

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.

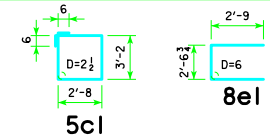
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.
PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT			12 PILE BENT			13 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	47'-2		8	9	1283	8	9	1283	8	9	1283	8	9	1283	8	9	1283	8	9	1283	8	9	1283
a2	47'-2		4	8	504	4	8	504	4	8	504	4	8	504	4	8	504	4	8	504	4	8	504
b1	47'-2		4	10	812	4	10	812	4	10	812	4	10	812	4	9	641	4	10	812	4	10	812
5c1	12'-8		46	5	608	54	5	713	64	5	846	70	5	925	78	5	1030	68	5	898	74	5	978
8e1	8'-1		4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
① REINFORCING STEEL (LB.)			3293			3398			3531			3610			3715			3412			3663		
STRUCTURAL CONCRETE (CY)			3			3			3			3			3			3			3		

- NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
- NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
- NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

BENT BAR DETAILS

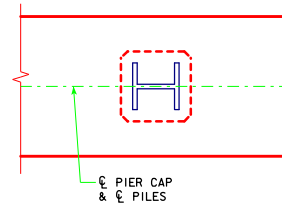


NOTE: ALL DIMENSIONS ARE OUT TO OUT. D=PIN DIAMETER.

FRICTION OR POINT BEARING PILING

ABUTMENT BEARING	PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	PILE SIZE	① LRFD P _u , STRENGTH I, DES. LOAD (KIPS)
160'-0	7	HP14x73	175
180'-0	7	HP14x89	175
200'-0	8	HP14x73	167
220'-0	7	HP14x89	190
240'-0	8	HP14x73	180
260'-0	7	HP14x89	206
280'-0	9	HP14x73	175
300'-0	7	HP14x89	225
320'-0	10	HP14x73	172
340'-0	8	HP14x89	215
360'-0	11	HP14x73	169
380'-0	9	HP14x89	207
400'-0	11	HP14x73	181
420'-0	9	HP14x89	222
440'-0	12	HP14x73	179
460'-0	10	HP14x89	214
480'-0	13	HP14x73	176
500'-0	11	HP14x89	208
520'-0	13	HP14x73	185
540'-0	11	HP14x89	218

- ① SEE SHEET RS40-168-14 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.



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES

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

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Thomas E. Mc Donnell</i>	IOWA DOT Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES OCTOBER, 2014	
		PILE BENT PIERS HP14 PILES 30° SKEW	RS40-111-14