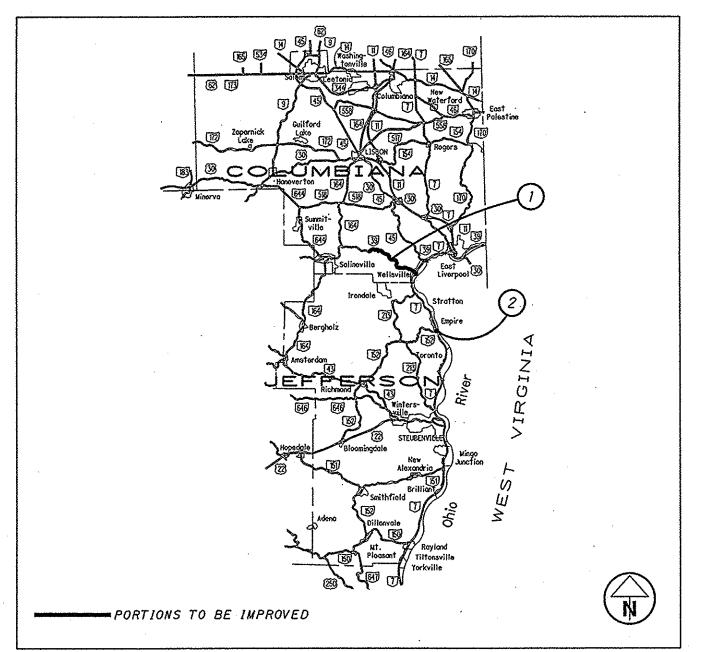
SR-39-7.19

STATE OF OHIO DEPARTMENT OF TRANSPORTATION



LOCATION MAP

LATITUDE: N 40° 36' 00" LONGITUDE: W 80° 39' 45"

UNDERGROUND UTILITIES	5]
CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG	7
CALL 1-800-362-2764 (TOLL FREE)	
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY	-
OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988	

PLAN PREPARED BY: ODOT DISTRICT 11

STA	NDARD	CONSTR	UCTION	DRAW	INGS		EMENTAL ICATIONS
<i>BP-3.1</i>	4-20-12	MT-97.10	7-20-12	TC-41.20	1-19-01	800	7-20-1
BP-4.1	7-16-04			TC-42.20	1-21-11	832	5-5-09
		MT-97.12	7-20-12	TC-52.10	1-19-07		
		MT-99.20	7-20-12	TC-52.20	1-19-07		
		,		TC-65.10	4-20-12		
		MT-101.90	10-21-11	TC-65.11	4-20-12		
DM-4.3	7-20-12	MT-105.10	7-20-12	TC-71.10	1-21-11		
DM-4.4	7-20-12			TC-73.10	4-20-12		ECIAL /ISIONS

COL-39-7.19 446 2-LANE RESURFACING

PART	COUNTY	ROUTE	SECT10NS		JECT MINI END	NET LENGTH #ILES	VILLAGE
1	COL	SR 39	(7.19)	7.19	13.60		WELLSVILLE
2	JEF	SR 152	(25.86)	25.86	26.23	0.41	EMPIRE

PROJECT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)

THE 2010 STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

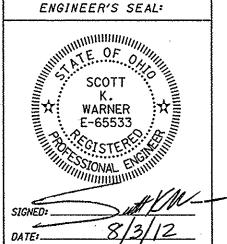
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAYS TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED 8 6112 DI

DISTRICT DEPUTY DIRECTOR

APPROVED 8-13-12

DIRECTOR, DEPARTMENT OF TRANSPORTATION



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PROJECTS\83993\Prod\Don\t

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ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES PER ITEM 614 AND AS PER SCD MT-97.12. THE LENGTH OF RESTRICTED TRAFFIC LANES SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE CMS REQUIREMENTS FOR THE PROTECTION OF WORK ITEMS, WHICH NECESSITATE THE RESTRICTION. THE LIMITS AND DURATION OF LANE CLOSURES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE PLANING AND RESURFACING WILL PROCEED CONTINUOUSLY A MINIMUM OF FIVE (5) DAYS PER WEEK, WEATHER PERMITTING, EXCEPT FOR THE HOLIDAYS AND EVENTS LISTED BELOW. ANY OPEN PAVEMENT TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR PORTABLE CONCRETE BARRIER, PER SCD MT-101.90.

