1/88

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

LORAIN COUNTY
ORIGINAL CONTRACT SECTION C-22

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APPROVED FOR
THE OHIO TURNPIKE COMMISSION
BY
G. 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.

GENERAL SUMMARY

CALC: PCB 12-83
CHK: RDB 12-83

FHWA REGION	STATE	PROJECT	
5	OHIO		

4
88

OHIO TURNPIKE COMMISSION
RMP 43-84-10

ITEM	SHEET NUMBER 3	6	8	11	14	17	MAINT. OF TRAFFIC	ITEM	TOTAL	UNIT	DESCRIPTION
											ROADWAY
202		1495	206	1500	1856	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	50	207	247	160		202	882	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	953		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
606		283	71	396	562	340		203	1452	C.Y.	EXCAVATION
SP606		7	4	6	6	6		606	29	EA.	BRIDGE TERMINAL ASSEMBLY TYPE 'A'
SP614		887.5	312.5	800	837.5	950		SP 606	3787.5	L.F.	GUARDRAIL REBUILT, TYPE 5
SP622							LUMP	SP 614	LUMP	LUMP	MAINTAINING TRAFFIC
SP622							5100	SP622	5100	L.F.	TEMPORARY CONCRETE BARRIER
625							5100	SP622	5100	L.F.	TEMPORARY CONCRETE BARRIER RESET
SP625		390		170	685			625	1245	L.F.	TRENCH
625		1920		540	3330			SP625	5790	L.F.	DIRECT BURIAL ELECTRICAL CABLE, NO. 6 AWG
		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	370	686		659	1298	S.Y.	SEEDING & MULCHING
	0.12							659	0.12	TON	COMMERCIAL FERTILIZER
660		27	53	91	41	18		660	230	S.Y.	REINFORCED SODDING
											DRAINAGE
SP604					1	1		SP 604	2	EA.	STANDARD CATCH BASIN
SP605	200	80	32	88	86	92		SP 605	578	L.F.	AGGREGATE DRAIN TYPE II
											PAVEMENT
304		84	20	125	106	110		304	445	C.Y.	AGGREGATE BASE
310	525							310	525	C.Y.	SUBBASE, TYPE I, GRADING A
402		270	47	323	338	291		402	1269	C.Y.	ASPHALT CONCRETE
404							40	404	40	C.Y.	ASPHALT LEVELING COURSE FOR MAINTAINING TRAFFIC ON CROSSOVERS
SP404		42	6	42	52	38		SP404	180	C.Y.	ASPHALT CONCRETE
SP407		150	21	150	186	138		SP407	645	GAL.	TACK COAT
SP408		376	87	560	474	496		SP408	1992	GAL.	BITUMINOUS PRIME COAT
SP414		188	44	280	237	248		SP414	997	GAL.	BITUMINOUS MATERIAL FOR SHOULDER SURFACE TREATMENT
SP414		751	175	1120	948	991		SP414	3985	S.Y.	AGGREGATE FOR SHOULDER SURFACE TREATMENT
SP451		131	30	120	140	96		SP451	517	L.F.	1'-0" EXPANSION JOINT
SP451	3149							SP451	3149	S.Y.	FULL DEPTH PAVEMENT REPAIRS
SP451	350							SP451	350	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	404		SP 609	584	L.F.	ASPHALT CONCRETE CURB AC-20 STANDARD TYPE 1
SP611		358	100	329	383	404		SP 611	1554	S.Y.	REINFORCED CONCRETE APPROACH SLAB T=10"
SP627		35	15	52	42	57		SP627	201	TON	STONE SHOULDER PROTECTION
											FOR STRUCTURE QUANTITIES SEE SHEETS 21, 33, 41, 51 AND 64
103.06								103.06	LUMP	LUMP	PREMIUM FOR CONTRACT PREFORMANCE BOND AND PAYMENT BOND
SP619								SP 619	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

1. FOR APPROACH SLAB DETAILS SEE SHEET NO. 85
2. FOR EXPANSION JOINT DETAILS SEE SHEET NO. 86
3. FOR CROSS SECTIONS L-1 THRU L-12 SEE SHEET NO. 15-16
4. PLUG ALL EXPOSED PIPES AFTER REMOVAL OF CATCH BASINS OR INLETS
5. PLACE L-1 THRU L-4 2'-0" BEHIND FACE OF CURB.
6. FOR ELECTRICAL DETAILS SEE SHEET NO. 88

ITEM SP625 #6 AWG DIRECT BURIAL CABLE	3330 L.F.
ITEM 625 TRENCH	685 L.F.

EXCAVATION	362 C.Y.
EMBANKMENT	101 C.Y.
TOPSOIL	17 C.Y.
SEEDING	310 S.Y.

PAVEMENT QUANTITIES

ITEM SP627	STONE SHOULDER PROTECTION	= 42	TONS
ITEM SP414	BITUMINOUS MATERIAL FOR SHOULDER SURFACE TREATMENT	= 237	GAL.
ITEM SP414	AGGREGATE MATERIAL FOR SHOULDER SURFACE TREATMENT	= 948	S.Y.
ITEM SP408	PRIME COAT	= 4737	GAL.
ITEM 402	ASPHALT CONCRETE, VARIABLE DEPTH	= 206	C.Y.
ITEM 304	4" AGGREGATE BASE	= 106	C.Y.
ITEM SP404	1" ASPHALT CONCRETE	= 52	C.Y.
ITEM SP407	TACK COAT	= 186	GAL.
ITEM 402	5" ASPHALT CONCRETE	= 132	C.Y.

