

PIO 13385

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CHG. BY SRM
DATE 7-20-91

STATE	OHIO	PLAN NO.	120
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Sheet 5A has been Added to Plans 10
The Standard 1991 Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these improvements.
I hereby approve these plans and declare that the making of these improvements will require the closing of the highways to traffic on Parts No. NONE and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts No. 1 and provisions for the maintenance and safety of traffic will be indicated in the proposal.

Approved Date 7-26-91

Cash Miel
District Deputy Director of Transportation

Approved Date 8-13-91

B.D. Humphreys
Engineer of Bridges

Approved Date 9-23-91

Alexander H. Hynds
Deputy Director, Operations

Approved Date

Assistant Deputy Director, Program Development

Approved Date

Chief Engineer, Construction

Approved Date

Chief Engineer, Design

Approved Date

Assistant Director, Department of Transportation

Approved Date 7-24-91

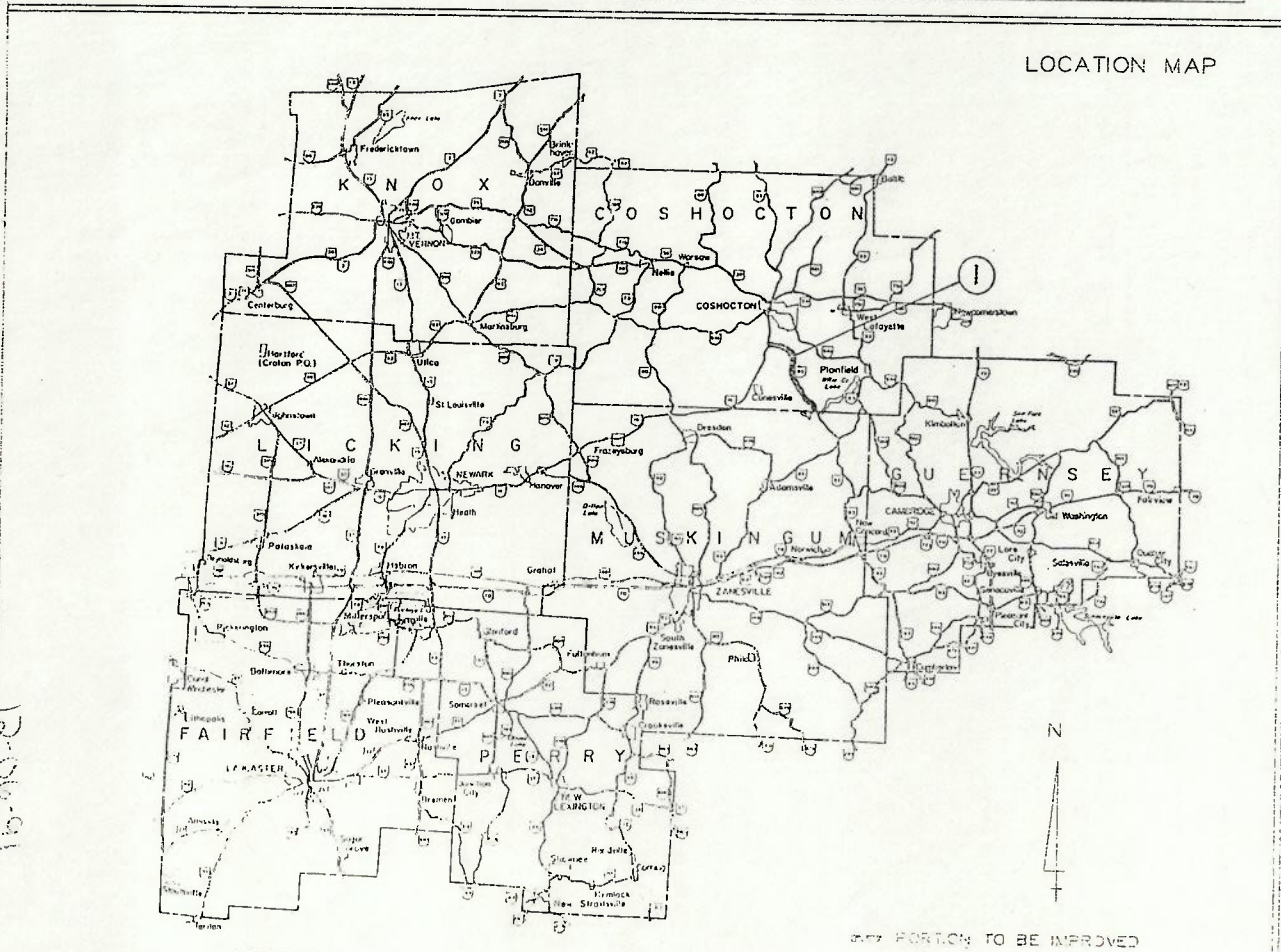
Jerry W. ...
Director, Department of Transportation

PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINI		NET LENGTH MILES	TOWNSHIP	CITY	VILLAGE
				BEGIN	END				
1	COS	SR 83	(0.00 - 7.49)	0.00	9.02	9.02			

1011

REDUCED

(16) 1101



LOCATION MAP

SEE PORTION TO BE IMPROVED

STANDARD DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
SP-5	10-01-87
SP-6	10-01-87
MT-97.1	10-04-89
MT-99.10	11-14-88
MT-99.20	4-29-88

