OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT RMP 43-83-04

DECK REPLACEMENT
BAGLEY ROAD BRIDGE
M.P. 152.9, STATION 1083 + 79.60

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LORAIN COUNTY
ORIGINAL CONTRACT SECTION C-22

AS BUILT PLANS

APPROVED FOR
THE OHIO TURNPIKE COMMISSION
BY
G. Allen Blair
CHIEF ENGINEER
7-7-83
DATE

FRANKLIN CONSULTANTS INC.

GENERAL NOTES

DESIGN SPECIFICATIONS: THE DECK REPLACEMENT AND ABUTMENT AND PIER REPAIRS FOR THESE STRUCTURES CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978, 1979, 1980, 1981, AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA: BEAM AND GIRDER LOADINGS ARE CF 30.
SLAB LOADING IS HS 20-44
CONCRETE CLASS S, F'C = 4,500 PSI, FC = 1,500 PSI
REINFORCING STEEL ASTM A615, A616 OR A617
GRADE 60 FS = 24,000 PSI

PORTLAND CEMENT: SHALL BE TYPE II OR TYPE V CONFORMING TO A.A.S.H.T.O. SPECIFICATION M 85-80

AGGREGATE: FINE AGGREGATE SHALL BE NATURAL SAND. COARSE AGGREGATE SHALL BE CRUSHED CARBONATE STONE.

WELDED STUD SHEAR CONNECTORS: SHALL CONFORM TO AASHTO. M 169.

DECK PROTECTION METHOD: EPOXY COATED REINFORCING STEEL TOP AND BOTTOM MAT, AND USE CHEM-TRETE BSM 40 WEATHERPROOFING EXCEPT FOR BOTTOM OF DECK BETWEEN BEAMS.

EXISTING STRUCTURE VERIFICATION DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO GENERAL CONDITIONS' SECTIONS G-2.04 & G-5.02 AND THE CONSTRUCTION & MATERIAL SPECIFICATION SECTION 513.02. CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

ITEM 520, PNEUMATICALLY PLACED MORTAR (FOR PIER REPAIRS): SPECIFICATIONS FOR THIS ITEM SHALL BE AS DESCRIBED IN O.D.O.T.'S CONSTRUCTION AND MATERIAL SPECIFICATIONS WITH THE FOLLOWING REVISION. THE THICKNESS OF PNEUMATICALLY PLACED MORTAR SHALL BE NOT LESS THAN THE THICKNESS OBTAINED BY REMOVING EXISTING CONCRETE TO A DEPTH OF 1 1/2" BEHIND EXISTING REINFORCING STEEL EXCEPT ON TOP HORIZONTAL SURFACES WHERE IT SHALL BE NOT LESS THAN 3/4" THICK. (ALTERNATE METHOD ITEM 519 ALLOWABLE.)

MAINTENANCE OF TRAFFIC: PROCEDURES FOR MAINTAINING TRAFFIC SHALL BE AS DIRECTED BY THE OHIO TURNPIKE COMMISSION IN CO-OPERATION WITH LOCAL AUTHORITIES AND SHALL BE IN ACCORDANCE WITH ITEM SP 614.

OHIO TURNPIKE COMMISSION

GENERAL NOTES

DATE: JUNE 1983	SCALE: NONE
RHP: 43-83-04	SHEET 2 OF 8

PLAN

NOTE:
THE EXISTING ASPHALT SURFACE SHALL BE REMOVED TO A DEPTH OF 2½± AT THE STRUCTURE APPROACHES AND REPLACED WITH ITEM 404 TO PROVIDE A SMOOTH TRANSITION TO THE NEW DECK. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 404, ASPHALT CONCRETE, AS PER PLAN, WHICH PRICE & PAYMENT, SHALL INCLUDE REMOVALS, TACK COAT, AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR DIRECTED.

