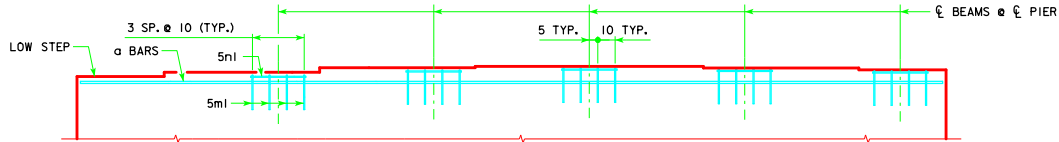


**PART ELEVATION VIEW OF PIER CAP**

GRADE (G):  $G \leq 2.2\%$



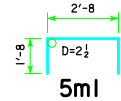
**PART ELEVATION VIEW OF PIER CAP**

GRADE (G):  $2.2\% < G \leq 5.0\%$

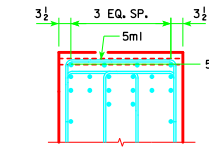
STEP REINFORCING BAR LIST ONE PIER									
		G $\leq$ 2.2%			2.2% < G $\leq$ 5.0%				
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	
5n1	6'-0"		16	5	100	20	5	125	
5n1	2'-10"		16	5	47	20	5	59	
TOTAL (L.B.)					147			184	

G = GRADE (%)

**BENT BAR DETAILS**



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



**TYPICAL SECTION**

NOTE: THE REINFORCING STEEL QUANTITIES ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE CONCRETE QUANTITIES ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

**NOTES:**

THE TABLE BELOW LISTS THE ADDITIONAL CONCRETE VOLUME REQUIRED IN EACH ABUTMENT FOOTING/PIER CAP BASED ON THE ROADWAY GRADE AT EACH ABUTMENT FOOTING/PIER CAP. ADDITIONAL CONCRETE SHOULD BE ADDED TO THE PLANS FOR EACH ABUTMENT FOOTING/PIER CAP THAT HAS 0.5 CU. YDS. OR MORE OF ADDITIONAL CONCRETE. VALUES SHOULD BE EXCLUDED FOR SCENARIOS THAT HAVE LESS THAN 0.5 CU. YDS. OF ADDITIONAL CONCRETE PER SUBSTRUCTURE UNIT. VALUES MAY BE INTERPOLATED FOR GRADES BETWEEN THE VALUES SHOWN IN THE TABLE.

	ROADWAY GRADE AT SUBSTRUCTURE UNIT				
	1%	2%	3%	4%	5%
EACH ABUTMENT FOOTING					
160'-0" TO 320'-0" SPANS	--	--	--	0.6	0.8
340'-0" SPAN	--	--	0.5	0.7	0.9
EACH PILE BENT OR TEE PIER CAP					
160'-0" TO 340'-0" SPANS	--	--	--	0.6	0.7

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>ROLLED STEEL BEAM BRIDGES</b> OCTOBER, 2014	
		ADDITIONAL QUANTITIES	RS40-166-14
		10° SKEW	