

BILL OF REINFORCING STEEL - ONE ABUTMENT - 0° SKEW

BRIDGE LENGTH		70'-0"		80'-0"		90'-0"		100'-0"		110'-0"		120'-0"		130'-0"		140'-0"		150'-0"	
MARK	LOCATION	SHAPE	LENGTH	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
8r1	ABUTMENT FOOTING LONGITUDINAL		26'-10"	7	502	7	502	7	502	7	502	7	502	7	502	7	502	7	502
5s1	ABUTMENT FOOTING HOOPS		11'-0"	22	252	22	252	22	252	25	287	25	287	20	229	22	252	22	252
6f1	FOOTING TO SLAB DOWELS		5'-0"	30	225	30	225	30	225	30	225	30	225	30	225	30	225	30	225
6f2	FOOTING TO SLAB DOWELS		5'-7"	30	252	30	252	30	252	30	252	30	252	30	252	30	252	30	252
#2	PILE SPIRAL		38'-6"	7	45	7	45	7	45	8	51	8	51	9	58	9	58	10	64
	SPIRAL SPACERS, L _{1/2} x 1/2 x 0.70		1'-10"	21	27	21	27	21	27	24	31	24	31	27	35	27	35	30	39
REINFORCING STEEL - TOTAL (LBS.)				1303	1303	1303	1303	1348	1348	1301	1301	1334	1334						

BILL OF REINFORCING STEEL - ONE ABUTMENT - 15° SKEW

BRIDGE LENGTH		70'-0"		80'-0"		90'-0"		100'-0"		110'-0"		120'-0"		130'-0"		140'-0"		150'-0"	
MARK	LOCATION	SHAPE	LENGTH	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
8r2	ABUTMENT FOOTING LONGITUDINAL		27'-8"	7	517	7	517	7	517	7	517	7	517	7	517	7	517	7	517
5s1	ABUTMENT FOOTING HOOPS		11'-0"	24	275	24	275	21	241	21	241	21	241	24	275	24	275	18	207
5s2	ABUTMENT FOOTING HOOPS		11'-3"	4	47	4	47	4	47	4	47	4	47	4	47	4	47	4	47
6f1	FOOTING TO SLAB DOWELS		5'-0"	30	225	30	225	30	225	30	225	30	225	30	225	30	225	30	225
6f2	FOOTING TO SLAB DOWELS		5'-7"	30	252	30	252	30	252	30	252	30	252	30	252	30	252	30	252
#2	PILE SPIRAL		38'-6"	7	45	7	45	8	51	8	51	8	51	9	58	9	58	10	64
	SPIRAL SPACERS, L _{1/2} x 1/2 x 0.70		1'-10"	21	27	21	27	24	31	24	31	24	31	27	35	27	35	30	39
REINFORCING STEEL - TOTAL (LBS.)				1388	1388	1364	1364	1364	1409	1409	1351	1351							

BILL OF REINFORCING STEEL - ONE ABUTMENT - 30° SKEW

BRIDGE LENGTH		70'-0"		80'-0"		90'-0"		100'-0"		110'-0"		120'-0"		130'-0"		140'-0"		150'-0"	
MARK	LOCATION	SHAPE	LENGTH	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
8r2	ABUTMENT FOOTING LONGITUDINAL		30'-7"	7	572	7	572	7	572	7	572	7	572	7	572	7	572	7	572
5s1	ABUTMENT FOOTING HOOPS		11'-0"	24	275	24	275	21	241	21	241	24	275	27	310	20	229	22	252
5s2	ABUTMENT FOOTING HOOPS		11'-11"	4	50	4	50	4	50	4	50	4	50	4	50	4	50	4	50
6f1	FOOTING TO SLAB DOWELS		5'-0"	30	225	30	225	30	225	30	225	30	225	30	225	30	225	30	225
6f2	FOOTING TO SLAB DOWELS		5'-7"	30	252	30	252	30	252	30	252	30	252	30	252	30	252	30	252
#2	PILE SPIRAL		38'-6"	7	45	7	45	8	51	8	51	9	58	9	58	10	64	11	71
	SPIRAL SPACERS, L _{1/2} x 1/2 x 0.70		1'-10"	21	27	21	27	24	31	24	31	27	35	30	39	33	42	36	46
REINFORCING STEEL - TOTAL (LBS.)				1446	1446	1422	1422	1467	1467	1512	1441	1474							

