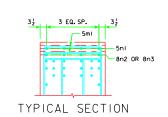
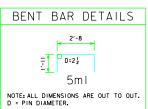


	STEP REINFORCING BAR LIST ONE PIER																
				G <= 0	.6%	0.6%	< G ·	(= 1.5%	1.5%	< G <	= 2.3%	2.3%	< G <	(= 3.4%	3.4%	< G <	= 5.0%
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5m1	6′-6		16	5	108	20	5	136	30	5	203	36	5	244	41	5	278
5nI	2′-10		16	5	47	20	5	59	12	5	35	4	5	12	16	5	47
8n2	21'-3								4	8	227						
8n3	34'-2											4	8	365	4	8	355
TOTAL (LB.) 155						195			465			621			680		

G = GRADE (%)





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.

ADDITIONAL CONCRETE VOLUME PER SUBSTRUCTURE UNIT (C.Y.)										
ROADWAY GRADE AT SUBSTRUCTURE UNIT										
	1%	2%	3%	4%	5%					
EACH ABUTMENT FOOTING										
160'-0 TO 320'-0 SPANS		1.0	1.6	2.3	2.9					
340'-0 SPANS	0.5	1.3	2.0	2.7	3.5					
•										
EACH PILE BENT OR TEE PIER CAP										
160'-0 TO 340'-0 SPANS		1.0	1.6	2.1	2.8					

