OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT RMP 43-84-10
DECK REPLACEMENT AND WIDENING

EXIT 9 RAMP BRIDGES
M.P. 152.2, STATION 1037+90.00

CHESTNUT RIDGE ROAD BRIDGES
M.P. 152.0, STATION 1028+70.20

EXIT 9 RAMP BRIDGE OVER CHESTNUT RIDGE ROAD
M.P. 152.0, RAMP STATION 12+86.83

LORAIN ROAD BRIDGES
M.P. 152.3, STATION 1043+65.96

CONRAIL RAILROAD BRIDGES
M.P. 152.6, STATION 1060+07.14

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTION	2
GENERAL NOTES	3
GENERAL SUMMARY	4
I-80 OVER CHESTNUT RIDGE ROAD PLAN & PROFILE X-SECTIONS	6-7
EXIT 9 RAMP OVER CHESTNUT RIDGE ROAD PLAN & PROFILE X-SECTIONS	8-10
I-80 OVER EXIT 9 RAMP PLAN & PROFILE X-SECTIONS	11-13
I-80 OVER LORAIN ROAD (S.R.10) PLAN & PROFILE X-SECTIONS	14-16
I-80 OVER CONRAIL PLAN & PROFILE X-SECTIONS	17-19
STRUCTURE GENERAL NOTES	20
CHESTNUT RIDGE ROAD BRIDGE	21-32
EXIT 9 RAMP OVER CHESTNUT RIDGE ROAD BRIDGE	33-40
EXIT 9 RAMP BRIDGE	41-50
LORAIN ROAD BRIDGE	51-63
CONRAIL RAILROAD BRIDGE	64-76
MAINTENANCE OF TRAFFIC	77-84
MISCELLANEOUS DETAILS	85-88

O.D.O.T. STANDARD DRAWINGS

RP-5 RESURFACING	1-16-81	MC-5	BARRICADES AND GATES	6-1-73
RP-7 CONCRETE CURBS	12-6-76	MC-7	EROSION CONTROL AT BRIDGES	10-15-76
RP-2 PAVEMENT REINFORCING	12-6-76	MC-9A	PRECAST CONCRETE BARRIER	5-1-81
GR-1 GUARDRAIL DETAILS	2-5-82	BR-1	BRIDGE RAILING	5-25-79
GR-2&3 GUARDRAIL TYPE 5	2-5-82	RS-1-55	ROCKERS AND BOLSTERS	2-2-59
GR-3 BRIDGE TERMINAL ASSEMBLY	2-5-82	SD-1-69	SCUPPERS (SHEET 3 OF 4)	6-12-69
HL-1 HIGHWAY LIGHTING	9-6-73	FSB-1-62	FIXED AND SLIDING BEARINGS	1-16-68
TC-3510 FLASHING ARROW PANEL	10-5-77			

LORAIN COUNTY
ORIGINAL CONTRACT SECTION C-22

UNDERGROUND UTILITIES
48 HOURS
BEFORE YOU DIG
Call--800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

APPROVED FOR
THE OHIO TURNPIKE COMMISSION
BY
L. Allan Plain
CHIEF ENGINEER
1-18-84
DATE

GENERAL NOTES

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE EDGE OF BERM AND TWO (2) FEET OUTSIDE THE WORK LIMITS AS SHOWN ON THE CROSS SECTIONS.

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09:

659 WATER----------3 M. GAL.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

CONNECTIONS TO EXISTING PIPE

WHERE PLANS PROVIDE FOR CONNECTIONS TO EXISTING PIPE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. PAYMENT SHALL BE INCLUDED IN THE PERTINENT 603 CONDUIT ITEMS.

LIGHT POLE FOUNDATION

SEVERAL LIGHT POLES ARE LOCATED WITHIN THE PROPOSED SHOULDER WIDTH AND MUST BE MOVED BEHIND THE PROPOSED GUARDRAIL AS SHOWN ON THE PLANS. THE EXISTING CONCRETE FOUNDATION SHALL BE REMOVED AND A NEW CONCRETE FOUNDATION PROVIDED AT THE NEW LIGHT POLE LOCATION. THE COST OF THE NEW LIGHT POLE FOUNDATION SHALL INCLUDE ANY CONDUIT, CONNECTOR KITS, AND ANY MATERIAL REQUIRED TO CONNECT THE NEW LIGHT POLE FOUNDATION INTO THE EXISTING LIGHTING SYSTEM. THE EXISTING LIGHT POLE SHALL BE REMOVED AND RESET AND RECONNECTED BY OTHERS.

PAVEMENT REPLACEMENT

THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER SHALL REMOVE AND REPLACE (AS SHOWN IN THE DETAILS) ANY SECTION OF EXISTING PAVEMENT DETERMINED TO BE UNSATISFACTORY WITHIN THE LIMITS OF THE APPROACH ROADWAY WORK AS SHOWN ON THE PLANS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED ONLY AS DIRECTED BY THE ENGINEER FOR PAVEMENT REPLACEMENT.

310 SUBBASE, TYPE I GRADING A----------333 C.Y.
SP 451 COMPACTED SUBGRADE----------222 C.Y.
SP 451 FULL DEPTH PAVEMENT REPAIRS----------2000 S.Y.
SP 451 JOINT REPAIR, TYPE D----------750 L.F.
SP 451 JOINT REPAIR, TYPE H----------300 L.F.
SP 451 JOINT REPAIR, TYPE K----------300 L.F.
SP 451 JOINT REPAIR, TYPE L----------300 L.F.
SP 605 AGGREGATE DRAIN, TYPE II----------200 L.F.

GUARDRAIL LOCATIONS

THE PROPOSED GUARDRAIL LENGTHS AS SHOWN ON THE PLANS ARE MEASURED FROM THE BRIDGE PARAPET AND INCLUDE THE BRIDGE TERMINAL ASSEMBLY. THE GUARDRAIL MAY BE SPLICED TO TIE INTO THE EXISTING GUARDRAIL AND IN SOME CASES THE OFFSET FROM EDGE OF PAVEMENT (10') WILL HAVE TO BE ADJUSTED TO MEET THE EXISTING GUARDRAIL.

EXPANSION JOINT

THE 1'-0" EXPANSION JOINT SHALL BE PLACED AT EACH END OF EACH BRIDGE AS SHOWN IN THE PAVEMENT DETAILS. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE PLACEMENT OF THE EXPANSION JOINT.

310 SUBBASE, TYPE I, GRADING----------192 C.Y.
SP 451 COMPACTED SUBGRADE----------128 C.Y.
SP 451 FULL DEPTH PAVEMENT REPAIRS----------1149 S.Y.
SP 451 JOINT REPAIR, TYPE H----------1032 L.F.

PROFILE GRADE

THE PROFILE GRADE IN THE SURFACE COURSE REMOVED AREAS SHALL BE ESTABLISHED IN THE FIELD AND APPROVED BY THE ENGINEER.