REF.	LOCATION		202 PAVEMENT REMOVED	202 WEARING COURSE REMOVED	SP605 AGGREGATE DRAIN, TYPE II
			S.Y.	S.Y.	L.F.
R-12	1042 + 85 ±	LT.	77.5		
R-13	1044 + 90 ±	LT.	60		
R-14	1042 + 53 ±	RT.	58.3		
R-15	1044 + 60 ±	RT.	50.8		
R-16	1042 + 50 ±	LT.		342.3	
R-17	1045 + 50 ±	LT.		542.4	
R-18	1041 + 50 ±	RT.		762.5	
R-19	1045 ± 00 ±	RT.		208.1	
D-4	1042 + 00 ±	RT.			20
D-5	1045 + 00 ±	RT.			22
D-6	1045 + 00 ±	LT.			22
D-7	1042 + 25 ±	LT.			12
D-8	1042 + 40 ±	LT.			10
TOTALS			247	1856	86

REF.	LOCATION	SIDE	SP606 GUARDRAIL REBUILT TYPE 5	606 BRIDGE TERMINAL ASSEMBLY TYPE 'A'	202 GUARDRAIL REMOVED FOR RE-USE	625 LIGHT POLE FOUNDATION **	SP609 ASPHALT CONCRETE CURB AC20 STANDARD TYPE 1	SP611 APPROACH SLAB T=10"
			L.F.	EACH	L.F.	EACH	L.F.	S.Y.
GR-1	1042 + 50 ±	LT.	137.5	1				
GR-2	1045 + 50 ±	LT.	150.0	1				
GR-3	1042 + 00 ±	RT.	187.5	1				
GR-4	1045 + 00 ±	RT.	87.5	1				
GR-5	1042 + 70 ±	LT.	125	1	125			
GR-6	1044 + 80 ±	RT.	150	1	150			
L-1	1042 + 89	LT.				1		
L-2	1045 + 02	LT.				1		
L-3	1042 + 41.5	RT.				1		
L-4	1044 + 58	RT.				1		
P-1	1042 + 70 ±	LT.					11	
P-2	1042 + 50 ±	RT.					11	
P-3	1044 + 80 ±	RT.					12.5	
P-4	1042 + 80 ±	LT.						104.8
P-5	1044 + 90 ±	LT.						88.4
P-6	1042 + 60 ±	RT.						88.1
P-7	1044 + 60 ±	RT.						81.0
TOTALS			837.5	6	275	4	94.5	363

** AS PER PLAN

REF.	LOCATION	SIDE	202 GUARDRAIL REMOVED FOR RE-USE	202 INLET REMOVED	202 PIPE REMOVED 24" & UNDER	202 LIGHT POLE FOUNDATION REMOVED	SP451 1'-0" EXPANSION JOINT	SP604 STANDARD CATCH BASIN	660 REINFORCED SODDING	202 CATCH BASIN REMOVED
			L.F.	EACH	L.F.	EACH	L.F.	EACH	S.Y.	EACH
P-8	1042 + 38	LT.					39			
P-9	1045 + 32	LT.					35			
P-10	1042 + 14	RT.					36			
P-11	1045 + 02	RT.					30			
R-1	1042 + 50 ±	LT.	136.0							
R-2	1042 + 89	LT.				1				
R-3	1042 + 73.5	LT.		1						
R-4	1045 + 50 ±	LT.	151.5							
R-5	1045 + 02	LT.				1				
R-6	1042 + 48	RT.		1	12					
R-7	1042 + 41.5	RT.				1				
R-8	1042 + 00 ±	RT.	189.0							
R-9	1044 + 58	RT.				1				
R-10	1045 + 00 ±	RT.	86.0							
R-11	1045 + 00	RT.			4					1
D-1	1042 + 55	LT.							18	
D-2	1042 + 25	RT.							43	
D-3	1045 + 00	RT.						1*		
TOTALS			562.5	2	16	4	140	1	61	1

* COST TO INCLUDE TYING TO EXISTING PIPE AS PER STD. DWG. (SEE SHEET 87)

BENCH MARK: M/S IN 30" HICKORY TREE 75' SOUTH OF SOUTH BRIDGE AND 22' WEST OF EDGE OF PAVEMENT OF SOUTH BOUND LORAIN ROAD. ELEV. 784.63

BENCH MARK: CHS. □ ON N.E. CORNER OF BRIDGE AT HANDRAIL ON WESTBOUND LANES OF INT. 80 OVER S.R. 10. ELEV. 808.33

BENCH MARK: CHS. □ ON S.E. CORNER OF BRIDGE AT HANDRAIL ON EASTBOUND LANES OF INT. 80 OVER S.R. 10. ELEV. 807.20

PLAN

NOTE: PROPOSED GRADE IS 3/4" HIGHER THAN ORIGINAL GRADE. TRANSITION GRADE AS DIRECTED BY THE ENGINEER

LONGITUDINAL SECTION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN'L		
SP202	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED	LUMP	LUMP				
202	LUMP	LUMP	PIPE REMOVED (ON PIERS)			LUMP			
203	12	C.Y.	EMBANKMENT		12				
503	167	C.Y.	UNCLASSIFIED EXCAVATION		70	97			
505	LUMP	LUMP	PILE DRIVING EQUIPMENT MOBILIZATION		LUMP				
507	440	L.F.	STEEL PILES, HP 10 × 42		440				
509	24,974	LB.	REINFORCING STEEL		4404	20,570			
SP824	154,629	LB.	EPOXY COATED REINFORCING STEEL	135,561	19,068				
510	243	EA.	DOWEL HOLES, USING SP 853 GROUT ANCHORING		207	36			
			WITH NONSHRINKING EPOXY MORTAR						
511	47	C.Y.	CLASS "C" CONCRETE, ABUTMENTS		47				
511	44	C.Y.	CLASS "C" CONCRETE, PIERS ABOVE FOOTINGS			44			
511	42	C.Y.	CLASS "C" CONCRETE, PIER FOOTINGS			42			
SP511	552	C.Y.	CLASS "S" CONCRETE, SUPERSTRUCTURE, USING	552					
			SHRINKAGE COMPENSATING CONCRETE, 701.08						
SP511	33	C.Y.	CLASS "S" CONCRETE, ABUTMENT SLABS AND PARAPETS,		33				
			USING SHRINKAGE COMPENSATING CONCRETE, 701.08						
513	91,850	LB.	STRUCTURAL STEEL (AISC CATEGORY I)	91,850					
513	1600	EA.	WELDED STUD SHEAR CONNECTORS	1600					
518	6	EA.	SCUPPERS, INCLUDING SUPPORTS	6					
518	96	L.F.	6" STD. PIPE DOWNSPOUT, PLASTIC PIPE 711.29, INCLUDING			96			
			FITTINGS, SUPPORTS AND ACCESSORIES (FLUSH SYSTEM)						
520	62	S.F.	PNEUMATICALLY PLACED MORTAR, AS PER PLAN			62			
SP533A	220	L.F.	1 3/4" PREFORMED ELASTIC JOINT SEAL	220					
SP538A	220	L.F.	2" PREFORMED ELASTIC JOINT SEAL	220					
SP527	LUMP	LUMP	FALSEWORK AND TEMPORARY BRACING	LUMP					
SP528	108	EA.	REPLACE EXISTING RIVITS WITH NEW HIGH	108					
			STRENGTH BOLTS						
SP536	2874	S.Y.	CHEM-TRETE BSM CONCRETE WEATHERPROOFING	2521	353				
601	105	S.Y.	CRUSHED AGGREGATE SLOPE PROTECTION				105		
SP514	91,850	LB.	FIELD PAINTING OF NEW STRUCTURAL STEEL	91,850					
SP514	LUMP	LUMP	FIELD PAINTING OF EXISTING STRUCTURAL STEEL	LUMP					

