

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

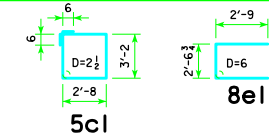
BAR	LENGTH	SHAPE	7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT			12 PILE BENT			13 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	41'-8"		8	9	1133	8	9	1133	8	9	1133	8	9	1133	8	9	1133	6	9	850	6	9	850
a2	41'-8"		4	8	445	4	8	445	4	8	445	4	8	445	4	8	445	4	8	445	4	8	445
b1	41'-8"		4	9	567	4	10	717	4	9	567	4	9	567	4	10	717	4	9	567	4	9	567
5c1	12'-8"		42	5	555	49	5	647	56	5	740	56	5	740	62	5	819	57	5	753	50	5	661
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.)			2786			3028			2971			2971			3200			2701			2609		
STRUCTURAL																							
PILE TYPE																							
CONCRETE (CY)			3			17.2			17.2			17.2			17.2			17.2			17.2		

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



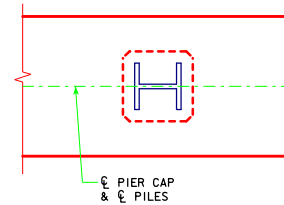
NOTE: ALL DIMENSIONS ARE OUT TO OUT. D=PIN DIAMETER.

FRICION OR POINT BEARING PILING

ABUTMENT BEARING	PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	PILE SIZE	② LRFD P _u , STRENGTH I, DES. LOAD (KIPS)
160'-0"	7	HP14x73	173
180'-0"	7	HP14x89	173
180'-0"	8	HP14x73	165
200'-0"	7	HP14x89	189
200'-0"	8	HP14x73	179
220'-0"	7	HP14x89	204
220'-0"	9	HP14x73	174
220'-0"	7	HP14x89	223
240'-0"	10	HP14x73	171
240'-0"	8	HP14x89	214
260'-0"	10	HP14x73	185
260'-0"	9	HP14x89	205
280'-0"	11	HP14x73	180
280'-0"	9	HP14x89	221
300'-0"	12	HP14x73	178
300'-0"	10	HP14x89	213
320'-0"	13	HP14x73	175
320'-0"	11	HP14x89	207
340'-0"	13	HP14x73	184
340'-0"	11	HP14x89	218

① SEE SHEET RS40-166-14 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 10° SKEW	RS40-103-14