## 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.

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

## REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

				8	PILE	BENT	9	PILE	BENI	10	PILE	BENI	- 11	PILE	BFNI	12	PILE	BENI	13	PILE	BENI	14	PILE	BENI
	BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT															
	al	57′-8		8	9	1569	8	9	1569	8	9	1569	8	9	1569	8	9	1569	8	9	1569	8	9	1569
	<b>a</b> 2	57′-8		4	8	616	4	8	616	4	8	616	4	8	616	4	8	616	4	8	616	4	8	616
	ы	57′-8		4	10	993	4	10	993	4	10	993	4	10	993	4	10	993	4	10	993	4	10	993
	5cl	12'-8		71	5	938	82	5	1083	88	5	1163	106	5	1400	90	5	1189	86	5	1136	93	5	1229
	8el	8′-I		4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
<b>(1)</b>	REINFORCING STEEL (LB.)			4202			4347			4427		4664		4453		4400			4493					
	STRU	CTURAL	PILE TYPE																					
	CONC	RETE (CY)	3		24.2	2		24.	2		24.2	2		24.2	2		24.2	:		24.2	2		24.2	2

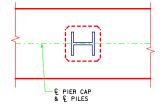
NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

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

NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.



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



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES

## FRICTION OR POINT BEARING PILING

€-€ ABUTMENT         PIOL TYPE 3         CENTRE PIUS         PILE STRENGTH I, DSTRENGTH I, DSTREN												
BEARING   NUMBER OF TRESTLE PILES   SIZE   STRENGTH I, STRENGTH I, STRENGTH I, DES. LOAD (KIPS)		PIOL TYPE 3										
160'-0				STRENGTH I,								
8 HPI4X89 155 180'-0 8 HPI4X73 169 200'-0 8 HPI4X89 169 200'-0 8 HPI4X89 183 220'-0 8 HPI4X89 183 220'-0 8 HPI4X89 199 240'-0 10 HPI4X73 174 240'-0 11 HPI4X89 218 260'-0 11 HPI4X89 218 260'-0 9 HPI4X89 209 280'-0 11 HPI4X89 209 300'-0 12 HPI4X89 224 300'-0 13 HPI4X89 216 300'-0 14 HPI4X89 216 300'-0 19 HPI4X89 216 300'-0 10 HPI4X89 216 300'-0 11 HPI4X89 216	100/ 0	8	HP14×73	155								
80'-0	1600	8	HP14×89	155								
8 HP14x89 169 200'-0 8 HP14x73 183 220'-0 8 HP14x89 183 220'-0 8 HP14x89 183 220'-0 8 HP14x89 199 240'-0 10 HP14x73 174 240'-0 11 HP14x73 174 260'-0 11 HP14x73 171 260'-0 9 HP14x89 209 280'-0 11 HP14x89 209 300'-0 12 HP14x89 214 300'-0 10 HP14x89 216 320'-0 13 HP14x73 180 320'-0 11 HP14x89 216 320'-0 11 HP14x89 216 320'-0 11 HP14x89 216 320'-0 11 HP14x89 209	100/ 0	8	HP14×73	169								
200'-0 8 HPI4x89 183 220'-0 9 HPI4x83 177 240'-0 8 HPI4x73 177 240'-0 10 HPI4x73 174 260'-0 11 HPI4x73 171 260'-0 11 HPI4x73 171 260'-0 9 HPI4x89 209 280'-0 11 HPI4x73 183 300'-0 12 HPI4x73 180 300'-0 13 HPI4x89 216 300'-0 11 HPI4x89 209	1800	8	HP14×89	169								
8 HP14x89 183 220'-0 9 HP14x73 177 240'-0 8 HP14x89 199 240'-0 8 HP14x89 174 260'-0 11 HP14x73 171 260'-0 11 HP14x89 209 280'-0 11 HP14x89 209 280'-0 11 HP14x89 224 300'-0 12 HP14x89 224 300'-0 10 HP14x89 216 320'-0 11 HP14x89 160 320'-0 17 HP14x89 177 340'-0 18 HP14x89 177	200/ 0	8	HP14×73	183								
200'-0  8	200 -0	8	HP14×89	183								
8 HP14XB9 199 240'-0 10 HP14X73 174 260'-0 8 HP14X89 218 260'-0 9 HP14X89 209 280'-0 11 HP14X73 183 300'-0 12 HP14X89 224 300'-0 10 HP14X89 216 320'-0 13 HP14X73 177 320'-0 11 HP14X89 177	220/ 0	9	HP14×73	177								
260'-0 8 HPI4x89 218 260'-0 11 HPI4x73 171 260'-0 9 HPI4x89 209 280'-0 11 HPI4x73 183 300'-0 12 HPI4x89 224 300'-0 10 HPI4x89 216 320'-0 13 HPI4x73 177 340'-0 14 HPI4x73 177	220 -0	8	HP14×89	199								
8 HP14x89 218 260'-0 9 HP14x73 171 260'-0 9 HP14x89 209 280'-0 11 HP14x73 183 300'-0 12 HP14x89 224 300'-0 10 HP14x89 216 320'-0 13 HP14x89 216 320'-0 11 HP14x73 177	240/ 0	10	HP14×73	174								
260'-0 9 HPI4x89 209 280'-0 11 HPI4x73 183 9 HPI4x89 224 300'-0 12 HPI4x73 180 0 HPI4x89 216 320'-0 13 HPI4x73 177 11 HPI4x9 209 340'-0 14 HPI4x73 173	240 -0	8	HP14×89	218								
9 HP14X89 209 280'-0 11 HP14X73 183 300'-0 12 HP14X89 224 HP14X73 180 320'-0 10 HP14X89 216 320'-0 13 HP14X73 177 11 HP14X89 209 340'-0 14 HP14X73 173	360/-0	- II	HP14×73	171								
280'-0 9 HPI4x89 224 300'-0 12 HPI4x73 180 10 HPI4x89 216 320'-0 13 HPI4x73 177 11 HPI4x89 209 340'-0 14 HPI4x73 173	260 -0	9	HP14×89	209								
9 HPI4x89 224 300'-0 12 HPI4x73 180 10 HPI4x89 216 320'-0 13 HPI4x73 177 11 HPI4x89 209 340'-0 14 HPI4x73 173	200/-0		HP14×73	183								
300'-0 10 HPI4x89 216 320'-0 13 HPI4x73 177 11 HPI4x89 209 14 HPI4x73 173	280 -0	9	HP14×89	224								
320'-0 13 HP14x73 177 11 HP14x89 209 340'-0 14 HP14x73 173	300/-0	12	HP14×73	180								
320'-0   II	300 -0	10	HP14×89	216								
340(=0 14 HP14×73 173	320/-0	13	HP14×73	177								
	320 0	ll l	HP14×89									
II HP14×89 220	340′-0											
	340 0	li li	HP14×89	220								

- (I) SEE SHEET RS40-169-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.
- (2) NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

M. Charles APPROVED BY



STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

OCTOBER, 2014

PILE BENT PIERS **HPI4 PILES** 

RS40-115-14

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