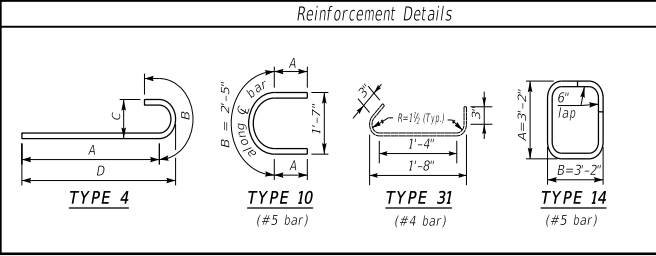
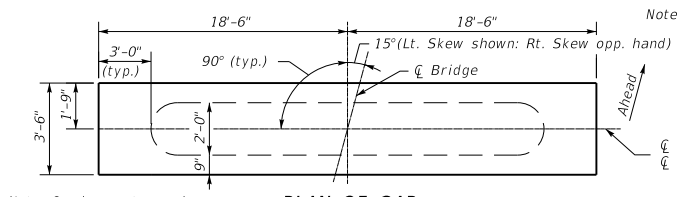


15° SKEW 32'-0" - 33'-6" BRIDGE WIDTH (No Seismic Load)

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		#		#		#		#				#				#		#		#		#		#		#		#																								
10-11	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	10	5	7	5	12	2	6	10	5	29	0	12	75	2	5	90	8	8	10	8	8	36	8	37	13	2
12-13	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	14	5	7	5	12	2	6	14	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	
14-15	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	18	5	7	5	12	2	6	18	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	
16-17	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	22	5	7	5	12	2	6	22	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	
18-19	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	26	5	7	5	12	2	6	26	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	
20-21	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	30	5	7	5	12	2	6	30	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	
22-23	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	34	5	7	5	12	2	6	34	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	
24-25	55	8	12	8	26	6	36	2	12	55	5	12	8	8	90	8	10	8	7	5	11	5	0	8	7	9	38	5	7	5	12	2	6	38	5	29	0	12	75	2	5	90	8	10	8	8	36	8	37	13	2	



DIMENSIONS TABLE		CONCRETE CLASS "A"			STEEL REINFORCEMENT EPOXY COATED			STEEL REINFORCEMENT				
H	A	B	C	D	H	CU. YDS. (1)	LBS.	LBS.	LBS.			
10-11	2	6	2	9	18	3	5	6	10-11	72.9	1449	8570
12-13	2	6	2	9	18	3	5	6	12-13	77.4	1449	9253
14-15	2	6	2	9	18	3	5	6	14-15	82	1449	9936
16-17	2	6	2	9	18	3	5	6	16-17	86.5	1449	10619
18-19	2	6	2	9	18	3	5	6	18-19	91	1449	11302
20-21	2	6	2	9	18	3	5	6	20-21	95.5	1449	11985
22-23	2	6	2	9	18	3	5	6	22-23	100.1	1449	12668
24-25	2	6	2	9	18	3	5	6	24-25	104.6	1449	13351

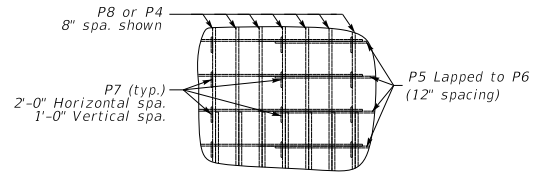
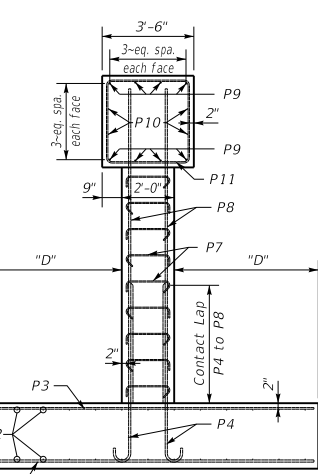
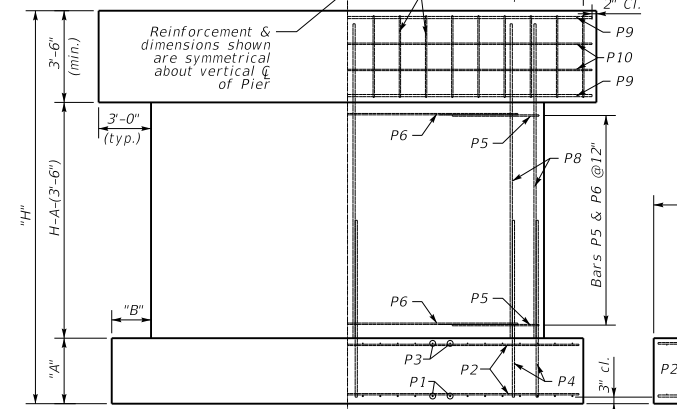