NOTE

ANY AREAS ERODED AWAY UNDER THE BRIDGES AT THE ABUTMENTS MAY BE REFILLED WITH SUITABLE MATERIAL FROM THE SUPERSTRUCTURE CONCRETE REMOVED AS APPROVED BY THE ENGINEER.

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 LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	MK	MK	HM	JG	9/14-83	

BRIINING 44-32-30945-1

PLAN

NORTH WINGWALL

ELEVATION

5 BARS LAP 1'-7" UNLESS NOTED

SOUTH WINGWALL

SECTION A-A

LEGEND
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE
T.&B. = TOP & BOTTOM

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

NORTHEAST ABUTMENT

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	RG	WJDK	JF	6/10/83	

BRUNING 44-132 50845-1

PLAN

ELEVATION

NORTH WING WALL

SOUTH WINGWALL

SECTION C-C

SECTION B-B

SECTION A-A

LEGEND

N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

NORTHWEST ABUTMENT

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	FP	VDV	JJ	6/10/83	

BRUNING 44-132 30845-1

PLAN

ELEVATION

NORTH WINGWALL

SOUTH WINGWALL

SECTION A-A

LEGEND
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE
T.&B. = TOP & BOTTOM

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SOUTHEAST ABUTMENT

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	MK	WDG	JA	6/10/83	

BRUNING 44-132 309645-1

PLAN

ELEVATION

SOUTH WINGWALL

NORTH WINGWALL

LEGEND

N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE

SECTION A-A

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SOUTHWEST ABUTMENT

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	MK/RF	WDV	JA	8/10-83	

BRENNING 44-132 30045-1

BRIDGE SEAT REINFORCING: REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF BEARING ANCHORS.

56/88

PLAN – PIERS 1,2 & 3

PLAN – PIERS 4,5 & 6

ANCHOR BOLTS

AT PIERS 2 AND 5

COLUMN REINFORCING

ELEVATION

ELEVATION

FLUSHING EXISTING DRAINAGE SYSTEM INCLUDED IN PAY ITEM 516, PIPE DOWNSPOUT.

SECTION A-A

LOCATION PLAN

PLAN

ELEVATION

SCUPPER CONNECTIONS AT PIERS 1 AND 3

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

PIER DETAILS

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	RG	WDC	JG	4/10/83	

BRUNING 44-132 30845-1

PIER 4

PIER 1

PIER 6

PIER 3

APPROXIMATE LOCATIONS OF AREAS TO BE REPAIRED.
PAY ITEM 520 - PNEUMATICALLY PLACED MORTAR

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
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COLUMBUS, OHIO

PIER SURFACE REPAIR

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	RD	[illegible]	JJ	6/10/83	

BRUN NG 44-132 30845-1

NORTH BRIDGE

SOUTH BRIDGE

FRAMING PLAN

PLAN ~ END DAM

SPLICE DETAIL

END DAM DIMENSIONS				
NORTH BRIDGE	DIM. A	DIM. B	ANGLE C	ANGLE D
WEST ABUT.	26'-8 5/8"	33'-3"	18° 06' 10"	14° 15' 08"
PIER 1	26'-5 1/4"	31'-4 7/8"	17° 45' 55"	14° 15' 08"
PIER 3	26'-7 7/8"	29'-9 3/4"	16° 47' 06"	14° 15' 08"
EAST ABUT.	27'-2 3/4"	23'-7 3/8"	16° 24' 21"	14° 15' 08"
SOUTH BRIDGE				
WEST ABUT.	24'-7 7/8"	25'-7 5/8"	19° 41' 12"	18° 13' 44"
PIER 1	23'-5 3/4"	25'-6 7/8"	19° 22' 33"	17° 55' 24"
PIER 3	20'-9 1/2"	25'-7 3/4"	18° 22' 10"	16° 56' 02"
EAST ABUT.	20'-3"	25'-3 1/8"	18° 00' 53"	16° 35' 07"

COMPRESSION SEALS: STEEL MEMBERS SHALL BE FURNISHED IN LENGTHS AS LONG AS NECESSARY TO CLEAR CONSTRUCTION JOINT. ALL FIELD BUTT JOINTS SHALL BE RIGIDLY FASTENED TOGETHER.