ITEM 659 - COMMERCIAL FERTILIZER

COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE INDICATED IN THE SPECIFICATIONS. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 659 COMMERCIAL FERTILIZER (12-12-12)----------0.12 TONS

ITEM SP 617 RECONDITIONING SHOULDERS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE ON THE AREAS ADJACENT TO THE EDGE OF THE PROPOSED SHOULDERS WITHOUT GUARDRAIL AS SHOWN ON THE PLANS:

ITEM SP 617 - SHOULDER PREPARATION----------275 S.Y.
ITEM SP 617 - COMPACTED AGGREGATE----------30 C.Y.
ITEM SP 617 - WATER----------.5 M.GAL.

CRACK & JOINT REPAIRS

CONTRACTOR IS TO REMOVE ALL EXISTING BITUMINOUS JOINT MATERIAL THAT MAY BE FOUND IN CRACKS AND/OR JOINTS. TACK COAT EXISTING CRACKED SURFACE AND OVERFILL WITH SAND ASPHALT FOR CRACKS ¼" OR LESS IN WIDTH, CRACKS GREATER THAN ¼" IN WIDTH SHALL BE OVERFILLED WITH ITEM ITEM 404 ASPHALT CONCRETE. THE SAND ASPHALT AND ITEM 404 OVERFILL SHALL BE AS REQUIRED TO ATTAIN A MINIMUM OF 95% COMPACTION AND IN NO CASE SHALL THE ASPHALT PLACED IN CRACKS OVERFLOW THE EXTREMITIES OF THE EXISTING CRACK. OVERFILL AFTER COMPACTION SHALL NOT EXCEED 1/4".

WHERE DIRECTED BY THE ENGINEER, OPEN CRACKS ¼" OR LESS WHICH ARE NOT SPALLING AND TOO NARROW FOR SAND ASPHALT PATCH SHALL BE FILLED WITH HOT JOINT SEALER.

NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. PAYMENT SHALL BE INCLUDED WITH ITEM 402 ASPHALT CONCRETE.

FHWA REGION	STATE	PROJECT	
5	OHIO		

4 / 88

OHIO TURNPIKE COMMISSION
RMP 43-84-10

GENERAL SUMMARY

CALC.	PCR 12-83
CHK.	RDD 12-83

ITEM	SHEET NUMBER 5	6	8	11	14	17	MAINT. OF TRAFFIC	ITEM	TOTAL	UNIT	DESCRIPTION
											ROADWAY
202	1495	204	1500	1866	1374			202	6431	S.Y.	WEARING COURSE REMOVED
202				14	8			202	24	L.F.	PIPE REMOVED 24" & UNDER
202			1	1	1			202	3	EA.	CATCH BASIN REMOVED
202	1		1		4			202	6	EA.	LIGHT POLE FOUNDATION REMOVED
202	218	58	207	247	160			202	692	S.Y.	PAVEMENT REMOVED
202			200					202	200	L.F.	CURB REMOVED
202			1					202	1	EA.	CATCH BASIN ABANDONED (CONNECT EXISTING PIPE THROUGH)
202	887.5	312.5	800	837.5	955			202	3790.5	L.F.	GUARDRAIL REMOVED FOR RE-USE
203	2	1	2	2				202	7	EA.	INLET REMOVED
203	29	15	42	101	235			203	422	C.Y.	EMBANKMENT
203	285	71	396	562	340			203	1652	C.Y.	EXCAVATION
606	7	4	6	6	6			606	29	EA.	BRIDGE TERMINAL ASSEMBLY TYPE 'B'
SP606	887.5	312.5	800	837.5	850			SP606	3787.5	L.F.	GUARDRAIL REBUILT, TYPE 5
SP614						LUMP		SP614	LUMP	LUMP	MAINTAINING TRAFFIC
SP622						5100		SP622	5100	L.F.	TEMPORARY CONCRETE BARRIER
SP622						5100		SP622	5100	L.F.	TEMPORARY CONCRETE BARRIER RESET
625	390		170	685				625	1245	L.F.	TRENCH
SP625	1520		540	3330				SP625	5390	L.F.	DIRECT BURIAL ELECTRICAL CABLE, NO. 6 AWG
625	1		1	4				625	6	EA.	LIGHT POLE FOUNDATION, AS PER PLAN
											EROSION CONTROL
653	6	3	5	17	14			653	45	C.Y.	TOP SOIL FURNISHED AND PLACED
659	3							659	3	M-GAL.	WATER
659	118	45	159	378	586			659	1298	S.Y.	SEEDING & MULCHING
659	0.12							659	0.12	TON	COMMERCIAL FERTILIZER
660	27	43	91	61	18			660	250	S.Y.	REINFORCED SODDING
											DRAINAGE
SP604				1	1			SP604	2	EA.	STANDARD CATCH BASIN
SP605	200	80	87	88	88	97		SP605	618	L.F.	AGGREGATE DRAIN TYPE 'A'
											PAVEMENT
304	84	20	126	106	110			304	446	C.Y.	AGGREGATE BASE
310	525							310	525	C.Y.	SUBBASE, TYPE 1, GRADING A
402	270	41	323	338	291			402	1263	C.Y.	ASPHALT CONCRETE
404							48	404	48	C.Y.	ASPHALT LEVELING COURSE FOR MAINTAINING TRAFFIC ON GRASSHOPPERS
SP404	42	6	42	62	38			SP404	190	C.Y.	ASPHALT CONCRETE
SP407	158	21	160	186	130			SP407	645	GAL.	TACK COAT
SP408	376	87	660	414	496			SP408	1992	GAL.	BITUMINOUS PRIME COAT
SP414	168	44	280	237	245			SP414	997	GAL.	BITUMINOUS MATERIAL FOR SHOULDER SURFACE TREATMENT
SP414	151	175	1128	948	991			SP414	3386	S.Y.	AGGREGATE FOR SHOULDER SURFACE TREATMENT
SP451	131	39	120	140	96			SP451	617	L.F.	1"-D" EXPANSION JOINT
SP451	3149							SP451	3149	S.Y.	FULL DEPTH PAVEMENT REPAIRS
SP451	360							SP451	360	C.Y.	COMPACTED SUBGRADE
SP451	750							SP451	750	L.F.	JOINT REPAIRS TYPE 'D'
SP451	1332							SP451	1332	L.F.	JOINT REPAIRS TYPE 'H'
SP451	300							SP451	300	L.F.	JOINT REPAIRS TYPE 'K'
SP451	300							SP451	300	L.F.	JOINT REPAIRS TYPE 'L'
SP609	52	11	22	95	454			SP609	554	L.F.	ASPHALT CONCRETE CURB, AC-20 STANDARD TYPE 1
SP611	358	100	329	383	404			SP611	1554	S.Y.	REINFORCED CONCRETE APPROACH SLAB 7-10"
SP627	35	15	52	42	57			SP627	201	TON	STONE SHOULDER PROTECTION
											FOR STRUCTURE QUANTITIES SEE SHEETS 21,33,41,51 AND 64
103.05								103.05	LUMP	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND
SP619								SP619	LUMP	LUMP	FIELD OFFICE
SP623								SP623	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES
624								624	LUMP	LUMP	MOBILIZATION
SP617	275							SP617	275	S.Y.	SHOULDER PREPARATION
SP617	30							SP617	30	C.Y.	COMPACTED AGGREGATE
SP617	.5							SP617	.5	M.GAL.	WATER

OHIO TURNPIKE COMMISSION
RMP 43-84-10

11
85

LEGEND
- ITEM 202 EXIST. PAVEMENT REMOVAL
- PROPOSED SHOULDER REPLACEMENT
- ITEM 594.01 18" REINFORCED CONCRETE APPROACH SLAB

ITEM 574.25 #6 AWG DIRECT BURIAL CABLE	540 L.F.
ITEM 625 TRENCH	178 L.F.