RB

GENERAL NOTES

EXTRA ASPHALT FOR PRE-LEVELING

A QUANTITY OF ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 HAS BEEN INCLUDED IN THE PLAN TO BE USED AT THE DIRECTION OF THE ENGINEER FOR PRE-LEVELING WHERE THE PAVEMENT IS LOW OR DETERIORATED. THE QUANTITIES OF ITEM 448 SHOWN BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20; CU.YD. (SEE TABLE BELOW)

PART	1
CU.YD.	100

RESIDENCE AND COMMERCIAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 448 ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS TO EXISTING DRIVEWAYS. PAVING SHALL EXTEND 10 FEET INTO THE DRIVEWAY, MEASURED FROM THE EDGE OF THE PAVEMENT, OR PAVED BERM. THICKNESS SHALL BE APPROXIMATELY THE SAME AS THE ROADWAY PAVEMENT OR PAVED BERM. FIELD DRIVES AND OIL WELL DRIVES WILL NOT BE PAVED. ANY GRADING OF EXISTING DRIVES, TACK OR PRIME COAT, ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE WORK ON DRIVES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20 (DRIVEWAYS). THE QUANTITIES SHOWN IN THE TABLE BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

PAR	1
CU.YD.	53

PAVEMENT MARKING

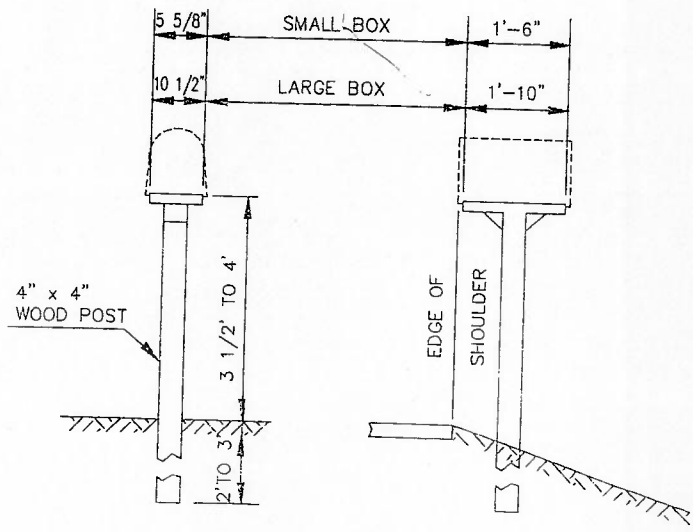
STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, TURN ARROWS, ETC., SHOWN ON THE PLAN ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

ITEM SPECIAL - MAILBOX SUPPORTS

THIS ITEM SHALL CONSIST OF REPLACING AND RESETTING DESIGNATED MAILBOX SUPPORTS WITH PRESSURE TREATED FOUR INCH (NOMINAL) TIMBER POSTS MEETING AASHTO M 133-81 AWPA P 8. MAILBOX SUPPORTS SHALL BE CONSTRUCTED AS PER THE DRAWING ON THIS SHEET. ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE REMOVAL AND INSTALLATION OF THE EXISTING MAILBOX ON THE NEW TIMBER POSTS AND RESETTING THE MAILBOX POSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - MAILBOX SUPPORTS. THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE.

ITEM SPECIAL - MAILBOX SUPPORTS EACH (SEE TABLE BELOW)

PART	1
EACH	4



TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT

GENERAL NOTES

ITEM 614 WORK ZONE MARKING SIGNS

A QUANTITY OF A EACH WORK ZONE MARKING SIGNS (B EACH "NO EDGE LINES" OW-167 AND C EACH "UNMARKED NO PASSING ZONES" OW-168), D EACH "UNEVEN LANE SYMBOL" OW-171-36 AND E EACH "UNEVEN LANE" OW-171-24) ARE CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

PART	1
A	68
B	17
C	17
D	17
E	17

MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-6, 10-1-87. ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURNOUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20 AS PER PLAN.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20 AS PER PLAN CU.YD. (SEE TABLE BELOW)

PART	1
CU.YD.	65

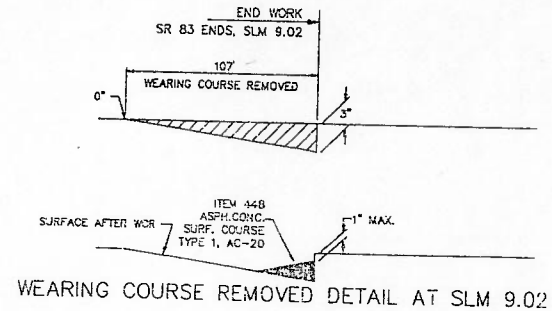
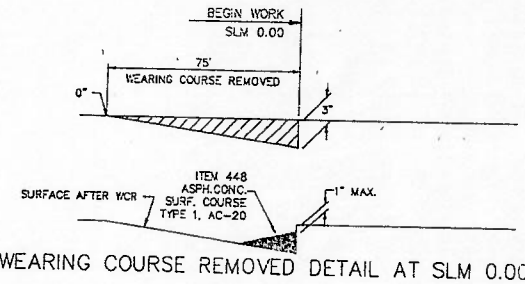
PAVED SHOULDERS

THE PAVED SHOULDER (SHOWN ON SHEET 12) SHALL BE APPLIED IN TWO COURSES. THE FIRST BEING 1.75" OF ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, AC-20 AND IT SHALL BE APPLIED AT THE SAME TIME AS THE FIRST COURSE ON THE ROADWAY. THE SECOND COURSE SHALL BE 1.25" OF ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20 TO BE APPLIED AT THE SAME TIME AS THE FINAL COURSE ON THE ROADWAY, AS DIRECTED BY THE ENGINEER.