FILL PLATES

NORTH BRIDGE	SOUTH BRIDGE
1/2" @ 36 WF 160	1 1/4" @ 36 WF 160
9/16" @ 36 WF 150	15/16" @ 36 WF 150
1/2" @ 36 WF 135	1/2" @ 36 WF 135
9/16" @ 30 WF 124	15/16" @ 27 WF 102
3/4" @ 30 WF 108	1 1/2" @ 27 WF 94

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

SECTION AT END DAM

END DAM AT ABUTMENTS

CAMBER DIAGRAM OF NEW BEAMS FOR DEAD LOAD AND VERTICAL CURVE

SECTION A-A

SECTION AT EXPANSION PIERS

END DAM AT EXPANSION PIERS

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MM	MM	MC	WDV	JA	4/10/85	

BRIDGING 44-132 308451

PLAN △

PLAN

FOR ADDITIONAL DIMENSIONS OF SCUPPER, REFER TO OHIO STANDARD DRAWING SD-1-63 SHEET 3 OF 4.

SCUPPER DETAIL

SECTION A-A △

SEE STATE OF OHIO STANDARD DRAWING BR-1 FOR PARAPET DIMENSIONS.

MINIMUM BAR LAP
#6 = 1'-11" (EXCEPT AS NOTED)
#5 = 1'-7"
#4 = 1'-3"

NO.	REVISIONS	BY	DATE
△	REVISE DECK RE-STEEL	MK	1-85

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

NORTH BRIDGE
SUPERSTRUCTURE DETAILS
OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	SD	RDV	JA	9/10-83	

DRAWING 44-132 SHEET 1

PLAN

SCUPPER DETAIL

16 ~ 7/8" x 4" SHEAR STUDS REQUIRED AT ENDS OF BEAMS AT ABUTMENTS AND EXPANSION PIERS. TYPICAL EACH BRIDGE.

WELDED STUD SHEAR CONNECTORS

SECTION A-A

* 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 * DIMENSION ADJUSTED TO COMPENSATE FOR EXCESS OR DEFICIENT CAMBER IN BEAMS. TO BE PAID FOR UNDER CONSTRUCTION LAYOUT STAKING.

MINIMUM BAR LAP
#6 = 1'-11" (EXCEPT AS NOTED)
#5 = 1'-7"
#4 = 1'-3"

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

SOUTH BRIDGE
SUPERSTRUCTURE DETAILS
OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	PP	DJW	JF	6/10-83	

BRUNING 44-132 308451

TYPE 1

TYPE 2

TYPE 3

TYPE 4

TYPE 5

TYPE 6

NORTHWEST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
A901	10	5'-0"	170	STR.						
A902	10	5'-9"	196	STR.						
A801	3	13'-0"	104	STR.						
EA701	96	10'-7"	2077	STR.						
A601	5	13'-2"	99	6	6'-0"	0'-8"	6'-0"	1'-0"		
EA602	1 SERIES OF 2	10'-1" TO 9'-5" *	29	5	8'-9" TO 8'-1"	0'-8½"	0'-6"	0'-9"		* 8" INCREMENT
EA603	1	8'-8"	13	5	7'-4"	0'-8½"	0'-6"	0'-9"	—	
EA604	1	7'-11"	12	5	6'-8"	0'-8½"	0'-5"	0'-8"	—	
EA605	1	7'-4"	11	5	6'-1"	0'-8½"	0'-4"	0'-8"	—	
EA606	1	6'-7"	10	5	5'-5"	0'-8½"	0'-3"	0'-7"	—	
EA607	4	5'-8"	34	5	4'-6"	0'-8½"	0'-2"	0'-7"	—	
EA608	4	3'-0"	18	5	1'-0"	0'-8½"	0'-6"	0'-9"	0'-10"	
EA609	1	2'-11"	4	5	1'-0"	0'-8½"	0'-5"	0'-8"	0'-10"	
EA610	1	2'-11"	4	5	1'-0"	0'-8½"	0'-4"	0'-8"	0'-10"	
EA611	1	2'-10"	4	5	1'-0"	0'-8½"	0'-3"	0'-7"	0'-10"	
EA612	4	2'-10"	17	5	1'-0"	0'-8½"	0'-2"	0'-7"	0'-10"	
A501	18	3'-0"	56	STR.						
A502	22	5'-9"	132	STR.						
A503	8	11'-4"	95	6	2'-6"	6'-7"	2'-6"	—		
A504	2	10'-8"	22	STR.						
A505	2	5'-2"	11	STR.						
A506	1 SERIES OF 2	11'-11" TO 11'-3" *	24	6	1'-7"	1'-2"	9'-5" TO 8'-9"	—		* 8" INCREMENT
EA507	1 SERIES OF 5	12'-1" TO 9'-2" *	55	6	1'-7"	1'-2"	9'-7" TO 6'-8"	—		* 8 3/4" INCREMENTS
EA508	3	9'-2"	20	6	1'-7"	1'-2"	6'-8"	—		
A509	3	2'-1"	7	STR.						
A510	2	5'-6"	11							
A511	2	8'-6"	18							
A512	3	14'-6"	45							
A513	3	4'-3"	13							
EA514	8	8'-6"	71	STR.						
EA515	3	2'-2"	7	2	1'-8"	0'-7½"				
EA516	8	9'-0"	75	STR.						
EA517	35	3'-0"	110	2	2'-6"	0'-7½"				
A518	12	7'-1"	89	6	2'-4"	2'-8"	2'-4"			
A519	3	11'-3"	35	STR.						
EA520	11	26'-9"	307							
EA521	11	23'-0"	264							
EA522	11	13'-9"	158							
EA523	11	27'-5"	315	STR.						
EA524	11	28'-0"	321	4	27'-5"					
EA525	10	8'-1"	84	4	7'-6"					
EA526	20	10'-0"	209	STR.						
EA527	10	10'-10"	113	4	10'-3"					
EA528	11	18'-1"	207	4	17'-6"					
EA529	8	3'-8"	31	2	2'-11"	0'-10½"				
EY502	5	5'-3"	27	1						
EY505	16	2'-8"	45	4	2'-1"					
EY506	16	4'-4"	72	STR.						
EA401	96	10'-7"	679	STR.						
		TOTAL	1127	UNCOATED BARS						
			5412	EPOXY COATED BARS						

