

LET 10-18-76

UPDATED 9-24-76 ~ C.E.M.R.H.
UPDATED 1-26-76 ~ Moseley
LETTING DATE

FINK, ROBERTS & PETRIE, INC.
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

REMOVED Concrete Overlay Added Epoxy Coated Rebar
REVISED: 11-74
CHECKED BY: SLG
DATE: 11-74
REVISED: 11-74
CHECKED BY: JHH
DATE: 11-74

DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

KNOX COUNTY

BARBOURVILLE-ARTEMUS ROAD

KY. 225 RELOC. OVER CUMBERLAND RIVER

REFERENCE & ESTIMATE OF QUANTITIES																				
ITEM	SHEET NO.	EPOXY SAND SLURRY STD. BATCH	6" Ø DRAIN PIPE LIN. FT.	CONCRETE CLASS "AA" CU. YDS.	CONCRETE CLASS "A" CU. YDS.	STEEL REIN. FORCEMENT LBS.	STRUCTURAL EXCAV.		STRUCT. STEEL ② LUMP SUM	EXPANSION DAM 3" NEOPRENE LIN. FT.	BLAST CLEANING SQ. YDS.	CONCRETE ALT. "A" LATEX CONCRETE CU. YDS.	OVERLAY ALT. "B" PORT. CEM. CONCRETE CU. YDS.	END BENT BACKFILL LUMP SUM	PILES		DRY CYCLO-PEAN STONE RIP RAP SLOPE PRO. TONS.	PRECAST PRESTRESSED TYPE II BEAM LIN. FT.	PRECAST PRESTRESSED TYPE III BEAM LIN. FT.	EPOXY COATED REINFORCING STEEL LBS.
							COMMON CU. YDS.	SOLID ROCK CU. YDS.							STEEL PILES HP 12x53 LIN. FT.	TEST PILES LIN. FT.				
TITLE SHEET & QUANTITIES	1																			
GENERAL NOTES	2																			
LAYOUT SHEET	3																			
SOUNDING & CORE SHEET	4					11,984														
END BENT NO. 1 & 2 DETAILS	5,6			37.2	87.4	10,842	①							③	896	94				
PIER 1 & 6 DETAILS	7				133.8	27,996	290								757	58				
PIER NO. 2 & 5 DETAILS	8				308.1	74,902	852	83												
PIER NO. 3 & 4 DETAILS	9				381.4	67,460	140	82												
PILE LAYOUT & RECORD	10																			
SUPERSTRUCTURE DETAILS	11,12,13,14	15	94	6500		192,847			②	75	2045	81.5	107.9					600	2392.5	152,109
PRESTRESSED-CONCRETE				742.4		61,275	43,052													
I-BEAM TYPE II & III DETAILS	15,16																			
CONSTRUCTION ELEVATIONS	17,18,19																			
TOTAL SUBSTRUCTURE				37.2	910.7	181,260	1282	165						③	1653	152	495			
TOTAL SUPERSTRUCTURE		15	94	6500		192,847			②	75	2045	81.5	107.9					600	2392.5	
GRAND TOTAL		15	94	667.2	910.7	374,047	1282	165	②	75	2045	81.5	107.9	③	1653	152	495	600	2392.5	152,109
				779.6		243,615														
						245,394														
① APPROXIMATE CU. YDS. STRUCT. EXC., COMMON 156 CU. YDS.																				

REFERENCES

STANDARD DRAWINGS LISTED BELOW ARE THE CURRENT EDITION AND ARE TO BE USED WITH THESE PLANS:

- BGB-001-03 DETAILS FOR PLACING END BENT BACKFILL AND EARTH CORE
- BGB-003-03 DETAILS FOR PLACING END BENT BACKFILL AND EARTH CORE
- BJE-001-03 ARMORED EDGE FOR CONCRETE
- BJE-002-03 ARMORED EDGE FOR JOINTS IN CONCRETE
- BJJ-004-02 PREMOLED CORK EXPANSION JOINT MATERIAL DETAILS FOR CONCRETE BRIDGE FLOOR
- BJJ-003-02 PREFORMED JOINT SEAL DETAILS FOR CONCRETE BRIDGE FLOORS
- BPS-003-01 12" STRUCTURAL STEEL BEARING PILE AT 53 LBS.
- BGX-006-01 STENCIL CONSTRUCTION DATE FOR BRIDGES
- BBP-001-04 ELASTOMERIC BEARING PADS FOR PRESTRESSED BEAMS
- BGB-002-03 DETAILS FOR PLACING END BENT BACKFILL AND EARTH CORE

SPECIAL PROVISIONS

5(76) Concrete Bridge Deck Overlays
6(76) Bridge Deck Repairs
19(76) Epoxy Coated Steel Reinforcement

- ① APPROXIMATE CU. YDS. STRUCT. EXC., COMMON 156 CU. YDS.
② APPROXIMATE WEIGHT OF STRUCTURAL STEEL 4520 LBS.
③ APPROXIMATE CU. YDS. END BENT BACKFILL 139 CU. YDS.

BILL OF INCIDENTAL MATERIALS

ITEM	NUMBER PIECES	SIZE	LOCATION	INCIDENTAL TO
PREFORMED JOINT SEAL	2	2 1/2" x 23 1/4" x 37'-6"	1/8" EXP. JTS. BENTS	CL. "AA" CONC.
PREFORMED JOINT SEAL	4	2 1/2" x 23 1/4" x 37'-6"	1/8" EXP. JTS. BENTS	CL. "AA" CONC.
PREMOLED CORK EXP. JT. MAT'L	8	1/4" x 1'-8" x 3'-0"	OVER KEYS PIER 1 & 5	CL. "AA" CONC.
1" ID. PLASTIC PIPE	24	1" ID.	END BENT WINGS	CL. "AA" CONC.
2" DOWELS	24	2" x 2'-0"	PIERS 3 & 4	PCI BEAMS
3/4" T HREADED ANCHOR BARS	380	3/4" x 2'-0"	DIAPHRAGMS	PCI BEAMS
ELASTOMERIC BEARING PADS	12	1 1/4" x 1'-6" x 2'-6"	PIERS 3 & 4	PCI BEAMS
ELASTOMERIC BRG. PAD TYPE 21	12	2 7/8" x 9" x 1'-2"	END BENTS	PCI BEAMS
ELASTOMERIC BEARING PADS	12	1 1/4" x 12" x 1'-2"	PIERS 1 & 6	PCI BEAMS

BILL OF INCIDENTAL MATERIALS

ITEM	NUMBER PIECES	SIZE	LOCATION	INCIDENTAL TO
ELASTOMERIC BRG PAD-TYPE 31	24	2 7/8" x 9" x 1'-6"	PIERS 2 & 5	PCI BEAMS
ELASTOMERIC BRG PAD-SPECIAL	12	3 7/8" x 10" x 1'-6"	PIERS 1 & 6	PCI BEAMS
PREMOLED CORK EXP. JT. MAT'L	12	1 1/4" x 2'-6" x 1'-6"	PIERS 1 & 6, SPAN 1 & 7	CL. "AA" CONC.
PREMOLED CORK EXP. JT. MAT'L	10	1/4" x 3'-0" x 1'-6"	PIERS 1 & 6, SPAN 1 & 7	CL. "AA" CONC.
1" DOWELS	24	1" x 2'-0"	PIERS 1 & 6	CL. "AA" CONC.
2 1/4" DOWEL CAPS	12	2 1/4" x 6" LG.	PIER 3 & 4	PCI BEAMS
TAR PAPER		1/16" THICK	EBI, 2 PIERS 1-6	CL. "AA" CONC.
NEOPRENE FILLER PAD	12	2 7/8" x 12" x 1'-6"	PIER 2 & 5	PCI BEAMS
1/4" DOWEL CAPS	24	1/4" x 10" LG.	PIER 1 & 6	CL. "AA" CONC.

Plans Prepared By
FINK, ROBERTS & PETRIE
Consulting Engineers



John M. Crawford
John M. Crawford, P.E.
Ky. No. 2581

RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 106 19

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAY
FRANKFORT
COUNTY OF
KNOX

BARBOURVILLE-ARTEMUS ROAD (KY 225)
ROAD S 355 (1)

STATION 512+68.50
CONSTRUCTION PROJECT NO. 61-130-11L
P. E. PROJECT NO. SP 61-130-11L
MAINTENANCE PROJECT NO.
RS 355 (4)
DRAWING NO. 19194

DESIGNED BY _____
 DETAILED BY SLG
 TRACED BY _____

DRAWING NO.
19194

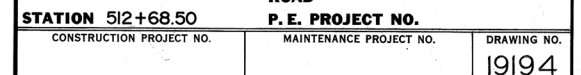
DESIGNED BY _____ CHECKED BY _____ DATE _____
 DETAILED BY _____ CHECKED BY _____ DATE _____
 TRACED BY _____ CHECKED BY _____ DATE _____

RELOC.KY.225 OVER CUMBERLAND RIVER
STATION 512+68.50
COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE-ARTEMUS
ROAD
STATION 512+68.50 P.E. PROJECT NO. SP61-130-11L
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
19194

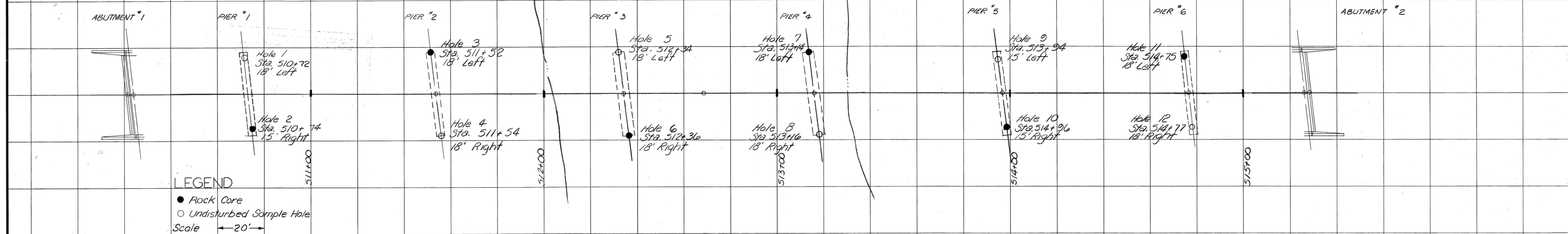
THE EXISTING STRUCTURE SHALL BE REMOVED NO LATER THAN 90 DAYS AFTER THE NEW STRUCTURE IS OPENED TO TRAFFIC, IN ACCORDANCE WITH SECTION 203.03 OF THE SPECIFICATIONS, EXCEPT THAT MATCH MARKING WILL NOT BE REQUIRED. BRIDGE MEMBERS OUTLINED IN THE DETAIL ON SHEET 3 SHALL BE REMOVED WITH CARE AND REMAIN THE PROPERTY OF THE BUREAU. THE RESIDENT ENGINEER SHALL NOTIFY THE ASSISTANT DIRECTOR FOR BRIDGE MAINTENANCE WHEN THESE MEMBERS ARE REMOVED. THE REMAINDER OF THE STEEL MEMBERS MAY BE REMOVED IN ANY MANNER THE CONTRACTOR DESIRES SUBJECT TO COAST GUARD APPROVAL, BUT SHALL BE CUT INTO LENGTHS WHICH CAN BE READILY TRANSPORTED. ALL STEEL SHALL THEN BE CAREFULLY STOCKPILED AT AN ACCESSIBLE LOCATION ABOVE HIGH WATER. THE PROPOSED METHOD AND SCHEDULE OF DEMOLITION FOR THE EXISTING BRIDGE SHALL BE SUBMITTED TO THE COMMANDER, SECOND COAST GUARD DISTRICT FOR APPROVAL PRIOR TO THE COMMENCING OF SUCH DEMOLITION.

GENERAL NOTE

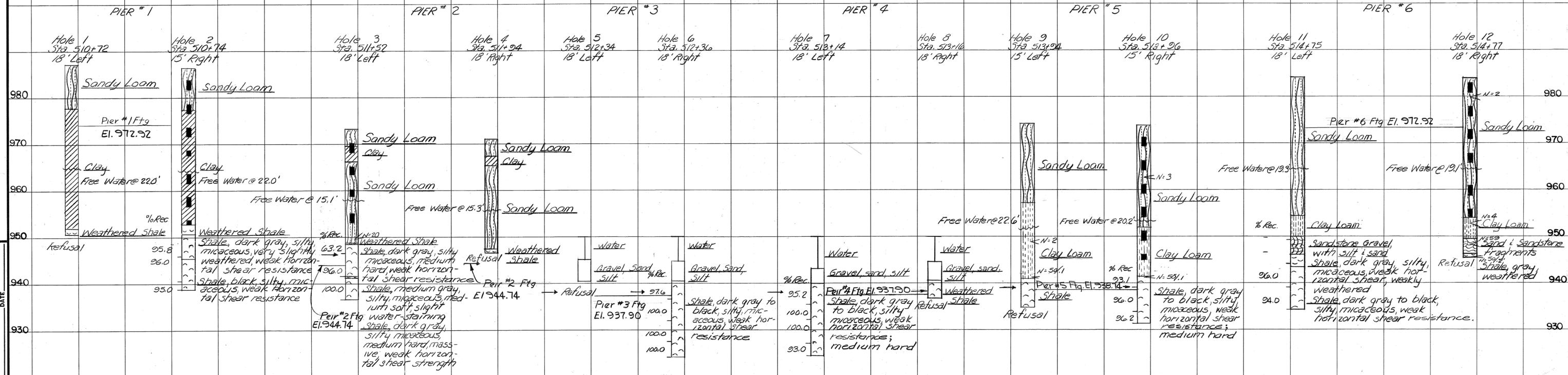
DESIGNED BY	CHECKED BY	DATE	REVISED	DATE
TRACED BY	CHECKED BY	DATE	REVISED	DATE
DESIGNED BY	CHECKED BY	DATE	REVISED	DATE
TRACED BY	CHECKED BY	DATE	REVISED	DATE



SUBSURFACE EXPLORATION PLAN



SUBSURFACE DATA



LEGEND
Horizontal not to scale
→ Footing elevation (Approximate)
■ Thin-walled Tube sample
< Standard Penetration Test
NOTE: The bearing pressure for piers should not exceed 20 ksf

UNCONFINED COMPRESSIVE STRENGTH				
Location	Depth	Strength (psf)	Moist (%)	
510+74 15' Ft.	2.5-4.5	1480	24.6	
	12.5-14.5	1520	20.3	
	17.5-18.7	1660	23.0	
	27.5-29.5	840	28.4	
	32.5-33.6	300	27.6	
511+52 18' Ft.	3.0-5.0	420	29.9	
513+96 15' Ft.	22.5-24.5	560	22.5	
514+77 18' Ft.	6.0-8.0	1600	31.5	
	16.0-18.0	1140	21.3	
	23.0-25.0	140	27.0	

Location				
Depth	50100	50600	51700	51946
Gravel (-3" + No. 10)	0.4	0.3	0.7	0.5
Coarse Sand (-No. 10 + No. 40)	0.3	0.5	0.4	0.3
Fine Sand (-No. 40 + 200)	4.7	8.1	30.0	55.3
Silt (-No. 200 + 425 mm)	49.0	50.4	47.1	32.4
Clay (-0.075 mm)	46.0	41.0	22.5	12.0
Natural Moisture (%)	26.5	35.1	27.8	22.3
Liquid Limit	46.0	41.0	28.0	17.0
Plastic Limit	30.0	27.0	20.0	15.0
Plasticity Index	16.0	14.0	8.0	2.0
Specific Gravity	2.69	2.71	2.65	2.75
Textural Classification	Clay	Clay	Clay	Sand
AASHTO Classification	U7	U7	U7	U7
Unified Classification	ML	ML	CL	SM

SOUNDING & CORE LOG

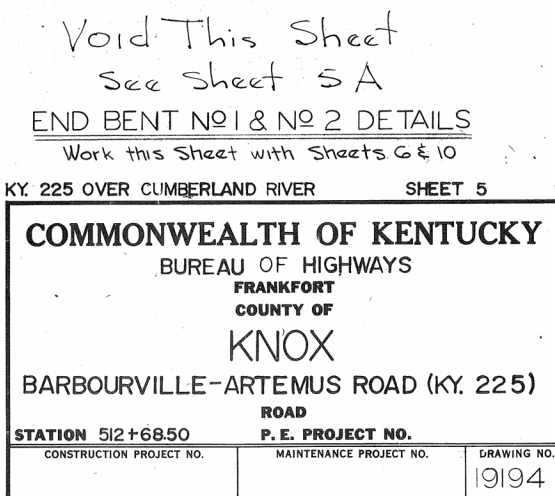
RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 4

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE-ARTEMUS ROAD (KY. 225)
ROAD
STATION 512+68.50 P.E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
19194

SOILS AND SUBSURFACE INVESTIGATION BY STOKLEY & ASSOCIATES DATE 9/73
SOUNDING PARTY CHIEF ALLAN HIGLEY DATE 9/73
DRAWN BY

