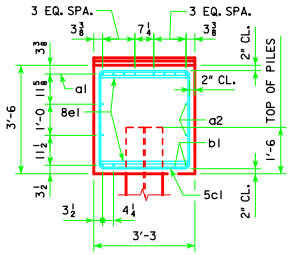
PILE BENT NOTES:

THESE PIER BENTS ARE DESIGNED FOR USE IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.

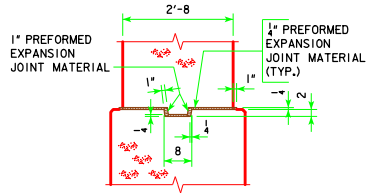
FOR DETAILS OF TRESTLE PILES, SEE STANDARD PIOL.

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.



VIEW A-A
FOR 8, 9, 10 & 11 PILE BENTS

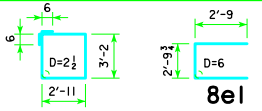


KEYED NOTCH DETAIL

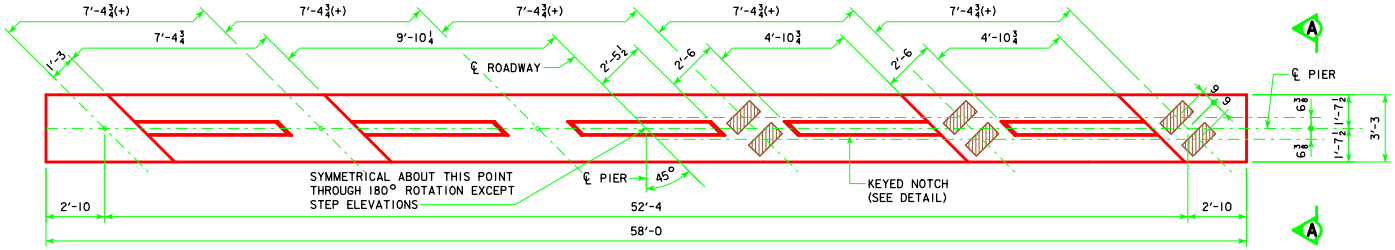
REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	57'-8		8	9	1569	8	9	1569	8	9	1569	8	9	1569
a2	57'-8		4	8	616	4	8	616	4	8	616	4	8	616
b1	57'-8		4	10	993	4	10	993	4	10	993	4	10	993
5c1	13'-2		54	5	742	62	5	851	56	5	769	62	5	851
8e1	8'-4		4	8	89	4	8	89	4	8	89	4	8	89
(1) REINFORCING STEEL (LB.)			4009			4118			4036			4118		
STRUCTURAL CONCRETE (CY)	PILE TYPE 3		26.2			26.2			26.2			26.2		

BENT BAR DETAILS



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



TYPICAL PLAN

FRICTION OR POINT BEARING PILING

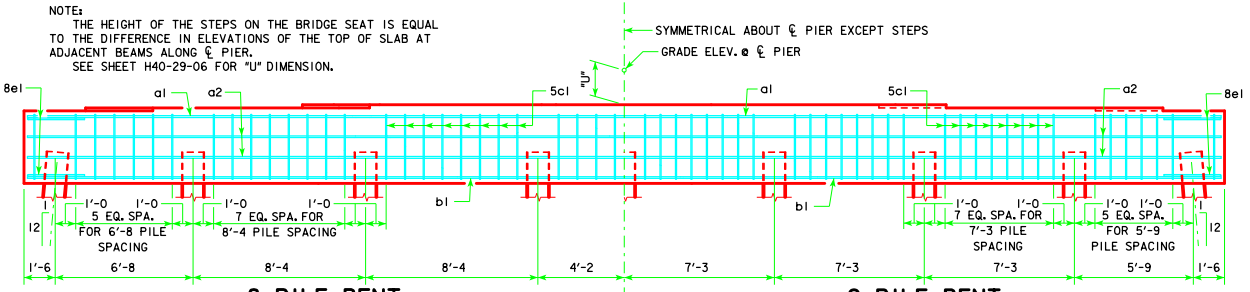
℄-℄ ABUTMENT BEARING	PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	PILE SIZE	(2) LRFD PU, STRENGTH I DES. LOAD (KIPS)
138'-10	8	HP14x73	159
	8	HP14x89	159
151'-4	8	HP14x73	167
	8	HP14x89	167
163'-10	8	HP14x73	180
	8	HP14x89	180
176'-4	9	HP14x73	167
	8	HP14x89	188
188'-10	9	HP14x73	174
	8	HP14x89	196
201'-4	10	HP14x73	174
	8	HP14x89	217
213'-10	10	HP14x73	182
	9	HP14x89	202
226'-4	11	HP14x73	174
	9	HP14x89	213
243'-0	11	HP14x73	183
	9	HP14x89	223

(1) SEE SHEET H40-31-06 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

(2) NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

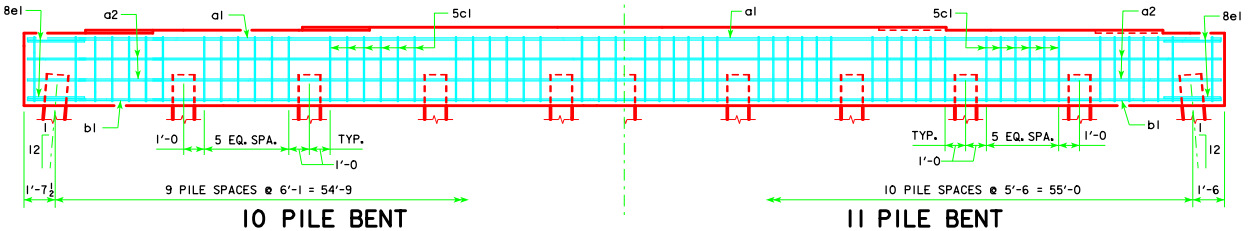
NOTE: FRICTION BEARING INCLUDES SIDE FRICTION AND END BEARING IN SOIL. POINT BEARING INCLUDES SIDE FRICTION AND POINT BEARING IN ROCK.

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 ℄ PIER.
SEE SHEET H40-29-06 FOR "U" DIMENSION.



8 PILE BENT

9 PILE BENT



10 PILE BENT

11 PILE BENT

REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.

05-13
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

AUGUST, 2009

PILE BENT PIERS HP14 PILES

45° SKEW

H40-56-06