B.M. 5 ELEV. 799.00
CHISELED "X" ON N.E. CORNER OF BRIDGE HANDRAIL ON W.B. LANES OF T-90

B.M. 9 ELEV. 795.98
CHISELED "□" ON S.W. CORNER OF BRIDGE HANDRAIL ON E.B. LANES OF T-90

EXCAVATION	396 C.Y.
EMBANKMENT	42 C.Y.
TOP SOIL	5 C.Y.
SEEDING	159 S.Y.

CALC. ADB 12-85
CHK. DCB 12-85

NOTES:
1. FOR APPROACH SLAB DETAILS SEE SHEET NO. 85
2. FOR CROSS SECTIONS SEE SHEET NO. 12-15
3. FOR EXPANSION JOINT DETAILS SEE SHEET NO. 86
4. PLUG ALL EXPOSED PIPES AFTER REMOVAL OF CATCH BASINS OR INLETS
5. PLACE L-1 2'-0" BEHIND FACE OF CURB
6. FOR ELECTRICAL DETAILS SEE SHEET NO. 89

PAVEMENT QUANTITIES

ITEM 402	5" ASPHALT CONCRETE	= 154	C.Y.
ITEM 824	4" AGGREGATE BASE	= 125	C.Y.
ITEM 482	VARIABLE DEPTH ASPHALT CONCRETE	= 167	C.Y.
ITEM 574.04	1" ASPHALT CONCRETE	= 42	C.Y.
ITEM 574.07	TACK COAT	= 150	GAL.
ITEM 574.08	PRIME COAT	= 540	GAL.
ITEM 574.14	BITUMINOUS MATERIAL FOR SHOULDER SURFACE	= 280	GAL.
ITEM 574.14	AGGREGATE FOR SHOULDER SURFACE TREATMENT	= 1120	S.Y.
ITEM 574.27	STONE SHOULDER TREATMENT	= 32	TONS

* AS PER PLAN

REF.	LOCATION	SIDE	574.05 RECIPROCATE DRAINS TYPE II L.F.	625 * LIGHT POLE FOUNDATION EA.	660 REINFORCED SODDING S.Y.	202 WEARING COURSE REMOVED S.Y.			
D-1	1037+00±	LT.			19				
D-2	1037+00±	RT.			72				
D-3	1036+75±	LT.	22						
D-4	1039+08±	LT.	22						
D-5	1036+75±	RT.	13						
D-6	1039+08±	RT.	22						
D-7	1036+75±	RT.	9						
L-1	1037+15±	RT.		1					
R-16	1036+50±	RT.				440			
R-17	1039+00±	RT.				440			
R-18	1036+50±	LT.				360			
R-19	1039+00±	LT.				360			
TOTALS			88	1	91	1600			

REF.	LOCATION	SIDE	604 GUARDRAIL REMOVED TYPE 6 L.F.	202 GUARDRAIL REMOVED FOR RE-USE L.F.		686 BRIDGE TERMINAL ASSEMBLY TYPE "A" EA.	202 CATCH BASIN (WITHDRAWN) (CONNECT PIPE THRU) EA.	202 PAVEMENT REMOVED S.Y.	202 LIGHT POLE FOUNDATION REMOVED EA.		
GR-1	1037+00±	LT.	150			1					
GR-2	1039+00±	LT.	150			1					
GR-3	1036+50±	RT.	125			1					
GR-4	1039+00±	RT.	100			1					
GR-5	1037+00±	RT.	125	125		1					
GR-6	1039+00±	LT.	150	150		1					
R-1	1037+55±	LT.		185							
R-2	1039+05±	LT.		150							
R-3	1036+99±	RT.		125							
R-4	1039+00±	RT.		185							
R-5	1037+20±	LT.						40			
R-6	1038+40±	LT.						40			
R-7	1037+20±	RT.						67			
R-8	1038+40±	RT.						60			
R-12	1039+15±	RT.							1		
R-15	1039+50	RT.					1				
TOTALS			600	880		6	1	207	1		

REF.	LOCATION	SIDE	574.51 EXPANSION JOINT 1"-D" L.F.	574.11 REINFORCED CONCRETE APPROACH SLAB 7"-D" S.Y.	574.09 ASPHALT CONC. CURB AC-20 STA. TYPE 1 L.F.	202 INLET REMOVED EA.	202 CURB REMOVED L.F.	202 CATCH BASIN REMOVED EA.		
R-9	1037+25	LT.				1				
R-10	1037+25	RT.				1				
R-11	1039+20±	RT.					15			
R-13	1038+57	RT.						1		
R-14	1040+00±	RT.					185			
T-1	1037+20±	LT.		64.2						
T-2	1038+40±	LT.		64.2						
T-3	1037+20±	RT.		102.4						
T-4	1038+40±	RT.		98.4						
T-5	1037+20±	LT.			11					
T-6	1037+20±	RT.			11					
T-7	1038+08±	RT.	36							
T-8	1036+70±	LT.	24							
T-9	1039+04±	LT.	24							
T-10	1036+75±	RT.	36							
TOTALS			120	329	22	2	200	1		

