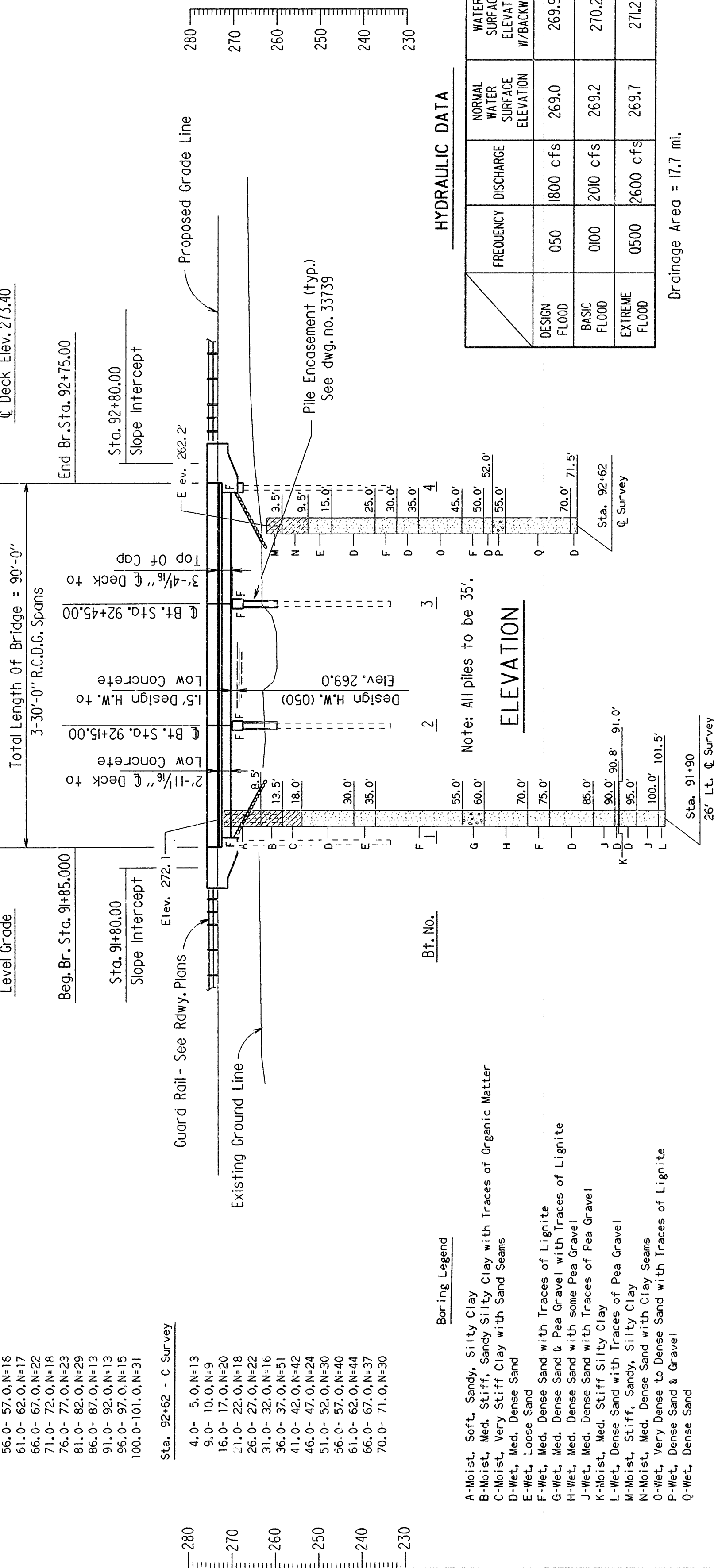
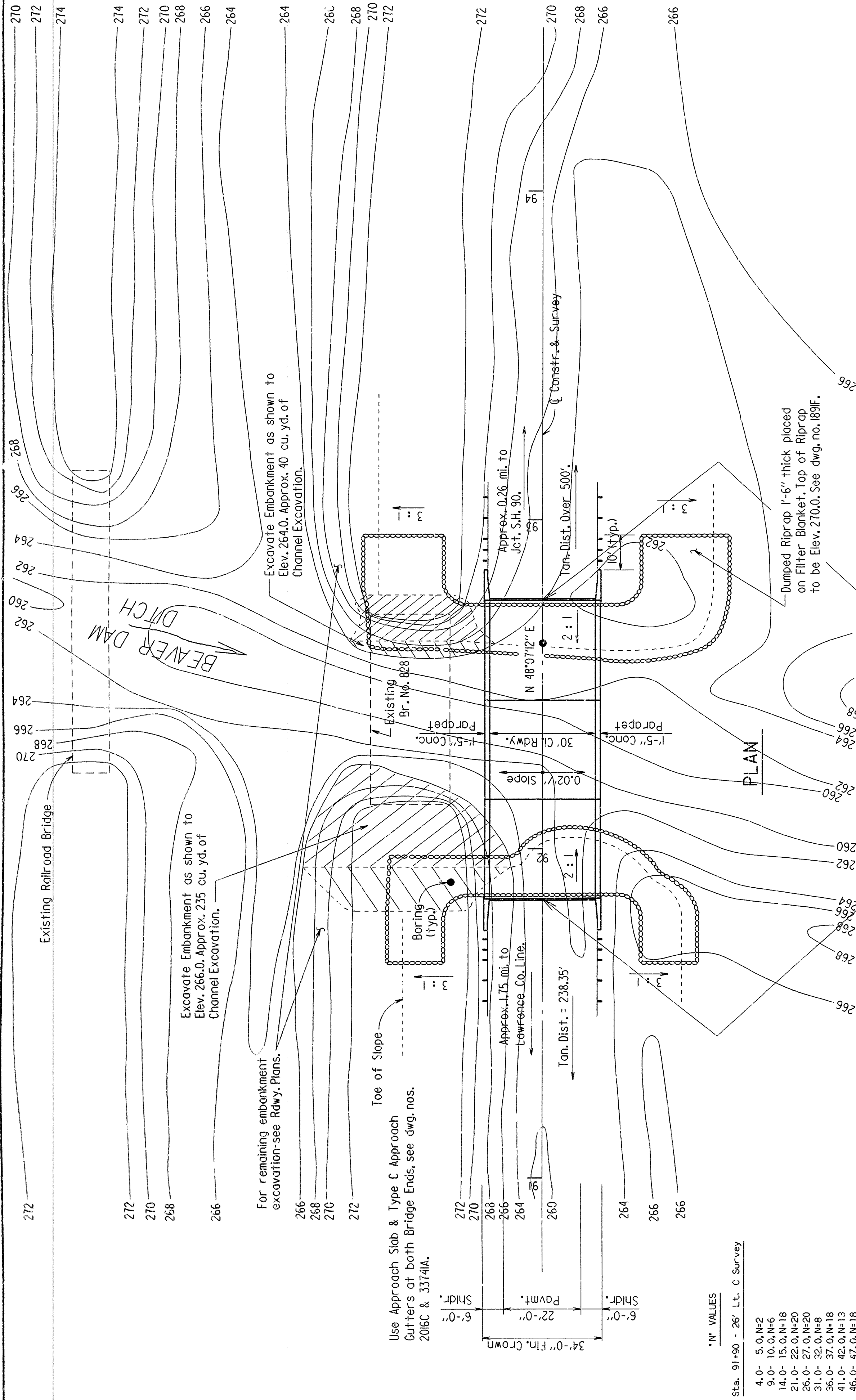