ITEM 202 WEARING COURSE REMOVED AS PER PLAN

A BUTT JOINT WILL BE REQUIRED AT THE BEGINNING (SLM 0.00 = MUS.CO. LINE) AND THE END (SLM 9.02 = SR 16) OF THIS PROJECT, DUE TO THE AMOUNT OF PROPOSED ASPHALT AND THE COMPOSITION OF THE PROPOSED INTERMEDIATE COURSE. EXTRA QUANTITIES OF ITEM 407 TACK COAT AND ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20 HAVE BEEN INCLUDED TO REDUCE THE DEPTH OF THE WEARING COURSE REMOVED DROP OFF (SEE DETAIL). THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

ITEM 202 WEARING COURSE REMOVED, AS PER PLAN	1713 SQ.YD.
ITEM 407 TACK COAT	13 GAL.
ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20	8 CU.YD.



GENERAL NOTES

SHOULDER RESTORATION

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - GRADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF GRADER HOURS WORKED.

ALL EXCESS MATERIAL REMAINING AROUND GUARDRAIL AND OTHER AREAS AFTER THE GRADER WORK IS COMPLETED AND NOT DISPOSED OF ON THE SITE, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE REMOVAL WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - LOADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF LOADER HOURS WORKED. ANY OTHER EQUIPMENT, LABOR OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED THEREIN FOR PAYMENT. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

- ITEM SPECIAL - GRADER RENTAL 27 HRS.
- ITEM SPECIAL - LOADER RENTAL 14 HRS.

ITEM 408 BITUMINOUS PRIME COAT

AFTER COMPLETION OF PRIME COAT ANY SUBSEQUENT TREATMENT SHALL BE WHEN DIRECTED BY THE ENGINEER.

RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN

REMOVAL OF RAISED PAVEMENT MARKERS SHALL CONFORM WITH SECTION NO. 202.071 IN THE CONSTRUCTION AND MATERIAL SPECIFICATION MANUAL EXCEPT FOR THE FOLLOWING:

AFTER PAVEMENT MARKERS HAVE BEEN REMOVED BY THE CONTRACTOR, HE WILL THEN BE RESPONSIBLE TO TAKE THE REMOVED MARKERS TO A STATE GARAGE THAT WILL BE DESIGNATED BY THE ENGINEER. THE PROJECT ENGINEER SHALL GIVE THE DISTRICT MAINTENANCE ENGINEER 24 HOUR NOTICE PRIOR TO DELIVERY AND THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY TRANSFER DOCUMENTATION WITH ALL DELIVERIES. PAYMENT FOR ALL WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN.

ITEM 632 LOOP DETECTOR REPLACEMENT

THIS ITEM IS SET UP TO BE USED AS DIRECTED BY THE ENGINEER IF THE EXISTING LOOP DETECTOR BECOMES DAMAGED IN ANY WAY DURING THE CONSTRUCTION OF THE PROJECT. DAMAGED LOOP DETECTORS SHALL BE REPLACED AND IN OPERATION WITHIN 48 HOURS. DISTURBED LOOP DETECTORS SHALL BE ABANDONED IN PLACE. ~~PAVEMENT WILL BE CUT AFTER PLANING AND THE LOOP DETECTOR WIRE INSTALLED. THE LOOP DETECTOR WIRE SHALL THEN BE COVERED WITH THE SURFACE COURSE OF PROPOSED ITEM 448.~~ THE PAVEMENT WILL BE CUT AFTER THE PROPOSED INTERMEDIATE COURSE AND THE LOOP DETECTOR WIRE INSTALLED. THE LOOP DETECTOR SHALL THEN BE COVERED WITH THE PROPOSED ITEM 448 SURFACE COURSE. EACH DETECTOR SHALL BE REPLACED AT THE SAME LOCATION. DETAILS ARE SHOWN IN STANDARD DRAWING TC-82.10 DATED 8-29-84. THE NEW LOOP DETECTORS SHALL BE RUN INTO THE EXISTING CONTROL BOX. ALL NECESSARY MATERIAL, LABOR AND EQUIPMENT SHALL BE INCIDENTAL TO THE PAYMENT OF THESE ITEMS. THE ESTIMATED QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

- ITEM 632 LOOP DETECTOR WIRE, TYPE E
1000 LIN. FT.
- ITEM 632 LOOP DETECTOR PAVEMENT CUTTING
600 LIN. FT.

MAINTAINING DROP OFFS

DUE TO THE TOTAL THICKNESS OF THE PROPOSED ASPHALT OVERLAYS ON THE MAINLINE OF ROADWAY (3"), DROP OFFS FOR EXTRA AREAS, MAILBOX TURNOUTS, AGGREGATE BERMS AND DRIVES SHALL BE MAINTAINED, ~~WITH THE INTERMEDIATE COURSE OF ASPHALT ON THE MAINLINE, WHICH IS A 1.75" THICKNESS.~~ ALL OF THE PREVIOUSLY MENTIONED AREAS SHALL BE BROUGHT UP TO THE LEVEL OF THE INTERMEDIATE COURSE BEFORE THE SURFACE COURSE SHALL BEGIN. THE WORK MENTIONED ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 448 ASPHALT DESIGNATED TO EXTRA AREAS, MAILBOX TURNOUTS, DRIVES AND ITEM 617 COMPACTED AGGREGATE, TYPE A FOR THE BERMS.

