Type C Approach Gutters	2016C
Approach Slab	2018
Concrete Piles	46127

EXISTING BRIDGE: The existing bridge No. 02395 (log mile 4.29) is 31.5' wide and 302' long and consists of a steel beam superstructure supported by a precast concrete pile substructure. The existing bridge is located approx. 50' downstream from the proposed site of the new bridge.

The existing bridge No. 02399 (log mile 16.64) is 29.5' wide and 92' long and consists of a steel beam superstructure supported by a precast concrete pile substructure. The existing bridge is located approx. 12.5 miles from existing bridge No. 02395

REMOVAL AND SALVAGE: The existing bridges (No. 02395 & 02399) shall be removed in accordance with section 205. All material from the existing bridge shall become the property of the contractor.

MAINTENANCE OF TRAFFIC: See Roadway Plans.

BORING LEGEND

AI-Moist, Medium Stiff, Brown Clay with Gravel
BI-Moist, Soft, Gray and Brown Silty Clay
CI-Moist, Soft, Gray Silty Clay
DI-Moist, Medium Stiff to Soft, Gray Sandy, Silty Clay
EI-Moist, Stiff, Gray Sandy, Silty Clay
FI-Moist, Stiff, Gray and Brown Clay
GI-Moist, Medium Stiff, Gray Silty Clay
HI-Wet, Loose, Gray Clayey, Silty Sand
JI-Wet, Loose to Medium Dense, Gray Silty Sand with some Clay
KI-Wet, Dense, Gray Sand
LI-Wet, Medium Dense, Gray Sand
MI-Wet, Very Dense, Gray Sand and Pea Gravel
NI-Wet, Medium Dense, Gray Sand and Gravel
PI-Wet, Medium Dense, Gray Sand and Gravel with some Organic Matter
OI-Wet, Medium Dense to Dense, Gray Sand and Gravel
RI-Wet, Medium Dense, Gray and Brown Sand and Gravel
SI-Wet, Dense, Gray and Brown Sand with Traces of Gravel
TI-Moist, Medium Stiff, Brown Sandy, Silty Clay
UI-Moist, Very Loose, Brown Silty Sand with Clay Seams
VI-Wet, Soft, Brown Sandy, Silty Clay
WI-Wet, Very Soft, Gray Sandy, Silty Clay
XI-Wet, Medium Stiff, Gray Sandy, Silty Clay
YI-Wet, Medium Dense, Gray Silty Sand with Clay Seams
ZI-Wet, Stiff, Gray and Brown Silty Clay
A2-Wet, Stiff, Gray Silty Clay with some Sand
B2-Wet, Loose, Gray Sand with Clay Seams
C2-Wet, Loose, Gray Silty Sand with Traces of Clay
D2-Wet, Medium Dense, Gray Silty Sand with Traces of Clay
E2-Wet, Medium Dense, Gray Silty Sand
F2-Wet, Medium Dense, Gray Sand with Clay Seams
G2-Wet, Dense, Gray Sand with Traces of Gravel
H2-Wet, Medium Dense, Gray Sand with Traces of Gravel and Organic Matter
J2-Wet, Dense, Gray Sand and Gravel

"N" VALUES

* Sta. 115+29.18 - 16.2' Right of Center Line of Construction

3.6- 4.6, N=5
8.6- 9.6, N=3
15.5- 16.5, N=4
20.5- 21.5, N=5
25.5- 26.5, N=4
30.5- 31.5, N=9
35.5- 36.5, N=7
40.5- 41.5, N=9
45.5- 46.5, N=16
50.5- 51.5, N=33
55.5- 56.5, N=25
60.5- 61.5, N=51
65.5- 66.5, N=28
70.5- 71.5, N=24
75.5- 76.5, N=11
80.5- 81.5, N=25
85.5- 86.5, N=32
90.5- 91.5, N=30
95.5- 96.5, N=49
100.5-101.5, N=28

* Sta. 118+76.62 - 86.4' Right of Center Line of Construction

4.9- 5.9, N=8
9.9- 10.9, N=4
15.5- 16.5, N=3
20.5- 21.5, N=0
25.5- 26.5, N=5
30.5- 31.5, N=24
35.5- 36.5, N=11
40.5- 41.5, N=9
45.5- 46.5, N=9
50.5- 51.5, N=15
55.5- 56.5, N=22
60.5- 61.5, N=18
65.5- 66.5, N=43
70.5- 71.5, N=23
75.5- 76.5, N=25
80.5- 81.5, N=42
85.5- 86.5, N=33
90.5- 91.5, N=28
95.5- 96.5, N=24
100.5-101.5, N=25

* Note: Stations and offsets for boring locations were adjusted for the C.L. Construction shown.



GENERAL NOTES AND BORING LOGS
FOR WALNUT LAKE
WALNUT LAKE & BIG CYPRESS CR.
STRS. & APPRS. (S)
LEE COUNTY

ROUTE 79 SEC. 15
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH	DATE: 3-12-03	FILENAME: B110387.NOT
CHECKED BY: KWH	DATE: 7-29-03	SCALE: NONE
DESIGNED BY: MAH	DATE: March 03	
BRIDGE NO. 06978	DRAWING NO. 46111	