

TYPICAL SECTION

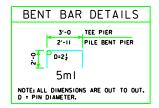
STEP REINFORCING BAR LIST ONE TEE PIER														
			G <= 0.6%			0.6% < G <= 2.3%			2.3% < G <= 4.0%			4.0% < G <= 5.0%		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5mi	7'-0		8	5	58	12	5	88	20	5	146	24	5	175
5ni	2'-8	_	8	5	22	12	5	33	4	5	- 11	8	5	22
≉8 ∩2	VARIES	_							4	8	221	4	8	221
TOTAL (LB.) 80				80			121			378			418	

G = GRADE (%)

*8n2 BARS VARY FROM 19'-4 TO 22'-1

STEP REINFORCING BAR LIST ONE PILE BENT PIER														
				S <= 0.	.6%	0.6%	< G <	:= 2.3%	2.3% < G <= 4.0%			4.0% < G <= 5.0%		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5mI	6'-11		8	5	58	12	5	87	20	5	144	24	5	173
5ni	2'-8	_	8	5	22	12	5	33	4	5	Ш	8	5	22
≉8 ∩2	VARIES	_							4	8	221	4	8	221
	TOTAL (LB.)				80			120			376			416

G = GRADE (%)
*8n2 BARS VARY FROM 19'-4 TO 22'-0



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. YOS, OR MORE OF ADDITIONAL CONCRETE. VALUES IN THE TABLE BELOW HAVE BEEN EXCLUDED FOR SCENARIOS THAT HAVE LESS THAN 0.5 CU, YOS, OF ADDITIONAL CONCRETE PER SUBSTRICTURE 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										
A, B BEAMS		0.8	1.2	1,7	2.1					
C BEAMS		1.0	1.5	2.1	2.6					
EACH TEE PIER CAP - ALL BEAMS		0.8	1,4	1.9	2.5					
EACH PILE BENT PIER - ALL BEAMS		0.8	1,4	1.9	2.4					





STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES HS25 SUBSTRUCTURE

HL93 SUPERSTRUCTURE DECEMBER, 2006

H24-31-06

ADDITIONAL QUANTITIES 45° SKEW