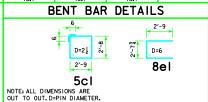
PILE BENT NOTES:
THESE PIER BENTS ARE DESIGNED FOR USE IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.

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.

٦		RE	INFORC	ΙN	IG	BAR	L	IST	· Al	ΝD	ES	STIN	ΛA	TEC	Q	UA	ITN	TIE	S	-	PER	Р	ILE	BE	EN.	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
- 1	al	42'-8		6	9	870	6	9	870	6	9	870	6	9	870	6	9	870	6	9	870	4	9	580	4	9	580
-	α2	42'-8		4	8	456	4	8	456	4	8	456	4	8	456	4	8	456	4	8	456	4	8	456	4	8	456
-	ы	42'-8		4	9	580	4	9	580	4	9	580	4	9	580	4	9	580	4	9	580	4	8	456	4	8	456
-	5c1	11'-10		34	5	420	38	5	469	42	5	518	46	5	568	50	5	617	54	5	666	30	5	370	47	5	580
-	8el	8'-2		4	8	87	4	8	87	4	8	87	4	8	87	4	8	87	4	8	87	4	8	87	4	8	87
REIN		EINFORCING STEEL (LB.)		IG STEEL (LB.) 2413		2462			2511		2561			2610		2659		1949		2159							
1	STRUCTURAL 2 PILE TYPE																										
			۱, 2						-		15.2	2		15.2	2		15.2	2		15.1	1		15.1			15.0	)
_	CONC	RETE (CY)	3		15.	7		15.7			15.7			15.7	7		15.7	7		15.7	7		15.7				-

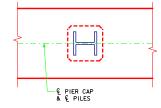


	FRICTION	BEAR	ING PILING	FRICTION OR	POINT	<b>BEARING PILING</b>							
<u> </u>	PIOL	TYPE I	DR 2	PIOL TYPE 3									
ABUTMENT BEARING	NUMBER OF TRESTLE PILES	③ <sub>"K"</sub> (INCHES)	4 LRFD PU, STRENGTH I DES.LOAD (KIPS)	NUMBER OF TRESTLE PILES	PILE SIZE	4 LRFD PU, STRENGTH I DES. LOAD (KIPS)							
170/ 10	13	14	92	9	HP10x57	133							
138′-10	H	16	109	9	HP12×53	133							
151′-4	14	14	90	9	HP10×57	140							
151'-4	12	16	105	10	HP12x53	126							
107/ 10				10	HP10x57	136							
163′-10	13	16	105	H	HP12×53	124							
176′-4				10	HP10x57	143							
176-4				H	HP12×53	130							
188′-10				II.	HP10x57	135							
100 -10				12	HP12×53	124							
201′-4				12	HP10x57	138							
201 -4				13	HP12x53	127							
213′-10				12	HP10x57	145							
213 -10				13	HP12x53	134							
226′-4				13	HP10x57	141							
220 -4				14	HP12x53	131							
243'-0				14	HP10x57	137							
243 -0				15	HP12x53	128							

- () SEE SHEET H40-17-06 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 FT 3 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.

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

	LL VEER	lowa Department of Transportation Highway Division							
05-13 REVISION DATE	C. M. Jun	STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009							
LATEST RE	Norman	PILE BENT PIERS 15° SKEW	H40-49-06						



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES