

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

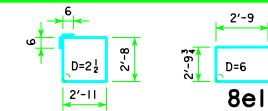
BAR	LENGTH	SHAPE	10 PILE BENT			12 PILE BENT			14 PILE BENT			16 PILE BENT			18 PILE BENT			19 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	47'-8"		8	9	1297	6	9	972	6	9	972	6	9	972	4	9	972	4	9	648
a2	47'-8"		4	8	509	4	8	509	4	8	509	4	8	509	4	8	509	4	8	509
b1	47'-8"		4	9	648	4	9	648	4	9	648	4	9	648	4	8	509	4	8	509
5c1	12'-2"		47	5	596	57	5	723	67	5	850	62	5	787	53	5	673	38	5	482
8e1	8'-4"		4	8	89	4	8	89	4	8	89	4	8	89	4	8	89	4	8	89
① REINFORCING STEEL (L.B.)			3139			2941			3068			3005			2752			2237		
② STRUCTURAL CONCRETE (CY)			1, 2			18.1			18.0			17.9			17.8			17.8		
			3			18.6			18.6			18.6			---			---		

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

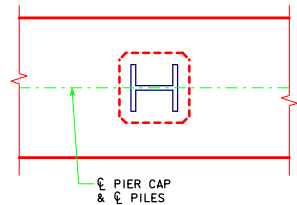
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

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

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	③ "K" (INCHES)	④ LRFD PU, STRENGTH I DES. LOAD (KIPS)	NUMBER OF TRESTLE PILES	PILE SIZE	④ LRFD PU, STRENGTH I DES. LOAD (KIPS)
138'-10"	14	14	87	10	HP10x57	122
	12	16	102	10	HP12x53	122
151'-4"	14	14	92	10	HP10x57	128
	12	16	107	10	HP12x53	128
163'-10"	16	14	87	10	HP10x57	139
	14	16	99	12	HP12x53	116
176'-4"	16	14	91	10	HP10x57	145
	14	16	104	12	HP12x53	121
188'-10"	16	14	95	12	HP10x57	126
	14	16	108	12	HP12x53	126
201'-4"	---	---	---	12	HP10x57	140
	---	---	---	14	HP12x53	120
213'-10"	---	---	---	14	HP10x57	126
	---	---	---	14	HP12x53	126
226'-4"	---	---	---	14	HP10x57	133
	---	---	---	14	HP12x53	133
243'-0"	---	---	---	14	HP10x57	139
	---	---	---	16	HP12x53	122

① SEE SHEET H40-24-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

② 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.

③ SEE STANDARD PIOL FOR "K" DIMENSION.

④ 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.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES SEPTEMBER, 2014	
		PILE BENT PIERS 30° SKEW	H40-52-14