NORTHEAST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
B901	10	5'-0"	170	STR.						
B902	10	5'-9"	196	STR.						
B801	3	13'-0"	104	STR.						
EB701	81	10'-7"	1752	STR.						
B601	5	13'-2"	99	6	6'-0"	0'-8"	6'-0"	1'-0"		
EB602	1 SERIES OF 2	9'-2" TO 9'-11" *	29	5	7'-10" TO 8'-7"	0'-8½"	0'-6"	0'-9"		* 9" INCREMENT
EB603	1	8'-6"	13	5	7'-2"	0'-8½"	0'-6"	0'-9"	—	
EB604	1	7'-10"	12	5	6'-7"	0'-8½"	0'-5"	0'-8"	—	
EB605	1	7'-3"	11	5	6'-0"	0'-8½"	0'-4"	0'-7"	—	
EB606	1	6'-7"	10	5	5'-5"	0'-8½"	0'-3"	0'-7"	—	
EB607	4	5'-5"	33	5	4'-3"	0'-8½"	0'-2"	0'-7"	—	
EB608	3	3'-0"	14	5	1'-0"	0'-8½"	0'-6"	0'-9"	0'-10"	
EB609	1	2'-11"	4	5	1'-0"	0'-8½"	0'-5"	0'-8"	0'-10"	
EB610	1	2'-11"	4	5	1'-0"	0'-8½"	0'-4"	0'-8"	0'-10"	
EB611	1	2'-10"	4	5	1'-0"	0'-8½"	0'-3"	0'-7"	0'-10"	
EB612	4	2'-10"	17	5	1'-0"	0'-8½"	0'-2"	0'-7"	0'-10"	
B501	18	3'-0"	56	STR.						
B502	22	5'-9"	132	STR.						
B503	8	11'-2"	93	6	2'-6"	6'-5"	2'-6"	—		
B504	3	12'-0"	38	STR.						
B505	3	14'-9"	46	STR.						
B506	3	3'-6"	11	STR.						
B507	1 SERIES OF 2	11'-9" TO 11'-0" *	24	6	1'-7"	1'-2	9'-3" TO 8'-6"	—		* 9" INCREMENT
EB508	1 SERIES OF 5	11'-11" TO 9'-2" *	55	6	1'-7"	1'-2"	9'-5" TO 6'-8"	—		* 8½" INCREMENTS
EB509	3	8'-8"	27	6	1'-7"	1'-2"	6'-2"	—		
B510	2	5'-9"	12	STR.						
B511	2	8'-9"	18	STR.						
B512	3	3'-6"	11	STR.						
EB513	8	8'-9"	73	STR.						
EB514	2	10'-6"	22	STR.						
EB515	2	5'-0"	10	STR.						
EB516	2	2'-2"	5	2	1'-8"	0'-7½"				
EB517	8	8'-7"	72	STR.						
EB519	30	3'-0"	94	2	2'-6"	0'-7½"				
EB520	12	6'-9"	84	6	2'-2"	2'-8"	2'-2"	—		
EB521	11	28'-8"	329	4	28'-1"					
EB522	11	28'-1"	322	STR.						
EB523	11	28'-6"	327	4	27'-11"					
EB524	11	27'-11"	320	STR.						
EB525	10	10'-10"	113	4	10'-3"					
EB526	10	11'-10"	123	STR.						
EB527	10	10'-0"	104	STR.						
EB528	10	7'-1"	74	4	6'-6"					
EB529	8	3'-8"	31	2	2'-11"	0'-10½"				
EY502	4	5'-3"	22	1						
EY505	16	2'-8"	45	4	2'-1"					
EY506	16	4'-4"	72	STR.						
EB401	81	10'-7"	573	STR.						
		TOTAL	1010	UNCOATED BARS						
			4800	EPOXY COATED BARS						

PIERS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
P1101	48	7'-3"	1843	4	5'-8"				
P1102	48	5'-8"	1445	STR.					
P1103	48	7'-7"	1934	4	6'-0"				
P1104	48	6'-0"	1530	STR.					
P1001	72	7'-6"	2324	2	6'-0"	1'-10"			
P1002	12	19'-9"	1020	STR.					
P1003	12	20'-0"	1033						
P1004	12	20'-8"	1067						
P1005	12	18'-0"	929						
P1006	12	18'-4"	947						
P1007	12	19'-2"	990	STR.					
P701	42	9'-6"	816	STR.					
P702	36	4'-0"	294	STR.					
P703	18	5'-7"	205	STR.					
P704	18	7'-5"	273	2	5'-7"	2'-0"			
P501	24	9'-6"	238	STR.					
P502	416	7'-11"	3435	3	2'-8"	1'-0½"			
P503	36	6'-6"	241	6	2'-0"	2'-8"	—		
		TOTAL	20,570						

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 LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	LP	LP	SWM	JA	12/20/83	

ERUNING 44-132 308451

TYPE 1

TYPE 2

TYPE 3

TYPE 4

SUPERSTRUCTURE – NORTH BRIDGE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
ES601	1 SERIES OF 140	34'-9" TO 30'-0" *	6808	STR.						* 3/8" + INCREMENTS
ES602	215	14'-8"	4736							
ES603	215	14'-10"	4790							
ES604	1 SERIES OF 16	32'-10" TO 3'-11" *	442							* 1'-11 7/8" INCREMENTS
ES605	1 SERIES OF 10	25'-4" TO 7'-0" *	243							* 2'-0 3/8" INCREMENTS
ES606	2	4'-6"	14							
ES607	1 SERIES OF 11	24'-5" TO 5'-5" *	246							* 1'-10 7/8" INCREMENTS
ES608	17	26'-11"	687							
ES609	1 SERIES OF 9	23'-9" TO 7'-3" *	210							* 2'-0 3/4" INCREMENTS
ES610	2	6'-0"	18							
ES611	1 SERIES OF 35	36'-7" TO 35'-5" *	1893							* 3/8" + INCREMENTS
ES612	1 SERIES OF 17	34'-5" TO 2'-0" *	465							* 2'-0 3/8" INCREMENTS
ES613	1 SERIES OF 15	4'-9" TO 32'-7" *	421							* 1'-11 7/8" INCREMENTS
ES614	1 SERIES OF 14	28'-9" TO 2'-3" *	326							* 2'-0 1/2" INCREMENTS
ES615	1 SERIES OF 12	4'-8" TO 27'-3" *	288							* 2'-0 5/8" INCREMENTS
ES616	1 SERIES OF 46	29'-5" TO 27'-11" *	1981							* 3/8" + INCREMENTS
ES617	1 SERIES OF 12	25'-6" TO 2'-9" *	255							* 2'-0 7/8" INCREMENTS
ES618	1 SERIES OF 12	3'-0" TO 25'-6" *	257							* 2'-0 5/8" INCREMENTS
ES619	1 SERIES OF 12	25'-9" TO 3'-0" *	259							* 2'-0 7/8" INCREMENTS
ES620	1 SERIES OF 12	2'-6" TO 24'-6" *	243							* 2'-0" INCREMENTS
ES501	1 SERIES OF 140	34'-9" TO 30'-0" *	4727							* 3/8" + INCREMENTS
ES502	215	16'-10"	3775							
ES503	215	11'-1"	2485							
ES504	1 SERIES OF 16	32'-10" TO 3'-11" *	307							* 1'-11 7/8" INCREMENTS
ES505	1 SERIES OF 10	25'-4" TO 7'-0" *	169							* 2'-0 3/8" INCREMENTS
ES506	2	4'-6"	9							
ES507	1 SERIES OF 11	23'-2" TO 4'-2" *	157							* 1'-10 7/8" INCREMENTS
ES508	17	25'-8"	455							
ES509	1 SERIES OF 9	23'-9" TO 7'-3" *	145							* 2'-0 3/4" INCREMENTS
ES510	2	6'-0"	13							
ES511	229	30'-0"	7165							
ES512	73	12'-6"	952	STR.						
ES513	226	2'-3"	530	2						
ES514	226	3'-1"	727	3						
ES515	40	30'-0"	1252	STR.						
ES516	8	27'-8"	281	STR.						
ES517	226	5'-3"	1238	1						
ES518	20	13'-7"	233	STR.						
ES519	48	5'-8"	284							
ES520	12	10'-5"	130							
ES521	20	13'-2"	275							
ES522	8	15'-2"	127							
ES523	12	10'-9"	135							
ES524	8	15'-8"	131	STR.						

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
ES525	1 SERIES OF 35	36'-7" TO 35'-5" *	1314	STR.						* 3/8" + INCREMENTS
ES526	1 SERIES OF 17	34'-5" TO 2'-0" *	323							* 2'-0 3/8" INCREMENTS
ES527	1 SERIES OF 15	4'-9" TO 32'-7" *	292							* 1'-11 7/8" INCREMENTS
ES528	1 SERIES OF 14	28'-9" TO 2'-3" *	226							* 2'-0 1/2" INCREMENTS
ES529	1 SERIES OF 12	4'-8" TO 27'-3" *	200							* 2'-0 5/8" INCREMENTS
ES530	1 SERIES OF 46	29'-5" TO 27'-11" *	1375							* 3/8" + INCREMENTS
ES531	1 SERIES OF 12	25'-6" TO 2'-9" *	177							* 2'-0 7/8" INCREMENTS
ES532	1 SERIES OF 12	3'-0" TO 25'-6" *	178							* 2'-0 5/8" INCREMENTS
ES533	1 SERIES OF 12	25'-9" TO 3'-0" *	180							* 2'-0 7/8" INCREMENTS
ES534	1 SERIES OF 12	2'-6" TO 24'-6" *	169							* 2'-0" INCREMENTS
ES535	45	17'-5"	727							
ES536	18	19'-8"	369							
ES401	200	30'-0"	4008	STR.						
ES402	132	14'-1"	1242	4	13'-7"					
ES403	68	21'-0"	954	STR.						
ES404	70	21'-0"	982							
ES405	62	25'-6"	1056							
ES406	64	11'-6"	492	STR.						
		TOTAL	64,548	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
	REVISE DECK RE-STEEL	MK	1-85