I-80 AT EXIT 9 RAMP

EAST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
AB11	5	16'-3"	224	STR.						
AB12	10	4'-4"	116	STR.						
AB13	10	4'-5"	120	STR.						
AG01	3	13'-4"	60	1	6'-1"	8"	6'-1"	1'-0"		
ERC01	1 SERIES OF 5	10'-8" TO 7'-1" *	69	4	9'-10" TO 6'-7"	8½"	6"	3"	—	* 7½" INCREMENTS
ERG51	1	7'-4"	11		6'-1"		6"	3"		
ERG52	1	6'-8"	10		5'-8"		5"	3"		
ERG53	1	6'-1"	9		4'-7"		4"	3"		
ERG54	1	5'-4"	8		4'-2"		3"	1"		
ERG55	1	4'-9"	7		3'-7"		2"	1"		
ERG56	3	4'-8"	21	4	3'-6"	8½"	2"	1"		
ERG57	12	21'-2"	382	2	20'-8"					
ERG58	12	13'-8"	246	2	13'-1"					
ERG59	11	5'-5"	89	2	4'-9"					
ERG60	11	7'-1"	116	STR.						
ERG61	11	9'-8"	160	2	9'-1"					
ERG62	6	2'-11"	26	4	1'1"	8½"	6"	3"	10"	
ERG63	1	2'-10"	4				5"	3"		
ERG64	1	2'-10"	4				4"	3"		
ERG65	1	2'-3"	4				3"	1"		
ERG66	4	2'-3"	17	4	1'1"	8½"	2"	1"	10"	
ABD01	19	2'-10"	56	STR.						
ABD02	19	4'-8"	92	STR.						
ABD31	6	11'-1"	60	6	2'-7"	6'-2"	2'-7"			
ABD32	1	3'-3"	4	STR.						
ABD33	2	4'-5"	10							
ABD34	2	7'-7"	16							
ABD35	2	10'-5"	22							
ABD36	2	13'-3"	28							
ABD37	2	16'-5"	36							
ABD38	2	4'-3"	9	STR.						
ABD39	2	15'-3"	32	STR.						
ERD40	1 SERIES OF 5	12'-2" TO 9'-7" *	57	6	3'-8" TO 7'-3"	1'-2"	1'-7"			* 1½" INCREMENTS
ERD41	1 SERIES OF 5	10'-9" TO 8'-1" *	49	6	8'-3" TO 5'-7"	1'-2"	1'-7"			* 8½" INCREMENTS
ERE42	3	7'-11"	25	6	5'-8"	1'-2"	1'-7"			
ERE43	8	9'-11"	49	6	1'-3"	2'-8"	1'-3"			
ERE44	16	2'-8"	86	5	2'-2"	1½"				
ERE45	39	14'-3"	560	STR.						
ERE46	27	13'-1"	355	STR.						
ERE47	27	18'-6"	521	STR.						
ERE48	5	2'-1"	11	5	1'-5"	3½"				
ERE49	8	3'-4"	28	5	2'-8"	3½"				
ERE50	16	12'-6"	205	STR.						
ERE51	16	12'-3"	204	STR.						
ERE52	3	8'-7"	27	STR.						
ERE53	3	3'-8"	11	STR.						
ERE54	5	6'-4"	33	7	1'-7"	3'-4"	1'-7"			
EYS02	10	5'-3"	58	3						
EYS05	16	2'-8"	45	2	2'-1"					
EYS06	16	4'-4"	72	STR.						
ERH01	34	14'-3"	324	STR.						
		TOTAL	1016	UNCOATED						
		TOTAL	5115	EPOXY	COATED					

WEST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
AB01	5	15'-6"	201	STR.						
AB02	10	4'-4"	116	STR.						
AB03	10	4'-3"	127	STR.						
AG01	3	13'-4"	60	1	6'-1"	8"	6'-1"	1'-0"		
ERG02	1 SERIES OF 4	10'-8" TO 8'-8" *	56	4	9'-8" TO 7'-8"	8½"	6"	3"	—	* 8½" INCREMENTS
ERG03	1	8'-0"	12		6'-8"		6"	3"		
ERG04	1	7'-4"	11		6'-1"		5"	3"		
ERG05	1	6'-9"	10		5'-6"		4"	3"		
ERG06	1	6'-1"	9		4'-11"		3"	1"		
ERG07	1	5'-6"	8		4'-4"		2"	1"		
ERG08	3	4'-9"	21	4	3'-7"	8½"	2"	1"		
ERG09	11	13'-8"	325	2	13'-1"					
ERG10	11	15'-6"	256	2	14'-10"					
ERG11	10	3'-11"	143	2	3'-3"					
ERG12	10	7'-0"	105	STR.						
ERG13	10	8'-8"	89	2	5'-0"					
ERG14	5	2'-11"	22	4	1'1"	8½"	6"	3"	10"	
ERG15	1	2'-10"	4				5"	3"		
ERG16	1	2'-10"	4				4"	3"		
ERG17	1	2'-9"	4				3"	1"		
ERG18	4	2'-9"	17	4	1'1"	8½"	2"	1"	10"	
ABD01	19	2'-10"	56	STR.						
ABD02	19	4'-8"	92	STR.						
ABD03	5	11'-2"	58	6	2'-7"	6'-3"	2'-7"			
ABD04	1	4'-2"	4	STR.						
ABD05	2	4'-8"	9							
ABD06	2	7'-2"	15							
ABD07	2	10'-2"	21							
ABD08	2	13'-2"	27							
ABD09	2	17'-11"	37							
ABD10	2	3'-6"	7							
ABD11	2	14'-3"	31	STR.						
ERD12	1 SERIES OF 4	12'-6" TO 10'-6" *	48	6	10'-0" TO 8'-0"	1'-2"	1'-7"			* 8½" INCREMENTS
ERD13	1 SERIES OF 5	11'-5" TO 8'-8" *	52	6	8'-11" TO 6'-2"	1'-2"	1'-7"			* 8½" INCREMENTS
ERE14	3	8'-0"	25	6	5'-8"	1'-2"	1'-7"			
ERE15	8	6'-1"	51	6	1'-10"	2'-8"	1'-10"			
ERE16	15	2'-8"	53	5	2'-2"	7½"				
ERE17	57	12'-10"	636	STR.						
ERE18	74	13'-5"	556	STR.						
ERE19	24	19'-2"	462	STR.						
ERE20	4	2'-1"	9	5	1'-5"	3½"				
ERE21	8	3'-4"	26	5	2'-8"	3½"				
ERE22	8	11'-0"	92	STR.						
ERE23	8	11'-4"	95	STR.						
ERE24	2	8'-0"	18	STR.						
ERE25	2	3'-5"	7	STR.						
EYS02	8	5'-3"	44	3						
EYS05	16	2'-8"	45	2	2'-1"					
EYS06	16	4'-4"	72	STR.						
ERH01	35	12'-10"	300	STR.						
		TOTAL	843	UNCOATED						
		TOTAL	5411	EPOXY	COATED					

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E

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

EXIT 9 RAMP OVER CHESTNUT RIDGE ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MY	MY	WK	SWM	JK	7/20/03	

DRAWING 4-C-SS-BRIDGE-1

SUPERSTRUCTURE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
ES 601	140	29'-6"	6,205	STR.						
ES 602	2 SERIES OF 15	24'-0" TO 71'-3" *	949	STR.						* 18 3/4" INCR.
ES 603	12	5'-6"	99	STR.						
ES 501	140	29'-6"	4,308	STR.						
ES 502	2 SERIES OF 15	26'-0" TO 71'-3" *	451	STR.						* 18 3/4" INCR.
ES 503	120	30'-0"	3,755	STR.						
ES 504	40	12'-6"	522	STR.						
ES 505	130	2'-2"	294	1	0'-10 1/2"	1'-5"				
ES 506	130	3'-1"	410	2						
ES 507	130	5'-3"	712	3						
ES 508	16	11'-5"	196	STR.						
ES 509	24	12'-7"	315	STR.						
ES 510	32	5'-8"	188	STR.						
ES 511	8	10'-10"	90	STR.						
ES401	111	30'-0"	2,224	STR.						
ES402	57	11'-6"	264	STR.						
ES403	74	15'-0"	741	STR.						
		TOTAL	21,450	EPOXY	COATED					

PIERS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
P1001	24	7'-6"	775	1	6'-0"	1'-10"				
P1002	12	15'-1"	775	STR.						
P1003	12	15'-6"	800	STR.						
P801	24	4'-4"	276	STR.						
P802	24	7'-0"	449	4	6'-1"					
P803	16	4'-6"	185	STR.						
P804	8	6'-2"	132	STR.						
P805	8	8'-3"	176	1	6'-1"	2'-5"				
P701	5	13'-2"	135	5	11'-6"					
P501	11	2'-10"	33	STR.						
P502	11	6'-2"	71	STR.						
P503	6	11'-5"	72	STR.						
P504	52	7'-11"	429	6	2'-8"	1'-0 1/2"				
P505	16	6'-3"	118	7	2'-2"	2'-5"	2'-2"			
			4,428	UNCOATED						

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	

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 509.06.

