

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.

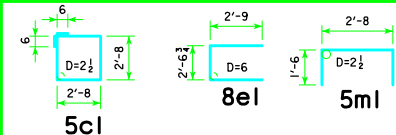
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

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

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

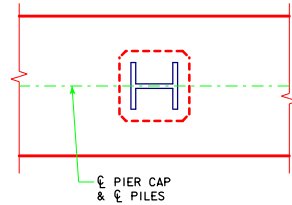
BAR	LENGTH	SHAPE	10 PILE BENT			11 PILE BENT			12 PILE BENT			13 PILE BENT			14 PILE BENT			15 PILE BENT			16 PILE BENT			17 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	44'-8"	=====	8	9	1215	6	9	911	6	9	911	6	9	911	6	9	911	6	9	911	6	9	911	4	9	607
a2	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	8	477	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			16.1			15.5			15.5			15.5			15.4			15.4			15.3		
PILE TYPE			1, 2			16.1			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.

- 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 NUMBER OF PILES AND THE PILE TYPE ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.



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 1 DES. BRG. (KIPS)	NUMBER OF TRESTLE PILES	PILE SIZE	③ LRFD PU, STRENGTH 1 DES. BRG. (KIPS)
138'-10	14	14	89	10	HP10x57	124
	12	16	104	10	HP12x53	124
	14	14	94	10	HP10x57	131
151'-4	12	16	109	10	HP12x53	131
	15	14	95	10	HP10x57	142
163'-10	13	16	109	11	HP12x53	129
	-----	--	--	11	HP10x57	135
176'-4	-----	--	--	12	HP12x53	124
	-----	--	--	11	HP10x57	141
188'-10	-----	--	--	12	HP12x53	130
	201'-4	-----	--	12	HP10x57	145
213'-10	-----	--	--	13	HP12x53	134
	-----	--	--	14	HP10x57	141
226'-4	-----	--	--	14	HP12x53	131
	-----	--	--	15	HP10x57	138
243'-0	-----	--	--	14	HP12x53	129
	-----	--	--	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 1 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.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES SEPTEMBER, 2014	
		PILE BENT PIERS 0° SKEW	H44-39-14