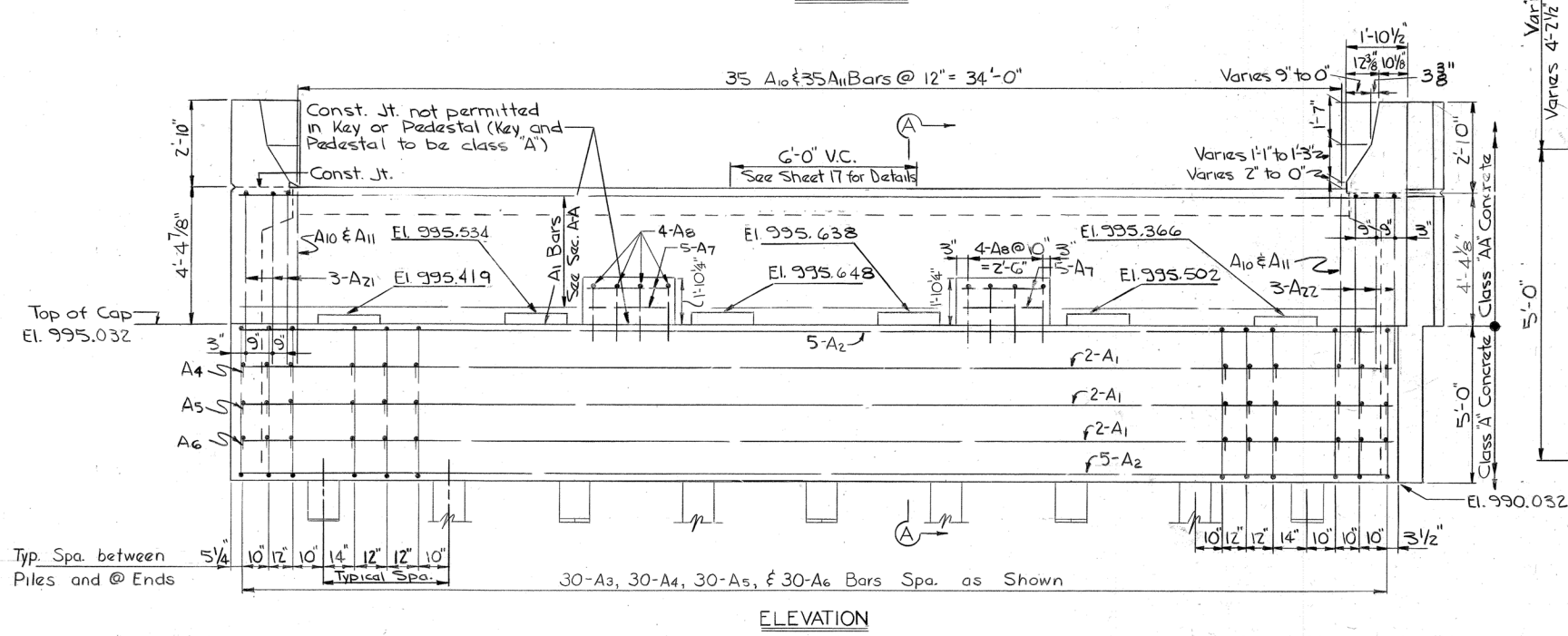
DESIGNED BY	WEM	CHECKED BY	JMC	DATE	11/74	REVISED		DATE	11/74
DETAILS BY	CLR	CHECKED BY	JMC	DATE	11/74	REVISED		DATE	11/74
TRACED BY		CHECKED BY		DATE		REVISED		DATE	

See Construction Elevations, Sheets 17 & 19 for Additional Points
* Note: ① & ② are 1/4" below Gutter Elevation.

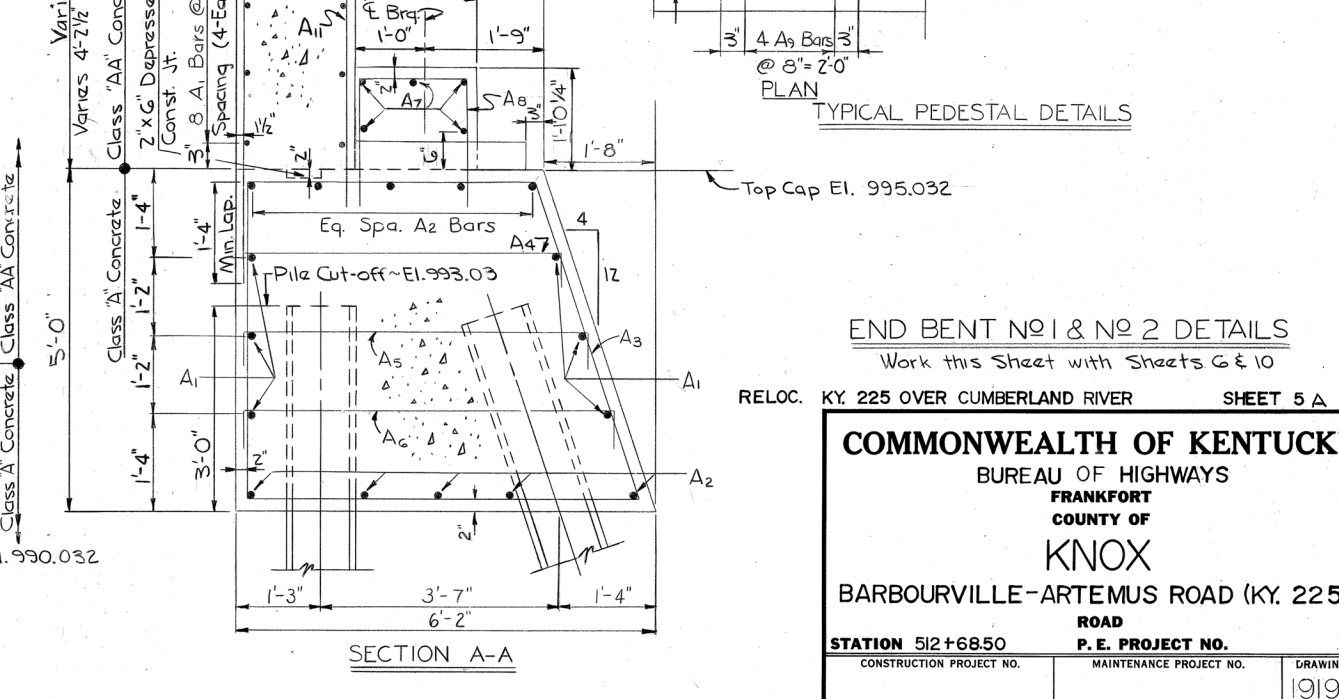
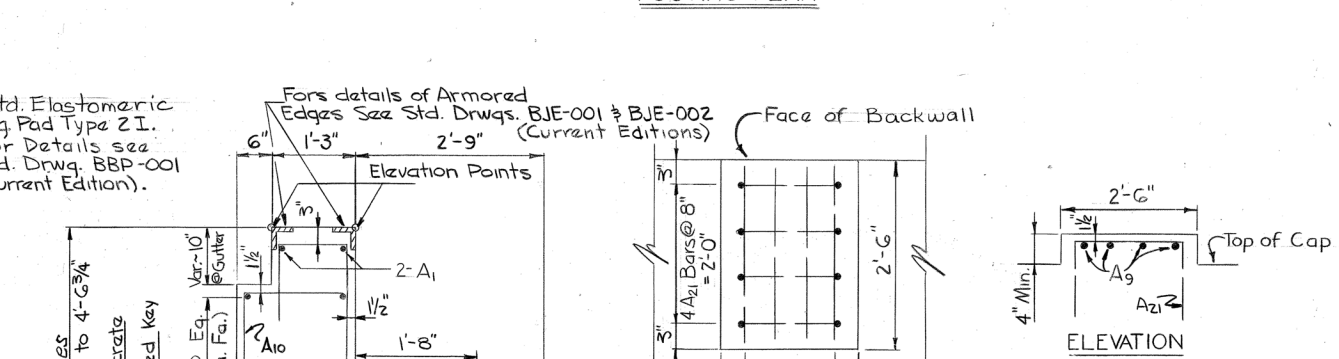


DESIGNED BY	MEM	CHECKED BY	KEF	DATE	10/14
TRACED BY		CHECKED BY	JMC	DATE	11/74
REVISIONS		REVISIONS		DATE	

Seat Flex. and Wing Details for Epoxy Coat. Paint. *ell* DATE 6-77



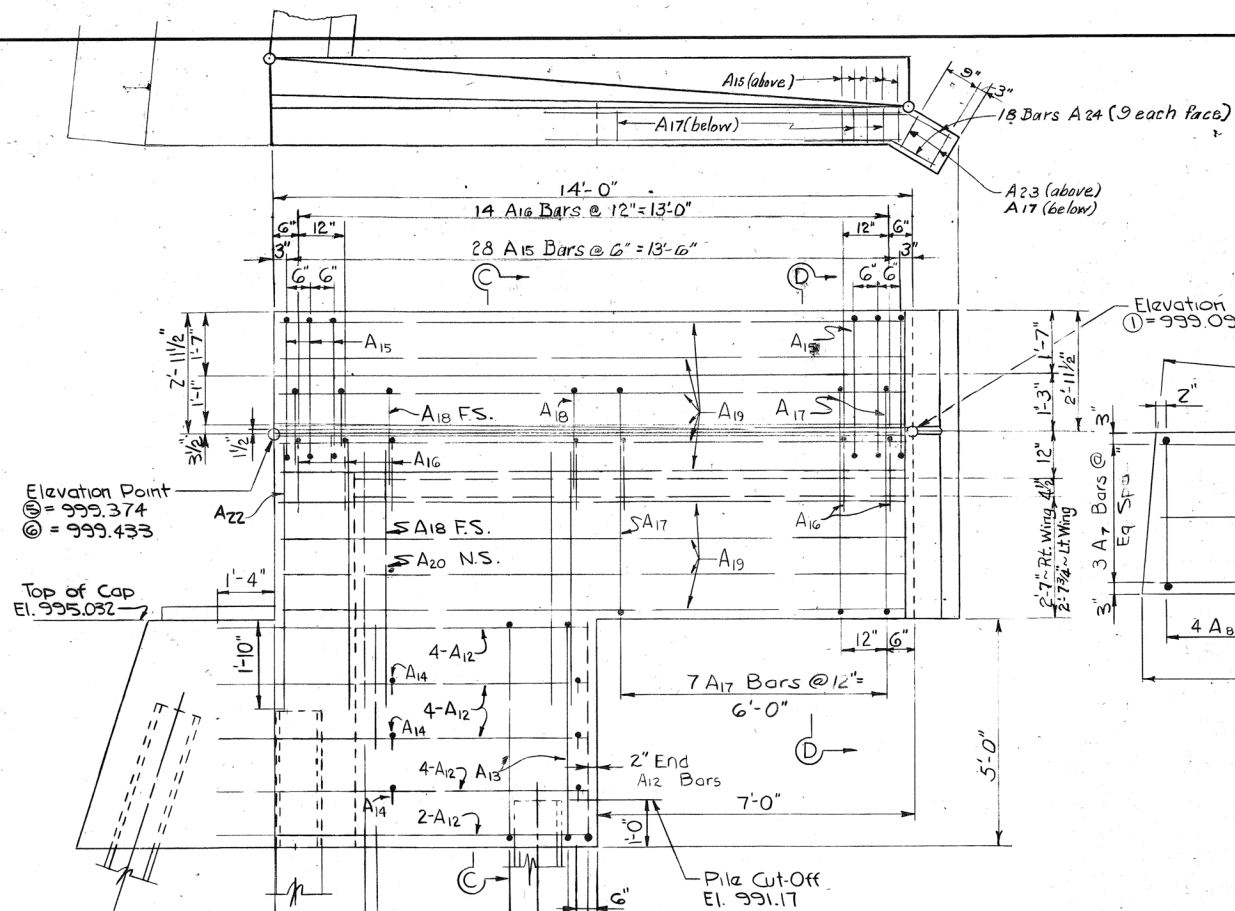
See Construction Elevations, Sheets 17 & 19 for Additional Points



<u>END BENT NO 1 & NO 2 DETAILS</u> Work this Sheet with Sheets G & 10		
RELOC. KY. 225 OVER CUMBERLAND RIVER	SHEET 5 A	
COMMONWEALTH OF KENTUCKY BUREAU OF HIGHWAYS FRANKFORT COUNTY OF KNOX BARBOURVILLE-ARTEMUS ROAD (KY. 225) ROAD STATION 512+68.50 CONSTRUCTION PROJECT NO.		P. E. PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 19194

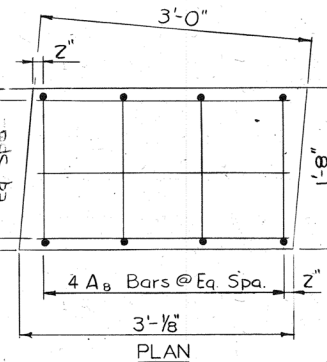
LETTING DATE

DESIGNED BY	WEM	CHECKED BY	KEE	DATE	10/14	REVISION	VOID THIS SHEET SEE SHEET 6A	DATE	8/14/77
DETAILED BY	CLR	CHECKED BY	JMC	DATE	11/14	REVISION		DATE	
TRACED BY		CHECKED BY		DATE		REVISION		DATE	

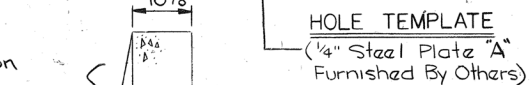
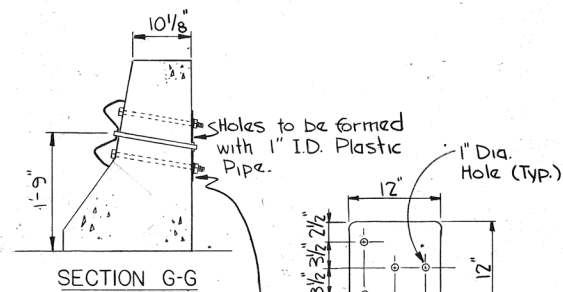
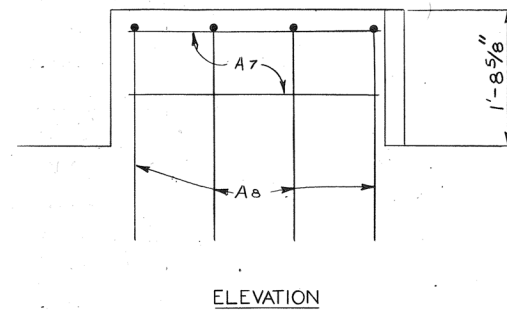


Note: For Guardrail Attachment see details on this sheet and location on sheet 5.