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

EXIT 9 RAMP OVER CHESTNUT RIDGE ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	RP	SWA	JS	1/20/03	

BR-PRTS-44-192 (5/05)

PLAN

BENCH MARKS:

CHS. □ ON N.E. CORNER OF WESTBOUND BRIDGE AT HANDRAIL. ELEV. 793.00

CHS. □ ON S.W. CORNER OF EASTBOUND BRIDGE AT HANDRAIL. ELEV. 795.90

NOTE: PROPOSED PROFILE GRADE IS 1½" ABOVE ORIGINAL GRADE. TRANSITION GRADE AS DIRECTED BY THE ENGINEER.

LONGITUDINAL SECTION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L.		
SP202	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED	LUMP	LUMP				
203	7	C.Y.	EMBANKMENT		7				
503	115	C.Y.	UNCLASSIFIED EXCAVATION		38	77			
505	LUMP	LUMP	PILE DRIVING EQUIPMENT MOBILIZATION		LUMP	LUMP			
507	720	L.F.	STEEL PILES, HP10 x 42		455	265			
509	13,733	LB.	REINFORCING STEEL		3721	10032			
SP824	98,438	LB.	EPOXY COATED REINFORCING STEEL	79,981	18,457				
510	241	EA.	DOWEL HOLES, USING SP 863 GROUT ANCHORING WITH NONSHRINKING EPOXY MORTAR		185	56			
511	42	C.Y.	CLASS "C" CONCRETE, ABUTMENTS		42				
511	28	C.Y.	CLASS "C" CONCRETE, PIERS BEAVE FOOTINGS			28			
511	39	C.Y.	CLASS "C" CONCRETE, PIER FOOTINGS			39			
SP511	337	C.Y.	CLASS "S" CONCRETE, SUPERSTRUCTURE, USING SHRINKAGE COMPENSATING CONCRETE, 701.08	337					
SP511	86	C.Y.	CLASS "S" CONCRETE, ABUTMENT SLABS AND PARAPETS, USING SHRINKAGE COMPENSATING CONCRETE, 701.08		86				
513	39,700	LB.	STRUCTURAL STEEL (BRIDGE CATEGORY I)	39,700					
513	480	EA.	WELDED STUD SHEAR CONNECTORS	480					
518	5	EA.	SCUPPERS, INCLUDING SUPPORTS	5					
SP539B	205	L.F.	1½" PREFORMED ELASTIC JOINT SEAL	205					
SP828	32	EA.	REPLACE EXISTING RIVETS WITH NEW HIGH STRENGTH BOLTS	32					
SP527	LUMP	LUMP	FALSEWORK AND TEMPORARY BRACING	LUMP					
SP532	1895	S.Y.	CHEM-TRETE BSM CONCRETE WEATHERPROOFING	1574	321				
601	131	S.Y.	CRUSHED AGGREGATE SLOPE PROTECTION				131		
SP514	39,700	LB.	FIELD PRINTING OF NEW STRUCT. STEEL	39,700					
SP514	LUMP	LUMP	FIELD PRINTING OF EXISTING STRUCTURAL STEEL	LUMP					

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

GENERAL PLAN, LONG. SECTION & ESTIMATED QUANTITIES
OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HH	HH	MK	JWM	JE	7/20/83	

LEGEND:
N.F. DENOTES NEAR FACE
F.F. DENOTES FAR FACE
T. & B. DENOTES TOP AND BOTTOM
MIN. BAR LAP:
*B = 2'-6" *S = 1'-7"

REPLACE DETERIORATED CONCRETE IN CURTAIN WALL AS NEEDED

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

NORTHWEST ABUTMENT & NORTHEAST ABUTMENT

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HH	HH	MC	SWB	JF	7-6-83	

PLAN

SECTION A-A

ELEVATION

ESTIMATED AVERAGE PILE LENGTH 35 FEET

SECTION B-B

NO	REVISIONS	BY	DATE
△	ER402 BARS SHORTENED	MK	1/85

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SOUTHEAST ABUTMENT

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JJK	JJK	MK	SWM	JF	7/2/83	

PLAN

SECTION F-F

SECTION E-E

ELEVATION

SECTION B-B

SECTION D-D

ESTIMATED AVERAGE PILE LENGTH 38 FEET

ELEVATION A-A

ELEVATION C-C

CURB DETAIL

NO.	REVISIONS	BY	DATE
Δ	ER402, BARS SHORTENED	MK	1/85

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SOUTHWEST ABUTMENT

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MM	MM	MK	SWM	JK	8/22/83	

PLAN

LOCATION PLAN

ANCHOR HOLE LOCATIONS

ELEVATION

PIER CAP REINFORCING

COLUMN REINFORCING

END VIEW

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

PIER DETAILS

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED

D C B A

FRAMING PLAN

PLAN OF END DAM AT CURB

CAMBER DIAGRAM OF NEW BEAMS
FOR DEAD LOAD AND HORIZONTAL CURVE

SECTION B-B
(AT ABUTMENTS)

PLAN

NOTE: WHERE A SUFFIX OR PLATE IS DESIGNATED (CVN) THE MATERIAL SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF OHIO CMS.

ELEVATION
SPLICE DETAIL
7/16" ϕ H.S. BOLTS A325, TYPE 3

SECTION D-D

SECTION C-C

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KM	KM	MC	SMM	JS	8/20/83	

PLAN

PLAN

WELDED STUD SHEAR CONNECTORS

SECTION A-A

FOR ADDITIONAL DIMENSIONS OF SCUPPER REFER TO OHIO STANDARD DRAWING SD-1-69, SHEET 3 OF 4.

SCUPPER DETAIL

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
NORTH BRIDGE

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MPP	MPP	JPD	SWM	JK	7/20/73	

PLAN

* CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING BEAM.

SECTION A-A

SCUPPER DETAIL

FOR ADDITIONAL DIMENSIONS OF SCUPPER REFER TO OHIO STANDARD DRAWING SD-1-03, SHEET 3 OF 4.

