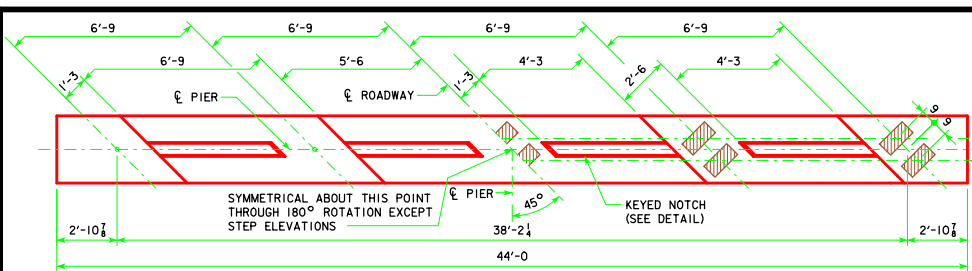
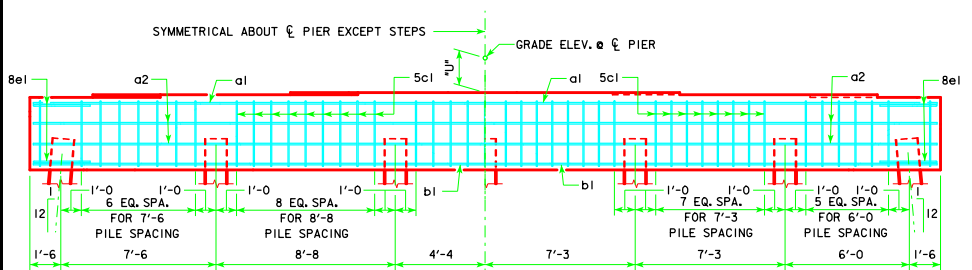


REVISED 04-13 - REVISION FOR LRFD PILE DESIGN.

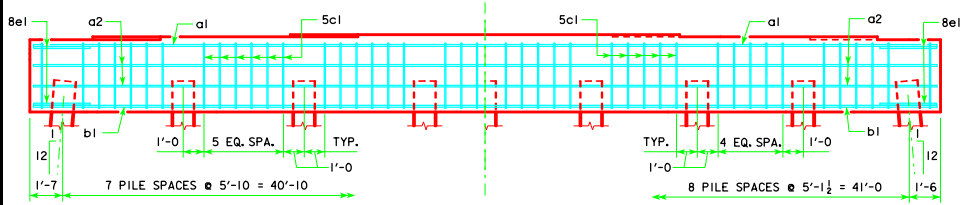


TYPICAL PLAN



6 PILE BENT

7 PILE BENT



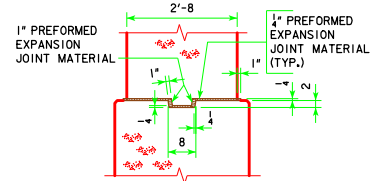
8 PILE BENT

9 PILE BENT

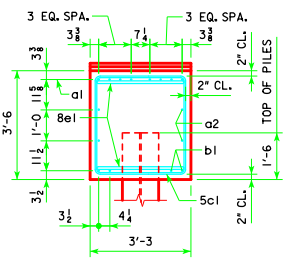
PILE BENT NOTES:

THESE PIER BENTS ARE DESIGNED FOR USE IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.
 FOR DETAILS OF TRESTLE PILES, SEE STANDARD PIOL.
 MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.
 PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

NOTE:
 THE HEIGHT OF THE STEPS ON THE BRIDGE SEAT IS EQUAL TO THE DIFFERENCE IN ELEVATIONS OF THE TOP OF SLAB AT ADJACENT BEAMS ALONG CL PIER.
 SEE SHEET H30-29-06 FOR "U" DIMENSION.



KEYED NOTCH DETAIL

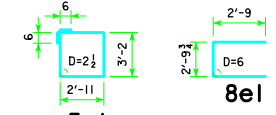


VIEW A-A
 FOR 6, 7, 8 & 9 PILE BENTS

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	6 PILE BENT			7 PILE BENT			8 PILE BENT			9 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	43'-8"		8	9	1188	8	9	1188	8	9	1188	8	9	1188
a2	43'-8"		4	8	466	4	8	466	4	8	466	4	8	466
b1	43'-8"		4	9	594	4	10	752	4	9	594	4	9	594
5c1	13'-2"		43	5	591	46	5	632	44	5	604	42	5	577
8e1	8'-4"		4	8	89	4	8	89	4	8	89	4	8	89
REINFORCING STEEL (L.B.)			2928			3127			2941			2914		
STRUCTURAL CONCRETE (CY)			3			19.5			19.5			19.5		

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D=PIN DIAMETER.

FRICTION OR POINT BEARING PILING

CL-CL ABUTMENT BEARING	PILOT TYPE 3		
	NUMBER OF TRESTLE PILES	PILE SIZE	LRFD P _u STRENGTH I ₁ DES. LOAD (KIPS)
138'-10"	6	HPI4x73	167
138'-10"	6	HPI4x89	167
151'-4"	6	HPI4x73	176
151'-4"	6	HPI4x89	176
163'-10"	7	HPI4x73	163
163'-10"	6	HPI4x89	190
176'-4"	7	HPI4x73	170
176'-4"	6	HPI4x89	198
188'-10"	7	HPI4x73	177
188'-10"	6	HPI4x89	207
201'-4"	8	HPI4x73	172
201'-4"	7	HPI4x89	197
213'-10"	8	HPI4x73	181
213'-10"	7	HPI4x89	207
226'-4"	9	HPI4x73	169
226'-4"	7	HPI4x89	217
243'-0"	9	HPI4x73	177
243'-0"	8	HPI4x89	199

- ① SEE SHEET H30-31-06 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.
- ② NOTE: P_u STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

NOTE: FRICTION BEARING INCLUDES SIDE FRICTION AND END BEARING IN SOIL. POINT BEARING INCLUDES SIDE FRICTION AND POINT BEARING IN ROCK.

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
 DECEMBER, 2006

PILE BENT PIERS HPI4 PILES 45° SKEW	H30-56-06
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LATEST REVISION DATE
 04-13
 APPROVED BY BRIDGE ENGINEER