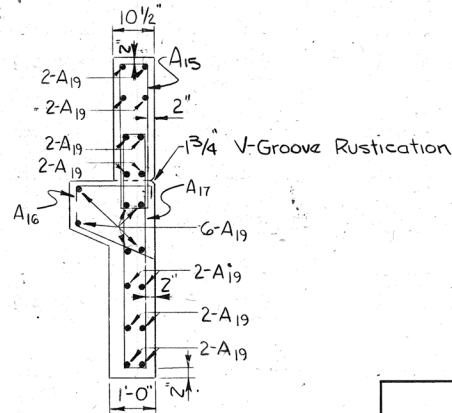
Elevation Point
① = 999.094 ② = 999.153



SHEAR KEY DETAILS

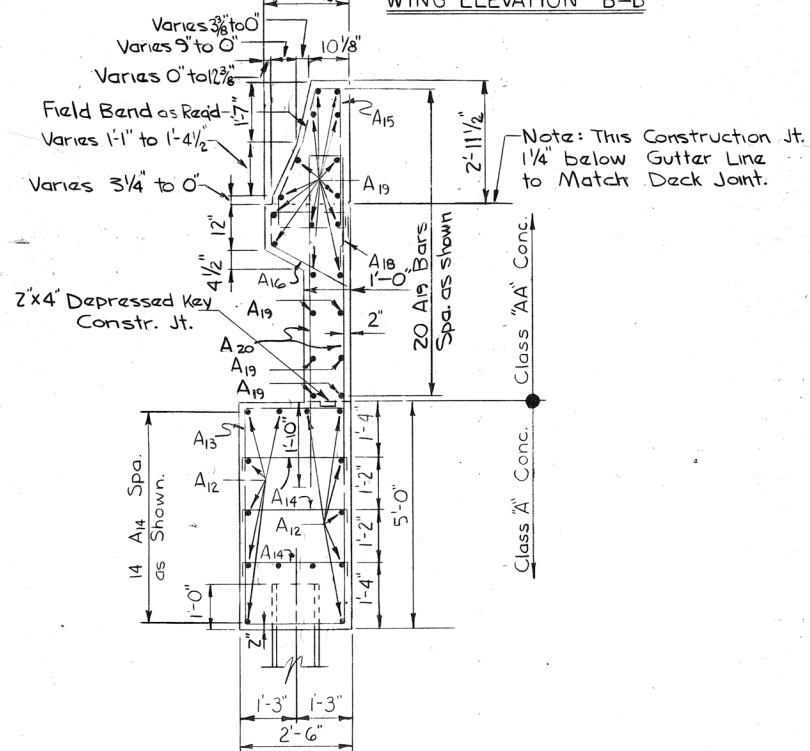


SECTION H-H



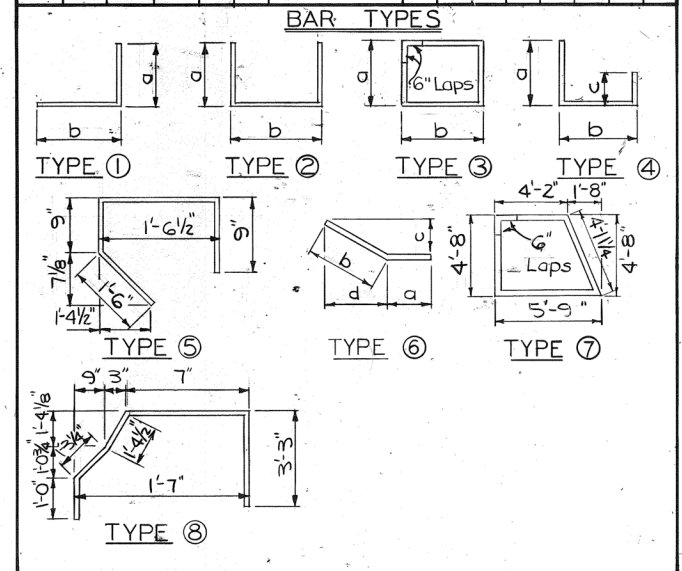
SECTION D-D

ESTIMATE OF QUANTITIES		
ITEM	E.B.#1	E.B.#2
CONCRETE CL. "AA"	18.7 C.Y.	18.7 C.Y.
CONCRETE CL. "A"	437 C.Y.	437 C.Y.
REINFORCEMENT	5421 LBS	5421 LBS



SECTION C-C

BILL OF REINFORCEMENT - END BENT NO. 1 or 2										
MARK	TYPE	SIZE	No	Length Ft. In.	Location	a Ft. In.	b Ft. In.	c Ft. In.	d Ft. In.	
A1	Str.	#5	16	37 7	Cap & Parapet					
A2	Str.	#6	10	37 7	Cap					
A3	⑦	#5	30	20 3	Cap	See Bar Type				
A4	②	#5	30	5 7	Cap	0 6 4 8				
A5	②	#5	30	5 11	Cap	0 6 5 0				
A6	②	#5	30	6 4	Cap	0 6 5 5				
A7	Str.	#4	10	2 9	Shear Key					
A8	②	#4	8	7 1	Shear Key	2 11 1 4				
A9	Str.	#4	24	2 2	Pedestal					
A10	①	#5	35	6 8	Parapet	5 2 1 6				
A11	④	#5	35	8 4	Parapet	6 0 1 0 1 6				
A12	Str.	#5	28	8 2	Strut					
A13	③	#5	12	14 5	Strut	4 8 2 2				
A14	②	#4	28	3 1	Strut	0 6 2 2				
A15	⑧	#4	56	7 6	Wing Wall					Field Band
A16	⑤	#5	28	4 6	Wing Wall					
A17	③	#5	18	13 1	Wing Wall	5 1 0 7				
A18	④	#5	12	7 9	Wing Wall	6 9 0 8 0 6				
A19	Str.	#5	40	13 9	Wing Wall					
A20	Str.	#7	22	7 0	Wing Wall					
A21	②	#4	24	5 7	Pedestal	1 9 2 2				
A22	②	#5	6	8 7	Parapet	6 2 1 5				
A23	③	#4	4	8 5	Wing Turn Backs	3 3 0 7				
A24	⑥	#5	36	3 0	" " "	2 0 1 0 0 6 1 8 3/4				



RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 6

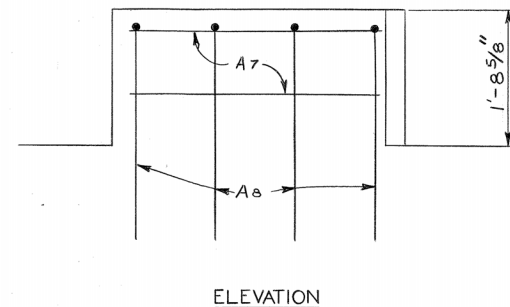
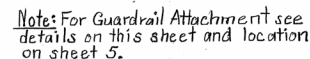
VOID THIS SHEET
SEE SHEET 6A

END BENT NO 1 & NO 2 DETAILS
(Work This Sheet with Sheets 5 & 10)

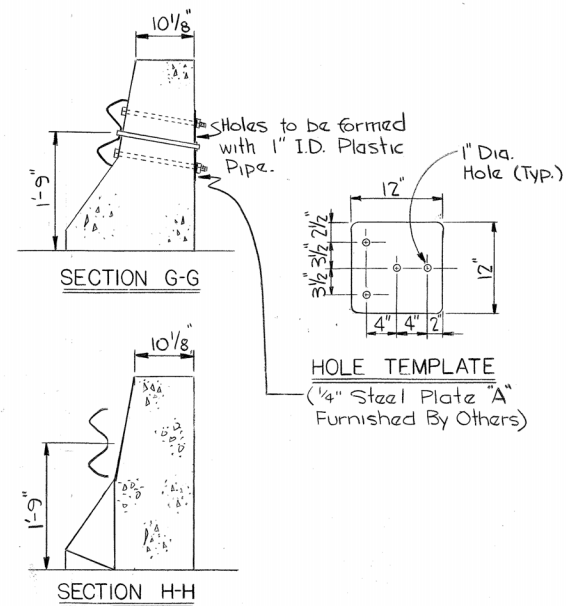
COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE-ARTEMUS ROAD (KY. 225)
ROAD
STATION 512+68.50
CONSTRUCTION PROJECT NO.
P. E. PROJECT NO.
MAINTENANCE PROJECT NO.
DRAWING NO.
19194

DATE _____
DATE _____

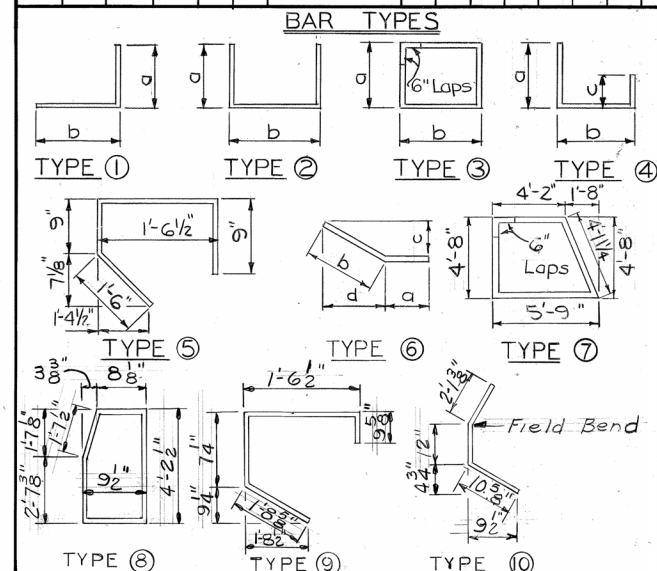
DESIGNED BY	WEM	CHECKED BY	KEF	DATE	10/19/94
DRAWN BY	WEM	CHECKED BY	JMC	DATE	11/1/94
TRACED BY		CHECKED BY		DATE	
REVISIONS		REVISIONS		DATE	
REVISIONS: <i>Change Details</i>					
DATE: <i>6-77</i>					



SHEAR KEY DETAILS



ESTIMATE OF QUANTITIES		
ITEM	E.B.# 1	E.B.# 2
CONCRETE CL. "AA"	18.7 C.Y.	18.7 C.Y.
CONCRETE CL. "A"	43.7 C.Y.	43.7 C.Y.
REINFORCEMENT	5992 LBS	5992 LBS



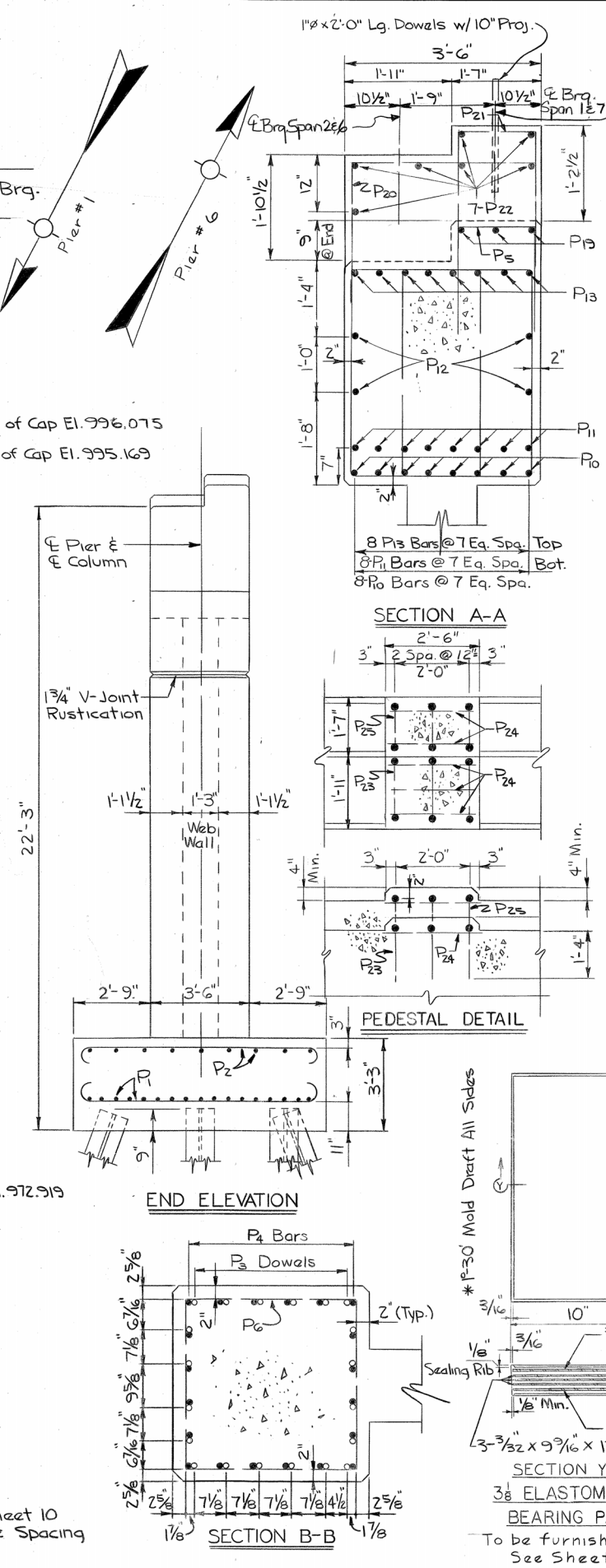
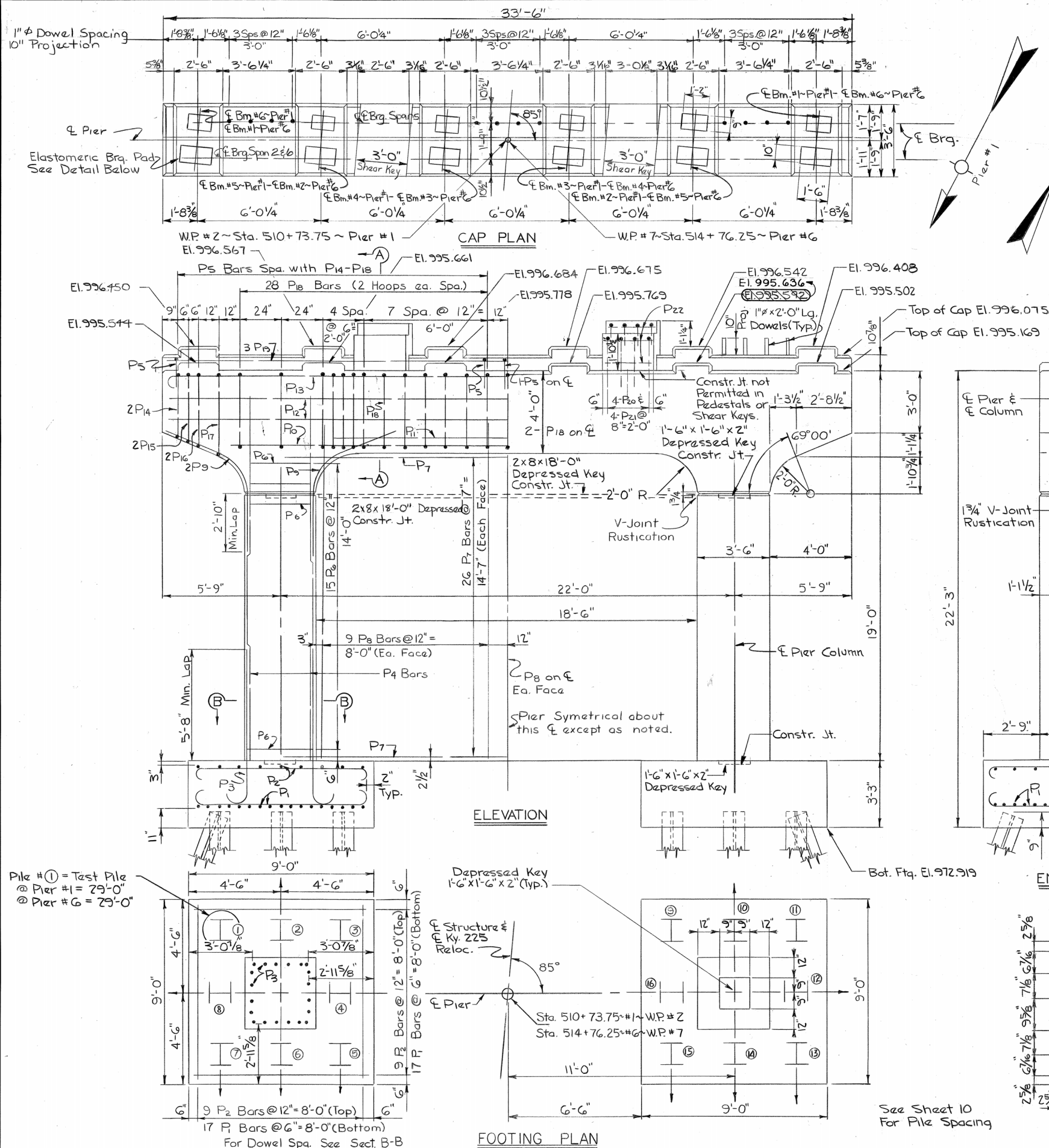
RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 6 A

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE - ARTEMUS ROAD (KY. 225)
ROAD

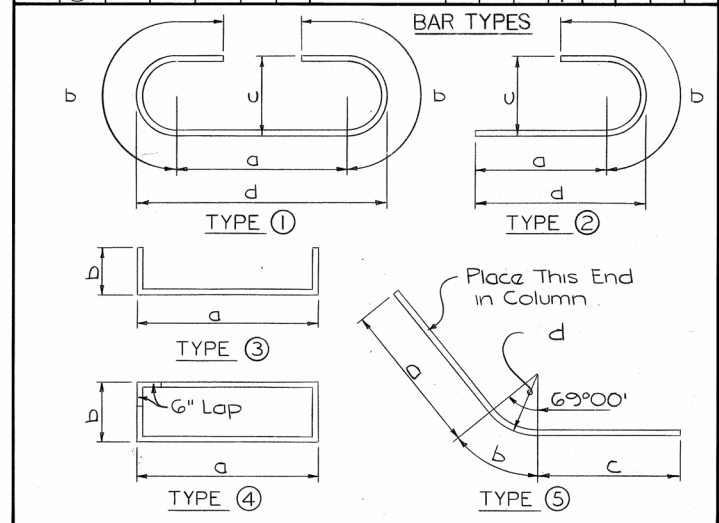
END BENT NO 1 & NO 2 DETAILS
(Work This Sheet with Sheets 5 & 10)

STATION 512+68.50		P. E. PROJECT NO.
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO. 1994

DESIGNED BY JMC CHECKED BY CLN DATE 10-17-77
 DETAILED BY SLG CHECKED BY SLG DATE 11-17-77
 TRACED BY _____ DATE _____
 REVISIONS _____
 REVISION Revised for Elen DATE 10-17-77



BILL OF REINFORCEMENT															
MARK	TYPE	NUMBER		SITE	LENGTH		LOCATION	a		b		c		d	
		Per Ft.	Per 6'		Ft.	In.		Ft.	In.	Ft.	In.	Ft.	In.		
P ₁	①	68	68	#7	10	5	Footing	8	1	1	2	0	7	8	8
P ₂	①	36	36	#5	9	11	Footing	8	3	0	10	0	5	8	8
P ₃	②	40	40	#10	9	3	Ftg. & Column	7	5	1	10	1	0 $\frac{3}{4}$	8	0
P ₄	Str.	40	40	#10	18	0	Column								
P ₅	③	35	35	#5	4	0	Riser	1	3	1	11				
P ₆	④	30	30	#5	13	5	Column	3	2	3	2				
P ₇	Str.	52	52	#6	21	8	Web Wall								
P ₈	Str.	38	38	#5	16	2	Web Wall								
P ₉	⑤	20	20	#5	7	9	Column & Cap	2	10	2	5	2	6	2	3/4
P ₁₀	Str.	8	8	#11	27	0	Cap								
P ₁₁	Str.	8	8	#8	17	0									
P ₁₂	Str.	4	4	#5	33	2									
P ₁₃	①	8	8	#9	35	8		32	3 $\frac{3}{4}$	1	8	0	11 $\frac{1}{4}$	33	2
P ₁₄	④	4	4	#5	11	3		2	3	3	0				
P ₁₅	④	4	4	#5	11	7		2	3	3	2				
P ₁₆	④	4	4	#5	12	0		2	3	3	4 $\frac{1}{2}$				
P ₁₇	④	4	4	#5	12	10		2	3	3	9 $\frac{1}{2}$				
P ₁₈	④	54	54	#5	12	7	Cap	2	3	3	8				
P ₁₉	Str.	3	3	#11	33	2	Riser								
P ₂₀	③	6	6	#5	9	4	Shear Key	3	3	3	1				
P ₂₁	③	6	6	#5	7	1		1	4	2	11				
P ₂₂	Str.	14	14	#5	2	3									
P ₂₃	③	18	18	#5	4	6	Pedestal	1	7	1	1	6			
P ₂₄	Str.	30	30	#5	2	4									
P ₂₅	③	18	18	#5	4	2		1	3	1	1	6			



ESTIMATE OF QUANTITIES		
ITEM	PIER #1	PIER #6
Concrete Class "A" Reinforcement	66.9 C.Y. 13,998 lbs.	66.9 C.Y. 13,998 lbs.