MIN. BAR LAP

#6 = 1'-11" (UNLESS NOTED OTHERWISE)
#5 = 1'-7"
#4 = 1'-3"

NO.	REVISIONS	BY	DATE
△	ES404 BARS SHORTENED	MK	1/05

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
SOUTH BRIDGE

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MM	MM	JJ	DWM	JK	10/03	

NORTH SUPERSTRUCTURE

MARK	NO	LENGTH	WEIGHT	TYPE	A	B	C	D	E
ES621	178	20'-0"	5347	STR.					
ES622	178	21'-11"	5846	STR.					
ES505	141	30'-0"	4412	STR.					
ES506	47	18'-2"	891	STR.					
ES507	140	3'-1"	450	9					
ES508	140	2'-3"	329	2	1'-6"	0'-10½"			
ES509	140	5'-3"	767	1					
ES510	16	11'-3"	188	STR.					
ES511	32	6'-2"	206	1					
ES512	16	13'-8"	228						
ES513	16	12'-11"	216						
ES521	178	23'-7"	4378						
ES522	178	18'-0"	3342	STR.					
ES401	159	30'-0"	5006	STR.					
ES402	50	17'-2"	573	STR.					
ES403	102	16'-6"	1124	STR.					
		TOTAL	31,317	EPOXY	COATED				

SOUTH SUPERSTRUCTURE

MARK	NO	LENGTH	WEIGHT	TYPE	A	B	C	D	E
ES601	178	18'-9"	5019	STR.					
ES602	60	39'-0"	2613						
ES603	60	28'-9"	2946						
ES604	58	27'-6"	2396						
ES605	178	14'-8"	3921						
ES606	178	7'-5"	1983	STR.					
ES801	178	16'-10"	2154	STR.					
ES802	60	38'-5"	2089						
ES803	60	31'-8"	1882						
ES804	58	30'-11"	1670						
ES805	178	9'-8"	1735						
ES806	178	10'-10"	2011						
ES807	204	30'-0"	4365						
ES808	68	18'-8"	1268	STR.					
ES809	140	3'-1"	450	9					
ES510	140	2'-3"	329	2	1'-6"	0'-10½"			
ES511	140	5'-3"	767	1					
ES512	16	11'-3"	188	STR.					
ES513	32	6'-2"	206	1					
ES514	16	13'-8"	228						
ES515	16	12'-11"	216	STR.					
ES401	237	30'-0"	4745	STR.					
ES402	73	17'-2"	506	STR.					
ES403	160	16'-6"	1764	STR.					
ES404	88	5'-0"	277	4					
		TOTAL	48,664	EPOXY	COATED				

NORTHEAST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
AB01	10	4'-6"	120	STR.					
AB02	10	5'-9"	154	STR.					
AB03	9	12'-3"	98	STR.					
EA601	5	10'-2"	76	8	4'-6"	0'-8"	4'-6"	1'-0"	—
EA602	3	5'-3"	24	5	4'-1"	0'-8½"	0'-2"	0'-7"	—
EA603	3	2'-11"	13		0'-11"	0'-8½"	0'-6"	0'-8"	0'-10"
EA604	1	2'-10"	4		0'-11"	0'-8½"	0'-5"	0'-8"	0'-10"
EA605	1	2'-10"	4		0'-11"	0'-8½"	0'-5"	0'-8"	0'-10"
EA606	1	2'-3"	4		0'-11"	0'-8½"	0'-3"	0'-7"	0'-10"
EA607	4	2'-3"	17		0'-11"	0'-8½"	0'-2"	0'-7"	0'-10"
EA621	1	11'-10"	18		10'-6"	0'-8½"	0'-6"	0'-8"	—
EA622	1	8'-11"	13		7'-7"		0'-6"	0'-8"	—
EA623	1	8'-3"	12		6'-11"		0'-6"	0'-8"	—
EA624	1	7'-6"	11		6'-3"		0'-5"	0'-8"	—
EA625	1	6'-10"	10		5'-7"		0'-4"	0'-8"	—
EA626	1	6'-1"	9		4'-11"		0'-3"	0'-7"	—
EA627	1	5'-5"	8	5	4'-3"	0'-8½"	0'-2"	0'-7"	—
EA661	87	10'-3"	1290	STR.					
EA662	12	16'-2"	291	7	15'-6"				
EA663	12	27'-1"	488	7	26'-5"				
AS01	19	3'-0"	44	STR.					
AS02	18	5'-9"	108	STR.					
AS03	8	11'-4"	96	6	4'-1"	3'-5"	4'-1"		
AS04	2	3'-5"	7	STR.					
EA505	3	8'-5"	26	6	1'-7"	1'-8"	3'-11"		
EA506	23	2'-6"	60	2	2'-0"	0'-7½"			
EA507	16	10'-3"	171	STR.					
EA508	2	2'-2"	5	2	1'-8"	0'-7½"			
EA509	12	6'-7"	82	6	2'-1"	2'-8"	2'-1"		
AS10	2	19'-10"	29	STR.					
AS11	2	3'-0"	8						
AS12	2	11'-0"	29						
AS13	2	6'-0"	17						
AS14	2	5'-0"	10						
AS15	2	9'-5"	19						
AS16	2	3'-5"	7						
AS17	1	11'-1"	18	STR.					
AS18	1	11'-1"	18	6	1'-7"	1'-2"	8'-7"		
EA519	USE NO.6	12'-0" TO 9'-0"*	55	6	1'-7"	1'-2"	9'-6" TO 6'-6"		*SEE 5" INCRE
EA520	8	3'-5"	28	2	2'-11"	7½"			
EA661	12	23'-7"	295	STR.					
EA662	12	18'-0"	225	STR.					
AS11	2	11'-2"	24	STR.					
EY502	4	5'-3"	22	1					
EY505	10	2'-8"	45	7	2'-1"				
EY506	16	4'-4"	72	STR.					
EA401	63	10'-3"	472	STR.					
		TOTAL	940	UNCOATED					
		TOTAL	3741	EPOXY	COATED				

NORTHWEST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
AB01	10	4'-6"	120	STR.					
AB02	10	5'-9"	154	STR.					
AB03	9	12'-3"	98	STR.					
EA601	5	10'-2"	76	8	4'-6"	0'-8"	4'-6"	1'-0"	—
EA602	3	5'-3"	24	5	4'-1"	0'-8½"	0'-2"	0'-7"	—
EA603	3	2'-11"	13	5	0'-11"	0'-8½"	0'-6"	0'-8"	0'-10"
EA604	1	2'-10"	4	5	0'-11"	0'-8½"	0'-5"	0'-8"	0'-10"
EA605	1	2'-10"	4	5	0'-11"	0'-8½"	0'-5"	0'-8"	0'-10"
EA606	1	2'-3"	4	5	0'-11"	0'-8½"	0'-3"	0'-7"	0'-10"
EA607	4	2'-3"	17	5	0'-11"	0'-8½"	0'-2"	0'-7"	0'-10"
EA661	87	10'-3"	1290	STR.					
EA662	12	16'-2"	291	7	15'-6"				
EA663	12	27'-1"	488	7	26'-5"				
AS01	19	3'-0"	44	STR.					
AS02	18	5'-9"	108	STR.					
AS03	8	11'-4"	96	6	4'-1"	3'-5"	4'-1"		
AS04	2	3'-5"	7	STR.					
EA505	3	8'-5"	26	6	1'-7"	1'-2"	5'-11"		
EA506	23	2'-6"	60	2	2'-0"	0'-7½"			
EA507	16	10'-3"	171	STR.					
EA508	2	2'-2"	5	2	1'-8"	0'-7½"			
EA509	12	6'-7"	82	6	2'-1"	2'-8"	2'-1"		
AS10	2	19'-10"	29	STR.					
AS11	2	3'-0"	8						
AS12	2	11'-0"	29						
AS13	2	6'-0"	17						
AS14	2	5'-0"	10						
AS15	2	9'-5"	19						
AS16	2	3'-5"	7						
AS17	1	11'-1"	18	STR.					
AS18	1	11'-1"	18	6	1'-7"	1'-2"	8'-7"		
EA519	USE NO.6	12'-0" TO 9'-0"*	55	6	1'-7"	1'-2"	9'-6" TO 6'-6"		*SEE 5" INCRE
EA520	8	3'-5"	28	2	2'-11"	7½"			
EA661	12	23'-7"	295	STR.					
EA662	12	18'-0"	225	STR.					
AS11	2	11'-2"	24	STR.					
EY502	4	5'-3"	22	1					
EY505	10	2'-8"	45	7	2'-1"				
EY506	16	4'-4"	72	STR.					
EA401	63	10'-3"	472	STR.					
		TOTAL	945	UNCOATED					
		TOTAL	3746	EPOXY	COATED				