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MK	MK	MK	MM			

BRUNING 44-132 30945-1

TYPE 1

TYPE 2

TYPE 4

TYPE 5

TYPE 6

SOUTHWEST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
C901	10	5'-0"	170	STR.						
C902	10	6'-3"	213	STR.						
C801	3	13'-6"	108	STR.						
EC701	80	10'-9"	1758	STR.						
C601	5	13'-6"	101	6	6'-2"	8"	6'-2"	1'-0"		
EC602	1 SERIES OF 3	8'-8" TO 9'-10" *	42	5	7'-4" TO 8'-6"	8½"	6"	9"	–	* 7" INCREMENTS
EC603	1	8'-2"	12		6'-10"	8½"	6"	9"	–	
EC604	1	7'-5"	11		6'-2"		5"	8"	–	
EC605	1	6'-9"	10		5'-6"		4"	8"	–	
EC606	1	6'-0"	9		4'-10"		3"	7"	–	
EC607	4	4'-10"	29		3'-8"		2"	7"	–	
EC608	3	3'-0"	14		1'-0"		6"	9"	10"	
EC609	1	7'-11"	4		1'-0"		5"	8"	10"	
EC610	1	2'-11"	4		1'-0"		4"	8"	10"	
EC611	1	2'-10"	4		1'-0"		3"	7"	10"	
EC612	4	2'-10"	17	5	1'-0"	8½"	2"	7"	10"	
C501	16	3'-0"	50	STR.						
C502	20	5'-9"	120	STR.						
C503	8	10'-2"	85	6	2'-6"	5'-5	2'-6"	–		
C504	2	9'-5"	20	STR.						
C505	2	4'-10"	10	STR.						
C506	1 SERIES OF 3	10'-6" TO 11'-8" *	35	6	1'-7"	1'-2"	8'-0" TO 9'-2"	–		* 7" INCREMENTS
EC507	1 SERIES OF 5	11'-8" TO 8'-9" *	53	6	1'-7"	1'-2"	9'-2" TO 6'-3"	–		* 8¾" INCREMENTS
EC508	3	8'-1"	25	6	1'-7"	1'-2"	5'-7"	–		
C509	3	3'-9"	12	STR.						
C510	2	7'-0"	15							
C511	2	9'-9"	20							
C512	3	15'-6"	48							
C513	3	3'-9"	12							
EC514	8	9'-1"	76	STR.						
EC515	2	2'-7"	5	2	1'-8"	7½"				
EC516	8	8'-8"	72	STR.						
EC517	29	3'-0"	91	2	2'-6"	7½"				
C518	12	6'-7"	82	6	2'-1"	2'-8"	2'-1"	–		
C519	3	12'-0"	38	STR.						
EC520	11	30'-3"	347	4	29'-8"					
EC521	10	10'-10"	113	4	10'-3"					
EC522	10	8'-0"	83	STR.						
EC523	10	8'-0"	83	STR.						
EC524	10	5'-7"	58	4	5'-0"					
EC525	11	25'-8"	294	STR.						
EC526	11	26'-3"	301	4	25'-8"					
EC527	11	29'-8"	340	STR.						
EC528	8	3'-8"	31	2	2'-11"	10½"				
EY502	5	5'-3"	27	1						
EY505	16	2'-8"	45	4	2'-1"					
EY506	16	4'-4"	72	STR.						
EC401	80	10'-9"	574	STR.						
		TOTAL	1139	UNCOATED BARS						
		TOTAL	4604	EPOXY COATED BARS						

SOUTHEAST ABUTMENT

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
D901	10	5'-0"	170	STR.						
D902	10	6'-0"	204	STR.						
D801	3	13'-0"	104	STR.						
ED701	73	10'-8"	1592	STR.						
D601	5	13'-6"	101	6	6'-2"	8"	6'-2"	1'-0"		
ED602	1 SERIES OF 2	8'-4" TO 9'-1" *	26	5	7'-0" TO 7'-9"	8½"	6"	9"	–	* 9" INCREMENT
ED603	1	7'-7"	11		6'-3"		6"	9"	–	
ED604	1	6'-11"	10		5'-8"		5"	8"	–	
ED605	1	6'-3"	9		5'-0"		4"	8"	–	
ED606	1	5'-7"	8		4'-5"		3"	7"	–	
ED607	4	4'-11"	30		3'-9"		2"	7"	–	
ED608	4	3'-0"	18		1'-0"		6"	9"	10"	
ED609	1	2'-11"	4				5"	8"		
ED610	1	2'-11"	4				4"	8"		
ED611	1	2'-10"	4				3"	7"		
ED612	4	2'-10"	17	5	1'-0"	8½"	2"	7"	10"	
D501	18	3'-0"	56	STR.						
D502	22	6'-0"	138	STR.						
D503	8	10'-2"	85	6	2'-6"	5'-5"	2'-6"	–		
ED504	27	3'-0"	84	2	2'-6"	7½"				
D505	3	14'-6"	45	STR.						
D506	3	4'-3"	13	STR.						
D507	1 SERIES OF 2	10'-2" TO 10'-11" *	22	6	1'-7"	1'-2"	7'-8" TO 8'-5"	–		* 9" INCREMENT
ED508	1 SERIES OF 4	11'-0" TO 8'-10" *	41	6	1'-7"	1'-2"	8'-6" TO 6'-4"	–		* 8⅜" INCREMENTS
ED509	4	8'-2"	34	6	1'-7"	1'-2"	6'-8"	–		
D510	2	6'-3"	13	STR.						
D511	2	9'-0"	19							
D512	3	3'-3"	10							
D513	2	9'-5"	20							
D514	2	4'-11"	10							
D515	3	11'-6"	36							
ED516	8	8'-8"	72							
ED517	8	8'-10"	74	STR.						
ED518	3	2'-2"	7	2	1'-8"	7½"				
D519	12	6'-7"	82	6	2'-1"	2'-8"	2'-1"	–		
ED520	10	8'-0"	83	STR.						
ED521	11	25'-1"	288	STR.						
ED522	11	25'-8"	294	4	25'-1"					
ED523	11	25'-8"	294	STR.						
ED524	11	26'-3"	301	4	25'-8"					
ED525	10	8'-6"	89	STR.						
ED526	10	9'-7"	100	4	9'-0"					
ED527	10	6'-1"	63	4	5'-6"					
ED528	8	3'-8"	31	2	2'-11"	10½"				
EY502	5	5'-3"	27	1						
EY505	16	2'-8"	45	4	2'-1"					
EY506	16	4'-4"	72	STR.						
ED401	73	10'-8"	620	STR.						
		TOTAL	1128	UNCOATED BARS						
		TOTAL	4252	EPOXY COATED BARS						

