

ACAD SCALE: 1/4"=1'-0"

COMPANY\1999 JOBS\99-044 AHTD\WHITERIVER\JOB 110394\dibent92-93.dwg

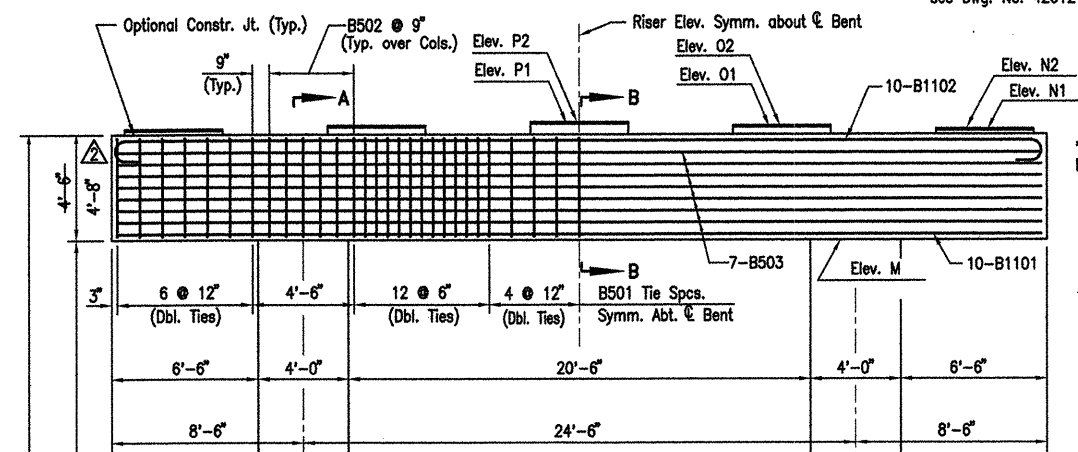
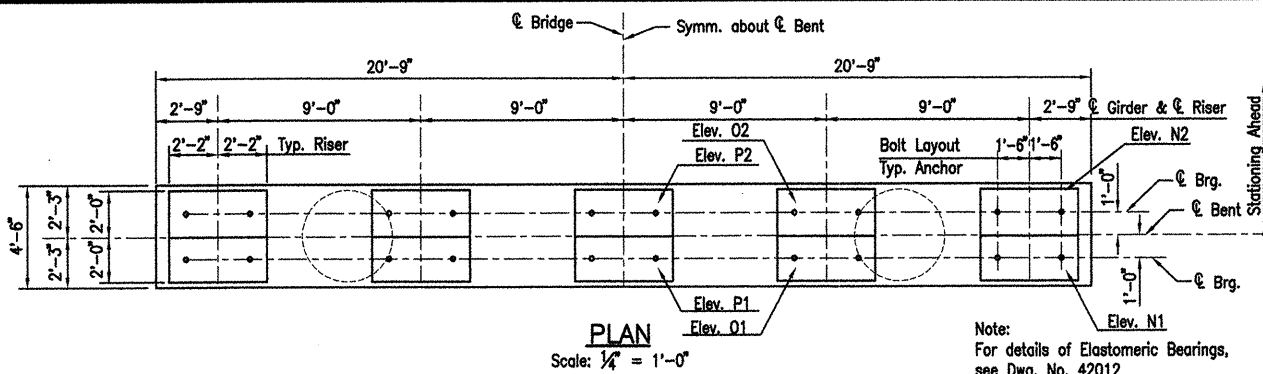
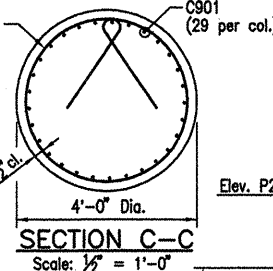
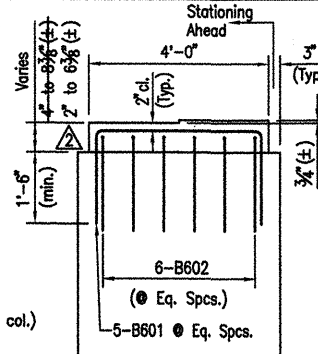


TABLE OF VARIABLES

Variable	Bent No.
A	92
B	93
C	94
D	95
E	96
F	97
G	98
Elev. L	160.42
Elev. M	195.92
Elev. N1	200.81
Elev. O1	200.99
Elev. P1	201.15
Elev. N2	200.75
Elev. O2	200.93
Elev. P2	201.09

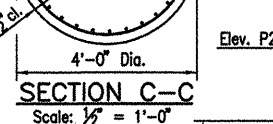
The riser reinforcing steel shall be placed with the bent reinforcing steel. The Contractor has the option to drill and grout the riser reinforcing steel at least 1'-6" into the cap using an approved non-shrink grout or an epoxy grout listed in the QPL. Diameter of hole and installation procedure shall be as recommended by the grout manufacturer. Place bent reinforcing properly to avoid damage. This work shall be paid under "Reinforcing Steel - Bridge".

The Contractor, when casting the concrete risers, must adequately vibrate between all riser reinforcing rows and spaces to thoroughly remove all air pockets and voids, and shall provide a sound and full bearing surface for concrete girders.



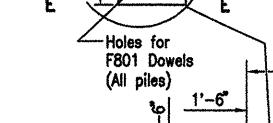
RISER DETAIL

Scale: 1/2" = 1'-0"



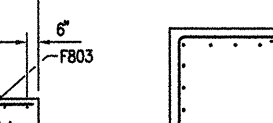
SECTION B-B

Scale: 1/2" = 1'-0"



SECTION D-D

Scale: 1/4" = 1'-0"



SECTION A-A

Scale: 1/4" = 1'-0"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10-15-10	4-4-11				ARK.			
				JOB NO.		110394	60	196
				06830		BENTS		41972

BAR LIST-PER BENT

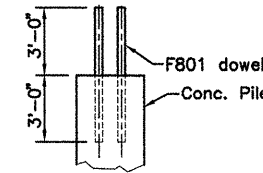
Mark	No.	Req'd	Length	'A'	'B'	P.D.	Bending Diagrams
B501	94	16'-4"	3'-4"	4'-4"	2 1/2"		Dimensions are out to out of bars.
B502	10	12'-9 1/2"	4'-4"	4'-4"	2 1/2"		
B503	14	41'-2"				Str.	
B601	25	7'-4"	3'-8"	2'-0"	4 1/2"		
B602	30	7'-8"	4'-0"	2'-0"	4 1/2"		
B1101	10	41'-2"				Str.	
B1102	10	44'-2"	41'-2"	1'-0 1/2"	11 1/4"		
C501	2	G					
C502	6	12'-6"					
C901	58	C	D	1'-7 1/4"	9"		
F801	72	6'-0"				Str.	
F802	104	14'-4"	12'-6"	8"	6"		
F803	52	12'-6"				Str.	

NOTES:

- All concrete shall be Class "S". All exposed corners to be chamfered 3/4" unless otherwise noted. All concrete shall be poured in the dry.
- All reinforcing steel shall conform to AASHTO M31 or M53, Gr.60.
- If anchor bolts are drilled into cap, top reinforcing bars shall be properly placed to avoid damage.
- For additional information, see Layout.
- Contractor has the option of placing a 6'-0" lap splice in the vertical leg of C901 bars. The splice shall be in the middle half of the column height. This shall be included in "Reinforcing Steel - Bridge".

NOTES FOR SPIRAL REINFORCING

- Ends of spirals in footing and cap shall have 1 1/2 turns and terminate with a 135° hook and a 24" tail as shown in Bar List.
- Spiral reinforcement at splices of bars in the length designated as permissible for lap splices shall be terminated by a 135° hook with a 10" tail hooked around a vertical bar.
- Spiral reinforcement shall be plain round or deformed steel bars meeting the requirements of AASHTO M31 or M53 (Grade 60) or shall be cold drawn wire meeting the requirements of AASHTO M32 or M225 (Grade 70) with a minimum diameter of 0.625".
- Spiral reinforcement shall be paid for at the contract unit price bid per pound for "Reinforcing Steel - Bridge (Grade 60)". No additional payment shall be made for spacers, shipping, handling or erecting.
- Lapped splices in spirals shall be lapped 80 bar diameters minimum.
- Adjust spiral pitch as needed to accommodate footing or cap bars.



SECTION E-E

N.T.S.

Drill and grout F801 dowels 3'-0" into piles using an approved non-shrink grout or an epoxy grout listed in the QPL. Diameter of holes and installation procedure shall be as recommended by the grout manufacturer.



ALTERNATE NO. 1

DETAILS OF BENTS - WHITE RIVER  
BENTS 92 - 93

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

ROUTE 79 SEC. 13  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

Engstrom & Modjeski and Masters, Inc.

DRAWN BY: CJA DATE: Apr. 10 FILENAME: b1103941\_b09  
CHECKED BY: FS DATE: Nov. 07 SCALE: 1/4"=1'-0"  
DESIGNED BY: BMH DATE: Nov. 01  
BRIDGE NO. 06830 DRAWING NO. 41972

BRIDGE ENGINEER