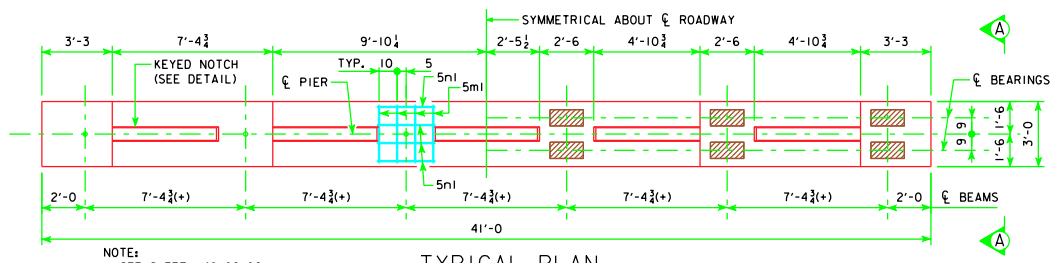
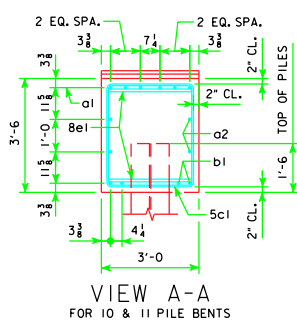
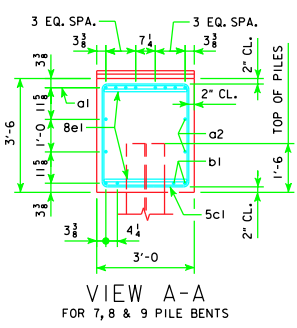
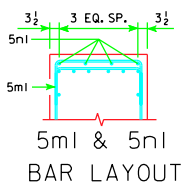
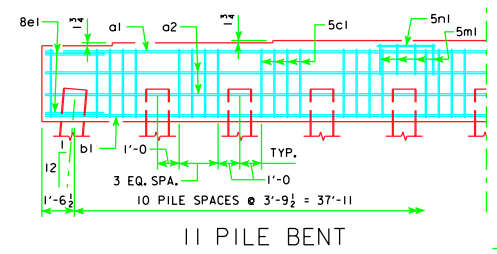
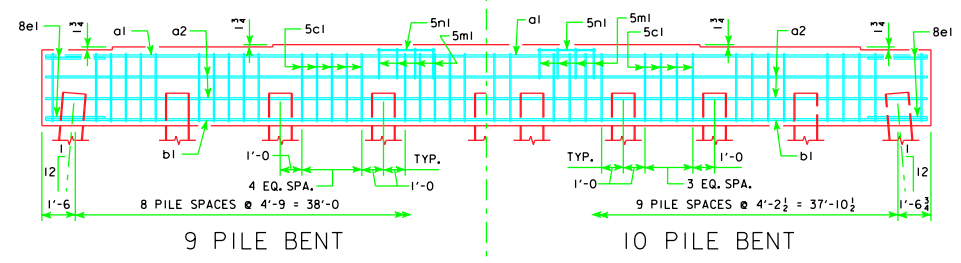
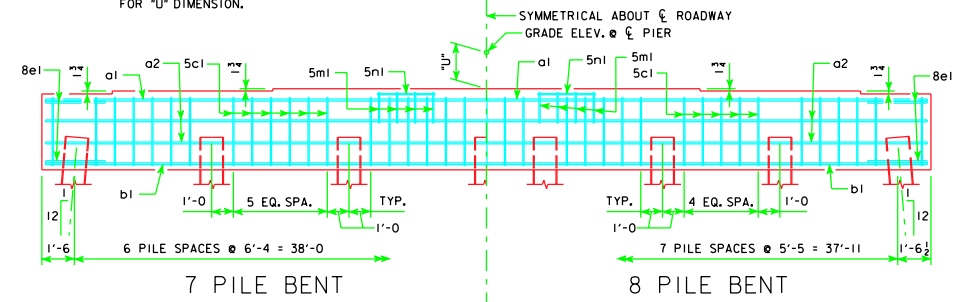


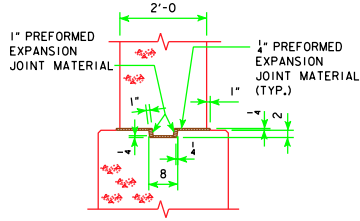
REVISED 01-10 - ADDED FRICTION & POINT BEARING DESCRIPTION NOTE.



TYPICAL PLAN



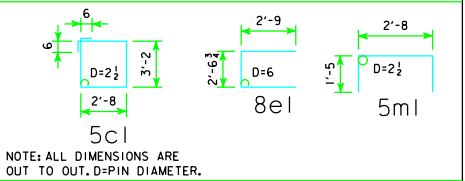
PILE BENT NOTES:
THESE PIER BENTS ARE DESIGNED FOR USE IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.
FOR DETAILS OF TRESTLE PILES, SEE STANDARD PIOL.
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.



REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	40'-8"		8	9	1106	8	9	1106	8	9	1106	6	9	830	6	9	830
a2	40'-8"		4	8	434	4	8	434	4	8	434	4	8	434	4	8	434
b1	40'-8"		4	9	553	4	9	553	4	9	553	4	9	553	4	9	553
c1	12'-8"		38	5	502	37	5	489	42	5	555	38	5	502	42	5	555
d1	8'-1"		4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
e1	5'-6"		8	5	46	8	5	46	8	5	46	8	5	46	8	5	46
f1	2'-8"		8	5	22	8	5	22	8	5	22	8	5	22	8	5	22
REINFORCING STEEL (LB.)			2749			2736			2802			2473			2526		
STRUCTURAL PILE TYPE			3														
CONCRETE (CY)			16.8			16.8			16.8			16.8			16.8		

BENT BAR DETAILS



FRICTION OR POINT BEARING PILING

PIL TYPE 3	NUMBER OF TRESTLE PILES	PILE SIZE	DES. DES. BRG. (KIPS)	
			① DES. PILE BRG. (TONS)	② LRFD DES. BRG. (KIPS)
138'-10"	7	HP14x73	59	170
151'-4"	7	HP14x89	59	170
163'-10"	7	HP14x73	62	179
176'-4"	7	HP14x89	62	179
188'-10"	8	HP14x73	58	169
201'-4"	7	HP14x89	67	194
213'-10"	8	HP14x73	61	177
226'-4"	7	HP14x89	70	202
243'-0"	8	HP14x73	64	185
	7	HP14x89	73	211
	9	HP14x73	63	183
	8	HP14x89	71	206
	10	HP14x73	60	173
	8	HP14x89	75	216
	10	HP14x73	63	182
	9	HP14x89	70	202
	11	HP14x73	60	174
	9	HP14x89	73	213

- ① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- ② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

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

LATEST REVISION DATE

01-10

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES
AUGUST, 2009

PILE BENT PIERS
HP14 PILES
0° SKEW

H40-47-06