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

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	MK	SWM	JK	12/20-83	

BRUYING 44-132 30845-1

SUPERSTRUCTURE – NORTH BRIDGE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
ES 601	1 SERIES	36'-7" TO 27'-11" ✱	12352	STR.						✱ 3/8" + INCREMENTS
	OF 255									
ES 602	243	14'-8"	5353	STR.						
ES 603	243	14'-10"	5414	STR.						
ES 604	1 SERIES	32'-10" TO 3'-11" ✱	442	STR.						✱ 1'-11 7/8" INCREMENTS
	OF 16									
ES 605	1 SERIES	25'-4" TO 7'-0" ✱	243	STR.						✱ 2'-0 3/8" INCREMENTS
	OF 10									
ES 606	2	4'-6"	14	STR.						
ES 607	1 SERIES	24'-5" TO 5'-5" ✱	246	STR.						✱ 1'-10 7/8" INCREMENTS
	OF 11									
ES 608	17	26'-11"	687	STR.						
ES 609	1 SERIES	23'-9" TO 7'-3" ✱	210	STR.						✱ 2'-0 3/4" INCREMENT
	OF 9									
ES 610	2	6'-0"	18	STR.						
ES 501	1 SERIES	36'-7" TO 27'-11" ✱	8577	STR.						✱ 3/8" + INCREMENTS
	OF 255									
ES 502	243	14'-10"	4266	STR.						
ES 503	243	11'-1"	2809	STR.						
ES 504	1 SERIES	32'-10" TO 3'-11" ✱	307	STR.						✱ 1'-11 7/8" INCREMENTS
	OF 16									
ES 505	1 SERIES	25'-4" TO 7'-0" ✱	169	STR.						✱ 2'-0 3/8" INCREMENTS
	OF 10									
ES 506	2	4'-6"	9	STR.						
ES 507	1 SERIES	23'-2" TO 4'-2" ✱	157	STR.						✱ 1'-10 7/8" INCREMENTS
	OF 11									
ES 508	17	25'-8"	455	STR.						
ES 509	1 SERIES	23'-9" TO 7'-3" ✱	145	STR.						✱ 2'-0 3/4" INCREMENTS
	OF 9									
ES 510	2	6'-0"	13	STR.						
ES 511	381	30'-0"	11921	STR.						
ES 512	69	27'-8"	1991	STR.						
ES 513	226	2'-3"	530	2						
ES 514	226	3'-1"	727	3						
ES 515	40	30'-0"	1252	STR.						
ES 516	8	27'-8"	231	STR.						
ES 517	226	5'-3"	1238	1						
ES 518	20	13'-7"	283	STR.						
ES 519	48	5'-8"	284	STR.						
ES 520	12	10'-6"	130	STR.						
ES 521	20	13'-2"	273	STR.						
ES 522	8	15'-2"	127	STR.						
ES 523	12	10'-9"	135	STR.						
ES 524	8	15'-8"	131	STR.						
ES 401	333	30'-0"	6673	STR.						
ES 402	132	14'-1"	1242	4	13'-7"					
ES 403	203	21'-0"	2848	STR.						
		TOTAL	71,904	EPOXY	COATED					

SUPERSTRUCTURE – SOUTH BRIDGE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	
ES 640	239	10'-3"	3680	STR.						
ES 641	73	19'-8"	2156	STR.						
ES 642	89	18'-2"	2428	STR.						
ES 643	77	16'-8"	1928	STR.						
ES 644	1 SERIES	20'-3" TO 4'-3" ✱	166	STR.						✱ 2'-0" INCREMENTS
	OF 9									
ES 645	11	28'-0"	463	STR.						
ES 646	1 SERIES	25'-6" TO 6'-0" ✱	260	STR.						✱ 1'-11 3/8" INCREMENTS
	OF 11									
ES 647	2	4'-6"	14	STR.						
ES 648	239	14'-0"	5026	STR.						
ES 649	239	14'-3"	5115	STR.						
ES 650	1 SERIES	22'-5" TO 4'-5" ✱	202	STR.						✱ 2'-0" INCREMENTS
	OF 10									
ES 651	10	25'-11"	389	STR.						
ES 652	1 SERIES	24'-0" TO 7'-6" ✱	213	STR.						✱ 2'-0 3/4" INCREMENTS
	OF 9									
ES 653	2	5'-6"	17	STR.						
ES 540	239	12'-8"	3157	STR.						
ES 541	73	16'-11"	1286	STR.						
ES 542	89	15'-5"	1431	STR.						
ES 543	77	13'-11"	1118	STR.						
ES 544	1 SERIES	20'-3" TO 4'-3" ✱	115	STR.						✱ 2'-0" INCREMENTS
	OF 9									
ES 545	11	28'-0"	321	STR.						
ES 546	1 SERIES	25'-6" TO 6'-0" ✱	181	STR.						✱ 1'-11 3/8" INCREMENTS
	OF 11									
ES 547	2	4'-6"	9	STR.						
ES 548	239	9'-3"	2306	STR.						
ES 549	239	17'-5"	4342	STR.						
ES 550	1 SERIES	21'-2" TO 3'-2" ✱	127	STR.						✱ 2'-0" INCREMENTS
	OF 10									
ES 551	10	24'-8"	257	STR.						
ES 552	1 SERIES	24'-0" TO 7'-6" ✱	148	STR.						✱ 2'-0 3/4" INCREMENTS
	OF 9									
ES 553	2	5'-6"	11	STR.						
ES 554	339	30'-0"	10607	STR.						
ES 555	65	22'-2"	1503	STR.						
ES 556	219	2'-3"	514	2						
ES 557	219	3'-1"	704	3						
ES 558	40	30'-0"	1252	STR.						
ES 559	8	22'-2"	186	STR.						
ES 560	219	5'-3"	1199	1						
ES 561	8	11'-8"	97	STR.						
ES 562	48	5'-8"	284	STR.						
ES 563	12	10'-10"	136	STR.						
ES 564	12	13'-7"	170	STR.						
ES 565	8	14'-4"	120	STR.						
ES 566	8	12'-2"	102	STR.						
ES 567	12	10'-8"	134	STR.						
ES 568	12	13'-5"	168	STR.						
ES 569	8	13'-8"	114	STR.						
ES 440	302	30'-0"	6052	STR.						
ES 441	121	11'-5"	923	4	10'-11"					
ES 442	180	21'-0"	2525	STR.						
		TOTAL	63,657	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
	REVISE DECK RE-STEEL	MK	1-85

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

OHIO TURNPIKE OVER LORAIN ROAD

CONTRACT NO. RMP 43-84-10 SHEET OF

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MM	RG	FG	SWM	JA	6/10/83	

BRUNING 44-132 2084S-1

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. PAYMENT 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: 43-84-10	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 A-A

SECTION B-B

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