

PILE BENT NOTES:

THESE PIER BENTS ARE DESIGNED FOR USE WITH STANDARD H40-06 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.

PIER PILES ARE TO BE DRIVEN TO THE DESIGN BEARING VALUE W/O IMPACT.

FOR DETAILS OF TRESTLE PILES, TYPES 1, 2 AND 3, SEE STANDARD P10A.

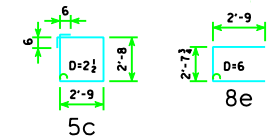
DETAILS SHOWN FOR CONCRETE PILES. FOR ORIENTATION OF STEEL PILES, SEE STANDARD P10A.

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

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	SHAPE	9 PILE BENT	10 PILE BENT	11 PILE BENT	12 PILE BENT	13 PILE BENT	14 PILE BENT	15 PILE BENT	16 PILE BENT
9a		NO. LENGTH WEIGHT	NO. LENGTH WEIGHT	NO. LENGTH WEIGHT	NO. LENGTH WEIGHT	NO. LENGTH WEIGHT	NO. LENGTH WEIGHT	NO. LENGTH WEIGHT	NO. LENGTH WEIGHT
8b		6 42'-8 870	6 42'-8 870	6 42'-8 870	6 42'-8 870	6 42'-8 870	6 42'-8 870	4 42'-8 580	4 42'-8 580
5c		8 42'-8 911	8 42'-8 911	8 42'-8 911	8 42'-8 911	8 42'-8 911	8 42'-8 911	8 42'-8 911	8 42'-8 911
8e		34 11'-10 420	38 11'-10 469	32 11'-10 395	46 11'-10 568	50 11'-10 617	41 11'-10 506	30 11'-10 370	32 11'-10 395
4		4 8'-2 87	4 8'-2 87	4 8'-2 87	4 8'-2 87	4 8'-2 87	4 8'-2 87	4 8'-2 87	4 8'-2 87
REINFORCING STEEL (LB.)		2288	2337	2263	2436	2485	2374	1948	1973
STRUCTURAL CONCRETE (CY)	PILE TYPE								
	1, 2	-----	-----	15.2	15.2	15.2	15.1	15.1	15.0
	3	15.7	15.7	15.7	15.7	15.7	15.7	-----	-----

BENT BAR DETAILS



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

C-C ABUTMENT BEARING	FRICTION BEARING PILING				FRICTION OR POINT BEARING PILING			
	P10A TYPE 1 OR 2				P10A TYPE 3			
	NUMBER OF TRESTLE PILES AND SPACING	① "K" (INCHES)	DES. PILE BRG.(TONS) W/O IMPACT	DES. PILE ③ BRG.(TONS) W/O IMPACT	NUMBER OF TRESTLE PILES AND SPACING	① "K" (INCHES)	DES. PILE BRG.(TONS) W/O IMPACT	DES. PILE ③ BRG.(TONS) W/O IMPACT
138'-10	14 PILES @ 3'-0 1/2 CTRS.	14	28	26	9 PILES @ 5'-0 CTRS.	16	44	40
	11 PILES @ 4'-0 CTRS.	16	36	33	9 PILES @ 5'-0 CTRS.	18	44	40
151'-4	14 PILES @ 3'-0 1/2 CTRS.	14	30	27	9 PILES @ 5'-0 CTRS.	16	46	42
	12 PILES @ 3'-7 1/2 CTRS.	16	35	32	9 PILES @ 5'-0 CTRS.	18	46	42
163'-10	15 PILES @ 2'-10 1/4 CTRS.	14	30	28	9 PILES @ 5'-0 CTRS.	16	50	46
	13 PILES @ 3'-4 CTRS.	16	35	32	10 PILES @ 4'-5 CTRS.	18	45	42
176'-4	16 PILES @ 2'-8 CTRS.	14	30	28	10 PILES @ 4'-5 CTRS.	16	47	44
	14 PILES @ 3'-0 1/2 CTRS.	16	34	32	11 PILES @ 4'-0 CTRS.	18	43	40
188'-10	15 PILES @ 2'-10 1/4 CTRS.	14	33	31	10 PILES @ 4'-5 CTRS.	16	50	46
	14 PILES @ 3'-0 1/2 CTRS.	16	36	33	11 PILES @ 4'-0 CTRS.	18	45	42
201'-4	16 PILES @ 2'-8 CTRS.	16	35	33	12 PILES @ 3'-7 1/2 CTRS.	16	47	44
					13 PILES @ 3'-4 CTRS.	18	44	41
213'-10	16 PILES @ 2'-8 CTRS.	16	37	35	12 PILES @ 3'-7 1/2 CTRS.	16	49	46
					13 PILES @ 3'-4 CTRS.	18	46	43
226'-4	-----	--	--	--	13 PILES @ 3'-4 CTRS.	16	48	45
					14 PILES @ 3'-0 1/2 CTRS.	18	44	42
243'-0	-----	--	--	--	13 PILES @ 3'-4 CTRS.	16	50	47
					14 PILES @ 3'-0 1/2 CTRS.	18	46	44

① SEE STANDARD P10A FOR "K" DIMENSION.

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 FOR ESTIMATING PILE LENGTHS AND FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

④ SEE SHEET H40-17-06 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

* TYPE 2 ONLY.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER			STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE	
				PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES	
				HL93 SUPERSTRUCTURE	DECEMBER, 2006 HS25 SUBSTRUCTURE
				PILE BENT DETAILS 15° SKEW	
				H40-48-06	