

ESTIMATED QUANTITIES - LEFT STRUCTURE							
Item	Total	Unit	Description	Abuts	Piers	Super	Gen'l.
404	21	CU YD	Asphalt concrete, AC20			21	
503	401	Cu.Yds.	Unclassified Excavation				
505	Lump	Sum	First Test Pile				
507	1,860	Lin. Ft.	12" Cast-in-place Reinforced Concrete Piles	780	1,080		
509	99,928	Lbs.	Reinforcing Steel	11,906	14,739	73,283	
511	256	Cu.Yds.	Class C Concrete - Superstructure (See proposal note)			256	
511	62	Cu.Yds.	Class C Concrete - Piers above footings		62		
511	102	Cu.Yds.	Class C Concrete - Abutments above footings	102			
511	114	Cu.Yds.	Class C Concrete - Footings	75	38		
513	197,800	Lbs.	Structural Steel			197,800	
514	197,800	Lbs.	Field Painting of Structural Steel			197,800	
518	15	Each	Subdrainage for wearing surface as per plan			15	
518	43	Cu.Yds.	Porous Backfill	43			
518	8	Each	Scuppers, including supports			8	
518	72	Lin. Ft.	6" Non-Perforated Helical C.M.P. Including Specials 70201	72			
518	96	Lin. Ft.	6" Perforated Helical C.M.P. 707.01	96			
601	566	Sq.Yds.	Crushed Aggregate Slope Protection	566			
802			SEE SHEET 226 B FOR LIGHTING SUMMARY				
808	256	Units	Chemical admixture for concrete, Type A, B or D			256	
Special	11	CU YD	Asphaltic protective course (See proposal note)			11	
Special	761	SQ. YD.	Membrane Waterproofing, Sheet type (See proposal note)			761	
409	2	Cu.Yds.	Seal coat cover aggregate, No. 9			2	
409	73	Gals.	Seal coat bituminous material 702.02 MC-800 or MC-3000, 702.03, CBAE 800, 702.04, RS-1, RS-2 or CRS-2, or 702.09, RT-9 or RT-10.			73	
808	255	Units	Chemical admixture for concrete Type A, B or D			255	
Special	11	CU YD	Asphaltic protective course (See proposal note)			11	
Special	761	SQ. YD.	Membrane waterproofing, sheet type (See proposal note)			761	

NOTE:
Payment will be made for only one first test pile, item 505. It may be driven for either the Right or Left Bridge.

ESTIMATED QUANTITIES - RIGHT STRUCTURE							
Item	Total	Unit	Description	Abuts	Piers	Super	Gen'l.
404	21	CU YD	Asphalt concrete, AC20			21	
503	401	Cu.Yds.	Unclassified Excavation	295	105		
505	Lump	Sum	First Test Pile				
507	1,860	Lin. Ft.	12" Cast-in-place Reinforced Concrete Piles	780	1,080		
509	100,928	Lbs.	Reinforcing Steel	11,877	75,768	73,283	
511	255	Cu.Yds.	Class C Concrete - Superstructure (See proposal note)			255	
511	65	Cu.Yds.	Class C Concrete - Piers above footings		65		
511	102	Cu.Yds.	Class C Concrete - Abutments above footings	102			
511	113	Cu.Yds.	Class C Concrete - Footings	75	38		
513	197,700	Lbs.	Structural Steel			197,700	
514	197,700	Lbs.	Field Painting of Structural Steel			197,700	
518	32	Each	Subdrainage for wearing surface as per plan			32	
8625			SEE SHEET 226 B FOR LIGHTING SUMMARY				
518	43	Cu.Yds.	Porous Backfill	43			
518	8	Each	Scuppers, including supports			8	
518	70	Lin. Ft.	6" Non-Perforated Helical C.M.P. Including Specials 707.01	70			
518	96	Lin. Ft.	6" Perforated Helical C.M.P., 707.01	96			
601	560	Sq.Yds.	Crushed Aggregate Slope Protection	560			
409	2	Cu.Yds.	Seal coat cover aggregate, No. 9			2	
409	73	Gals.	Seal coat bituminous material 702.02 MC-800 or MC-3000, 702.03, CBAE 800, 702.04, RS-1, RS-2 or CRS-2, or 702.09, RT-9 or RT-10.			73	
808	255	Units	Chemical admixture for concrete Type A, B or D			255	
Special	11	CU YD	Asphaltic protective course (See proposal note)			11	
Special	761	SQ. YD.	Membrane waterproofing, sheet type (See proposal note)			761	