LONGITUDINAL SECTION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN'L
103.05	LUMP	LUMP	PREMIUM FOR CONTRACT PERFORMANCE & PAYMENT BOND				LUMP
202	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED	LUMP	LUMP		
202	4	EA.	ABUTMENT INLETS REMOVED (SEAL EXISTING PIPE)				4
202	1025	L.F.	GUARDRAIL REMOVED				1025
404	6	C.Y.	ASPHALT CONCRETE, AS PER PLAN				6
SP503	53,264	LB.	EPOXY COATED REINFORCING STEEL (FURNISHED BY COMMISSION AND PLACED BY CONTRACTOR)	40,448	6,816		
511	30	C.Y.	CLASS S CONCRETE, ABUTMENT SLABS & PARAPETS		30		
511	215	C.Y.	CLASS S CONCRETE, SUPERSTRUCTURE & PARAPETS	215			
513	2300	LB.	STRUCTURAL STEEL (NISC EXTIFICATION NOT REQUIRED)	2300			
513	160	EA.	WELDED STUD SHEAR CONNECTORS	160			
518	4	EA.	SCUPPERS, INCLUDING SUPPORTS	4			
520	24	S.F.	PNEUMATICALLY PLACED MORTAR, SURFACE REPAIR ON PIERS 1 AND 2 = (AS PER PLAN)			24	
SP526	67.50	L.F.	STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC COMPRESSION SEALS.	67.50			
SP527	LUMP	LUMP	FALSEWORK AND TEMPORARY BRACING	LUMP			
SP535	1283	S.Y.	CHEM-TRETE R5W #1 WEATHERPROOFING	1153	130		
601	57	S.Y.	CRUSHED AGGREGATE SLOPE PROTECTION				57
606	4	EA.	BRIDGE TERMINAL ASSEMBLY, TYPE A				4
606	937.5	L.F.	GUARDRAIL, TYPE 5				937.5
606	4	EA.	ANCHOR ASSEMBLY, TYPE A T				4
SP607	520.58	L.F.	FENCE, CHAIN LINK TYPE II AS PER PLAN	454.25	66.33		
SP607	1100	L.F.	FENCE, TEMPORARY				1100
SP607	2	EA.	GATE, TEMPORARY				2
SP614	LUMP	LUMP	MAINTAINING TRAFFIC				LUMP
SP619	LUMP	LUMP	FIELD OFFICE				LUMP
SP623	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES, AS PER PLAN				LUMP
SP624	LUMP	LUMP	MOBILIZATION, AS PER PLAN				LUMP

* THE DAMAGED AREAS ARE LOCATED ON THE SOUTH COLUMN OF PIER 1, AND THE CENTER AND SOUTH COLUMNS OF PIER 2, FACING THE EASTBOUND TRAFFIC.

RECEIVED
1 - 1983
T. & Mack Intermodal Co.

RECEIVED
JUL 20 1983

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

GENERAL PLAN, LONG. SECTION & ESTIMATED QUANTITIES
BAGLEY ROAD OVER OHIO TURNPIKE

CONTRACT NO. RMP 13-83-04 SHEET 3 OF 6

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	MC	MK			7-11-83	

ABUTMENT PLAN

SLAB PLAN

EXISTING ABUTMENT SLAB TO BE REMOVED AND REPLACED WITH NEW SLAB.

REFER TO OHIO STANDARD DRAWING BR-1 DATED 5-25-79 FOR DIMENSIONS OF PARAPET AT END OF WINGWALLS.

SECTION A-A

SECTION B-B

END ELEVATION

COMPRESSION SEAL

NO.	REVISIONS	BY	DATE
1	AS-8-41.1T	S-VN	4-30-83

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

ABUTMENT DETAILS

BAGLEY ROAD OVER OHIO TURNPIKE

CONTRACT NO. RMP 43-83-04 SHEET 4 OF 8

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	LP	WDG	JS	4/10/83	

THE POURING SEQUENCE FOR THE BRIDGE ROADWAY SLAB SHALL BE MADE IN THE NUMBERED ORDER INDICATED. THERE MUST BE AT LEAST FORTY (40) HOURS BETWEEN THE COMPLETION OF ONE POUR AND THE START OF THE NEXT NUMBERED POUR.