ITEM 617 COMPACTED AGGREGATE, TYPE A, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 617, ALL AGGREGATE SHALL BE 100% CRUSHED.

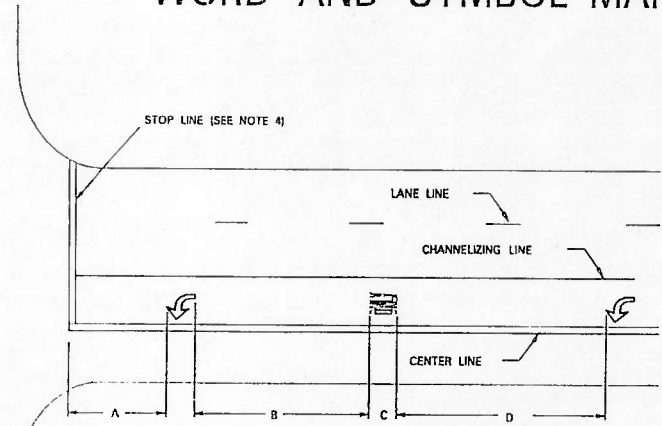
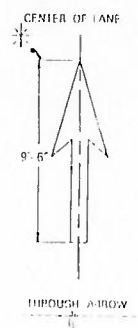
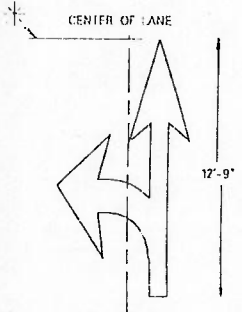
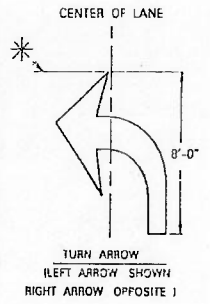
WORD AND SYMBOL MARKING DETAILS