GENERAL NOTES

REFERENCE shall be made to:
Standard Drawings:
BR-1-67 revised 10-15-71
RB-1-55, revised 2-2-59
SD-1-69, dated 6-12-69
HL-4, HL-5, HL-7; revised 9-6-73
Supplemental Specifications:
808, dated 1-1-71
836 dated 3-12-75

DESIGN SPECIFICATIONS: This structure conforms to the requirements of 'Design Specifications for Highway Structures' of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

DESIGN INFORMATION:
Design Loading - CF2000(57)
Concrete Class 'C' - Basic unit stress, 1333 p.s.i. for superstructure.
Concrete Class 'C' - Basic unit stress, 1133 p.s.i. for substructure.
Structural Steel - ASTM A36 - Basic unit stress, 20000 p.s.i.
Reinforcing Steel - ASTM A615, A616, A617, Basic unit stress 20,000 p.s.i.
Spiral Reinforcement shall be plain bars ASTM A82 or A615.

PROCEDURE: The embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments and piles driven.
PILES shall be driven to a minimum bearing capacity of 30 tons per pile at the abutments, and 35 tons per pile at the piers.

STEEL ERECTION: During the erection of end d/care shall be taken to insure that stringers, b/bridge seats remain in bearing contact.

FOR APPROACH SLAB DETAILS, See Std. Dwg except that (1) 3" reinforcing clearing inste (2) Jacking holes will not be pr (3) Width will be 24'

SHOULDER AREAS of the bridge deck shall delineated & means of a bituminous sec using 0.0075 cubic yard of No. 9 sq square yard and 0.25 gallon per squar bituminous material.

ELEVATIONS REINFORCED CONCRETE SLAB LEFT STRUCTURE			
STATION	PROFILE GRADE - .12'	CURB ELEVATIONS*	
		LEFT	RIGHT
862+75.60	1103.73	1102.18	
862+85.45	1103.88		1104.11
863+00	1104.10	1102.56	1104.34
863+27.32	1104.51	1102.96	
863+26.54	1104.66		1104.89
863+50	1104.86	1103.33	1105.11
863+75	1105.24	1103.71	1105.51
864+00.97	1105.63	1104.08	
864+09.54	1105.76		1106.00
864+25	1106.00	1104.45	1106.24
864+52.68	1106.42	1104.87	
864+80.72	1106.54		1106.78

ELEVATIONS REINFORCED CONCRETE SLAB RIGHT STRUCTURE			
STATION	PROFILE GRADE - .12'	CURB ELEVATIONS*	
		LEFT	RIGHT
862+99.06	1104.05	1103.85	
863+07.87	1104.22		1105.19
863+25	1104.48	1104.25	1105.46
863+50.39	1104.87	1104.63	
863+58.66	1104.99		1105.97
863+75	1105.24	1105.03	1106.23
864+00	1105.62	1105.41	1106.63
864+23.47	1105.98	1105.74	
864+31.03	1106.09		1107.07
864+50	1106.38	1106.15	1107.36
864+74.80	1106.76	1106.52	
864+81.83	1106.86		1107.34

* Elevations shown are at the intersection of face of curb and bearing of abutments and piers and at even 25' Stations.
Elevations are those required, before deck concrete is placed to allow for dead load deflection caused by the weight of the concrete.

W.E. SHEE
W.E. QUICKSALL AND ASS
CONSULTING ENGINEERS - NEW P
GENERAL NOTE
ESTIMATED QUANTITIES & SLAB ELEVATIONS
BRIDGE NO. STA-30-1
U.S.R. 30 OVER GAMBRI
STARK COUNTY
DESIGNED BY: [] CHECKED BY: []
DATE: 3-7-67