PLAN

SECTION AT END DAM

WELDED STUD SHEAR CONNECTORS

TRANSVERSE SECTION

RAILING BARS
ES 510 IN 14'-9" PANELS
ES 511 IN 9'-0" PANELS
ES 512 IN 16'-0" PANELS
ES 513 IN 14'-0" PANELS
ES 514 IN 13'-6" PANELS

* IN ORDER TO MEET ESTABLISHED ROADWAY GRADES, TO ASSURE THE CONSTRUCTION OF THE REQUIRED THICKNESS OF DECK SLABS, AND TO ASSURE THE PROPER LOCATION OF THE REINFORCING STEEL IN THE DECK SLAB, DEAD LOAD DEFLECTION SHALL BE COMPUTED FOR EACH SPAN. ELEVATIONS SHALL BE TAKEN ON THE TOPS OF BEAMS, AND THE 8" DIMENSION ADJUSTED TO COMPENSATE FOR EXCESS OR DEFICIENT CAMBER IN BEAMS. TO BE PAID FOR UNDER CONSTRUCTION LAYOUT STAKING.

SCUPPER LOCATIONS

NO.	REVISIONS	BY	DATE
1	As-Built		

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BAGLEY ROAD OVER OHIO TURNPIKE

CONTRACT NO. RMP-43-83504 SHEET 5 OF 8

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HY	RR	RR	WDC	JF	3/10/73	

ABUTMENTS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
EA 601	26	2'-9"	107	4	9"	8½"	6"	9"	10"
EA 602	4	2'-8"	16	4	9"	8½"	5"	8"	10"
EA 603	4	2'-8"	16	4	9"	8½"	4"	8"	10"
EA 604	4	2'-7"	16	4	9"	8½"	3"	7"	10"
EA 605	16	2'-7"	62	4	9"	8½"	2"	7"	10"
EA 501	16	13'-1"	218	STR.					
EA 502	16	14'-2"	236	STR.					
EA 503	54	9'-9"	527	7	1'-6"	10½"			
EA 504	124	13'-6"	1746	STR.					
EA 505	34	34'-9"	1292	STR.					
EA 506	32	9'-2"	304	STR.					
EA 507	34	35'-11"	1274	6	34'-9"				
EA 508	64	6'-7"	438	5	6'-1"				
EY 502	22	5'-9"	120	3					
EY 505	32	2'-8"	89	5	2'-1"				
EY 506	32	4'-4"	145	STR.					
EA 401	74	13'-6"	667	STR.					
		TOTAL	6016	EPOXY	COATED				

SUPERSTRUCTURE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
ES 601	2 SERIES OF 21	25'-5" TO 61'-4"*	1001	STR.	*11½" INCREMENTS				
ES 602	317	28'-6"	13,270	STR.					
ES 603	12	6'-0"	108	STR.					
ES 501	210	30'-0"	6,511	STR.					
ES 502	30	28'-10"	902						
ES 503	317	28'-6"	9,423						
ES 504	2 SERIES OF 21	25'-5" TO 61'-4"*	605		*11½" INCREMENTS				
ES 505	56	30'-0"	1,752						
ES 506	8	28'-10"	241	STR.					
ES 507	504	2'-3"	710	1	1'-6"	0'-10½"			
ES 508	504	3'-0"	957	2	0'-9½"				
ES 509	504	5'-3"	1,676	3					
ES 510	16	14'-5"	241	STR.					
ES 511	64	5'-8"	378						
ES 512	48	15'-8"	704						
ES 513	16	19'-8"	228						
ES 514	16	19'-2"	220	STR.					
ES 401	208	30'-0"	4,068	STR.					
ES 402	23	26'-6"	518						
ES 403	40	24'-0"	962						
ES 404	80	30'-0"	691						
ES 405	30	23'-6"	711						
ES 406	8	24'-0"	128	STR.					
		TOTAL	46,448	EPOXY	COATED				

REINFORCING STEEL SAMPLES: Refer to CMS Sections 106.03, 700, 709.01 through 709.05 and 709.08. Sufficient additional reinforcing steel shall be provided for sampling. Random samples shall be replaced in the structures by the additional steel, spliced in accordance with 509.08.

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BAGLEY ROAD OVER OHIO TURNPIKE

CONTRACT NO. FRMP-43-83-04 SHEET 6 OF 8

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED