

Estimated Quantities HIG-62-1273

Multi span bridge

ESTIMATED QUANTITIES								
ITEM	EXT.	QUANTITY	UNIT	DESCRIPTION	ABUT.	SUPER.	GEN.	SHEET NO.
202	11203	LUMP	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP	2/7
202	23500	1,055	SY	WEARING COURSE REMOVED (2.5" THICK)		1,055		
407	13900	53	GAL	TACK COAT, 702.13		53		
441	50000	35	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448 ACCEPTANCE), PG-64-22		35		
509	10000	873	POUND	EPOXY COATED REINFORCING STEEL	873			
510	10001	132	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	132			2/7
511	21520	20	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	11	9		
513	10200	2,935	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF		2,935		
514	00050	569	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL (5 FT FROM ABUTMENTS ONLY)		569		
514	00056	1,266	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT (END CROSSFRAMES & 5 FT FROM ABUTMENTS ONLY)		1,266		
514	00060	1,266	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT (END CROSSFRAMES & 5 FT FROM ABUTMENTS ONLY)		1,266		
514	00066	1,266	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, FINAL COAT (END CROSSFRAMES & 5 FT FROM ABUTMENTS ONLY)		1,266		
514	00504	15	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		15		
516	11211	124	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	124			2/7
516	31010	193	FT	2" DEEP JOINT SEALER	193			
516	45305	12	EACH	REFURBISH BEARING DEVICES, AS PER PLAN	12			2/7
516	47001	LUMP	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LUMP			2/7
518	22300	368	FT	SPECIAL - DRIP STRIP		368		
519	11101	200	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	200			3/7
856	10000	35	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE		35		

length 188.36
width 44
width along skew 62.24

509	10000	873	POUND	EPOXY COATED REINFORCING STEEL
		873	POUND	FROM SPREADSHEET

511	21,520	20	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE
RA		62.24	FT	WIDTH OF DECK ALONG SKEW
		2.08	FT	PROPOSED DECK CONSTRUCTION WIDTH
		0.917	FT	DEPTH OF PROPOSED CONSTRUCTION
		118.85	CF	TOTAL RA SUPER STRUCTURE
		33.94	FT	LENGTH OF APPROACH SLAB
		1.25	FT	WIDTH AT APPROACHSLAB
		28.28	FT	LENGTH OF PAVEMENT
		1.75	FT	WIDTH OUTSIDE OF APPROACHSLAB
		1.646	FT	DEPTH OF PROPOSED CONSTRUCTION

	151.28	CF	TOTAL RA ABUTMENT
FA	62.24	FT	WIDTH OF DECK ALONG SKEW
	2.08	FT	PROPOSED DECK CONSTRUCTION WIDTH
	0.917	FT	DEPTH OF PROPOSED CONSTRUCTION
	118.85	CF	TOTAL FA SUPER STRUCTURE
	33.94	FT	LENGTH OF APPROACH SLAB
	1.25	FT	WIDTH AT APPROACHSLAB
	28.28	FT	LENGTH OF PAVEMENT
	1.75	FT	WIDTH OUTSIDE OF APPROACHSLAB
	1.646	FT	DEPTH OF PROPOSED CONSTRUCTION
	151.28	CF	TOTAL FA ABUTMENT
	9	CY	TOTAL SUPERSTRUCTURE
	11	CY	TOTAL ABUTMENT

516	45305	12	EACH	REFURBISH BEARING DEVICES, AS PER PLAN
	ABUTMENTS	12	EACH	
	PIERS	0	EACH	
	TOTAL	12	EACH	
516	31010	193	FT	2" DEEP JOINT SEALER
	RA	96.22	FT	
	FA	96.22	FT	
		193	FT	TOTAL
514	00056	1266	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT (END CROSSFRAMES & 5 FT FROM ABUTMENTS ONLY)
		1.33	FT	PERIMETER OF L 4"4"3/8
		23.21	FT	TOTAL LENGTH OF ALL ANGLE SECTIONS
		39	SF	AREA OF GUSSET PLATES IN ONE BAY
		10	EACH	NO. OF BAY (RA+FA)
		697	SF	TOTAL AREA FOR GUSSET PLATES AND ANGLE SECTIONS
		569	SF	AREA OF BEAMS TO BE PAINTED
		1266	SF	TOTAL AREA
514	00060	1266	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT (END CROSSFRAMES & 5 FT FROM ABUTMENTS ONLY)

514	00066	1266	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, FINAL COAT (END CROSSFRAMES & 5 FT FROM ABUTMENTS ONLY)
516	47001	LUMP	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
202	23500	1055	SY	WEARING COURSE REMOVED (2.5" THICK)
		188.36	FT	LENGTH OF BRIDGE
		44.00	FT	WIDTH
		8,287.84	SF	AREA OF DECK
		1,200.00	SF	AREA OF APPROACHSLAB (RA + FA)
		9488	SF	TOTAL AREA
		1055	SY	TOTAL AREA
407	13900	53	GAL	TACK COAT, 702.13
		1055	sy	total area
		0.0500	gal/sy	
		53.0000		
441	50000	35	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448 ACCEPTANCE), PG-64-22
		7,825.00	SF	AREA OF DECK
		1,200.00	SF	AREA OF APPROACHSLAB (RA + FA)
		0.1042	FT	THICKNESS (1.25 IN)
		940	CY	TOTAL volume
		35	cu yd	
856	10000	35	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE
514	00050	569	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL (5 FT FROM ABUTMENTS ONLY)
		8.75	FT	PERIMETER OF EX. BEAM MINUS TOP SURFACE OF TOP FLANGE
		5.00	FT	5 FT TO BE PAINTED FROM THE END
		43.75	SF	TOTAL AREA FOR 1 BEAM
		12.00	EACH	NO. OF BEAMS RA+FA
		569.00	SF	TOTAL AREA
510	10001	132.00	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN
RA	TOTAL HOLES	66.00		
FA	TOTAL HOLES	66.00		
		132.00	TOTAL	

total length 66.00 ft EB+WB

516	11211	124	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN
		124	FT	WIDTH ALONG SKEW RA+FA
513	10200	2935	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF
		23.21	FT	TOTAL LENGTH OF ALL ANGLE SECTION L4*4*3/8 PER BAY
		9.8	LB/FT	WEIGHT PER FT OF LENGTH
		232.50	CU. IN	TOTAL VOLUME OF GUSSET PLATES PER BAY
		0.284	LB/CU. IN.	LB/CY FOR GUSSET PLATES
		293	LB	TOTAL WEIGHT PER BAY
		10	EACH	NO OF BAY
		2935	LB	TOTAL WEIGHT
#REF!	#REF!	68	#REF!	#REF!
		68	FT	WIDTH APPROACHSLAB ALONG SKEW RA+FA
518	22300	368	FT	SPECIAL - DRIP STRIP
		368	FT	WIDTH APPROACHSLAB ALONG SKEW RA+FA