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.

		RE	INFORC	ΙN	IG I	BAR	L	IST	· Al	ND	ES	STIN	IΑ	TEC) QI	JA	NTI	TIE	S	-	PER	Р	ILE	BE	N	Γ	
				9	PILE	BENT	10	PILE	BENT	- 11	PILE	BENT	12	PILE	BENT	13	PILE	BENT	14	PILE	BENT	15	PILE	BENT	16	PILE	BENT
	BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
	al	41'-8		8	9	1133	6	9	850	6	9	850	6	9	850	6	9	850	6	9	850	6	9	850	6	9	850
	a 2	41'-8		4	8	445	4	8	445	4	8	445	4	8	445	4	8	445	4	8	445	4	8	445	4	8	445
	ы	41'-8		4	9	567	4	9	567	4	9	567	4	9	567	4	9	567	4	9	567	4	9	567	4	9	567
	5cl	11'-8		42	5	511	38	5	462	42	5	511	46	5	560	50	5	608	54	5	657	44	5	535	47	5	572
	8el	8'-1		4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
(1)	1 REINFORCING S STRUCTURAL 2 CONCRETE (CY)		ORCING STEEL (LB.)		2742		2410		2459		2508		2556		2605		2483		3	2520							
			PILE TYPE																								
			1,2					-	14.4		14.4		14.3		14.3			14.2			14.2						
			IE (CY) 3		14.9		14.9			14.9		14.9		14.9			14.9			14.9		14.9					

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.

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		୍ PIER CAP & ଜ PILFS	

PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES

			991	TO OUTED-I IN DIAME!							
	FRICTION	BEAR	ING PILING	FRICTION OR	POINT	BEARING PILING					
€ -€	PIOL	TYPE I	OR 2	PIOL TYPE 3							
ABUTMENT BEARING	NUMBER OF TRESTLE PILES	3 _{"K"} (INCHES)	3 LRFD Pu, STRENGTH I, DES.LOAD (KIPS)	NUMBER OF TRESTLE PILES	PILE SIZE	4 LRFD Pu, STRENGTH I, DES. LOAD (KIPS)					
1001.0	13	14	92	9	HP10x57	133					
160′-0	H	16	109	9	HP12x53	133					
100/ 0	14	14	94	9	HP10x57	146					
180′-0	12	16	109	10	HP12x53	131					
200′-0				10	HP10x57	142					
200-0				II .	HP12x53	129					
220′-0				H	HP10x57	141					
220 0				12	HP12x53	129					
240′-0				12	HP10x57	142					
240 -0				13	HP12x53	131					
260′-0				13	HP10x57	141					
200 0				14	HP12x53	131					
280′-0				14	HP10x57	141					
280 -0				15	HP12x53	132					
300′-0				15	HP10x57	141					
300-0				16	HP12×53	133					
320′-0				16	HP10x57	141					
340′-0											

- 1 SEE SHEET RS40-166-14 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.

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
ROLLED STEEL BEAM BRIDGES
OCTOBER, 2014

PILE BENT PIERS
10° SKEW

RS40-101-14

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