Note: All bars in cap shall be epoxy coated.

Note: All concrete shall be Class "A"

(1) Quantity is based on taller height. Reduce by 2.2 cubic yard for shorter height.

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



P7 BAR PLACEMENT
(alternate 90° & 135° bar ends)

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 33'-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.

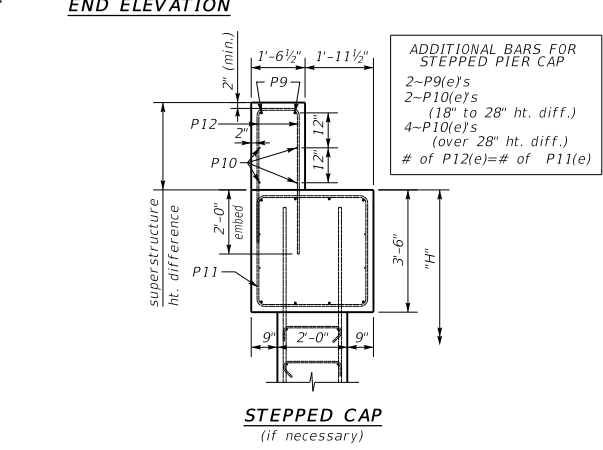
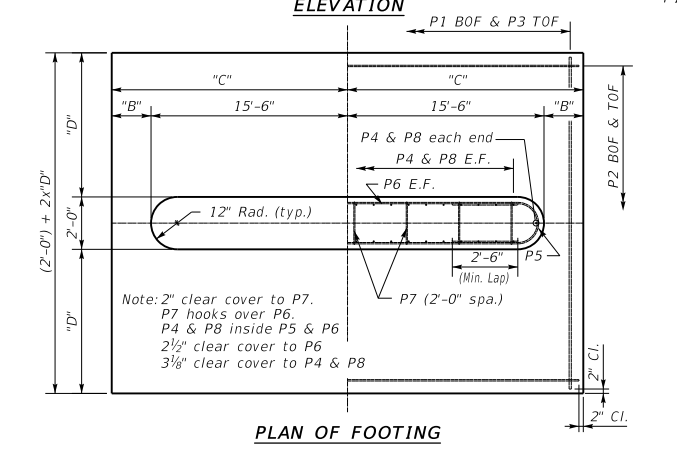
DESIGN LOADS: Pier is designed for the CB42 beam superstructure with 3-97 foot spans. Pier is designed to handle a half a 97 foot span for thermal load with expansion bearings under the beams. Pier is designed for 100 mph wind. Wind on superstructure is for 1-97' span longitudinal and transverse. Pier 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



ADDITIONAL BARS FOR STEPPED PIER CAP
2-P9(e)s
2-P10(e)s
(18" to 28" ht. diff.)
4-P10(e)s
(over 28" ht. diff.)
of P12(e) = # of P11(e)

KENTUCKY DEPARTMENT OF HIGHWAYS

Standard Pier
15° Skew
32'-0"-33'-6" Bridge Width

STANDARD DRAWING NO. **BSP-006**

SUBMITTED: *Ben Adams* 02-26-20
DIRECTOR DIVISION OF STRUCTURAL DESIGN DATE

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