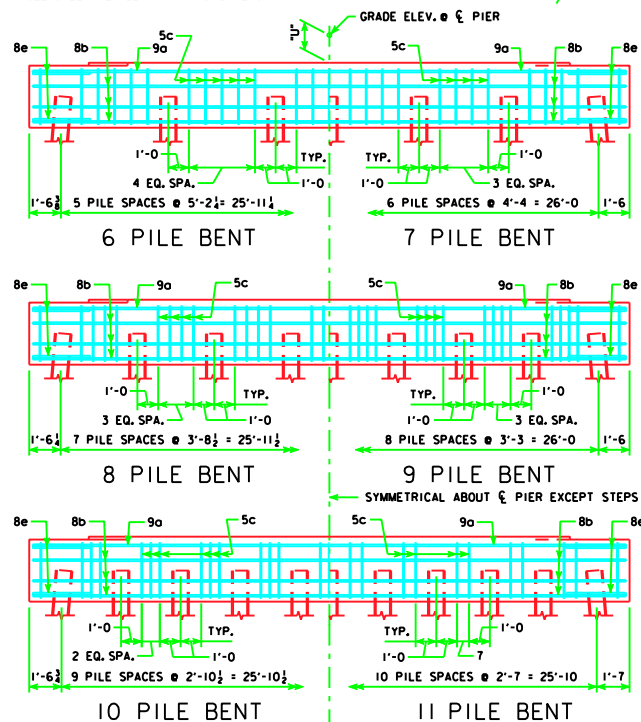
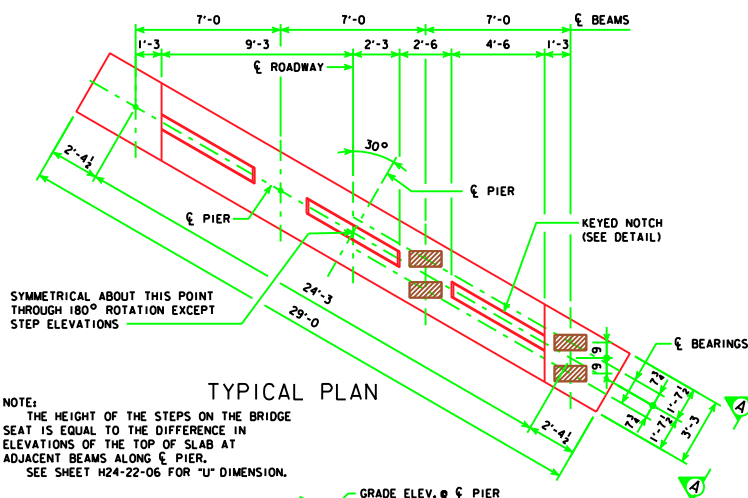
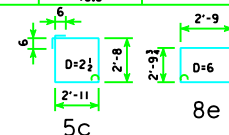


KEYED NOTCH DETAIL

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	SHAPE	6 PILE BENT	7 PILE BENT	8 PILE BENT	9 PILE BENT	10 PILE BENT	11 PILE BENT
9a	6 28'-8	585	6 28'-8	585	6 28'-8	585	6 28'-8
8b	8 28'-8	612	8 28'-8	612	8 28'-8	612	8 28'-8
5c	27 12'-2	343	26 12'-2	330	30 12'-2	381	34 12'-2
8e	4 8'-4	89	4 8'-4	89	4 8'-4	89	4 8'-4
REINFORCING STEEL (LB.)		1629	1616	1667	1717	1654	1370
STRUCTURAL CONCRETE (CY)		10.8	10.8	10.8	10.8	10.8	10.3

BENT BAR DETAILS



ξ - ξ ABUTMENT BEARING	FRICTION BEARING PILING				FRICTION OR POINT BEARING PILING			
	PIOA TYPE 1 OR 2				PIOA TYPE 3			
	NUMBER OF TRESTLE PILES AND SPACING	① "K" (INCHES)	DES. PILE BRG.(TONS) W/IMPACT	DES. PILE BRG.(TONS) W/O IMPACT	NUMBER OF TRESTLE PILES AND SPACING	① "K" (INCHES)	DES. PILE BRG.(TONS) W/IMPACT	DES. PILE BRG.(TONS) W/O IMPACT
138'-10	10 PILES @ 2'-10 1/2 CTRS.	14	28	25	6 PILES @ 5'-2 1/2 CTRS.	16	46	42
151'-4	8 PILES @ 3'-8 1/2 CTRS.	16	34	31	6 PILES @ 5'-2 1/2 CTRS.	18	46	42
163'-10	10 PILES @ 2'-10 1/2 CTRS.	14	29	26	6 PILES @ 5'-2 1/2 CTRS.	16	48	44
176'-4	8 PILES @ 3'-8 1/2 CTRS.	16	36	33	7 PILES @ 4'-4 CTRS.	18	41	38
188'-10	11 PILES @ 2'-7 CTRS.	14	28	26	7 PILES @ 4'-4 CTRS.	16	44	41
201'-4	9 PILES @ 3'-3 CTRS.	16	35	32	7 PILES @ 4'-4 CTRS.	18	44	41
213'-10	11 PILES @ 2'-7 CTRS.	14	30	28	7 PILES @ 4'-4 CTRS.	16	47	43
226'-4	9 PILES @ 3'-3 CTRS.	16	36	34	8 PILES @ 3'-8 1/2 CTRS.	18	41	38
243'-0	*11 PILES @ 2'-7 CTRS.	14	31	29	7 PILES @ 4'-4 CTRS.	16	49	45
	10 PILES @ 2'-10 1/2 CTRS.	16	34	32	8 PILES @ 3'-8 1/2 CTRS.	18	43	40
					8 PILES @ 3'-8 1/2 CTRS.	16	48	45
					9 PILES @ 3'-3 CTRS.	18	43	40
					9 PILES @ 3'-3 CTRS.	16	45	42
					9 PILES @ 3'-3 CTRS.	18	45	42
					9 PILES @ 3'-3 CTRS.	16	47	44
					10 PILES @ 2'-10 1/2 CTRS.	18	42	40
					9 PILES @ 3'-3 CTRS.	16	49	46
					10 PILES @ 2'-10 1/2 CTRS.	18	44	42

- SEE STANDARD PIOA FOR "K" DIMENSION.
- CONCRETE QUANTITIES SHOWN HAVE HAD THE VOLUME OF EMBEDDED PILES DEDUCTED FOR TYPES 1 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.
- FOR ESTIMATING PILE LENGTHS AND FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- SEE SHEET H24-24-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.

* TYPE 2 ONLY.

PILE BENT NOTES:

THESE PIER BENTS ARE DESIGNED FOR USE WITH STANDARD H24-06 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.

PIER PILES ARE TO BE DRIVEN TO THE DESIGN BEARING VALUE W/O IMPACT. FOR DETAILS OF TRESTLE PILES, TYPES 1, 2 AND 3, SEE STANDARD PIOA. DETAILS SHOWN FOR CONCRETE PILES. FOR ORIENTATION OF STEEL PILES, SEE STANDARD PIOA.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

PILE BENT DETAILS

30° SKEW

H24-44-06