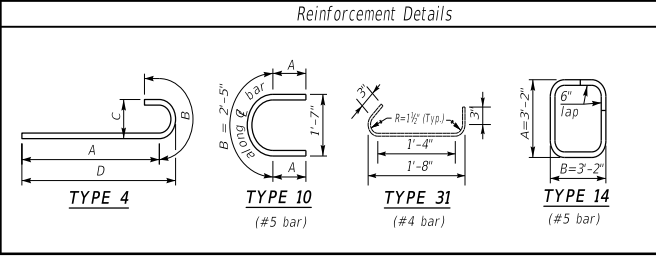


30° SKEW 24'-0" - 25'-6" BRIDGE WIDTH (No Seismic Load)

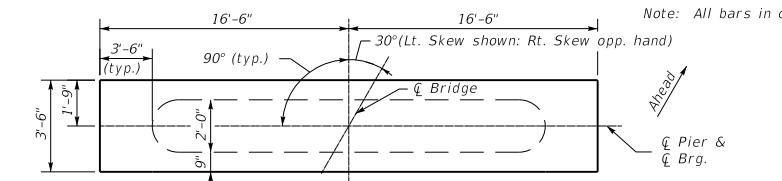
MARK		P1		P2		P3		P4				P5				P6		P7		P8		P9(e)		P10(e)		P11(e)																						
TYPE		Str.		Str.		Str.		Type 4				Type 10				Str.		Type 31		Str.		Str.		Type 14		Type 14																						
SIZE		No.		No.		No.		No.				No.				No.		No.		No.		No.		No.		No.		No.																				
H	10-11	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	10	10	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2
	12-13	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	14	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	
	14-15	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	18	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	
	16-17	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	22	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	
	18-19	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	26	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	
	20-21	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	30	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	
	22-23	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	34	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	
	24-25	47	8	12	8	26	6	31	2	12	47	5	12	8	8	76	8	8	10	8	7	5	11	5	0	8	7	9	38	5	24	0	12	65	2	5	76	8	8	10	8	8	32	8	33	12	2	



QUANTITIES

DIMENSIONS TABLE										CONCRETE CLASS "A"			STEEL REINFORCEMENT EPOXY COATED		STEEL REINFORCEMENT									
H										CU. YDS. (1)			LBS.		LBS.									
H	A	B	C	D	H	A	B	C	D	H	A	B	C	D	H	A	B	C	D					
10-11	2	6	2	9	15	9	5	6	10-11	63					1291					7398				
12-13	2	6	2	9	15	9	5	6	12-13	66.8					1291					7818				
14-15	2	6	2	9	15	9	5	6	14-15	70.5					1291					8459				
16-17	2	6	2	9	15	9	5	6	16-17	74.3					1291					9039				
18-19	2	6	2	9	15	9	5	6	18-19	78.1					1291					9620				
20-21	2	6	2	9	15	9	5	6	20-21	81.9					1291					10200				
22-23	2	6	2	9	15	9	5	6	22-23	85.7					1291					10781				
24-25	2	6	2	9	15	9	5	6	24-25	89.5					1291					11362				

(For Stepped Cap)
 A=Ht. diff. -2' Cl.
 +2'-0" emb.
 B=1'-2 1/2"

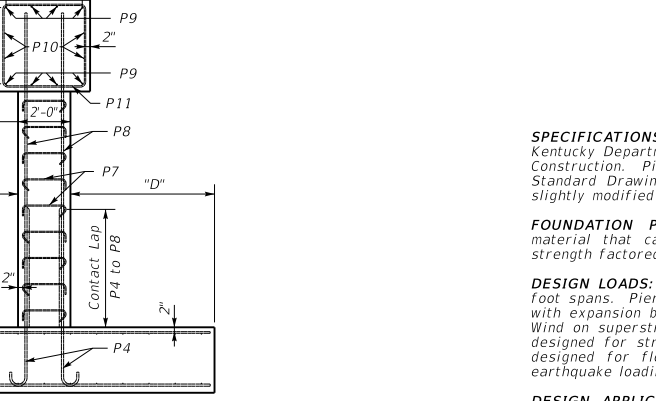
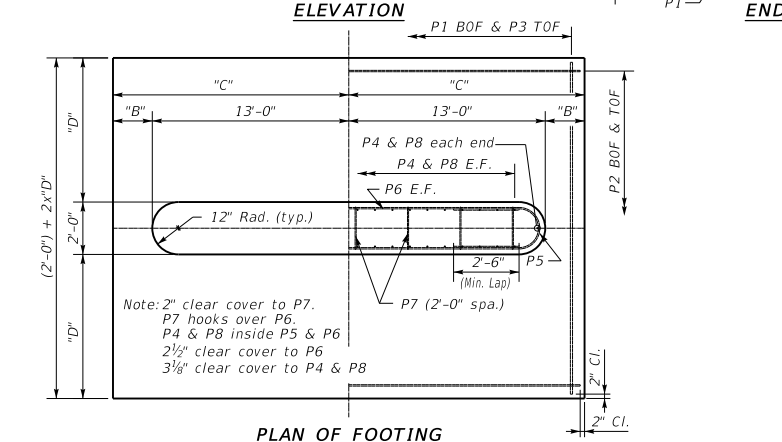
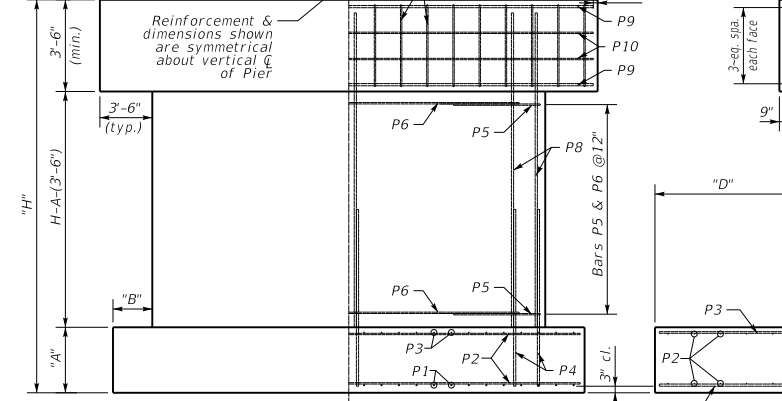


Note: All bars in cap shall be epoxy coated.

Note: Grade cap to roadway grade for box beams. Step cap if necessary for steel beams.

Note: All concrete shall be Class "A"

(1) Quantity is based on taller height. Reduce by 1.9 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 box beams as detailed in Standard Drawings BDP-001 through BDP-012, current edition. They may be slightly modified to allow for 25'-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

30° Skew

24'-0"-25'-6" Bridge Width

STANDARD DRAWING NO. **BSP-008**

SUBMITTED *[Signature]* **02-26-20**
DIRECTOR DIVISION OF STRUCTURAL DESIGN DATE

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