*5" INCREMENTS

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

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MM	MM	MK	SMM	JA	8/26/03	

BRIDGE 46-132 32C-01

SOUTHEAST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
A801	10	4'-6"	120	STR.						
A802	10	5'-9"	154	STR.						
A803	3	12'-3"	98	STR.						
A601	5	10'-2"	76	8	4'-6"	0'-8"	4'-6"	1'-0"		
ER603	5	2'-11"	13	5	0'-11"	0'-8 1/2"	0'-6"	0'-5"	0'-10"	
ER604	1	2'-10"	4		0'-11"		0'-5"	0'-5"	0'-10"	
ER605	1	2'-10"	4		0'-11"		0'-4"	0'-5"	0'-10"	
ER606	1	2'-9"	4		0'-11"		0'-3"	0'-7"	0'-10"	
ER607	4	2'-9"	17		0'-11"		0'-2"	0'-7"	0'-10"	
ER661	1	11'-2"	17		9'-10"		0'-6"	0'-5"	—	
ER642	1	6'-3"	12		6'-11"		0'-6"	0'-5"	—	
ER643	1	7'-7"	11		6'-9"		0'-6"	0'-5"	—	
ER644	1	6'-11"	10		5'-8"		0'-5"	0'-5"	—	
ER645	1	6'-4"	10		5'-1"		0'-4"	0'-5"	—	
ER646	1	5'-8"	9		4'-6"		0'-3"	0'-7"	—	
ER647	1	5'-1"	8		3'-11"		0'-2"	0'-7"	—	
ER648	8	4'-8"	21	5	3'-6"	0'-8 1/2"	0'-2"	0'-7"	—	
ER661	159	10'-3"	2048	STR.						
ER667	12	17'-1"	308	7	16'-8"					
ER668	12	39'-0"	523	STR.						
ER669	12	19'-10"	357	7	19'-2"					
A501	14	3'-0"	44	STR.						
A502	16	6'-9"	108	STR.						
A503	8	11'-4"	96	6	4'-1"	3'-5"	4'-1"			
A504	2	3'-5"	7	STR.						
ER507	16	10'-3"	171	STR.						
ER508	2	2'-2"	5	2	1'-8"	0'-7 1/2"				
A510	2	13'-10"	29	STR.						
A511	2	3'-8"	8							
A516	2	3'-6"	7							
A541	2	9'-0"	19							
A542	2	6'-0"	13							
A543	1	10'-6"	11	STR.						
A544	1	10'-2"	11	6	1'-7"	1'-2"	7'-8"			
ER545	SEE NOTE	11'-2" TO 8'-5" +	51	6	1'-7"	1'-2"	8'-8" TO 5'-11"		* 8'-6" INCR.	
ER546	3	7'-10"	23	6	1'-7"	1'-2"	5'-2"			
ER547	33	2'-6"	86	2	2'-0"	0'-7 1/2"				
A548	12	6'-1"	76	6	1'-10"	2'-8"	1'-10"			
ER566	12	26'-8"	316	STR.						
ER567	12	19'-10"	240	STR.						
ER568	12	18'-0"	225	STR.						
ER569	8	3'-5"	29	2	2'-11"	7 1/2"				
A570	2	8'-8"	18	STR.						
A571	2	11'-6"	24	STR.						
EY602	4	5'-3"	22	1						
EY605	16	2'-8"	45	7	2'-1"					
EY606	16	4'-4"	72	STR.						
ER401	105	10'-3"	719	STR.						
ER402	3	5'-0"	30	4						
		TOTAL	918	UNCOATED						
		TOTAL	5420	EPOXY	COATED					

SOUTHWEST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
A801	10	4'-6"	120	STR.						
A802	10	5'-9"	154	STR.						
A803	3	12'-3"	98	STR.						
A601	5	10'-2"	76	8	4'-6"	0'-8"	4'-6"	1'-0"		
ER603	5	2'-11"	13	5	0'-11"	0'-8 1/2"	0'-6"	0'-5"	0'-10"	
ER604	1	2'-10"	4				0'-5"	0'-5"	0'-10"	
ER605	1	2'-10"	4				0'-4"	0'-5"	0'-10"	
ER606	1	2'-9"	4				0'-3"	0'-7"	0'-10"	
ER607	4	2'-9"	17		0'-11"		0'-2"	0'-7"	0'-10"	
ER651	1	11'-2"	17		9'-10"		0'-6"	0'-5"	—	
ER652	1	8'-7"	13		7'-8"		0'-6"	0'-5"	—	
ER653	1	7'-10"	12		6'-9"		0'-6"	0'-5"	—	
ER654	1	7'-1"	11		6'-0"		0'-6"	0'-5"	—	
ER655	1	6'-5"	10		5'-8"		0'-5"	0'-5"	—	
ER656	1	5'-8"	9		5'-2"		0'-4"	0'-5"	—	
ER657	1	5'-0"	8		4'-6"		0'-3"	0'-7"	—	
ER658	5	4'-8"	21	5	3'-11"	0'-8 1/2"	0'-2"	0'-7"	—	
ER661	138	18'-3"	2525	STR.						
ER664	16	18'-6"	296	7	18'-0"					
ER665	12	50'-0"	641	STR.						
ER666	12	19'-11"	359	7	19'-5"					
A501	14	3'-0"	44	STR.						
A502	16	6'-9"	108	STR.						
A503	8	11'-4"	96	6	4'-1"	3'-5"	4'-1"			
A504	2	3'-5"	7	STR.						
ER507	16	10'-3"	171	STR.						
ER508	2	2'-2"	5	2	1'-8"	0'-7 1/2"				
A510	2	13'-10"	29	STR.						
A511	2	3'-8"	8							
A516	2	3'-6"	7							
A531	2	9'-3"	19							
A532	2	6'-3"	13							
A533	1	10'-6"	11	STR.						
A534	1	10'-6"	11	6	1'-7"	1'-2"	8'-0"			
ER535	SEE NOTE	11'-6" TO 8'-6" *	52	6	1'-7"	1'-2"	9'-0" TO 6'-0"		* 3" INCR.	
ER536	3	7'-10"	25	6	1'-7"	1'-2"	5'-4"			
ER537	34	2'-6"	89	2	2'-0"	0'-7 1/2"				
A538	18	6'-1"	76	6	1'-10"	2'-8"	1'-10"			
ER563	18	26'-0"	325	STR.						
ER564	18	21'-7"	270	STR.						
ER565	18	18'-0"	225	STR.						
ER569	8	3'-5"	29	2	2'-11"	7 1/2"				
A570	2	8'-8"	18	STR.						
A571	2	11'-6"	24	STR.						
EY602	4	5'-3"	22	1						
EY605	16	2'-8"	45	7	2'-1"					
EY606	16	4'-4"	72	STR.						
ER401	109	10'-3"	746	STR.						
ER402	3	5'-0"	30	4						
		TOTAL	918	UNCOATED						
		TOTAL	5410	EPOXY	COATED					

