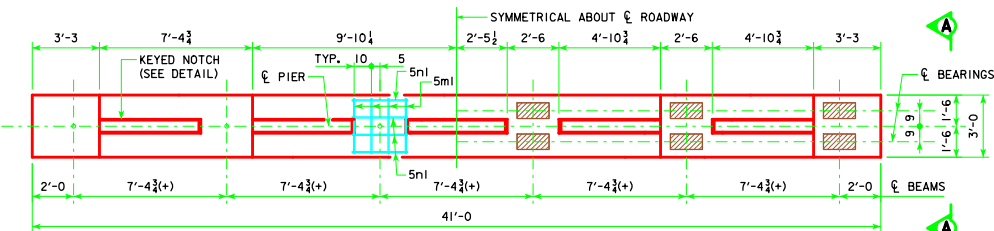


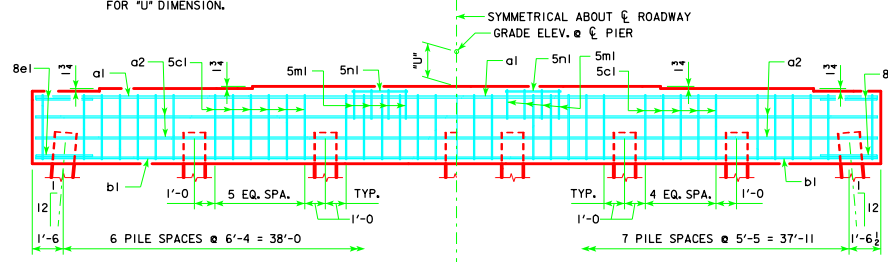
## REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

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
5c1	12'-8"		38	5	502	37	5	489	42	5	555	38	5	502	42	5	555
8e1	8'-1"		4	8	86	4	8	86	4	8	86	4	8	86	4	8	86
5m1	5'-6"		8	5	46	8	5	46	8	5	46	8	5	46	8	5	46
5n1	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 CONCRETE (CY)			3			3			3			3			3		
PILE TYPE			3			3			3			3			3		
ESTIMATED QUANTITIES			16.8			16.8			16.8			16.8			16.8		



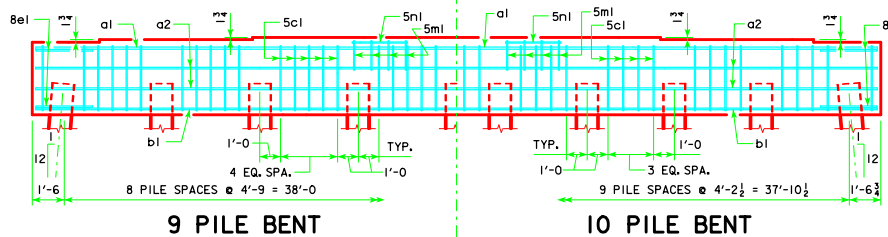
**TYPICAL PLAN**

NOTE:  
SEE SHEET H40-09-14  
FOR "U" DIMENSION.



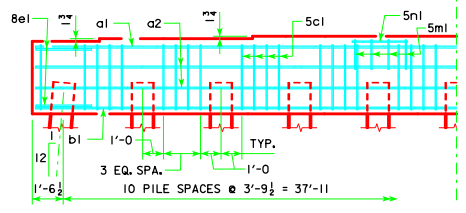
**7 PILE BENT**

**8 PILE BENT**

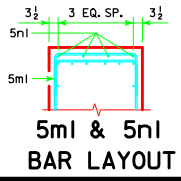


**9 PILE BENT**

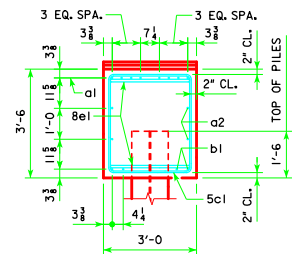
**10 PILE BENT**



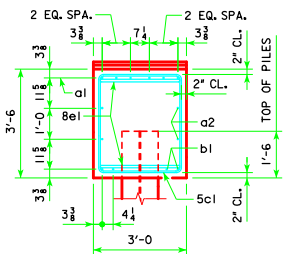
**11 PILE BENT**



**5m1 & 5n1  
BAR LAYOUT**



**VIEW A-A  
FOR 7, 8 & 9 PILE BENTS**

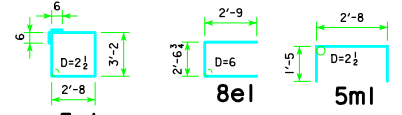


**VIEW A-A  
FOR 10 & 11 PILE BENTS**

### 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.
- PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.
- 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 NUMBER OF PILES AND THE PILE TYPE ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

### BENT BAR DETAILS



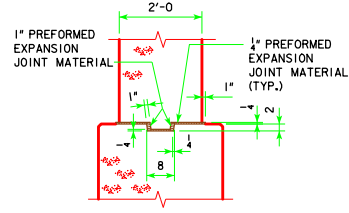
NOTE: ALL DIMENSIONS ARE OUT TO OUT. D=PIN DIAMETER.

### FRICITION OR POINT BEARING PILING

CL-CL ABUTMENT BEARING	PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	PILE SIZE	LRFD PU, STRENGTH I DES. LOAD (KIPS)
138'-10"	7	HP14x73	170
	7	HP14x89	170
151'-4"	7	HP14x73	179
	7	HP14x89	179
163'-10"	8	HP14x73	169
	7	HP14x89	194
176'-4"	8	HP14x73	177
	7	HP14x89	202
188'-10"	8	HP14x73	185
	7	HP14x89	211
201'-4"	9	HP14x73	183
	8	HP14x89	206
213'-10"	10	HP14x73	173
	8	HP14x89	216
226'-4"	10	HP14x73	182
	9	HP14x89	202
243'-0"	11	HP14x73	174
	9	HP14x89	213

NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

### KEYED NOTCH DETAIL



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

LATEST REVISION DATE

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

PILE BENT PIERS  
HP14 PILES

0° SKEW

APPROVED BY BRIDGE ENGINEER

*Norman E. Mc Donnell*

H40-47-14