

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4/16/10	6-23-10				ARK.			
				JOB NO.		110503	73	233
				06829	BENTS			41877

BAR LIST-PER BENT

Mark	No.	Req'd	Length	'A'	'B'	P.D.	Bending Diagrams
B501	104	15'-6"	2'-7"	4'-2"	2 1/2"		
B502	8	12'-3 1/2"	4'-2"	4'-2"	2 1/2"		
B503	14	41'-2"			Str.		
B601	66	7'-4"	3'-8"	2'-0"	4 1/2"		
B1101	8	41'-2"			Str.		
B1102	8	44'-2"	41'-2"	1'-0 1/2"	11 1/4"		
C501	2	G					
C502	6	J					
C1001	52	C	D	1'-9 1/2"	9"		
F801	48	6'-0"			Str.		
F802	32	14'-4"	12'-6"	8"	6"		
F803	52	9'-4"	7'-6"	8"	6"		
F804	16	12'-6"			Str.		
F805	26	7'-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.

- 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, splices or bracing needed for assembly, 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.

ALTERNATE NO. 1

DETAILS OF BENTS - ROC ROE
BENTS 2 - 32

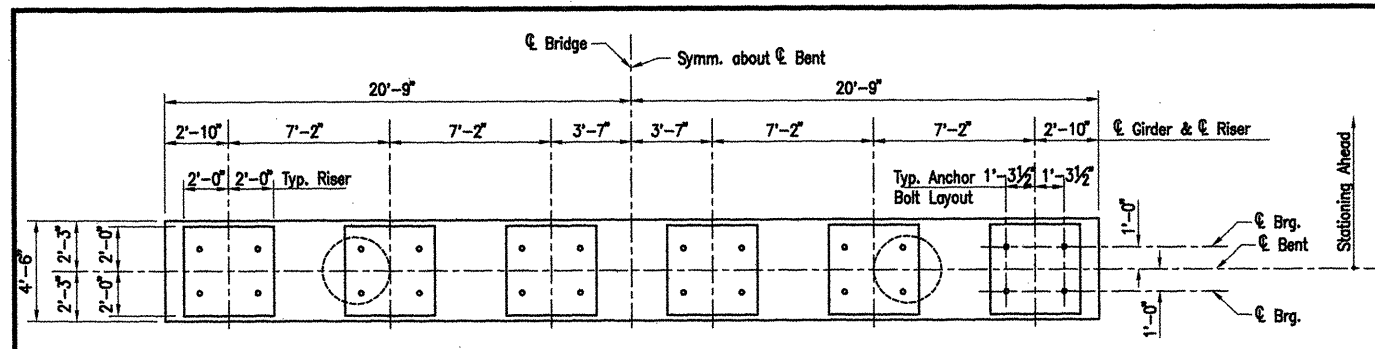
ROC ROE & WHITE RIVER RELIEF
STRS. & APPRS. (CLARENDON) (F)
MONROE COUNTY

ROUTE 79 SEC. 13

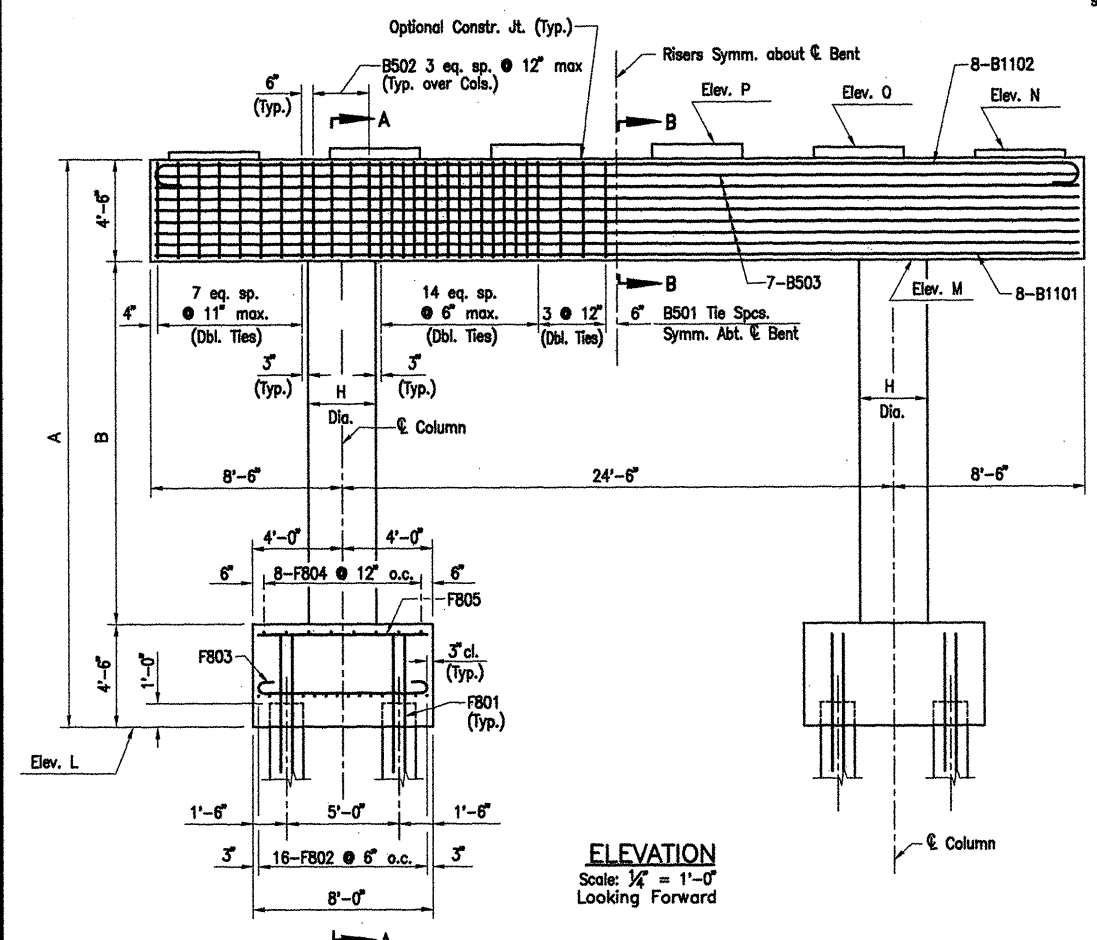
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Engstrom & Modjeski and Masters, Inc.

DRAWN BY: CJA DATE: Sept. 07 FILENAME: b11050311_b1
CHECKED BY: FS DATE: Nov. 01 SCALE: As Noted
DESIGNED BY: BMH DATE: Nov. 01
BRIDGE NO. 06829 DRAWING NO. 41877



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



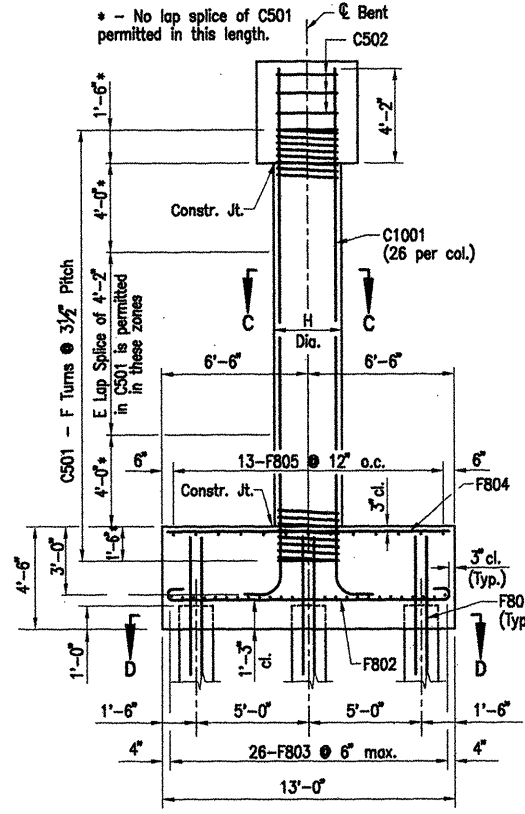
ELEVATION
Scale: 1/4" = 1'-0"
Looking Forward

TABLE OF VARIABLES

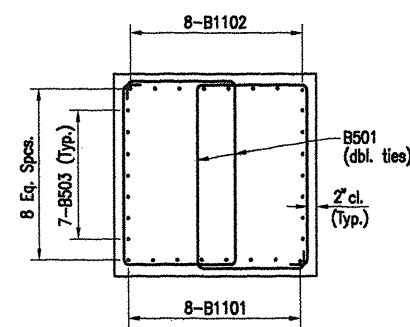
Variable	Bent No.										Variable
	2, 9	3, 16	4-8	10, 11, 17	12, 14, 18, 20 thru 32	13, 19	15				
A	24'-0"	25'-0"	23'-0"	26'-0"	27'-0"	28'-0"	30'-0"	A			
B	15'-0"	16'-0"	14'-0"	17'-0"	18'-0"	19'-0"	21'-0"	B			
C	23'-8"	24'-8"	22'-8"	25'-8"	26'-8"	27'-8"	29'-8"	C			
D	22'-2"	23'-2"	21'-2"	24'-2"	25'-2"	26'-2"	28'-2"	D			
E	7'-0"	8'-0"	6'-0"	9'-0"	10'-0"	11'-0"	13'-0"	E			
F	62	66	59	69	72	76	83	F			
G	520'-3"	552'-1"	498'-4"	575'-11"	599'-10"	631'-8"	690'-3"	G			
H	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	H			
J	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	J			
Elev. L	153.43	152.43	154.43	151.43	150.43	149.43	147.43	Elev. L			
Elev. M	172.93	172.93	172.93	172.93	172.93	172.93	172.93	Elev. M			
Elev. N	177.77	177.77	177.77	177.77	177.77	177.77	177.77	Elev. N			
Elev. O	177.91	177.91	177.91	177.91	177.91	177.91	177.91	Elev. O			
Elev. P	178.05	178.05	178.05	178.05	178.05	178.05	178.05	Elev. P			

The riser reinforcing steel shall be placed with the bent cap 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 holes 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".

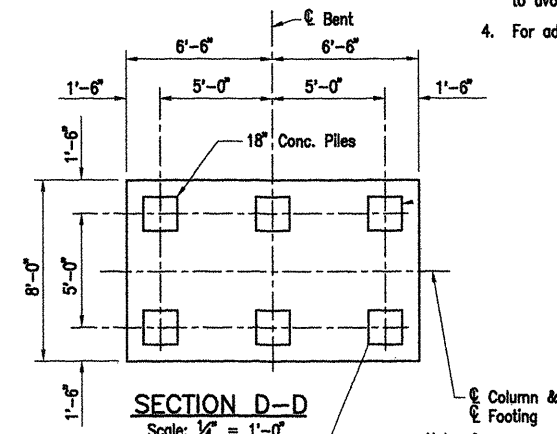
RISER DETAIL
Scale: 1/2" = 1'-0"



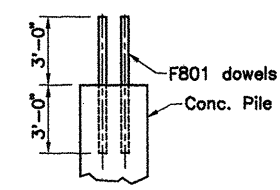
SECTION A-A
Scale: 1/4" = 1'-0"



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

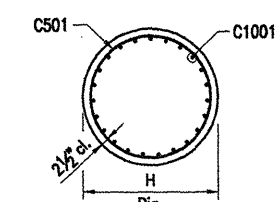


SECTION D-D
Scale: 1/4" = 1'-0"



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 on the QPL. Diameter of holes and installation procedure shall be as recommended by the grout manufacturer.



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

