

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, TYPES 1, 2 AND 3, SEE STANDARD PIOL.

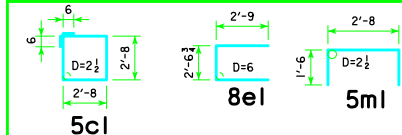
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

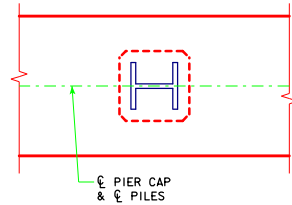
REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	10 PILE BENT			11 PILE BENT			12 PILE BENT			13 PILE BENT			14 PILE BENT			15 PILE BENT			16 PILE BENT			17 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
q1	44'-8"	=====	8	9	1215	6	9	911	6	9	911	6	9	911	6	9	911	6	9	911	6	9	911	4	9	607
q2	44'-8"	=====	4	8	477	4	8	477	4	8	477	4	8	477	4	8	477	4	8	477	4	8	477	4	8	477
b1	44'-8"	=====	4	9	607	4	9	607	4	9	607	4	9	607	4	9	607	4	9	607	4	9	607	4	8	477
5c1	11'-8"	=====	38	5	462	42	5	511	46	5	560	50	5	608	54	5	657	44	5	535	47	5	572	34	5	414
8e1	8'-1"	=====	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
5m1	5'-8"	=====	12	5	71	12	5	71	12	5	71	12	5	71	12	5	71	12	5	71	12	5	71	12	5	71
5n1	2'-8"	=====	12	5	33	12	5	33	12	5	33	12	5	33	12	5	33	12	5	33	12	5	33	12	5	33
REINFORCING STEEL (LB.)			2951			2696			2745			2793			2842			2590			2627			2165		
STRUCTURAL CONCRETE (CY)			1, 2			-----			-----			15.5			15.5			15.5			15.4			15.3		
			3			16.1			16.1			16.1			16.1			16.1			16.1			-----		

BENT BAR DETAILS



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



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES

E-E ABUTMENT BEARING	FRICTION BEARING PILING			FRICTION OR POINT BEARING PILING		
	PIOL TYPE 1 OR 2			PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	② "K" (INCHES)	③ LRFD PU, STRENGTH I DES. BRG. (KIPS)	NUMBER OF TRESTLE PILES	PILE SIZE	③ LRFD PU, STRENGTH I DES. BRG. (KIPS)
138'-10	14	14	89	10	HP10x57	124
	12	16	104	10	HP12x53	124
151'-4	14	14	94	10	HP10x57	131
	12	16	109	10	HP12x53	131
163'-10	15	14	95	10	HP10x57	142
	13	16	109	11	HP12x53	129
176'-4	-----	--	--	11	HP10x57	135
	-----	--	--	12	HP12x53	124
188'-10	-----	--	--	11	HP10x57	141
	-----	--	--	12	HP12x53	130
201'-4	-----	--	--	12	HP10x57	145
	-----	--	--	13	HP12x53	134
213'-10	-----	--	--	13	HP10x57	141
	-----	--	--	14	HP12x53	131
226'-4	-----	--	--	14	HP10x57	138
	-----	--	--	15	HP12x53	129
243'-0	-----	--	--	14	HP10x57	145
	-----	--	--	16	HP12x53	127

- ① CONCRETE QUANTITIES SHOWN HAVE HAD THE VOLUME OF EMBEDDED PILES DEDUCTED FOR TYPES 1 AND 2 BASED ON 0.8 FT³ PER FOOT OF EMBEDMENT. THE CONCRETE QUANTITIES FOR TYPE 3 PILES DO NOT REQUIRE REDUCTION FOR PILE EMBEDMENT.
- ② SEE STANDARD PIOL FOR "K" DIMENSION.
- ③ 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.

REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.

05-13 LATEST REVISION DATE <i>Norman E. M. Small</i> APPROVED BY BRIDGE ENGINEER	
	STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES MARCH, 2007
	PILE BENT PIERS
H44-39-07 0° SKEW	