COS-83-0.00

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	

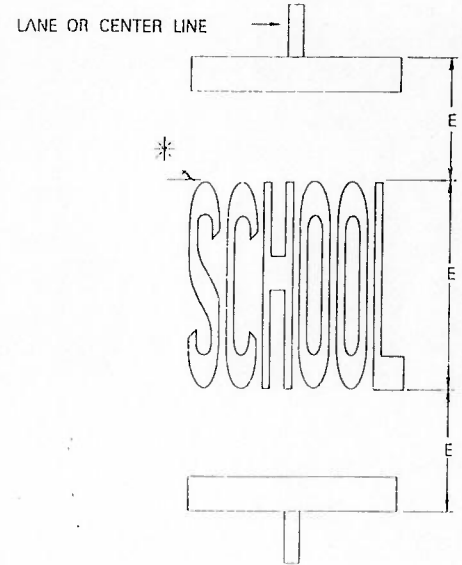
PLAN NO. 120

CALC. BY RED, DK
DATE 7-26-91
CHKD. BY SRM
DATE 7-30-91

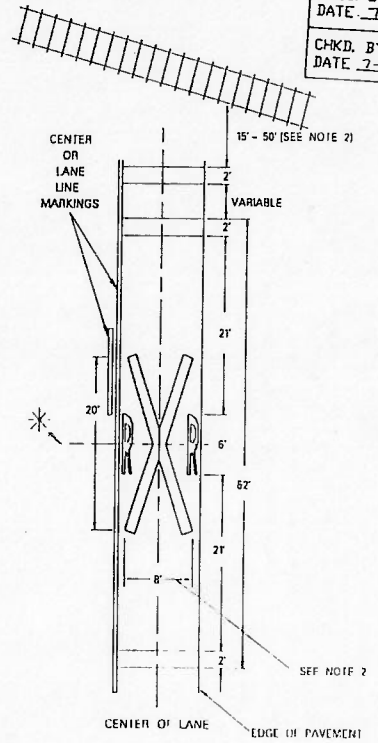


NOTE:
STOP LINE LOCATED MIN. 40' FROM
AT LEAST ONE SIGNAL HEAD WHICH APPLIES
TO THAT APPROACH

TYPE	DIMENSIONS (FEET)			
	A	B	C	D
RURAL	30 MIN.	32-80	8	32-80
URBAN	10 MIN.	32-80	6	24-60



TYPE	INCHES
	E
RURAL	96
URBAN	72



- NOTES:
- ON MULTI-LANE APPROACHES, THE TRANSVERSE LINES USED WITH THE RAILROAD SYMBOLS SHALL EXTEND ACROSS ALL APPROACH LANES AND SYMBOLS SHALL BE PLACED IN EACH APPROACH LANE.
 - THE RAILROAD SYMBOL SHALL BE LOCATED SO THAT THE W-94, "RAILROAD ADVANCE WARNING SIGN", IS WITHIN THE TWO TRANSVERSE BOUNDARY LINES OF THE RAILROAD SYMBOL. THE STOP LINE SHALL BE LOCATED FOR BEST SIGHT DISTANCE WITHIN 15 FEET TO 50 FEET OF THE NEAR EDGE OF THE TRACKS. STOP LINES SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE ROADWAY. WIDTH OF "X" MAY VARY ACCORDING TO LANE WIDTH.
 - ON MULTI-LANE APPROACHES, THE TRANSVERSE LINES USED WITH THE WORD "SCHOOL" SHALL EXTEND ACROSS ALL APPROACH LANES WITH A SINGLE WORD "SCHOOL" CENTERED ACROSS THE APPROACH LANES. ON TWO LANE ROADWAYS, THE TRANSVERSE LINES SHALL EXTEND ACROSS THE ROADWAY WITH THE WORD "SCHOOL" CENTERED ACROSS THE ROADWAY CENTER OR LANE LINES. SHALL NOT PASS THROUGH THE "SCHOOL" MARKING.
 - THE STOP LINE SHOULD BE PLACED WHERE CROSS-CORNER VISION IS MAXIMUM, IN NO CASE MORE THAN 30 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. FOR NORMAL INTERSECTIONS A MAXIMUM DISTANCE OF 10 FEET IS RECOMMENDED.
 - IF A MARKED CROSSWALK IS PRESENT, THE STOP LINE SHOULD BE PLACED 4 FEET IN ADVANCE OF AND PARALLEL TO THE NEAREST CROSSWALK.
 - FOR TRAFFIC PAINT AND POLYESTER APPLICATION, TEMPLATE GAPS SHALL BE FILLED WITH MARKING MATERIAL IN ACCORDANCE WITH 641.03 FOR EXTRUDED THERMOPLASTIC MATERIAL, THESE GAPS MAY REMAIN UNFILLED IN ACCORDANCE WITH 641.03.
 - USE STANDARD DIMENSIONS CONFORMING TO REQUIREMENTS OF MUTCD SECTION 311.40 THROUGH 311.43 INCLUSIVE (THAT IS THE 1977 METRIC EDITION STANDARD ALPHABETIC HIGHWAY SIGNS AND PAVEMENT MARKING WITH ERRATA

* INDICATES STATION REFERENCE POINT

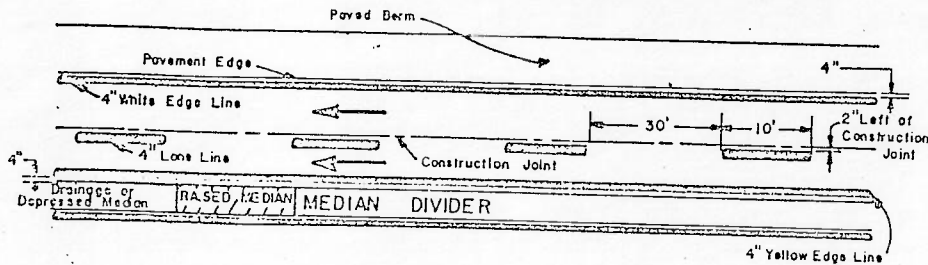
PAVEMENT MARKING TYPICAL DETAILS

CALC. BY DEL/D
 DATE 7-2-61
 DES. BY SRB
 DATE 7-2-61

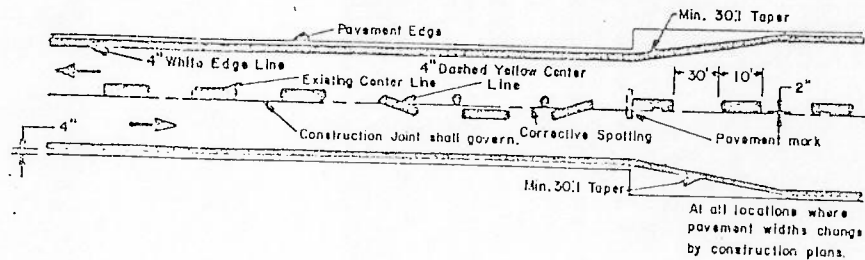
FED. RD. DIST.	STATE	PROJECT
5	OHIO	

PLAN NO. 120

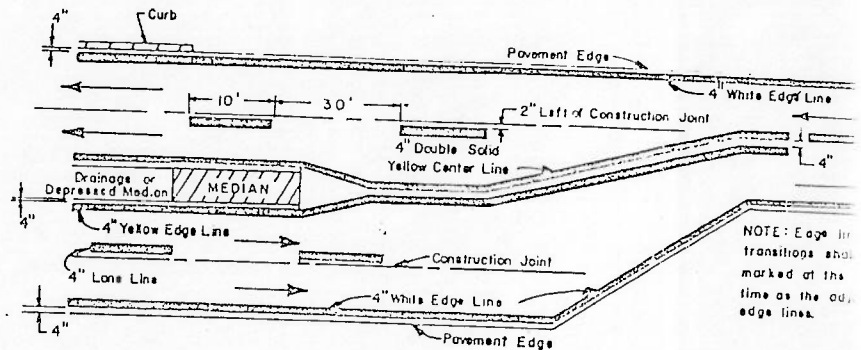
FREEWAY & EXPRESSWAY MAINLINE MARKINGS



TWO LANE MARKINGS



MULTILANE DIVIDED & UNDIVIDED HIGHWAY MARKING



NOTES:

1. THE DISTANCE FROM THE PAVEMENT EDGE TO THE HEARSIDE EDGE OF THE EDGELINE MAY BE INCREASED WITH THE APPROVAL OF THE ENGINEER IN ORDER TO MAINTAIN UNIFORM LANE WIDTH.
2. SEE TC 72.20 FOR ENTRANCE AND EXIT RAMP MARKINGS.
3. The cycle length for dashed lines shall be 40 feet plus or minus 6 inches. The minimum length of dash shall be sufficiently long to maintain a 3:1 ratio between length of gap and length of dash.

DIVISION OF TRANSPORTATION
 PAVEMENT MARKING
 TYPICAL DETAILS

NOT TO SCALE

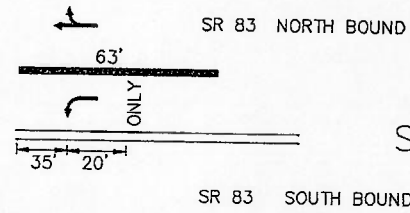
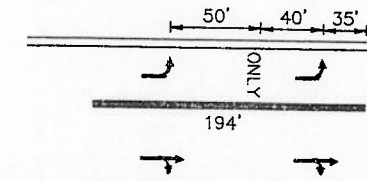
SCALE BY AS SHOWN
DATE 7-1-81
CHKD. BY SLH
DATE 7-28-81

PLAN NO. 120

COS-83-0.00

CO RD 271

CO RD 271



INTERSECTION SR 83 AND CO RD 271

SR 83 AT SR 16

SR 16

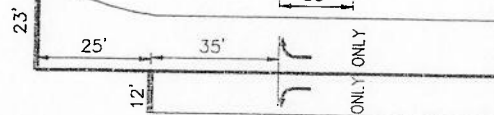
SR 83

SR 83 NORTH BOUND

468' CENTER LINE

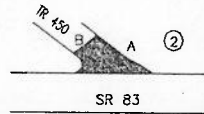
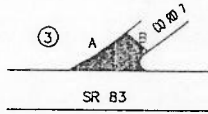
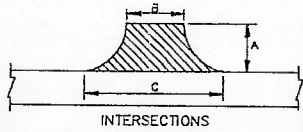
356' OF TRANSVERSE LINES (YELLOW)

200' CHANNELIZING LINE



SR 83 SOUTH BOUND

450'



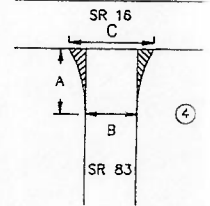
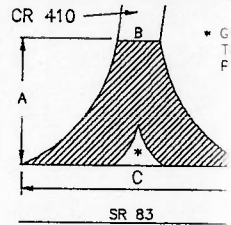
EXTRA AREA AND DEDUCTIONS

CHKD. BY SKL
DATE 1-2-57

PLAN NO. 120

COS-83-0.00

PART	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS									
					A IN FEET	B IN FEET	C IN FEET		407		202	ASPHALT CONCRETE			408			
									TACK COAT @ 0.05 gal./s.y. GAL.	COVER AGGR. @ 1 lbs./s.y. TON		WEARING COURSE REMOVED AS PER PLAN 3" SQ.YD.	CU. YD.			EXISTING SURFACE	BITUMINOUS PRIME COAT @ 0.40 gal./s.y. GAL.	
ITEM 403	ITEM 448 SURFACE COURSE TYPE 1 AC-20	THICK INCHES																
1	SR 83	COS	LT	TR 15	60	20	108	427										
			RT	CO RD 410 (1)	52	26	126	439	21				36	3.00	ASPH			
			RT	TR 276	43	30	70	239	22				37	3.00	ASPH			
			LT	CO RD 429	63	20	112	462	12				20	3.00	ASPH			
			LT	CO RD 275	31	27	86	195	23				39	3.00	ASPH			
			LT	ROAD	21	15	44	69					16	3.00	GRAVEL	78		
			LT	TR 476	20	15	44	66	3				6	3.00	ASPH			
			LT	TR 278	23	22	59	104	5				6	3.00	ASPH			
			RT	TR 146	47	21	100	316	5				9	3.00	ASPH			
			LT	CO RD 277	25	16	51	93	16				26	3.00	ASPH			
			RT	TR 450 (2)	201	17		190	5				8	3.00	ASPH			
			RT	CO RD 7 (3)	269	25		374	10				16	3.00	ASPH			
			LT	CO RD 91	32	17	57	132	19				31	3.00	ASPH			
			LT	CO RD 91	30	18	54	120	7				11	3.00	ASPH			
			RT	CO RD 91 (OTSEGO AVENUE)	56	26	124	467	6				10	3.00	ASPH			
			LT	TR 270	61	24	120	488	23				39	3.00	ASPH			
			LT	CO RD 271	61	24	120	488	24				41	3.00	ASPH			
			RT	CO RD 271	80	24	147	760	24				41	3.00	ASPH			
				SR 83 @ SR 16 (4)	107	36	213	1052	38				63	3.00	ASPH			
									53				88	3.00	ASPH			
		TOTALS		CARRIED TO SHEET 11				6481	314				543			78		



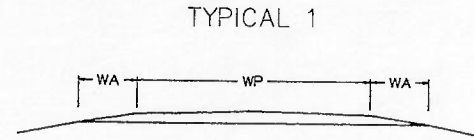
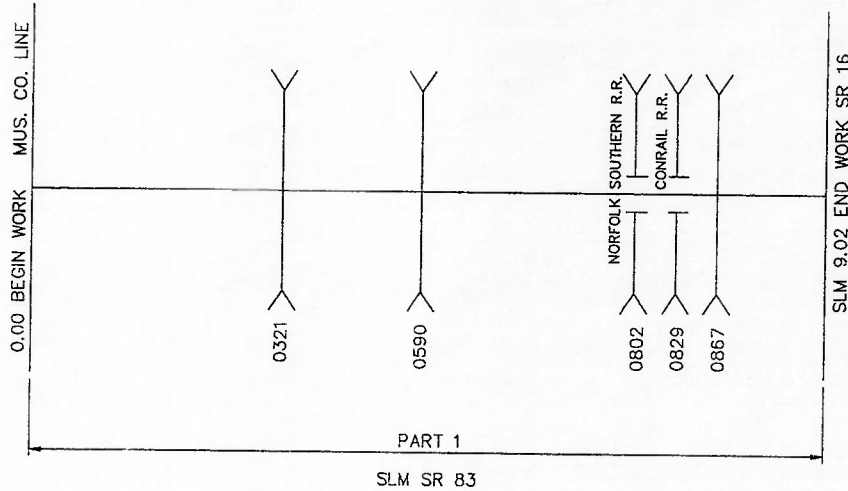
11-100-100 (MAY 1957) - (C) SHS:DLAD