PIER NO. 1 & NO. 6 DETAILS
WORK THIS SHEET WITH SHEET 10

RELOC. KY. 225 OVER CUMBERLAND RIVER

SHEET 7

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE - ARTEMUS ROAD (KY. 225)

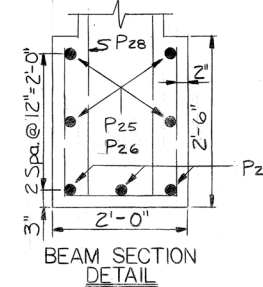
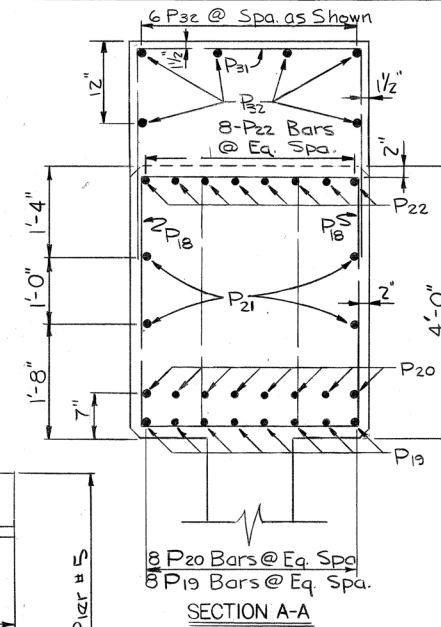
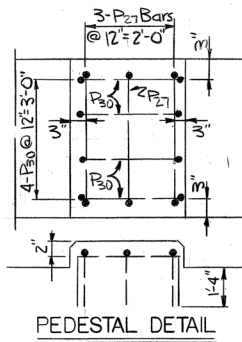
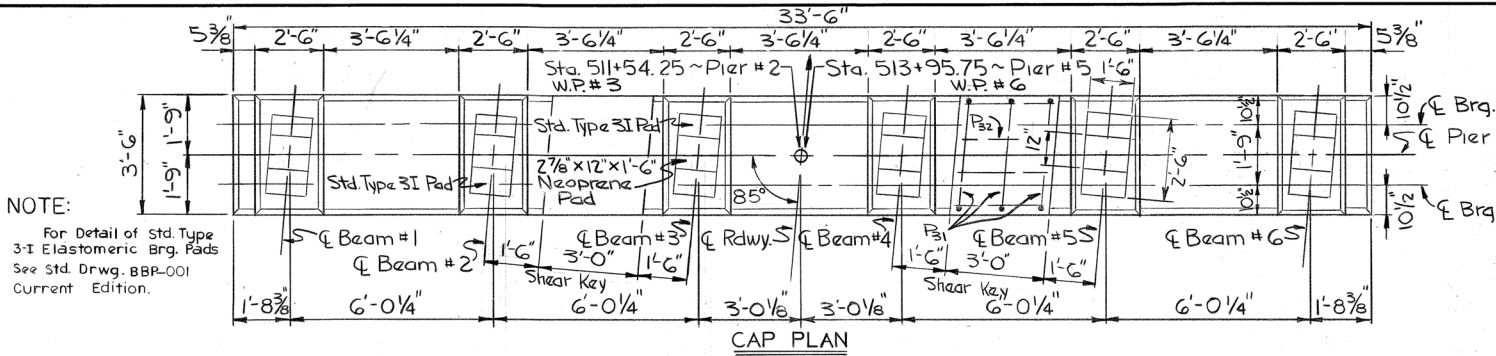
STATION 512+68.50	ROAD
	P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO. 994
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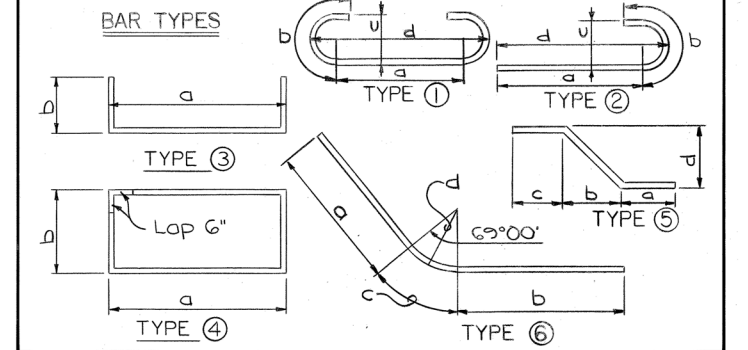
LETTING DATE

NOTE:

For Detail of Std. Type
3-1 Elastomeric Brg. Pads
See Std. Drwg. BBR-001
Current Edition.

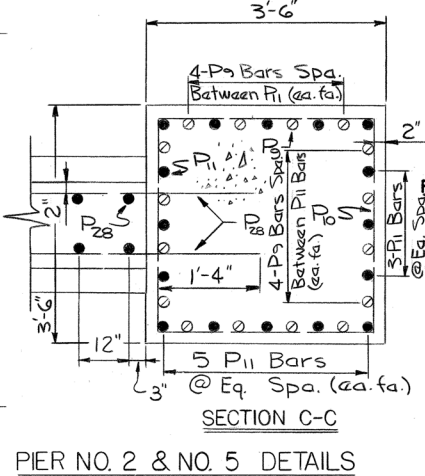
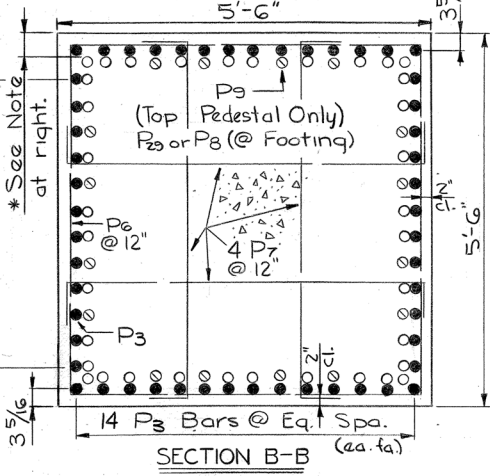
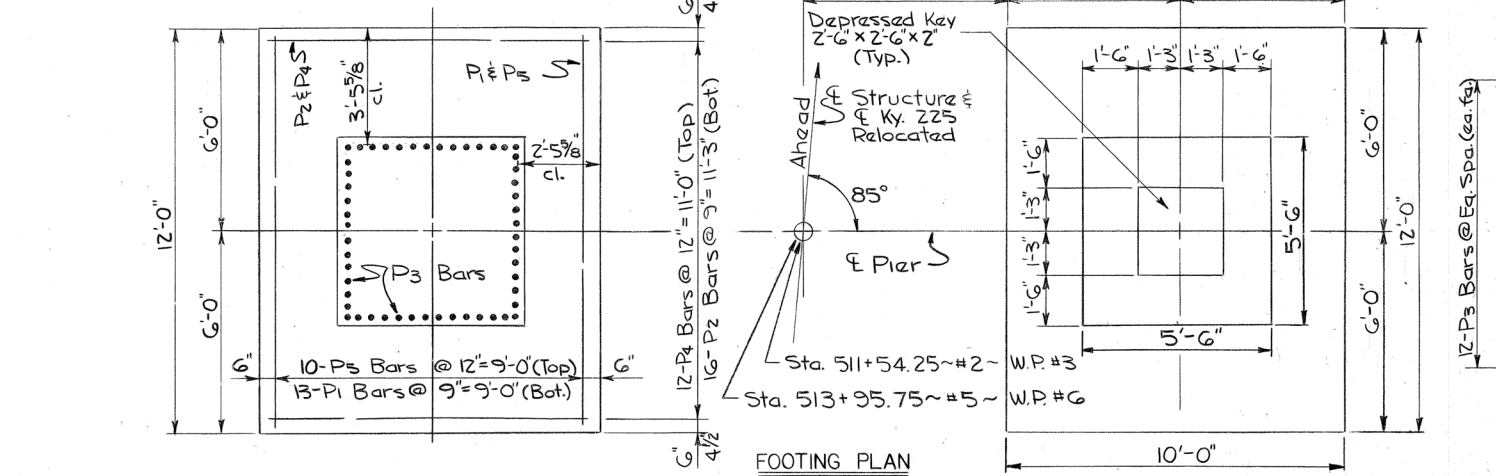
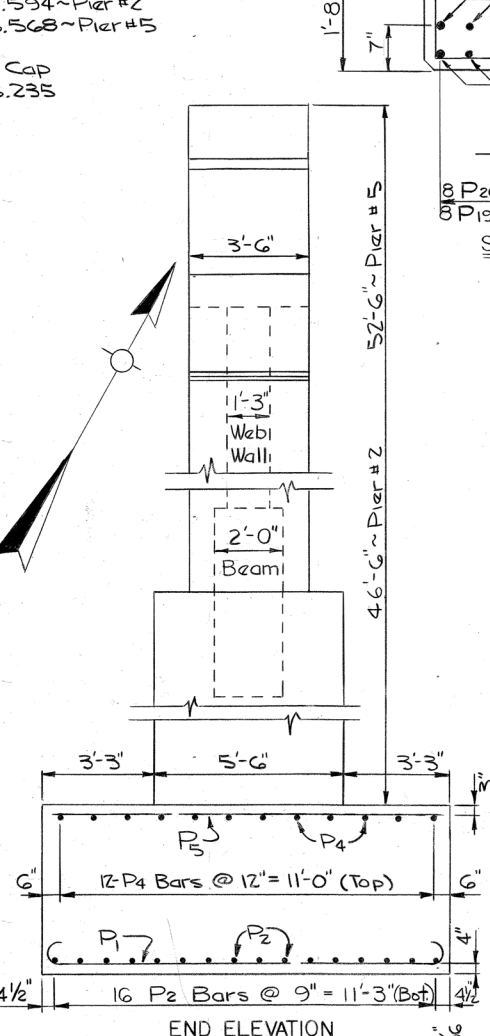
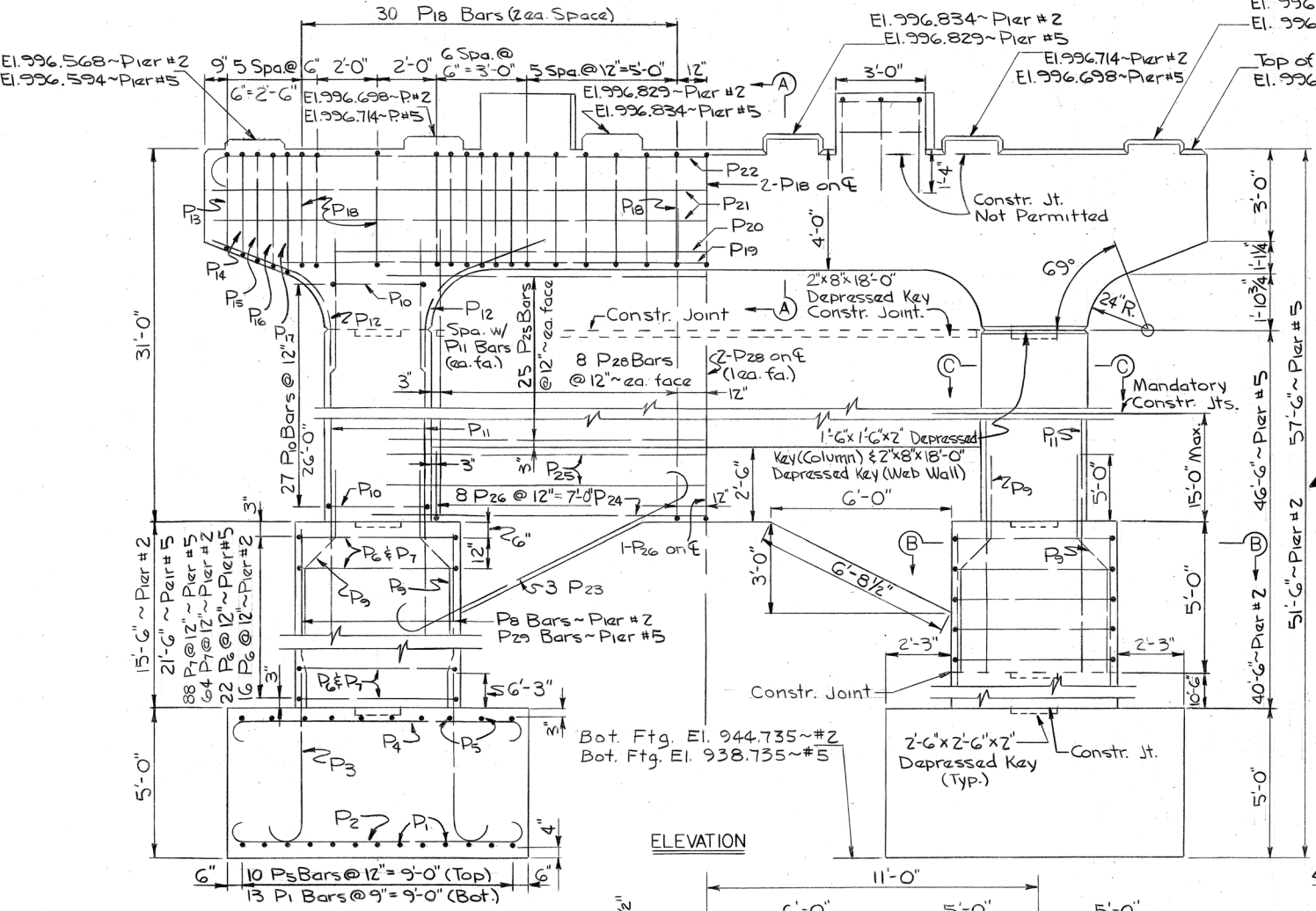


BILL OF REINFORCEMENT													
MARK	TYPE	NUMBER	SIZE	LENGTH	Location	a	b	c	d				
P1	①	26	#8	14	0	11	0	1	6	0	8	11	8
P2	①	32	#8	12	0	9	0	1	6	0	8	9	8
P3	②	104	#11	12	4	10	3 1/2	2	0	1	2 1/4	10	11
P4	①	24	#5	10	11	9	3	0	10	0	5	9	8
P5	①	20	#5	12	11	11	3	0	10	0	5	11	8
P6	④	32	#5	21	5	5	2	5	2				
P7	③	128	#5	6	1	5	2	0	6				
P8	Str.	104	#11	15	4								
P9	⑤	32	#5	10	5	5	6	1	0	3	6	1	0
P10	④	54	#5	13	5	3	2	3	2				
P11	Str.	32	#11	33	0								
P12	⑥	20	#5	7	9	2	10	2	5	2	6	2	3 1/4
P13	④	4	#5	11	3	3	0 1/2	2	3				
P14	④	4	#5	11	7	3	2	2	3				
P15	④	4	#5	12	0	3	4 1/2	2	3				
P16	④	4	#5	12	5	3	7	2	3				
P17	④	4	#5	12	10	3	9 1/2	2	3				
P18	④	62	#5	12	7	3	8	2	3				
P19	Str.	8	#11	28	6								
P20	Str.	8	#11	24	10								
P21	Str.	4	#5	33	2								
P22	①	8	#10	35	10	32	1 1/4	1	10	1	0 3/4	33	2
P23	①	6	#10	13	5	9	8 1/4	1	10	1	0 3/4	10	9
P24	Str.	3	#10	21	10								
P25	Str.	54	#5	13	2								
P26	③	17	#5	5	11	1	8	2	2				
P27	③	18	#5	6	5	3	2	1	8				
P28	Str.	34	#13	28	0								
P29	Str.	0	#11	21	4								
P30	③	24	#5	5	5	2	2	1	8				
P31	③	6	#5	8	11	3	0	3	0				
P32	Str.	12	#5	2	8								



*Note: At footings, P₆ & P₂₉ bars are to be placed inside P₃ Bars, above lap reinforcement shall be pulled out to 2'-6" clear for good tie to P₆ Bars.

ESTIMATE OF QUANTITIES		
ITEM	PIER #2	PIER #5
Conc. Class "A"	147.3 Cu. Yds	160.8 Cu. Yds
Reinforcement	35,507 Lbs.	39,395 Lbs.



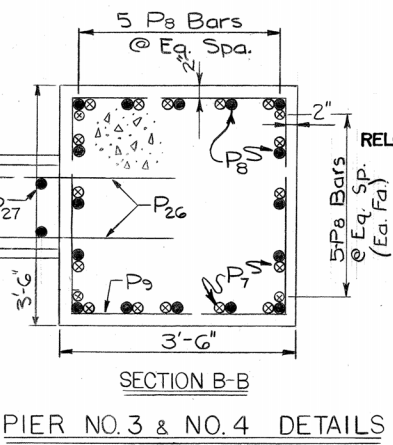
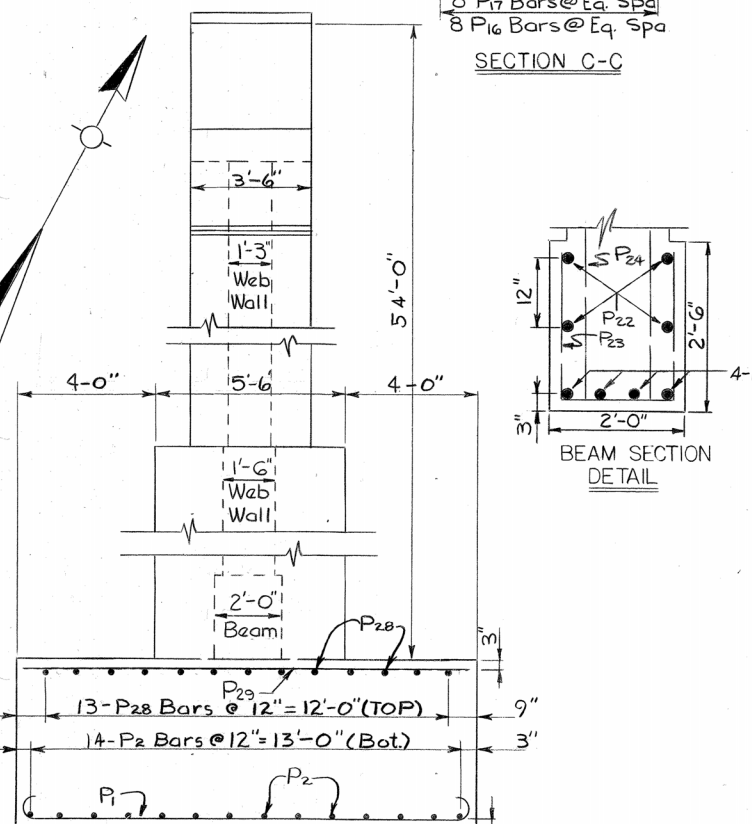
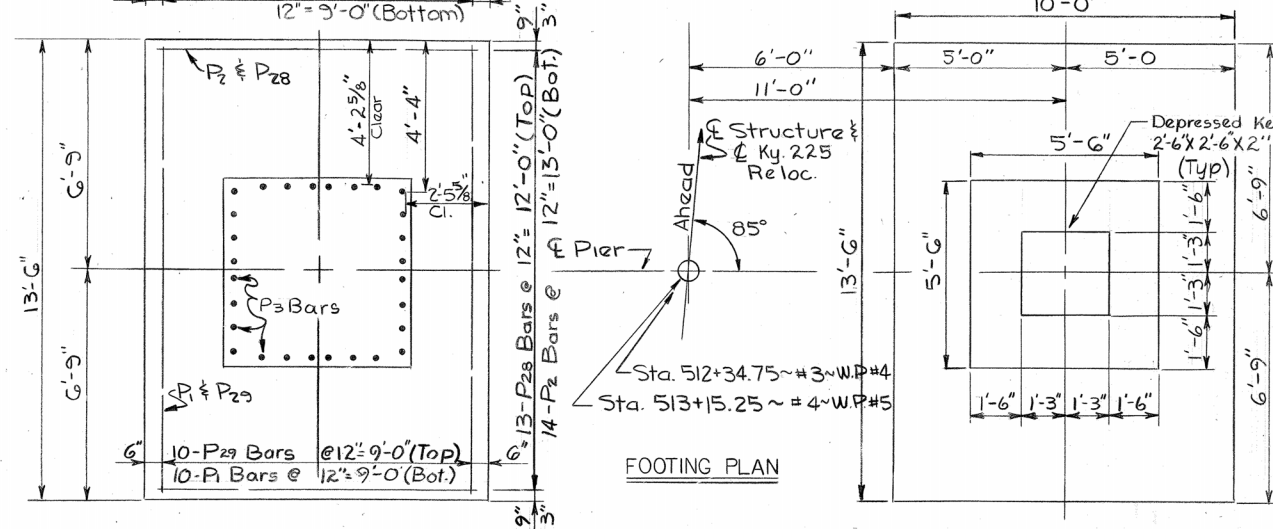
PIER NO. 2 & NO. 5 DETAILS

RELOC. KY. 225 OVER CUMBERLAND RIVER

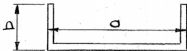
SHEET 8

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE - ARTEMUS ROAD (KY. 225)
ROAD
STATION 512+68.50
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.

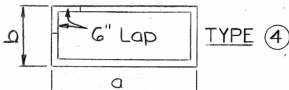
DESIGNED BY	JMC	CHECKED BY	SKN	DATE	10-74	REVISED		DATE	
DETAILED BY		CHECKED BY	CLP	DATE	11-74	REVISED		DATE	
TRACED BY		CHECKED BY		DATE		REVISED		DATE	



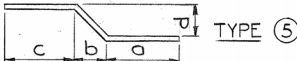
BAR TYPES



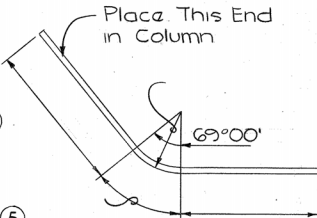
TYPE ③



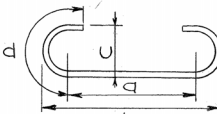
TYPE ④



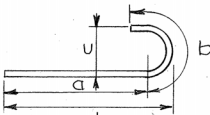
TYPE ⑤



TYPE ⑥



TYPE ①



TYPE ②

ESTIMATE OF QUANTITIES		
ITEM	PIER # 3	PIER # 4
Concrete Class "A" Reinforcement	190.7 C.Y. 33,730 lbs.	190.7 C.Y. 33,730 lbs.

RELOC. KY. 225 OVER CUMBERLAND RIVER

SHEET 9

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX

BARBOURVILLE-ARTEMUS ROAD (KY. 225)

STATION 512+68.50		ROAD
		P. E. PROJECT NO.

DRAWING NO.
19194

REVISED _____ DATE _____

CHECKED BY JMC



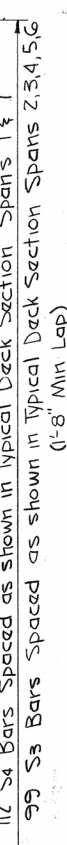
Pile Record- After all piles have been driven, the Resident Engineer shall record for each pile, the tip-of-pile elevation as driven, the length of pile in place and the calculated bearing capacity and shall return one blue print copy of this sheet with this data to the Director of the Division of Bridges so that the data may be recorded on the original plans. Lengths of piles in place shown hereon are the actual lengths of piles in the finished structure below cutoff elevation and are not necessarily pay items. This pile record does not replace other records of piles required to be kept and submitted by the Resident Engineer.

RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 10

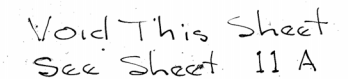
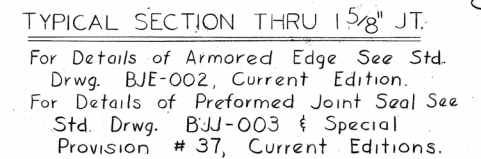
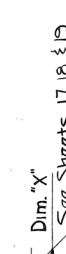
DRAWING NO.

(Work This Sheet with Sheets 5, 6, & 7)

DETAILED BY CLR CHECKED BY JMC DATE 10-74



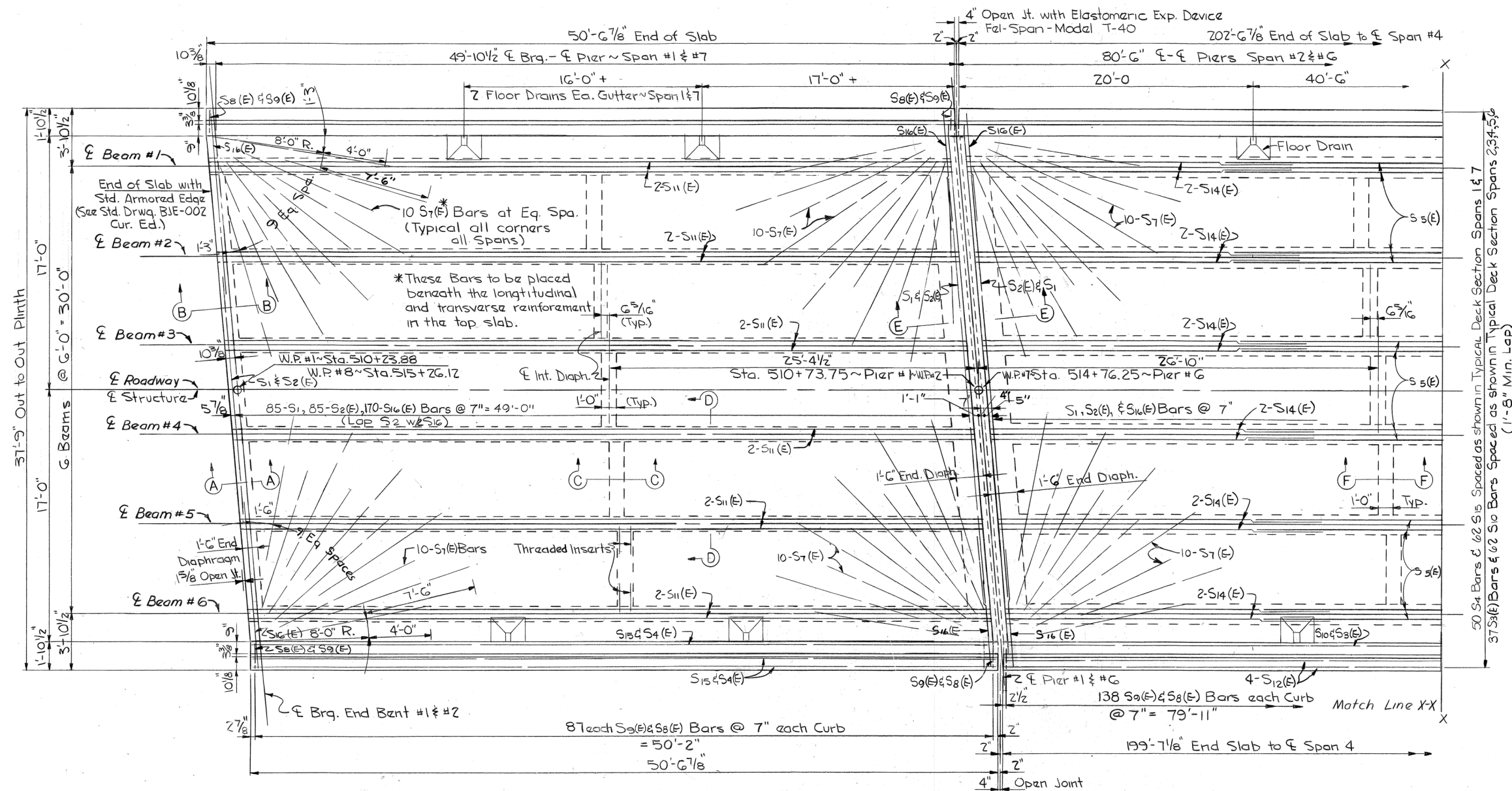
HALF PLAN-SPAN 2 & 6



STATION 512+68.50		P. E. PROJECT NO.
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO. 19194

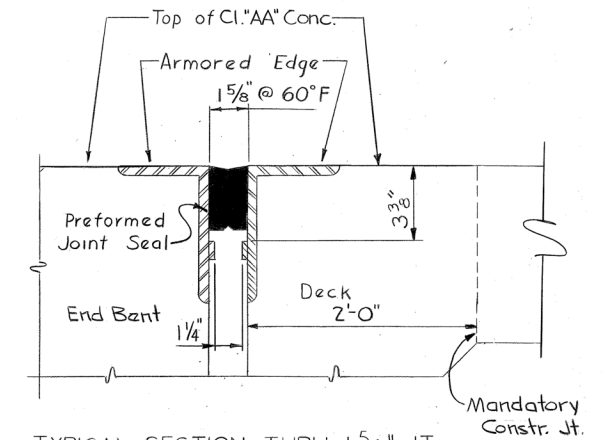
DRAWING NO.
9194

DESIGNED BY	JMC	CHECKED BY	WEM	DATE	9-7-74	REVISED	REMOVED	DATE	6-77
DETAILED BY	CLR	CHECKED BY	JMC	DATE	10-7-74	REVISED	ADDED	DATE	
TRACED BY		CHECKED BY		DATE		REVISED	EXPOSED	DATE	



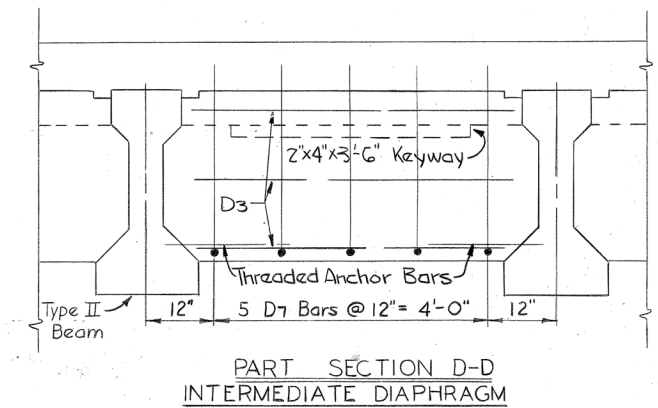
PLAN - SPANS 1 & 7

HALF PLAN-SPAN 2 & 6

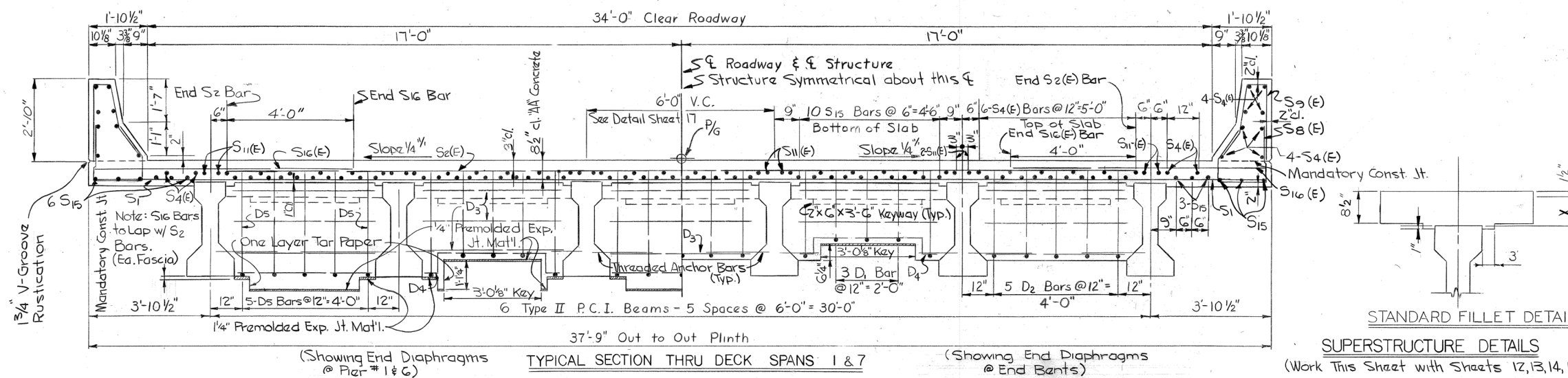


TYPICAL SECTION THRU 1 5/8" JT.

For Details of Armored Edge See Std.
Drwg. BJE-002, Current Edition.
For Details of Preformed Joint Seal See
Std. Drwg. BJJ-003 & Special
Provision # 37, Current Editions.



PART SECTION D-D
INTERMEDIATE DIAPHRAGM



(Showing End Diaphragms
@ Pier # 1 & 6)

TYPICAL SECTION THRU DECK SPANS 1 & 7

(Showing End Diaphragms @ End Bents)

STANDARD FILLET DETAIL

SUPERSTRUCTURE DETAILS

(Work This Sheet with Sheets 12, 13, 14, 15, & 16)

RELOC.KY. 225 OVER CUMBERLAND RIVER SHEET 11A

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX

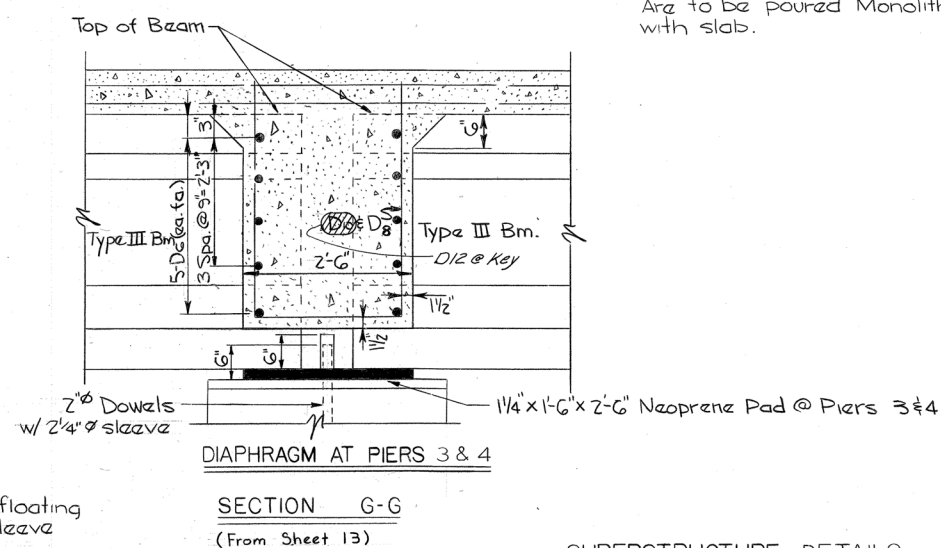
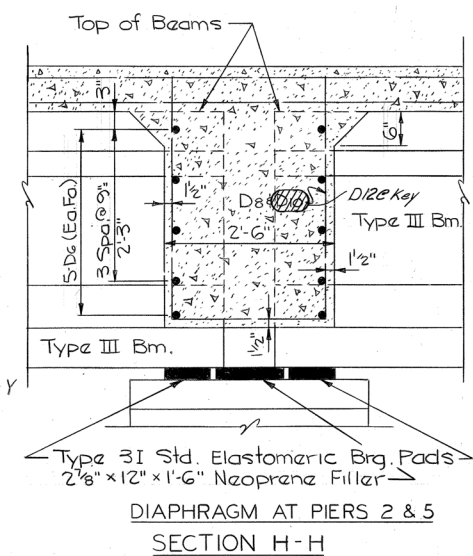
BARBOURVILLE-ARTEMUS ROAD (KY. 225)

STATION 510+00.50 ROAD
D. E. BROTHST. NC

STATION 512+68.50		P. E. PROJECT NO.	
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.	

		19194
--	--	-------

DESIGNED BY: JMC	CHECKED BY: WEM	DATE: 9/74	REVISED: Removed Overlay Added Epoxy Coated Reinf.	DATE: 8/14
DRAWN BY: CLR	CHECKED BY: JMC	DATE: 1/74	REVISED: Revised Diaphragm Reinforcement	DATE: 10-77
TRACED BY:	CHECKED BY:	DATE:	REVISED:	DATE:



NOTE: Diaphragms @ Pier 2,3,4 & 5
Are to be poured Monolithic
with slab.

RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 12A

COMMONWEALTH OF KENTUCKY

BUREAU OF HIGHWAYS

FRANKFORT

COUNTY OF

KNOX

BARBOURVILLE - ARTEMUS ROAD (KY. 225)

ROAD

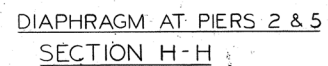
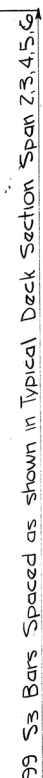
STATION 512+68.50	P. E. PROJECT NO.
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.

DRAWING NO.
19194

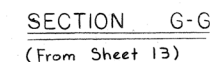
SUPERSTRUCTURE DETAILS
Work This Sheet with Sheets 11, 13, 14, 15, & 16

DESIGNED BY	JMC	CHECKED BY	WEM	DATE	9/74
DETAILED BY	CLR	CHECKED BY	JMC	DATE	11/74
TRACED BY		CHECKED BY		DATE	
		REVISED		DATE	
		REVISED		DATE	

VOID THIS SHEET See Sheet 12A "dla 7-77"



HALF-PLAN SPAN 3 & 5



NOTE: Diaphragms @ Pier 2,3,4 & 5
Are to be poured Monolithic
with slab.

Void this Sheet
See Sheet 12 A

RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 12

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX

BARBOURVILLE-ARTEMUS ROAD (KY. 225)

ROAD

STATION 52+68.50 P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
--------------------------	-------------------------	-------------

19194

SUPERSTRUCTURE DETAILS
Work This Sheet with Sheets 11, 13, 14, 15, & 16

LETTING DATE

DATE 11-7-77

DATE 11-7-77

DATE 11-7-77

DATE 11-7-77

DATE 11-7-77

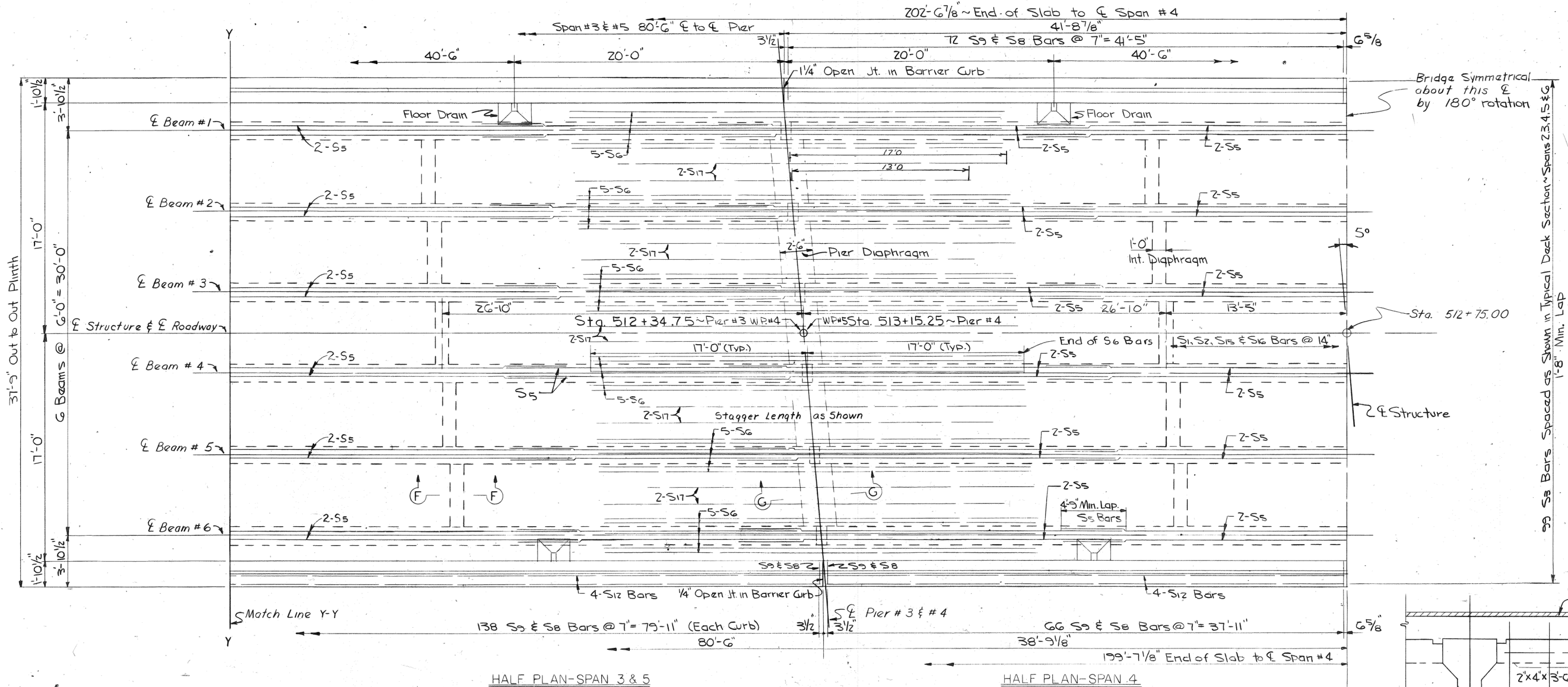
DATE 11-7-77

DATE 11-7-77

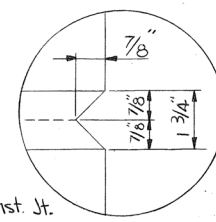
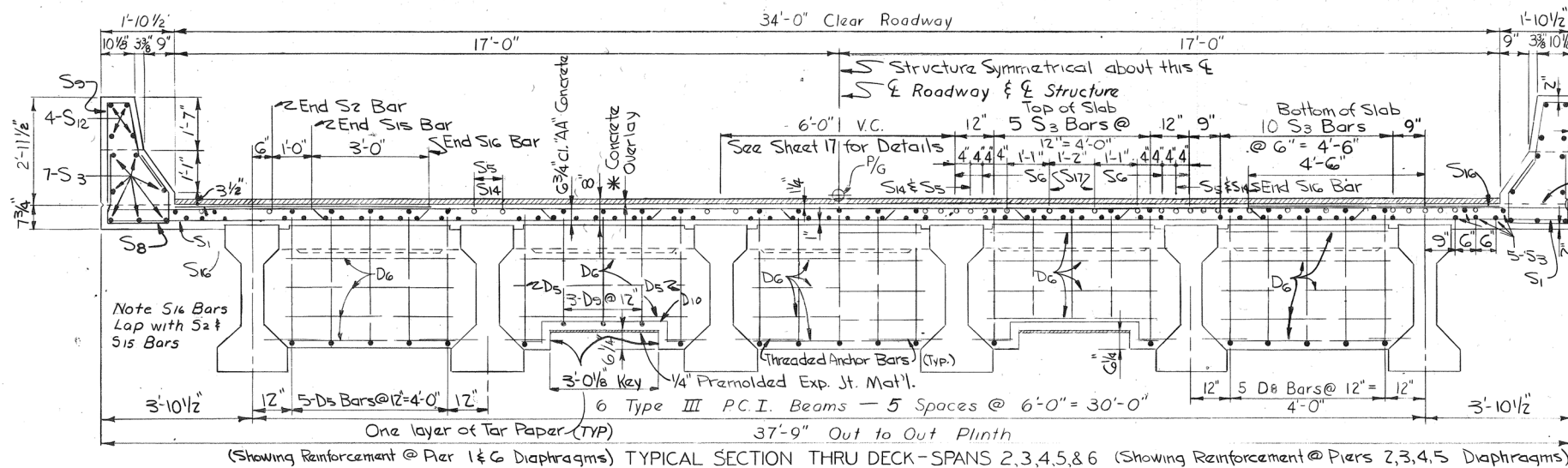
DATE 11-7-77

DATE 11-7-77

DATE 11-7-77

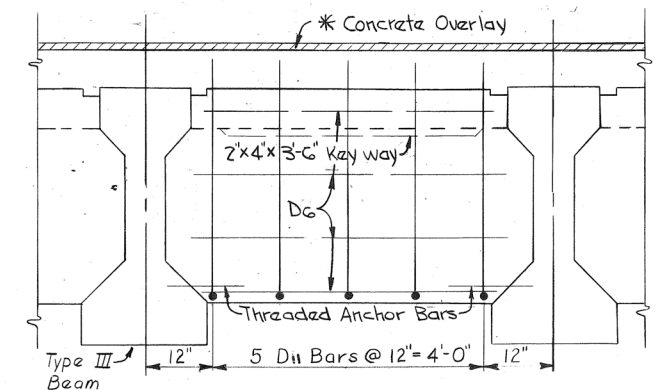


* 1/2" Latex Concrete Overlay or 2" Portland Cement Overlay.
Plans are detailed for 1/2" overlay



Void this Sheet
See Sheet 13 A

SUPERSTRUCTURE DETAILS
Work This Sheet with Sheets 11, 12, 14, 15 & 16



PART SECTION J-J
INTERMEDIATE DIAPHRAGM
(From Sheet 12)

RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 13

COMMONWEALTH OF KENTUCKY	
BUREAU OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
KNOX	
BARBOURVILLE-ARTEMUS ROAD (KY. 225)	
ROAD	
STATION 512+68.50	P. E. PROJECT NO.
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.
DRAWING NO.	
19194	

DESIGNED BY	JMC	CHECKED BY	WEM	DATE	10/74
DRAWN BY		CHECKED BY	JMC	DATE	11/74
TRACED BY		CHECKED BY		DATE	
REVISED		CHECKED BY		DATE	

VOID THIS SHEET - SEE SHEET 14A

DATE 7-77

SLK



NUMBER		BILL OF REINFORCEMENT														
SPAN PORT 2-6	MARK	TYPE	SIZE	No	Length		Location	a		b		c		d		
					Ft.	In.		Ft.	In.	Ft.	In.	Ft.	In.			
12	0	D ₁	Ⓒ	#5	24	5	10	End Diaph. Sp. 1/7	1	3	2	4				
38	0	D ₂	Ⓒ	#5	76	6	10	End Diaph. Sp. 1/7	1	3	2	10				
41	0	D ₃	Ⓒ	#5	82	4	6	Diaph. Sp. 1/7								
4	0	D ₄	Ⓒ	#5	8	5	6	End Diaph. Sp. 1/7	3	4	0	7	0	6/4	4	6
0	38	D ₅	Ⓒ	#5	38	8	1	End Diaph. Sp. 2/6	1	3	3	6				
0	680	D ₆	Str.	#5	680	4	2	Diaph. Sp. 2-6								
25	0	D ₇	Ⓒ	#5	50	5	4	Int. Diaph. Sp. 1/7	0	9	2	4				
0	76	D ₈	Ⓒ	#5	76	9	2	Diaph. Sp. 2-6	2	3	3	6				
0	12	D ₉	Ⓒ	#5	12	7	2	End Diaph. Sp. 2/6	1	3	3	0				
0	8	D ₁₀	Ⓒ	#5	8	5	3	Pier. Diaph.	3	4	0	5	0	6/4	4	2
0	125	D ₁₁	Ⓒ	#5	125	7	8	Int. Diaph. Sp. 2-6	0	9	3	6				
43	345	S ₁	Str.	#5	431	31	5	Bot. Slab								
42	344	S ₂	Ⓒ	#5	428	30	3	Slab								
0	693	S ₃	Str.	#4	693	58	10	Slab & Curb Sp. 2-6								
112	0	S ₄	Str.	#4	224	50	3	Slab & Curb Sp. 1/7								
0	108	S ₅	Str.	#11	108	45	0	Slab @ Beam								
0	120	S ₆	Ⓒ	#11	120	34	0	Slab @ Piers 2-5								
40	40	S ₇	Ⓒ	#6	120	10	0	Slab Corners								
174	380	S ₈	Ⓒ	#5	1728	5	4	Barrier Curb								
174	380	S ₉	Ⓒ	#4	1728	5	10	Barrier Curb								
—	—	S ₁₀						NOT USED								
12	0	S ₁₁	Str.	#10	24	50	3	Slab @ Brms.								
0	80	S ₁₂	Str.	#4	80	40	11	Curb. Sp. 2-6								
—	—	S ₁₃						NOT USED								
0	24	S ₁₄	Str.	#11	24	22	0	Slab @ Brms.								
43	345	S ₁₅	Str.	#5	431	29	0	Top of Slab								
86	546	S ₁₆	Str.	#7	1718	8	3	Top of Slab								
0	40	S ₁₇	Str.	#8	40	34	0	Slab @ Piers 2-5								

ESTIMATE OF QUANTITIES				
ITEM	SPANS 1-7	SPANS 2-6	TOTAL	UNITS
Concrete, Class "AA" Reinforcement	66.9 Ea. 15,139 Ea.	517.2 162,579	650.0 192,847	Cu. Yds. Lbs.

Note: Drain spacing is approximate only. Care shall be taken by the contractor to locate the drains in such a manner that they will be aligned with the drain pipe bracket inserts in the exterior precast girders.



* 1 1/2" Latex Concrete Overlay or 2" Portland Cement Overlay. (Plans are detailed for 1 1/2" Overlay.

5/16" Ø holes for
7/8" Ø Bolts
Bracket 3/8" x 2 1/2" RS

NOTE: FOR DRAIN DETAIL NOTES SEE
GENERAL NOTES, FOR LOCATION
SEE PLAN SHEETS 11, 12 & 13.
APPROX WEIGHT OF ONE DRAIN
IS 75 LBS. 28 FLOOR DRAINS REQ'D.

Void This Sheet
See Sheet 14A

RELOC.KY. 225 OVER CUMBERLAND RIVER

SHEET 14

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX

BARBOURVILLE-ARTEMUS ROAD (KY. 225)

ROAD

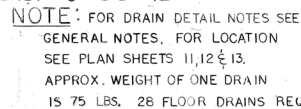
STATION 512+68.50		P. E. PROJECT NO.	
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.	

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		19194

19194

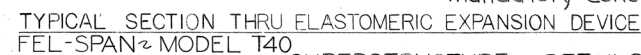
19194

DESIGNED BY	JMC	CHECKED BY	WEM	DATE	10/74	REVISION	Removed Overlay	Added Epoxy Coated Reinf.	DATE	8/11/6-77
DRAWN BY	SLG	CHECKED BY	JMC	DATE	11/74	REVISION	Revised Diaphragm Reinforcement	JMC	DATE	10/2/77
DESIGNED BY		CHECKED BY		DATE		REVISION			DATE	



Thermal Expansion according to the design is supervised. No specialties are required Epoxy Grout

DETAIL OF CURB TREATMENT
FEL-SPAN MODEL T40



Work this sheet with Sheets 11, 12, 13, 15 & 16

NOTE: "E" DENOTES EPOXY COATED REINFORCING BARS.

ESTIMATE OF QUANTITIES				
ITEM	SPANS 1-7	SPANS 2-6	TOTAL	UNITS
CONCRETE, CLASS "AA"	76.2	590.0	742.4	CU. YDS.
REINFORCEMENT	(7.13) (25.080)		(6.173)	LBS.
EPOXY REINFORCEMENT	28.077	124.032	152.109	LBS.
	12.189	50.268	62.052	

RELOC.KY. 225 OVER CUMBERLAND RIVER

SHEET 14 A

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX

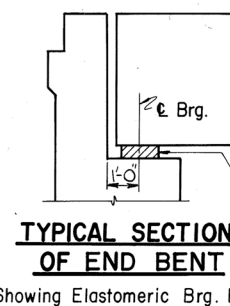
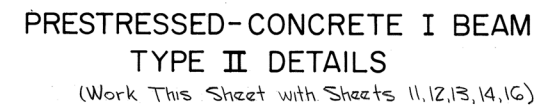
BARBOURVILLE-ARTEMUS ROAD (KY. 225)

STATION 512+68.50 ROAD P. E. PROJECT NO.

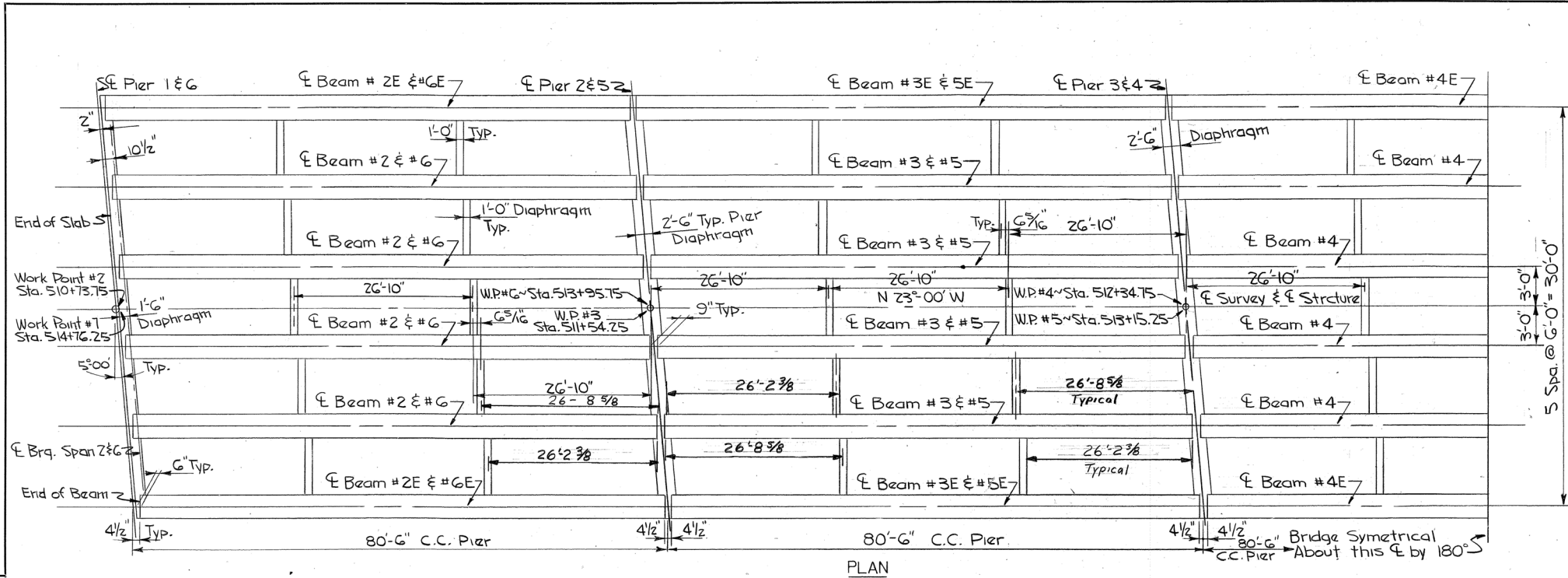
DRAWING NO.	
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19194

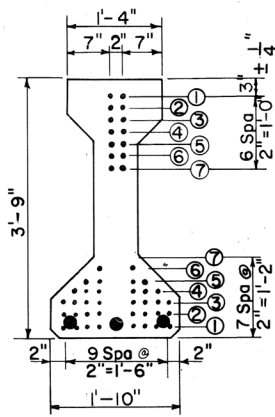
DESIGNED BY	JMC	CHECKED BY	JMC	DATE	10/14	Revised Concrete Overlay	REVISED		DATE	11/6-77
DRAWN BY	CLR	CHECKED BY	JMC	DATE	11/74		REVISED		DATE	
TRACED BY		CHECKED BY		DATE			REVISED		DATE	
		CHECKED BY		DATE			REVISED		DATE	

[illegible]

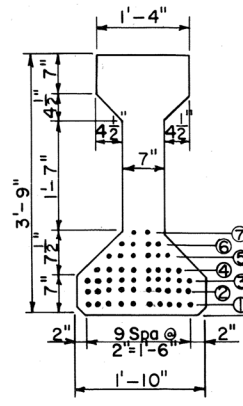
LETTING DATE:



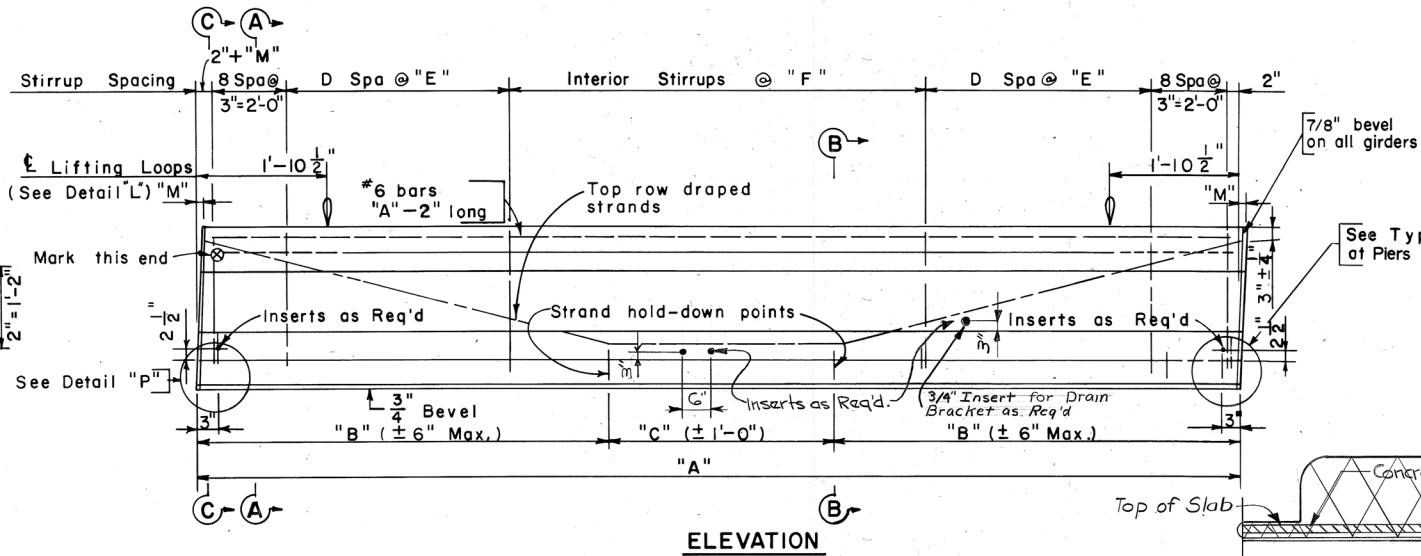
PLAN



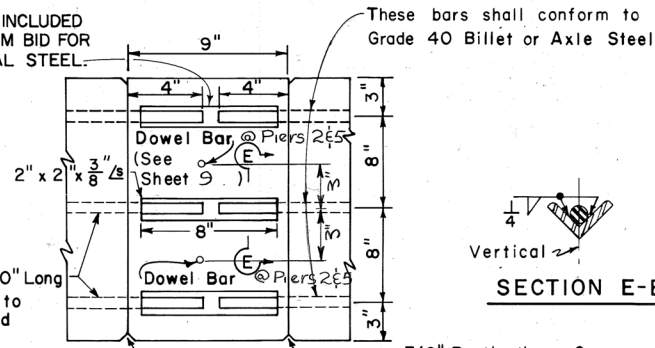
TYPE III
45" BEAM
SECTION A-A



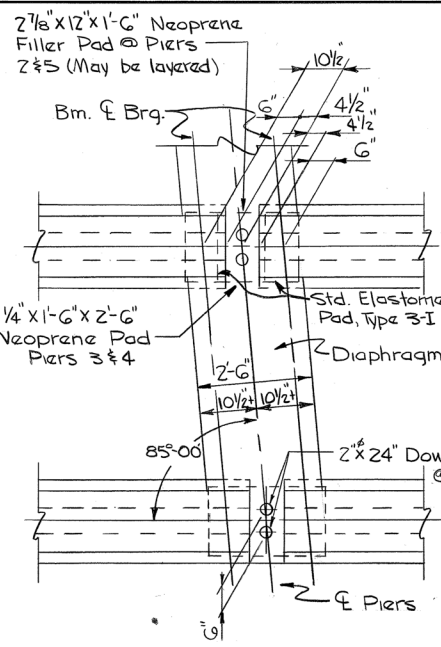
TYPE III
45" BEAM
SECTION B-B



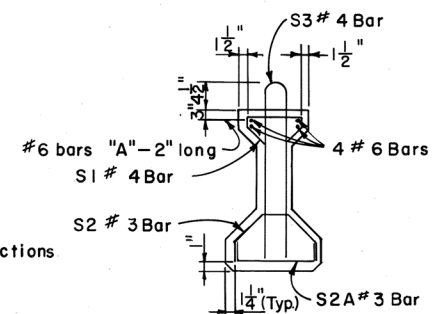
ELEVATION



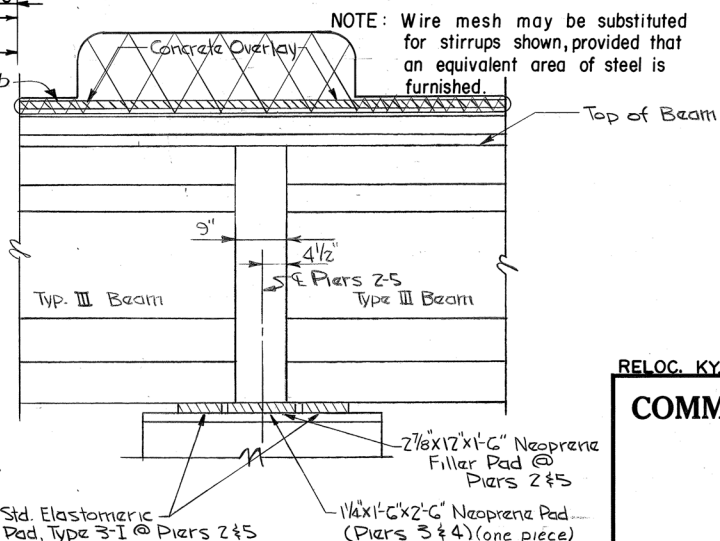
DETAIL "P"
(Typical At Piers)



DETAIL AT PIER 2, 3, 4 & 5
(For Detail @ Pier 1 & 6 See Sheet 15)

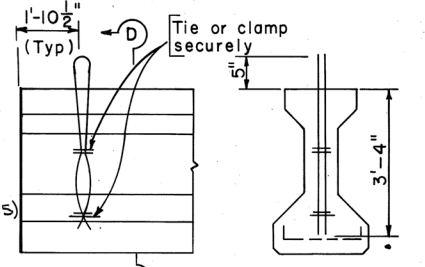


SECTION C-C
Typical Section showing
Steel Reinforcement



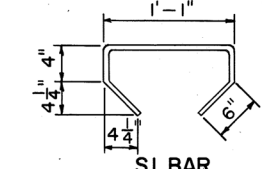
PRESTRESSED-CONCRETE I BEAM
TYPE III DETAILS
(Work This Sheet with Sheets 11, 12, 13, 14, & 15)

Prestressing Strand Lift Device Capacity		
Strand Size	No. Strands	Allow. Bm. Wt.
1/16"	2	21 Tons
1/8"	2	36 Tons

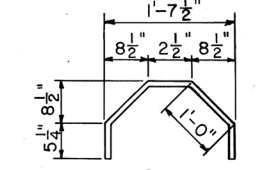


LIFTING DEVICE
DETAIL "L"

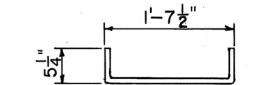
NOTE: Lifting shall be by equal loads to each pair of loops



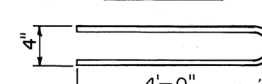
S1 BAR



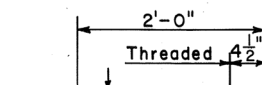
S2 BAR



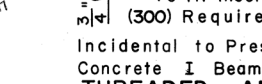
S2A BAR



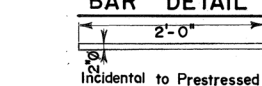
S3 BAR



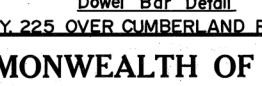
Threaded 4 1/2"



To fit Insert (300) Required



Incidental to Prestressed Concrete I Beam (24 Req'd)



Dowel Bar Detail

RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 16

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF KNOX

BARBOURVILLE-ARTEMUS ROAD (KY. 225)

ROAD
STATION 512+68.50 P. E. PROJECT NO.

CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.

DRAWING NO.
19194

*These Dimensions Given on E of Beams

BEAM DIMENSIONS *									
MARK	NO. REQD.	A	B	C	D	E	F	M	APPROX. WEIGHT EACH
2	6	79'-9"	26'-7"	26'-7"	24	9'	12"	5/8"	46,494 #
3	6	79'-9"	26'-7"	26'-7"	24	9'	12"	3/8"	46,494 #
4	6	79'-9"	26'-7"	26'-7"	24	9'	12"	0	46,494 #
5	6	79'-9"	26'-7"	26'-7"	24	9'	12"	3/8"	46,494 #
6	6	79'-9"	26'-7"	26'-7"	24	9'	12"	5/8"	46,494 #

NUMBER OF 1/2 0-7 WIRE STRANDS IN INDICATED ROW

MARK	MIDSPAN (SECTION B-B)							END (SECTION A-A)							TOTAL NO.	INITIAL PRESTRESS FORCE/STRAND (lbs)
	1	2	3	4	5	6	7	1	2	3	4	5	6	7		
2	8	8	6	6				8	6	4	4				28	28,910
3	8	8	6	6				8	6	4	4				28	28,910
4	8	8	6	6				8	6	4	4				28	28,910
5	8	8	6	6				8	6	4	4				28	28,910
6	8	8	6	6				8	6	4	4				28	28,910

THESE 4s INCLUDED IN LUMP SUM BID FOR STRUCTURAL STEEL.

These bars shall conform to Grade 40 Billet or Axle Steel.

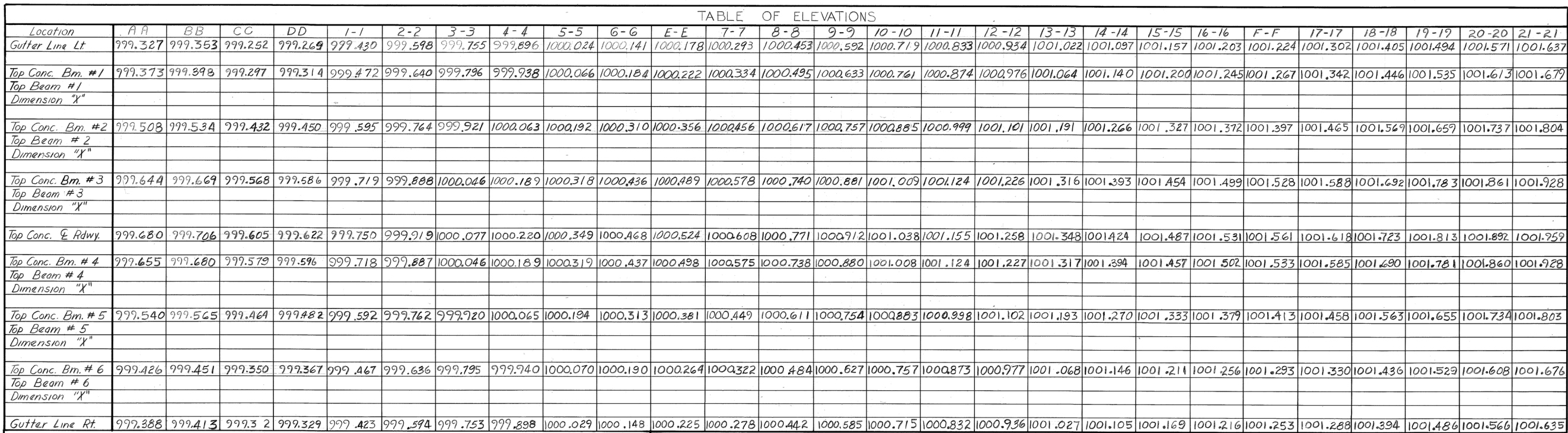
#10 Bars 3'-0" Long (Incidental to Prestressed Beams)

Vertical

SECTION E-E

7/8" Rustication Groove

DESIGNED BY	WEM	CHECKED BY	KEF	DATE	10-74
DETAILED BY	CLR	CHECKED BY	JMC & BJC	DATE	11-74
REVISION		CHECKED BY		DATE	
REVISION		CHECKED BY		DATE	
REVISION		CHECKED BY		DATE	
REVISION		CHECKED BY		DATE	
Note for Top of Slab Elevations				DATE	6-77

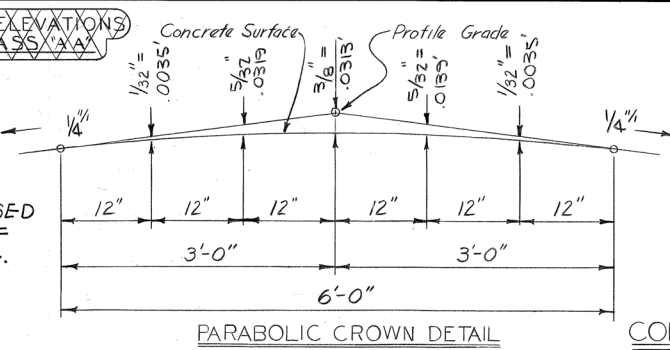


Slab Check Point	Top of Slab Elevation	Bot of Slab Elevation	Computed Slab Thickness	Slab Check Point	Top of Slab Elevation	Bot of Slab Elevation	Computed Slab Thickness	Slab Check Point	Top of Slab Elevation	Bot of Slab Elevation	Computed Slab Thickness
A-2	999.702			B-9	1000.819			C-14	1001.424		
B-1	999.657			C-8	1000.771			D-15	1001.395		
C-2	999.919			D-9	1000.817			E-14	1001.208		
D-1	999.655			E-8	1000.548			A-18	1001.508		
E-2	999.699			A-12	1001.038			B-19	1001.721		
A-5	1000.129			B-12	1001.164			C-18	1001.723		
B-4	1000.126			C-11	1001.155			D-18	1001.627		
C-5	1000.349			D-12	1001.164			E-19	1001.592		
D-4	1000.127			E-11	1000.936			A-22	1001.792		
E-5	1000.132			A-15	1001.263			B-21	1001.866		
A-8	1000.556			B-15	1001.391			C-22	1002.011		

NOTE - CONSTRUCTION ELEVATIONS
ARE TOP OF CLASS "AA"
CONCRETE

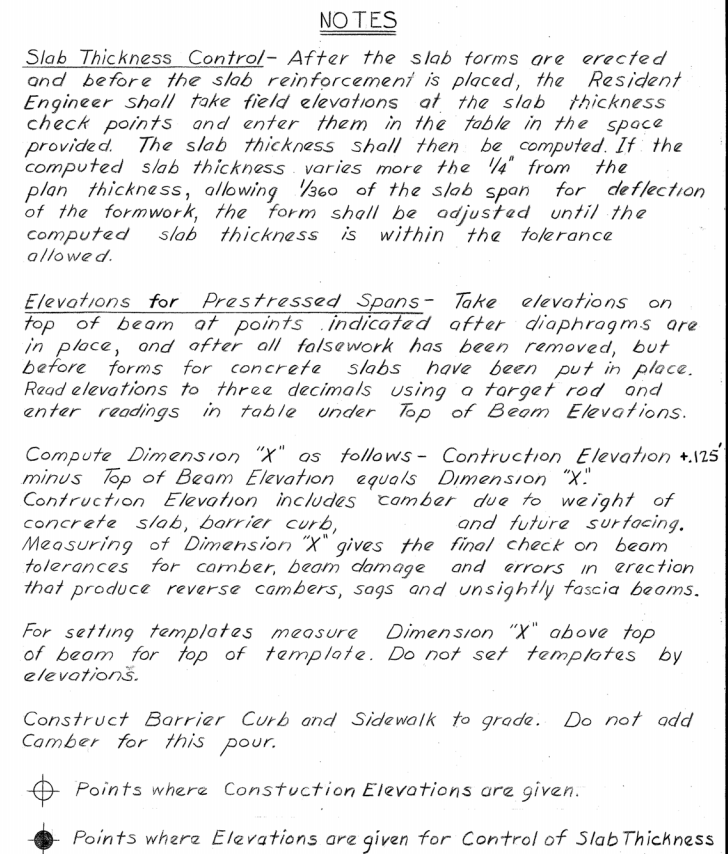
NOTE: EXCLUDING SKEW
LINES A-A AND B-B,
ALL CONSTRUCTION
ELEVATIONS ON THIS
SHEET ARE TO BE RAISED
.125 TO OBTAIN TOP OF
CLASS "AA" CONCRETE.

12"



CONSTRUCTION ELEVATIONS
(Work This Sheet with Sheets 18 & 19)

DESIGNED BY <u>WEM</u>	CHECKED BY <u>KEF</u>	DATE <u>10/74</u>	REVISED _____ DATE _____ REVISED _____ DATE _____ REVISED _____ DATE _____ REVISED _____ DATE _____
DETAILS BY <u>EQ</u>	CHECKED BY <u>WML</u>	DATE <u>11/74</u>	
TRACED BY _____	CHECKED BY _____	DATE _____	
_____	_____	_____	
Note for Top of Slope Elevations			dm 6-77



NOTE: ALL CONSTRUCTION ELEVATIONS ON THIS SHEET
ARE TO BE RAISED .125 TO OBTAIN TOP OF
CLASS "AA" CONCRETE.

[illegible]

Note: Work this Sheet with Sheets 17 & 19
RELOC. KY. 225 OVER CUMBERLAND RIVER SHEET 18A

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
KNOX
BARBOURVILLE - ARTEMUS ROAD (KY. 225)
ROAD
STATION 512+68.50
P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		19194

LETTING DATE

DATE 6-77

REVISION Note for Top of Slab Elevations

DESIGNED BY WEM CHECKED BY JEF DATE 11/74
 REVISION Note for Top of Slab Elevations
 DATE 11/74
 CHECKED BY JMC
 REVISION Note for Top of Slab Elevations
 DATE 11/74
 CHECKED BY JMC
 REVISION Note for Top of Slab Elevations
 DATE 11/74
 CHECKED BY JMC

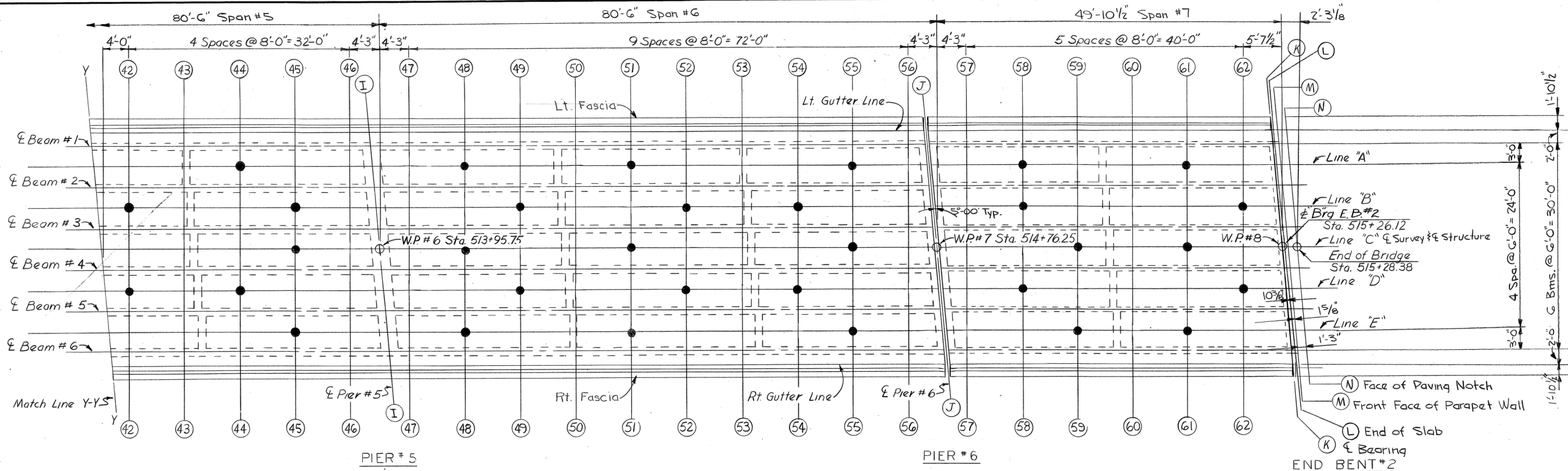


TABLE OF ELEVATIONS

Location	42-42	43-43	44-44	45-45	46-46	I-I	47-47	48-48	49-49	50-50	51-51	52-52	53-53	54-54	55-55	56-56	J-J	57-57	58-58	59-59	60-60	61-61	62-62	K-K	L-L	M-M	N-N
Gutter Line Lt.	1001.635	1001.566	1001.486	1001.394	1001.188	1001.253	1001.216	1001.169	1001.105	1001.027	1000.936	1000.832	1000.715	1000.585	1000.442	1000.278	1000.225	1000.148	1000.029	999.898	999.753	999.594	999.423	999.329	999.312	999.413	999.388
Top Conc. Bm. #1	1001.676	1001.608	1001.529	1001.436	1001.330	1001.293	1001.256	1001.211	1001.146	1001.068	1000.977	1000.873	1000.757	1000.627	1000.484	1000.322	1000.264	1000.190	1000.070	999.940	999.795	999.636	999.467	999.367	999.350	999.451	999.426
Top Beam #1 Dimension "X"																											
Top Conc. Bm. #2	1001.803	1001.734	1001.655	1001.563	1001.458	1001.413	1001.379	1001.333	1001.270	1001.193	1001.102	1000.998	1000.883	1000.754	1000.611	1000.449	1000.381	1000.313	1000.194	1000.065	999.920	999.762	999.592	999.482	999.464	999.565	999.540
Top Beam #2 Dimension "X"																											
Top Conc. Bm. #3	1001.928	1001.860	1001.781	1001.690	1001.585	1001.533	1001.502	1001.457	1001.394	1001.317	1001.227	1001.124	1001.008	1000.880	1000.738	1000.575	1000.498	1000.437	1000.319	1000.189	1000.046	999.887	999.718	999.596	999.579	999.680	999.655
Top Beam #3 Dimension "X"																											
Top Conc. & Rdwy.	1001.959	1001.892	1001.813	1001.723	1001.618	1001.561	1001.531	1001.487	1001.424	1001.348	1001.258	1001.155	1001.038	1000.912	1000.771	1000.608	1000.524	1000.468	1000.349	1000.220	1000.077	999.919	999.750	999.622	999.605	999.706	999.680
Top Conc. Bm. #4	1001.928	1001.861	1001.783	1001.692	1001.588	1001.528	1001.499	1001.454	1001.393	1001.316	1001.226	1001.124	1001.009	1000.881	1000.740	1000.578	1000.489	1000.436	1000.318	1000.189	1000.046	999.888	999.719	999.586	999.568	999.669	999.644
Top Beam #4 Dimension "X"																											
Top Conc. Bm. #5	1001.804	1001.737	1001.658	1001.569	1001.465	1001.397	1001.372	1001.327	1001.266	1001.191	1001.101	1000.999	1000.885	1000.757	1000.617	1000.456	1000.356	1000.310	1000.192	1000.063	999.921	999.764	999.595	999.450	999.432	999.534	999.508
Top Beam #5 Dimension "X"																											
Top Conc. Bm. #6	1001.679	1001.613	1001.535	1001.446	1001.342	1001.267	1001.245	1001.200	1001.140	1001.064	1000.976	1000.874	1000.761	1000.633	1000.495	1000.334	1000.222	1000.184	1000.066	999.938	999.796	999.640	999.472	999.314	999.297	999.398	999.373
Top Beam #6 Dimension "X"																											
Gutter Line Rt.	1001.637	1001.571	1001.494	1001.405	1001.302	1001.224	1001.203	1001.157	1001.157	1001.022	1000.934	1000.833	1000.719	1000.592	1000.453	1000.293	1000.178	1001.141	1000.029	999.896	999.755	999.598	999.430	999.269	999.252	999.353	999.327

TABLE OF ELEVATIONS FOR CONTROL OF SLAB THICKNESS

Slab Check Point	Top of Slab Elevation	Bot. of Slab Elevation	Computed Slab Thickness	Slab Check Point	Top of Slab Elevation	Bot. of Slab Elevation	Computed Slab Thickness	Slab Check Point	Top of Slab Elevation	Bot. of Slab Elevation	Computed Slab Thickness
B-45	1001.627			C-51	1001.258			D-58	1000.255		
C-45	1001.723			D-52	1001.062			E-59	1000.001		
D-44	1001.721			E-51	1001.038			A-61	999.699		
E-45	1001.508			A-55	1000.548			B-62	999.655		
A-48	1001.272			B-54	1000.817			C-61	999.919		
B-49	1001.332			C-55	1000.771			D-62	999.657		
C-46	1001.487			D-54	1000.819			E-61	999.702		
D-49	1001.330			E-55	1000.556						
E-48	1001.263			A-58	1000.132						
A-51	1001.040			B-58	1000.257						
B-52	1001.061			C-59	1000.220						

NOTE: CONSTRUCTION ELEVATIONS ARE AT TOP OF CLASS "AA" CONCRETE

NOTE: EXCLUDING SKEW LINES N-N AND M-M, ALL CONSTRUCTION ELEVATIONS ON THIS SHEET ARE TO BE RAISED .125 TO OBTAIN TOP OF CLASS "AA" CONCRETE.

RELOC. KY. 225 OVER CUMBERLAND RIVER

SHEET 19

COMMONWEALTH OF KENTUCKY

BUREAU OF HIGHWAYS

FRANKFORT

COUNTY OF

KNOX

BARBOURVILLE-ARTEMUS ROAD (KY. 225)

ROAD

STATION 512+68.50

P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.

MAINTENANCE PROJECT NO.

DRAWING NO.

19194

CONSTRUCTION ELEVATIONS

(Work This Sheet with Sheets 17 & 18)