

REVISED 11-09 - THIS SHEET WAS ADDED FOR THE 14" PILE OPTION & CAP DEPTH IS 3'-6".

PILE BENT NOTES:
THESE PIER BENTS ARE DESIGNED FOR USE IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.

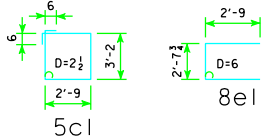
FOR DETAILS OF TRESTLE PILES,SEE STANDARD PIOL.

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	LENGTH	SHAPE	7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT			12 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	46'-8"		8	9	1269	8	9	1269	8	9	1269	8	9	1269	6	9	952	6	9	952
a2	46'-8"		4	8	498	4	8	498	4	8	498	4	8	498	4	8	498	4	8	498
b1	46'-8"		4	10	803	4	9	635	4	9	635	4	9	635	4	9	635	4	9	635
5c1	12'-10"		42	5	562	42	5	562	42	5	562	47	5	629	42	5	562	46	5	616
8e1	8'-2"		4	8	87	4	8	87	4	8	87	4	8	87	4	8	87	4	8	87
REINFORCING STEEL (LB.)			3219			3051			3051			3118			2734			2788		
STRUCTURAL PILE TYPE			3																	
CONCRETE (CY)			20.0			20.0			20.0			20.0			20.0			20.0		

BENT BAR DETAILS



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

FRICTION OR POINT BEARING PILING

E-E ABUTMENT BEARING	PIOL TYPE 3			
	NUMBER OF TRESTLE PILES	PILE	DES. PILE BRG. (TONS)	LRFD DES. BRG. (KIPS)
138'-10	7	HP14x73	63	182
	7	HP14x89	63	182
151'-4	8	HP14x73	58	168
	7	HP14x89	66	192
163'-10	8	HP14x73	63	182
	7	HP14x89	72	208
176'-4	9	HP14x73	58	169
	7	HP14x89	75	217
188'-10	9	HP14x73	61	177
	8	HP14x89	68	199
201'-4	10	HP14x73	61	178
	8	HP14x89	77	222
213'-10	11	HP14x73	59	170
	9	HP14x89	72	207
226'-4	11	HP14x73	62	179
	9	HP14x89	75	218
243'-0	12	HP14x73	59	172
	10	HP14x89	71	206

- ① SEE SHEET H44-17-07 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.
- ② FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- ③ FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

NOTE: FRICTION BEARING INCLUDES SIDE FRICTION AND END BEARING IN SOIL. POINT BEARING INCLUDES SIDE FRICTION AND POINT BEARING IN ROCK.

LATEST REVISION DATE
11-09

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES
MARCH, 2007

PILE BENT PIERS
HP14 PILES
15° SKEW

H44-45-07