BILL OF REINFORCING STEEL - ONE ABUTMENT - 45° SKEW

BRIDGE LENGTH		70'-0"		80'-0"		90'-0"		100'-0"		110'-0"		120'-0"		130'-0"		140'-0"		150'-0"	
MARK	LOCATION	SHAPE	LENGTH	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
8r2	ABUTMENT FOOTING LONGITUDINAL		36'-9"	7	687	7	687	7	687	7	687	7	687	7	687	7	687	7	687
5s1	ABUTMENT FOOTING HOOPS		11'-0"	28	321	28	321	28	321	32	367	32	367	27	310	33	379	33	379
5s2	ABUTMENT FOOTING HOOPS		13'-6"	4	56	4	56	4	56	4	56	4	56	4	56	4	56	4	56
6f1	FOOTING TO SLAB DOWELS		5'-0"	30	225	30	225	30	225	30	225	30	225	30	225	30	225	30	225
6f2	FOOTING TO SLAB DOWELS		5'-7"	30	252	30	252	30	252	30	252	30	252	30	252	30	252	30	252
#2	PILE SPIRAL		38'-6"	8	51	8	51	8	51	9	58	9	58	10	64	10	64	12	77
	SPIRAL SPACERS, L _{1/2} x 1/2 x 0.70		1'-10"	24	31	24	31	24	31	27	35	27	35	30	39	36	46	36	46
REINFORCING STEEL - TOTAL (LBS.)				1623	1623	1623	1680	1680	1633	1633	1722	1722							

ESTIMATED QUANTITIES - ONE ABUT. - 0° SKEW

LOCATION	UNIT	QUANTITY																		
		70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"										
BRIDGE LENGTH																				
STRUCTURAL CONCRETE (BRIDGE)	C.Y.	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.4	8.4										
REINFORCING STEEL	LBS.	1303	1303	1303	1348	1348	1301	1301	1334	1334										
WOOD PILES (TREATED)	NO.	7	7	7	8	8	9	9	10	10										
PREBORE HOLES	FT.	-	-	-	-	-	-	-	-	-	100	100								

ESTIMATED QUANTITIES - ONE ABUT. - 15° SKEW

LOCATION	UNIT	QUANTITY																		
		70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"										
BRIDGE LENGTH																				
STRUCTURAL CONCRETE (BRIDGE)	C.Y.	8.9	8.9	8.9	8.9	8.9	8.8	8.8	8.7	8.7										
REINFORCING STEEL	LBS.	1388	1388	1364	1364	1364	1409	1409	1351	1351										
WOOD PILES (TREATED)	NO.	7	7	8	8	8	9	9	10	10										
PREBORE HOLES	FT.	-	-	-	-	-	-	-	-	-	100	100								

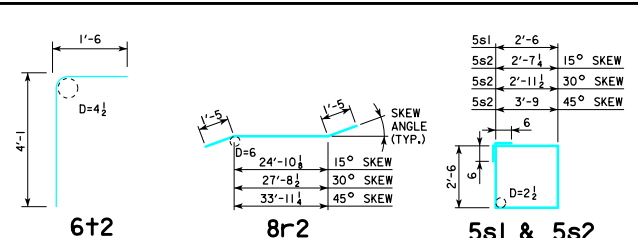
ESTIMATED QUANTITIES - ONE ABUT. - 30° SKEW

LOCATION	UNIT	QUANTITY																		
		70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"										
BRIDGE LENGTH																				
STRUCTURAL CONCRETE (BRIDGE)	C.Y.	10.0	10.0	10.0	10.0	9.9	9.9	9.8	9.8	9.7										
REINFORCING STEEL	LBS.	1446	1446	1422	1422	1467	1467	1512	1441	1474										
WOOD PILES (TREATED)	NO.	7	7	8	8	9	9	10	11	12										
PREBORE HOLES	FT.	-	-	-	-	-	-	-	-	-	110	120								

ESTIMATED QUANTITIES - ONE ABUT. - 45° SKEW

LOCATION	UNIT	QUANTITY																		
		70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"										
BRIDGE LENGTH																				
STRUCTURAL CONCRETE (BRIDGE)	C.Y.	12.3	12.3	12.3	12.3	12.3	12.2	12.2	12.1	12.1										
REINFORCING STEEL	LBS.	1623	1623	1623	1680	1680	1633	1633	1722	1722										
WOOD PILES (TREATED)	NO.	8	8	8	9	9	10	10	12	12										
PREBORE HOLES	FT.	-	-	-	-	-	-	-	-	-	120	120								

BENT BAR DETAILS



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

REVISED 01-09 - CONCRETE QUANTITIES CHANGED.
REVISED 08-2022: UPDATED BRIDGE ENGINEER SIGNATURE.

08-2022 LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER 	 STANDARD DESIGN - 24'-0" ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
	ABUTMENT DETAILS TIMBER PILING	J24-33-06