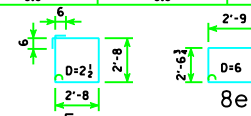


REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	SHAPE	6 PILE BENT			7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT		
		NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
9a		6	25'-2	513	6	25'-2	513	6	25'-2	513	4	25'-2	342	4	25'-2	342
8b		8	25'-2	538	8	25'-2	538	8	25'-2	538	8	25'-2	538	8	25'-2	538
5c		22	11'-8	268	20	11'-8	243	23	11'-8	280	26	11'-8	316	20	11'-8	243
8e		4	8'-1	86	4	8'-1	86	4	8'-1	86	4	8'-1	86	4	8'-1	86
REINFORCING STEEL (LB.)		1405			1380			1417			1282			1209		
PILE TYPE																
STRUCTURAL CONCRETE (CY)		1, 2			8.8			8.4			8.8			8.3		
		3			8.8			8.8			8.8			8.8		

BENT BAR DETAILS



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

Pier	ABUTMENT BEARING	FRICTION BEARING PILING				FRICTION OR POINT BEARING PILING			
		PIOA TYPE 1 OR 2				PIOA TYPE 3			
		NUMBER OF TRESTLE PILES AND SPACING	① "K" (INCHES)	DES. PILE BRG.(TONS) W/IMPACT	DES. PILE ③ BRG.(TONS) W/O IMPACT	NUMBER OF TRESTLE PILES AND SPACING	① "K" (INCHES)	DES. PILE BRG.(TONS) W/IMPACT	DES. PILE ③ BRG.(TONS) W/O IMPACT
138'-10		9 PILES @ 2'-9 1/2 CTRS.	14	30	27	6 PILES @ 4'-6 CTRS.	16	44	40
		8 PILES @ 3'-2 1/2 CTRS.	16	33	30	6 PILES @ 4'-6 CTRS.	18	44	40
151'-4		10 PILES @ 2'-6 CTRS.	14	28	26	6 PILES @ 4'-6 CTRS.	16	46	42
		8 PILES @ 3'-2 1/2 CTRS.	16	35	32	6 PILES @ 4'-6 CTRS.	18	46	42
163'-10		10 PILES @ 2'-6 CTRS.	14	30	28	6 PILES @ 4'-6 CTRS.	16	50	46
		9 PILES @ 2'-9 1/2 CTRS.	16	33	31	7 PILES @ 3'-9 CTRS.	18	43	40
176'-4		10 PILES @ 2'-6 CTRS.	14	32	29	7 PILES @ 3'-9 CTRS.	16	45	42
		9 PILES @ 2'-9 1/2 CTRS.	16	35	33	7 PILES @ 3'-9 CTRS.	18	45	42
188'-10		10 PILES @ 2'-6 CTRS.	14	33	31	7 PILES @ 3'-9 CTRS.	16	48	44
		10 PILES @ 2'-6 CTRS.	16	33	31	8 PILES @ 3'-2 1/2 CTRS.	18	42	39
201'-4		10 PILES @ 2'-6 CTRS.	16	38	35	8 PILES @ 3'-2 1/2 CTRS.	16	47	44
						9 PILES @ 2'-9 1/2 CTRS.	18	42	39
213'-10		-----	-----	-----	-----	8 PILES @ 3'-2 1/2 CTRS.	16	49	46
						9 PILES @ 2'-9 1/2 CTRS.	18	44	41
226'-4		-----	-----	-----	-----	9 PILES @ 2'-9 1/2 CTRS.	16	46	43
						9 PILES @ 2'-9 1/2 CTRS.	18	46	43
243'-0		-----	-----	-----	-----	9 PILES @ 2'-9 1/2 CTRS.	16	48	45
						10 PILES @ 2'-6 CTRS.	18	43	41

- SEE STANDARD PIOA FOR "K" DIMENSION.
 - 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.
 - FOR ESTIMATING PILE LENGTHS AND FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- * TYPE 2 ONLY.

PILE BENT NOTES:

THESE PIERS BENTS ARE DESIGNED FOR USE WITH STANDARD H24-06 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 PIOA. DETAILS SHOWN FOR CONCRETE PILES. FOR ORIENTATION OF STEEL PILES, SEE STANDARD PIOA. MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OF SHOWN.

LATEST REVISION DATE	<i>Mark L. McQuinn</i> APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE	
		PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES	
		HL93 SUPERSTRUCTURE	DECEMBER, 2006
PILE BENT DETAILS 0° SKEW		H24-42-06	