PIERS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
P1001	48	7'-6"	1549	2	6'-0"	1'-10"				
P1002	12	17'-1"	868	STR.						
P1003	12	17'-10"	921							
P1004	12	16'-7"	896							
P1005	12	17'-4"	895	STR.						
P801	32	14'-4"	1225	5	12'-6"					
P701	24	4'-10"	188	STR.						
P702	6	5'-8"	71	STR.						
P703	6	6'-1"	76	STR.						
P704	6	8'-0"	98	2	5'-8"	2'-5"				
P705	6	8'-4"	102	2	6'-1"	2'-5"				
P601	32	3'-5"	164	STR.						
P602	64	5'-10"	561	STR.						
P603	6	4'-4"	33	6	1'-5"	1'-2"	1'-5"			
P604	4	2'-2"	13	STR.						
P501	16	12'-6"	208	STR.						
P502	24	6'-9"	163	6	2'-8"	2'-5"	2'-2"			
P503	244	7'-11"	2015	5	1'-0 7/8"	2'-8"				
		TOTAL	10,082							

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

OHIO TURNPIKE OVER EXIT 9 RAMP

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MT	MT					

BRM 802.46-12.30951

PLAN

APPROACH SLAB FOR SKEWED BRIDGE

GENERAL: THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE PROJECT PLANS WILL SHOW SKEW, CURBS (IF ANY), ESTIMATED QUANTITY (SQ. YDS.), AND SPECIAL NOTES AND DETAILS WHERE NECESSARY. FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON, THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE BRIDGE AND THE APPROACH PAVEMENT.

DESIGN DATA

CONCRETE CLASS C: COMPRESSIVE STRENGTH 4000 P. S. I.

REINFORCING STEEL: ASTM A615, A616 OR A617 - GRADE 60 MINIMUM YIELD STRENGTH 60,000 P. S. I.

PREFORMED EXPANSION JOINT FILLER AND SEALER AT THE CORNERS AND SIDES OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ. YD. FOR THE APPROACH SLAB.

PREFORMED ELASTOMERIC JOINT SEALER SHOWN AT THE BRIDGE LIMIT END OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ. YD. FOR THE APPROACH SLAB.

LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.09.

CURBS, BRIDGES WITH SIDEWALKS: FOR BRIDGES CONSTRUCTED WITH RAISED SIDEWALKS, DEFLECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE, THE APPROACH SLABS SHALL EITHER INCLUDE INTEGRAL CURBS OR BE CONSTRUCTED IN CONJUNCTION WITH BRIDGE CURBS. CURB HEIGHT SHALL BE TRANSITIONED UNIFORMLY BETWEEN BRIDGE CURB HEIGHT AND APPROACH CURB HEIGHT IN A LENGTH AS FOLLOWS: WHERE WINGWALL EXTENDS BEYOND END OF APPROACH SLAB, USE A MINIMUM LENGTH OF 10FT. BEYOND END OF WINGWALL. WHERE THE APPROACH SLAB EXTENDS BEYOND THE END OF WINGWALL, TRANSITION IN THIS LENGTH. HOWEVER, THE TRANSITION LENGTH SHALL NOT BE LESS THAN 10 FT. AND THE TRANSITION SHALL EXTEND BEYOND THE END OF APPROACH SLAB IF NECESSARY.

APPROACH SLAB WIDTH: APPROACH SLABS SHALL BE THE SAME WIDTH AS THE BRIDGE ROADWAY, UNLESS SHOWN OTHERWISE ON THE PLANS.

CROWN SHALL CONFORM TO THAT OF THE APPROACH PAVEMENT AND BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED WITHIN THE LIMITS OF THE APPROACH SLAB.

TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE EITHER TYPE 'K' OR 'H' AS DETAILED ON THE PLANS. PAVMENT FOR THE TRANSVERSE JOINT SHALL BE AT THE UNIT PRICE BID PER LIN. FT. FOR THE TYPE OF JOINT FURNISHED.

SECTION A-A

NOTE 1: PREFORMED ELASTOMERIC JOINT SEALER 705.11 (1 1/4" FOR 1/2" JOINT) DEPRESSED 1/8" BELOW ROADWAY, PLACED IN 1/2" x 2 1/4" GROOVE.

NOTE 2: TYPE A WATERPROOFING.
TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE PREFORMED ELASTOMERIC JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.

OHIO TURNPIKE COMMISSION

REINFORCED CONCRETE APPROACH SLABS

DATE: OCTOBER 1983	SCALE: N.T.S.
RMP: 43-B4-10	SHEET OF

TYPE 'D' JOINT

TYPE 'H' JOINT

CONCRETE JOINT ARRANGEMENT PLAN

TYPE 'K' JOINT

TYPE 'L' JOINT

SECTION C-C

LEGEND:

1. 402 ASPHALT CONCRETE
2. 408 PRIME COAT (0.2 to 0.5 GAL./SQ.YD.)
3. SP605 AGGREGATE DRAINS, TYPE I (SEE NOTE "B")
4. SP605 AGGREGATE DRAINS, TYPE II (SEE NOTE "B")

SECTION B-B

SECTION A-A

NOTE A:

FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT IS REQUIRED WHERE EXISTING PAVEMENT IS TO BE REMOVED FOR INSTALLATION OF EITHER TYPE I OR TYPE II DRAINS.

NOTE "B"

TYPE I AGGREGATE DRAINS WILL BE INSTALLED ADJACENT TO ALL NEW FULL DEPTH CONCRETE REPLACEMENT. THE EXISTING DRAIN REMOVED & REPLACED TO THE DEPTH INDICATED HEREON.
TYPE II AGGREGATE DRAINS WILL BE INSTALLED AT EACH EXPANSION JOINT & FULL DEPTH REPAIR OR AS DIRECTED BY THE ENGINEER.

OHIO TURNPIKE COMMISSION

CRACK & JOINT DETAILS

DATE: JUNE 1983	SCALE:
RMP: 43-84-10	SHEET OF