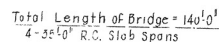
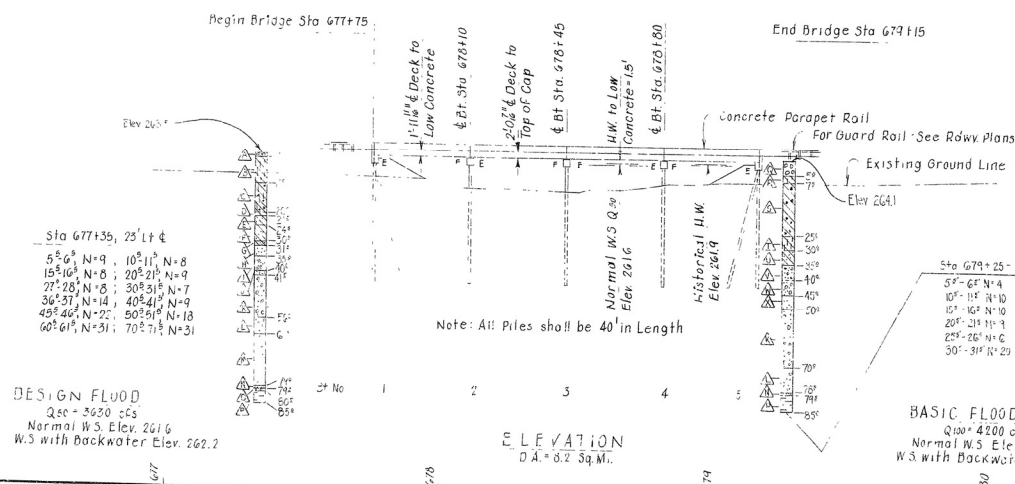


Excavate channel as shown
Approx. 150 Cu. Yds. of
channel Excavation



‡ Deck Elev. 265.1
Level Grade



BENCH MARK: N.J.S. COMB. POLE 50' RT. STA. 672+10, ELEV. 268.33.

ALL PILING SHALL BE 16" OCTAGONAL OR 16" SQUARE PRECAST CONCRETE AND SHALL BE CAPABLE WITH AN APPROVED AIR-ENRICHED OR SELF-HEALING TYPE OF CONCRETE BEARING A LOAD OF 40 TONS PER PILE, AND TO A MINIMUM PENETRATION OF 12" BELOW THE GRADE LINE. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING QUANTITIES. THE EXACT, ACTUAL LENGTHS TO BE DETERMINED IN THE FIELD. DRIVE ONE 45 FT. TEST PILE IN BENTS AND ONE 40, 45, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720,

FOR DETAILS OF BENTS, SEE DWG. NO. 22614
FOR DETAILS OF SPAN SPANS, SEE DWG. NO. 22616
FOR DETAILS OF PRECAST CONCRETE PILING, SEE DWG. NO. 22335
SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR
HIGHWAY CONSTRUCTION, EDITION OF 1978, AND APPLICABLE SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO 1977 WITH 1978 INTERIMS.
LIVE LOADING: HS20
METHOD OF DESIGN: LOAD FACTOR
REMOVE THE EXISTING 100' L.F. BRIDGE WHICH CONSISTS OF A CONCRETE DECK ON CONCRETE
GIRTERS, SUPPORTED BY CONCRETE CAPS AND COLUMNS AFTER NEW BRIDGE IS COMPLETE
OR ON OR TO THE EXISTING BRIDGE. THE REMOVAL OF THE EXISTING BRIDGE SHALL BE COMPLETE
MATERIAL FROM THE EXISTING BRIDGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

- [illegible]

LAYOUT OF BRIDGE OVER
MILL BAYOU
BIG & LITTLE MAUMELLE RIVERS
& MILL BAYOU BRS. & APPRS.
PULASKI COUNTY
ROUTE 300 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: L.M. DATE: 5-6-78

CHECKED BY: J.P. DATE: 5-11-79

UNDESIGNED BY: J.P. DATE: 5-6-78

SCALE: 1" = 10'

BRIDGE NO. 5811 DRAWING NO. 22613

DATE REVISION	DATE REVISION	DATE REVISION	DATE REVISION	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		60097	3
							5811	SPAN DTL'S 22 & 15

Note: Drain shall taper from 3'-8" 0" at curb to 3'-8" 0" at back face of concrete parapet rail.

BAR LIST PER SPAN

No.	Rein.	Length	Dia.	Bending Diagrams	
				34'-8"	5'-0"
S401	23	34'-8"	5/16"		
S402	15	35'-6"	3/4"		
S403	16	11'-4"	5/16"		
S404	2	10'-10"	5/16"		
S405	6	11'-10"	5/16"		
S406	44	6'-10"	2"		
S407	44	7'-9"	2"		
S408	53	34'-6"	5/16"		
S409	8	1'-0"	5/16"		
S410	54	6'-4"	2"		
S411	54	3'-5"	2"		
S412	24	5'-0"	5/16"		
S413	12	5'-0"	4"		
S414	20	30'	5/16"		
S415	3	11'-4"	5/16"		
S416	4	8'-7"	3/4"		
S417	6	4'-0"	3/4"		
S418	59	6'-7"	5/16"		
S419	8	3'-5"	5/16"		
S420	2	10'-10"	5/16"		

GENERAL NOTES

ALL CONCRETE TO BE CLASS (S4E) UNLESS OTHERWISE NOTED. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL TO BE AS F1A615, GRADE 60.

BAR SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL".

ROOFING FELT, BITUMINOUS FELT, PREFORMED JOINT, STRUCTURAL STEEL, AND POURED SYNTHETIC POLYMER JOINTS SHALL BE MEASURED AND PAID FOR AS CLASS S OR S(AE) CONCRETE.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO 1977 AND INTERIM 1978 F1A615.

DESIGN LIVE LOADING: HS20

LOAD DISTRIBUTION TO SLAB: DEAD LOAD = 286 PSF; LIVE LOAD = 0.166 WHEELS/FT. OF WIDTH PLUS 30% IMPACT.

UNIT STRESSES: COMPRESSIVE STRENGTH OF CLASS S OR S(AE) CONCRETE = 3,500 PSI
YIELD STRENGTH OF REINFORCEMENT = 60,000 PSI

LOAD FACTOR USED FOR DESIGN OF SLAB: 1.33

Guaranteed Rail Connection: 2'-4" x 8" x 3/8" Galvanized Bars, Type 1, 1/2" x 1/2" x 1/2" (non-poly item) - subsidiary to other items! For connection details, see spec GR-6A.

QUANTITIES (PER SPAN)

	Concrete	Reinforcing Steel	Structural Steel
End Span	79.5 cu yd	1205 Lbs	322 Lbs
Int. Span	79.5 cu yd	1205 Lbs	322 Lbs

* For information only: Structural Steel to be measured and paid for as Class S or S(AE) concrete.

** Concrete Quantities calculated for 2'-4" (cgs)

DETAILS OF STANDARD 35'-0" R.C. SLAB SPAN

32' CL RDWY - CONCRETE PARAPET RAIL
ROUTE 300 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DESIGNED BY: JCK DATE: 10-75
BRIDGE NO. 5011 DRAWING NO. 10-75