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	STANDARD FORM NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		25	69
				JOB NO.		100206		
				651		LAYOUT	33737	

For R/W Data-See Rdwy. Plans



	FREQUENCY	DISCHARGE	NORMAL WATER SURFACE ELEVATION	WATER SURFACE ELEVATION W/BACKWATER
DESIGN FLOOD	050	1800 cfs	269.0	269.9
BASIC FLOOD	0100	200 cfs	269.2	270.2
EXTREME FLOOD	0500	2600 cfs	269.7	271.2

Drainage Area = 17.7 mi.

GENERAL NOTES

BENCH MARK: C.P.S. in side 10'' pine 84' Lt. centerline Sta. 19+46, Elev. 343.80.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1992 with current inter-im specifications and Supplement A, Standard Specifications for Seismic Design of Highway Bridges.

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 (A615 or A617, GR, 60)
 $f_y = 60,000$ psi

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

PILING: Piling for Bents 1 & 4 shall be 14' diameter Concrete Filled Steel Shell Piling. Piling for Bents 2 & 3 shall be 16' diameter Concrete Filled Steel Shell Piling. All piling shall be driven to a minimum bearing capacity of 44 tons per pile. Piling shall be driven with an approved steel driving cap in place. Piling for Bents 2 & 3 shall be driven after embankment to bottom of caps in place. Piling for Bents 1 & 4 shall be driven after embankment to bottom of caps in place. Piling for Bents 2 & 3 shall have a minimum penetration of 20' below natural ground. Methods of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field.

PILE ENCASEMENT: Pile encasement for Bents 2 & 3 shall extend 3' into the ground and to the bottom of cap. See dwg. no. 33739 for additional data.

BRIDGE DECK: The concrete bridge deck shall be given a tine finish as specified for final finishing in subsection 802.20 for Class 5 Tined Bridge Roadway Surface Finish.

BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the roadway surface and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS:	DRAWING NO.
Substructure	33738 & 33739
Superstructure	33740 & 33741

EXISTING BRIDGE: The existing bridge no. 828 (log mile 1.75) is 21' wide and 59' long and consists of a wood deck & wood substructure.

REMOVAL AND SALVAGE: After the new bridge is opened to traffic, the existing bridge no. 828 shall be removed in accordance with Section 205 of the Standard Specifications. All materials from the existing bridge shall become the property of the Contractor.

For Maintenance of Traffic see Roadway Plans.

LAYOUT OF BRIDGE OVER
BEAVER DAM DITCH
SHANNON-O'KEAN STRS. & APPRS.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.M.J. DATE: 8-4-92
 CHECKED BY: V.W.B. DATE: 2-16-93
 DESIGNED BY: L.R.W. DATE: July-92
 BRIDGE NO. 6531 DRAWING NO. 33737 SCALE: 1" = 20'

BRIDGE ENGINEER

550. 3001.100206. RWMF548. B100206X1.1 01

