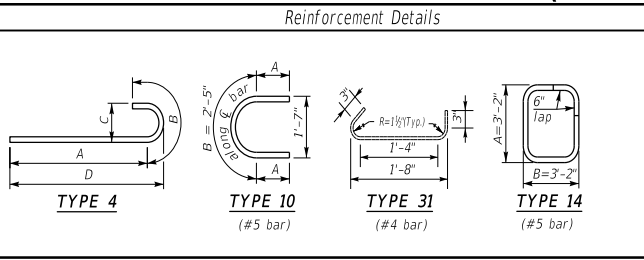
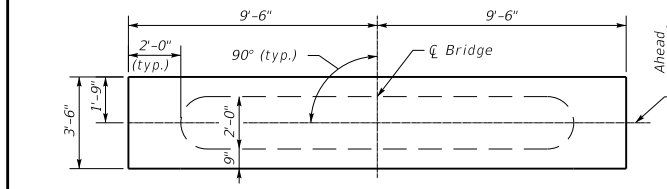


# 0° SKEW 16'-0" - 17'-6" BRIDGE WIDTH (No Seismic Load)

MARK		P1		P2		P3		P4				P5		P6		P7		P8		P9(e)		P10(e)		P11(e)																				
TYPE		Str.		Str.		Str.		Type 4				Type 10		Str.		Type 31		Str.		Str.		Type 14		Type 14																				
SIZE																																												
No.	Length	No.	Length	No.	Length	No.	Length	A	B	C	D	No.	Length	A	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length																		
10-11	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	9	10	7	5	12	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2					
12-13	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	14	5	13	0	12	49	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2
14-15	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	18	5	13	0	12	63	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2
16-17	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	22	5	13	0	12	77	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2
18-19	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	26	5	13	0	12	91	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2
20-21	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	30	5	13	0	12	105	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2
22-23	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	34	5	13	0	12	119	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2
24-25	30	8	12	8	26	5	19	8	12	30	5	12	8	8	42	8	10	8	7	5	12	2	6	38	5	13	0	12	133	2	5	42	8	10	8	8	10	8	4	10	8	19	13	2



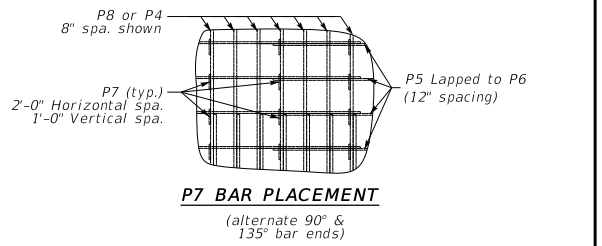
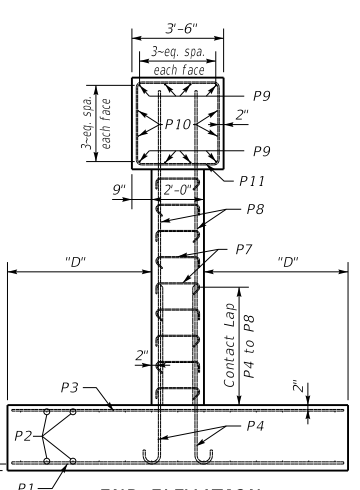
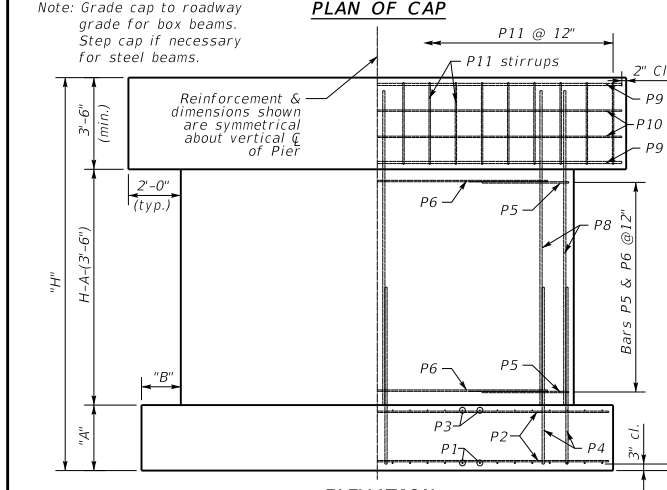
DIMENSIONS TABLE												QUANTITIES		
H	A	B	C	D	H	CONCRETE CLASS "A"		STEEL REINFORCEMENT EPOXY COATED		STEEL REINFORCEMENT				
						CU. YDS. (1)	LBS.	LBS.	LBS.					
10-11	2	6	2	6	10	0	5	6	10-11	38.3	740	4113		
12-13	2	6	2	6	10	0	5	6	12-13	40.5	740	4446		
14-15	2	6	2	6	10	0	5	6	14-15	42.6	740	4779		
16-17	2	6	2	6	10	0	5	6	16-17	44.8	740	5112		
18-19	2	6	2	6	10	0	5	6	18-19	47	740	5445		
20-21	2	6	2	6	10	0	5	6	20-21	49.1	740	5778		
22-23	2	6	2	6	10	0	5	6	22-23	51.3	740	6111		
24-25	2	6	2	6	10	0	5	6	24-25	53.4	740	6444		



Note: All bars in cap shall be epoxy coated.

Note: All concrete shall be Class "A"

(1) Quantity is based on taller height. Reduce by 1.0 cubic yd. for shorter height.



## GENERAL NOTES

**SPECIFICATIONS:** Construct piers according to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Piers are designed for side by side box beams as detailed in Standard Drawings BDP-001 through BDP-012, current edition. They may be slightly modified to allow for 17'-6" rolled steel beam bridge width.

**FOUNDATION PRESSURE:** Construct pier footings on solid rock bearing material that can support a pressure of 8000 psf service or 10,800 psf strength factored as recommended by a geotechnical engineer.

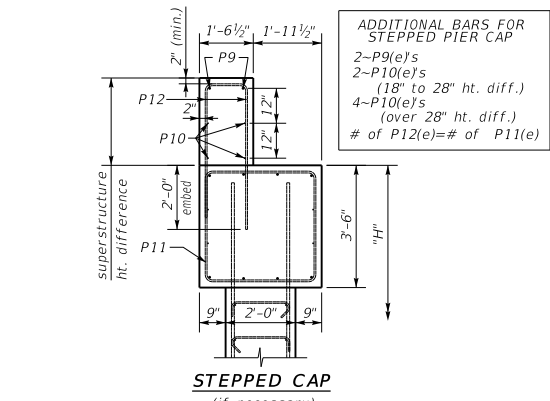
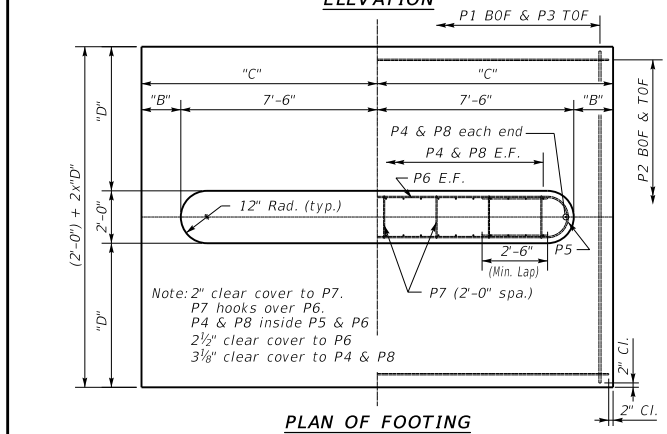
**DESIGN LOADS:** Pier is designed for the CB42 beam superstructure with 3-97 foot spans. Pier is designed to handle a half a 97 foot span for thermal load with expansion bearings under the beams. Pier is designed for 100 mph wind. Wind on superstructure is for 1-97' span longitudinal and transverse. Pier is designed for stream flow of 10 ft./sec. up to the top of the pier. It is not designed for flow acting on the superstructure. Pier is not designed for earthquake loading.

**DESIGN APPLICABILITY:** Consult with a structural engineer to determine if these details are applicable for any particular project.

**FOOTING ELEVATION:** Construct bottom of footing below the anticipated scour elevation. (This typically entails embedding the footings 1'-0" to 2'-0" into rock and pouring concrete directly against cut rock faces as recommended by geotechnical engineer.)

**NOTE:** Distances to bars shown are clear dimensions unless otherwise noted.

**MATERIAL SPECIFICATIONS:**  
 Concrete, Class "A" = 3500 psi  
 Steel Reinforcement = Grade 60



**KENTUCKY DEPARTMENT OF HIGHWAYS**

**Standard Pier**

**0° Skew**

**16'-0"-17'-6" Bridge Width**

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STANDARD DRAWING NO. **BSP-001**

SUBMITTED *B. J. Adams* **02-26-20**  
DIRECTOR DIVISION OF STRUCTURAL DESIGN DATE

APPROVED *[Signature]* **02-26-20**  
STATE ENGINEER DATE