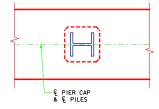
PILE BENT NOTES:

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.



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

				9	PILE	BENT	- 11	PILE	BENT	13	PILE	BENT	15	PILE	BENT	17	PILE	BENT
	BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
	al	43'-8		6	9	891	6	9	891	6	9	891	6	9	891	6	9	891
	a2	43′-8		4	8	466	4	8	466	4	8	466	4	8	466	4	8	466
	ы	43'-8		4	9	594	4	9	594	4	9	594	4	9	594	4	9	594
	5cl	11'-8		42	5	511	52	5	633	50	5	608	58	5	706	50	5	608
	8el	8'-1		4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
①	REINFORCING STEEL (LB.)		2548		2670		2645		2743		2645							
- 1	STRUCTURAL (2) PILE TYPE																	
	STRUCTURAL CONCRETE (CY)		1,2			15.2		15.1		15.0		14.9						
			3	15.7		15.7		15.7		15.7		15.7						

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.

BEN	T	BAR	DETAILS					
با	6		-	2′-9				
+	D=2	2 2 2 2 2 2	2′-63	D=6				

8el

2′-8 5cl NOTE: ALL DIMENSIONS ARE

OUT TO OUT. D=PIN DIAMETER.

	FRICTION	BEAR	ING PILING	FRICTION OR	POINT I	BEARING PILING			
્ર-૯ ABUTMENT	PIOL	TYPE I	DR 2	PIOL TYPE 3					
BEARING	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)			
160′-0	13	14	93	9	HP10x57	134			
160 -0	П	16	109	9	HP12×53	134			
180′-0	15	14	88	II.	HP10x57	119			
160 -0	13	16	101	Ш	HP12x53	119			
200′-0	15	14	95	H	HP10x57	129			
200 -0	13	16	109	H	HP12x53	129			
220'-0				H	HP10x57	141			
220 -0				13	HP12x53	120			
240′-0				13	HP10x57	131			
240 0				13	HP12×53	131			
260′-0				13	HP10x57	142			
200 -0				15	HP12×53	123			
280'-0				15	HP10x57	132			
200 -0				15	HP12×53	132			
300′-0				15	HP10x57	142			
300 -0				17	HP12×53	125			
320′-0				17	HP10x57	133			
320 -0				17	HP12×53	133			
340′-0			17	HP10x57	140				

- (1) SEE SHEET RS40-167-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.
- ② CONCRETE QUANTITIES SHOWN HAVE HAD THE VOLUME OF EMBEDDED PILES DEDUCTED FOR TYPES I 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.

CIOWADOT Highway Division M. Chandel BRIDGE ENGINEER STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES OCTOBER, 2014 APPROVED BY PILE BENT PIERS RS40-105-14

20° SKEW

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