ASPHALT CONCRETE

COS-83-0.00

DATE 1-23-83
CHKD. BY SKA
DATE 1-23-83

PLAN NO. 120



BRIDGE TREATMENT

COS-83-0321	30.42'X 30.08'	SEE SHEET 13
COS-83-0590	39'X 31.5'	SEE SHEET 13
COS-83-0802	138.52'X 42.5'	SEE SHEET 13
COS-83-0829	155.06'X 42.5'	SEE SHEET 13
COS-83-0867	485.5'X 42.5'	SEE SHEET 13

(1) BRIDGE LENGTH X PAVEMENT WIDTH (2) FIELD MEASURED (3) AVERAGE PAVEMENT DATA

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT					202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN EACH	408 BITUMINOUS PRIME COAT GAL	614 TEMPORARY CENTER LINE CLASS II MILE
			MILES	LIN. FT.					407 ASPHALT CONCRETE							
									TACK COAT @ 0.05 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES	INTERMEDIATE COURSE, TYPE 2 AC-20 CU.YDS.	ITEM 448 THICK INCHES			
1	SR 83	0.00-8.66	8.66	45725	24(2)	1	404	121933	6097	1.75	5927	1.25	4234			17.32
		8.66-8.71	0.05	264	30(2)(3)	1	404	880	44	1.75	43	1.25	31			0.1
		8.71-8.76	0.05	264	36(2)	1	404	1056	53	1.75	51	1.25	37			0.1
		8.76-8.81	0.05	264	30(2)(3)	1	404	880	44	1.75	43	1.25	31			0.1
		8.81-8.87	0.06	317	24	1	404	845	42	1.75	41	1.25	29			0.12
		8.87-8.93	0.06	317	30(2)(3)	1	404	1057	53	1.75	51	1.25	37			0.12
		8.93-9.02	0.09	475	36(2)	1	404	1900	95	1.75	92	1.25	66			0.18
(1)	DEDUCT FOR BRIDGES							(2586)	(129)		(126)		(90)			
	EXTRA AREAS SEE SHEET 10							6481	314				543			
	EXTRA TACK COAT FOR LONGITUDINAL JOINT								138					78		
	TOTALS	PART 1	9.02	47626				132446	6751		6122		4918	850	78	18.04

PAVED SHOULDERS

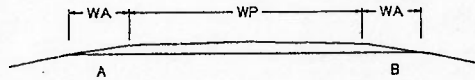
COS-83-0.00

REGION	STATE	PROJECT
5	OHIO	7

CALC. BY Jed Dk
DATE 7-26-91
CHKD. BY SRM
DATE 7-30-91

PLAN
12C

TYPICAL 1



PAVED SHOULDER DATA

*AS PER PLAN

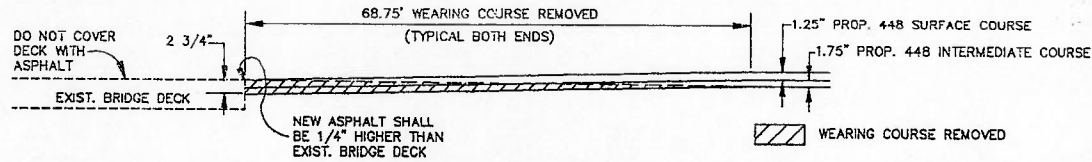
PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		TYPICAL	PROPOSED WIDTH (FT.)				SHOULDER AREA SQ.YDS.	203		448		448		408	409		617	617	407		40-	
			MILES	LN.FT.		LINEAR GRADING	INTERMEDIATE COURSE	SURFACE COURSE			PRIME	SEAL		COMPACTED AGGREGATE TYPE A*	WATER	TACK COAT @ 0.05 gal./sq.yd.	COVER AGGREGATE @ 7 lbs./s.y.	ASPH. CONC.							
			DEPTH INCHES	AVG. THICK INCHES		THICK INCHES	Bit. Matl. @..... gal./s.y.	Bit. Matl. @..... gal./s.y.	Aggr. @..... c.y./s.y.		2'X 3.5"	AVER. THICKNESS TO BACK UP PAVED BERM CU.YDS.	MGAL.	GALS.	TON	CU.Y.									
1	SR 83	0.00-9.02	9.02	47626	1	2	2		21167		**STA.	1.75	1029	1.25	735										
	TOTAL	PART 1	9.02	47626					21167				1029	735					2058	19	1059				

31-01-50 (REV. 1-79) 12C

BRIDGE DECK TREATMENT

DATE BY CHECKED DATE	OHIO FHWA REGION 5
PLAN NO. 120	

COS-83-0.00



* BUTT JOINT DETAIL

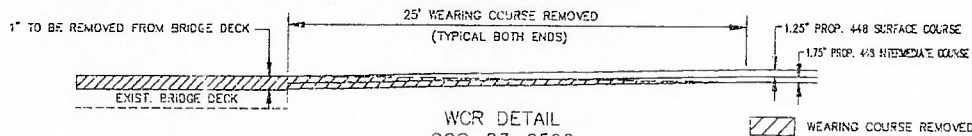
COS-83-0802
COS-83-0829
COS-83-0867

* INCLUDES PAVED BERMS

BRIDGE DECK DATA

** APPROACHES ONLY—INCLUDES PAVED BERMS

PART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)			BRIDGE DECK AREA	BRIDGE DECK REPAIR				SPECIAL				ASPHALT CONCRETE				407 TACK COAT @ 0.05 GAL/SQYD	614 TEMPORARY CENTER LINE CLASS 1 (FOR WCR AREAS) MILE					
		LIN.FT.	UN.FT.	SQ.YDS.		WEARING COURSE REMOVED SQ.YDS.	CONCRETE			PATCHING		STEEL DRIP STRIP SQ.FT.	DECK WATERPROOFING		448		448 SURFACE COURSE TYPE 1 CU.YDS.							
							SS-845 LATEX MODIFIED CONCRETE	SS-850 DENSE CONCRETE	THICK OVERLAY SQ.YDS.	VARIABLE THICKNESS OVERLAY CU.YDS.	FULL-DEPTH REPAIR CU.YDS.		TYPE	SQ.YD.	MEMBRANE WATERPROOFING SHEET TYPE 1 SQ.YDS.	MEMBRANE WATERPROOFING SQ.YDS.				INTERMEDIATE COURSE TYPE 2 AC-20 CU.YD.	THICK INS.	THICK INS.		
1	COS-83-0321	30.42	30.08	101.7	257*																			
	COS-83-0590	39	31.5	136.5	292*																			
	COS-83-0802	138.52	42.5	654	428**																			
	COS-83-0829	155.06	42.5	732	428**																			
	COS-83-0867	486.5	42.5	2293	519**																			
1	TOTALS			3917	1924																			



WCR DETAIL
COS-83-0590
COS-83-0321

GENERAL SUMMARY

COS-83-0.00

CALC. BY DBL/DK
 DATE 7-22-91
 CHKD. BY SL
 DATE 7-30-91

PLAN NO.
120

14
 15

ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8	ITEM	ITEM EXT. NO.	GRAND TOTAL PART 1	UNIT	DESCRIPTION
202	850								202	54101	850	EACH	RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN
202	1924								202	23500	1924	SQ.YD.	WEARING COURSE REMOVED
202	1713								202	23501	1713	SQ.YD.	WEARING COURSE REMOVED, AS PER PLAN
SPECIAL	27								SPECIAL	20363000	27	HOURL	GRADER RENTAL
SPECIAL	14								SPECIAL	20363500	14	HOURL	LOADER RENTAL
407	7835								407	10000	7835	GALLON	TACK COAT
408	78								408	10000	78	GALLON	BITUMINOUS PRIME COAT
448	<u>7163</u>								448	15000	<u>7163</u>	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, AC-20
448	53								448	16000	53	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (DRIVEWAYS), AC-20
448	5770								448	16000	5770	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
448	65								448	16001	65	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20, AS PER PLAN
614	LUMP								614	11000	LUMP	LUMP	MAINTAINING TRAFFIC
614	68								614	12460	68	EACH	WORK ZONE MARKING SIGN
614	18.04								614	214000	18.04	MILE	TEMPORARY CENTER LINE, CLASS 2
614	0.12								614	21000	0.12	MILE	TEMPORARY CENTER LINE, CLASS 1
617	19								617	25000	19	MGAL.	WATER
617	2058								617	10101	2058	CU.YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN

GENERAL NOTES

TRAFFIC:

Traffic shall be maintained at all times. The length of restricted traffic zones shall be kept to a minimum consistent with the specification requirements for protection of completed courses.

RAILROAD CROSSINGS:

The new surface course shall be feathered or butt jointed to meet the rail grades as specified.

TACK COAT:

The tack coat operation shall be as determined at a pre-construction conference as per 407.05, and application rates shall not exceed 0.10 gal. per sq. yd. In addition to the requirements of 407.05 the tack coat shall be applied immediately ahead of the paving operation or as otherwise determined by the Project Engineer.

INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:

This material shall be placed in a separate operation where and as directed by the Engineer.

ALIGNMENT AND PROFILE:

The work proposed by this project is for the resurfacing of the existing pavement. The alignment of the existing pavement will not be changed, and the profile of the proposed surface will be similar to that of the existing pavement except that it will be raised an amount equal to the thickness of the resurfacing course or courses specified in these plans.

Spreading equipment shall be capable of having an automatic profile control device added to be used when directed by the Engineer. The minimum length of the ski for this device shall be ~~25~~ 30 ft.

CONTROL OF ONE WAY TRAFFIC:

In addition to the requirements of the Ohio Manual of Uniform Traffic Control Devices and Material Specifications the following requirements shall apply. Communications between flaggers shall be by two-way radio during the paving operations. Payment for the above shall be included in item 614, Maintaining Traffic.

COVER AGGREGATE:

Cover aggregate shall conform to 703.06.

BRIDGES:

The proposed depth of asphalt resurfacing shall be altered to match the proposed depth of the treatment on the structures. The resurfacing thickness shall be adjusted as required at the approximate rate of 25 ft. per inch of difference in thickness unless otherwise directed by the Engineer.