THE CONTRACTOR SHALL FURNISH. INSTALL AND MAINTAIN W-8-HI5 "GROOVED PAVEMENT" SIGNS PER CMS 614.055.

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SIGNS W8-1 (48"x48") "BUMP" AND W8-2 (48"x48") "DIP" WITH WI3-1 (24"x24") ADVISORY SPEED PLAQUE WITH SPEEDS APPROVED BY THE ENGINEER FOR ALL BUTT JOINT LOCATIONS, WHILE THE BUMP OR DIP CONDITION EXISTS.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

MEMORIAL DAY, FOURTH OF JULY, LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEP-ENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE TIME ALL LANES MUST WEEK BE OPEN TO TRAFFIC

12:00N FRIDAY THROUGH 12:00N MONDAY 12:00N FRIDAY THROUGH 12:00N TUESDAY 12:00N MONDAY THROUGH 12:00N WEDNESDAY SUNDAY MONDAY TUESDAY WEDNESDAY 12:00N TUESDAY THROUGH 12:00N THURSDAY THURSDAY 12:00N WEDNESDAY THROUGH 12:00N FRIDAY FRIDAY 12:00N THURSDAY THROUGH 12:00N MONDAY SATURDAY 12:00N FRIDAY THROUGH 12:00N MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRYWIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE RE-QUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

WHEN RAISED PAVEMENT MARKERS ARE TO BE INSTALLED, THE REQUIRED LANE CLOSURE SHALL REMAIN IN EFFECT UNTIL THE EPOXY IS DRY AND ALL FOREIGN MATTER OR DEBRIS CREATED BY THE INSTALLATION OF THE RPM CASTING IS REMOVED FROM

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

SURFACE COURSE COMPLETION REQUIREMENTS

ANY GIVEN LENGTH OF WORK ON WHICH RESURFACING OPERATIONS HAVE BEEN STARTED IN A CONSTRUCTION SEASON SHALL HAVE THE SURFACE COURSE PLACED THAT SAME SEASON.

ITEM 614 - WORK ZONE PAVEMENT MARKINGS AND SIGNS

THE CONTRACTOR SHALL INSTALL ITEM 614 - WORK ZONE CENTER LINE. CLASS 1, 642 PAINT PRIOR TO OPENING THE LANE TO TRAFFIC, OR WHEN THE EXISTING MARKINGS HAVE BEEN COVERED OR DAMAGED, AS PER

IN THE EVENT THE CONTRACTOR CANNOT INSTALL THE WORK ZONE CENTER LINE, CLASS 1, DUE TO CONDITIONS BEYOND HIS CONTROL, AN ESTIMATED CONTINGENCY QUANTITY OF "DO NOT PASS" (R4-1) AND "PASS WITH CARE" (R4-2) SIGNS HAVE BEEN PROVIDED BELOW.

WORK ZONE CENTER LINE, CLASS I MARKINGS SHALL BE PLACED, AND THE ABOVE SIGNS REMOVED BY THE END OF THE CONTRACTOR'S NEXT WORK DAY. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE

(PART I) 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT - 11.92 MILE (STP) (PART I) 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT - 0.99 MILE (STP-URBAN) (PART 2) 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT - 1.23 MILE (STP)

THE CONTRACTOR SHALL ERECT "NO EDGE LINES" (W8-H12a) SIGNS IN ADVANCE OF ANY SECTION OF ROADWAY LACKING CMS STANDARD EDGE LINE MARKINGS,

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR WORK ZONE MARKING SIGNS PER THE REQUIREMENTS ABOVE AND ITEM 614 OF THE SPECIFICATIONS.

(PART 1) 614, WORK ZONE MARKING SIGN - 56 EACH (STP) (PART 1) 614, WORK ZONE MARKING SIGN - 30 EACH (STP-URBAN) (PART 2) 614, WORK ZONE MARKING SIGN - 30 EACH (STP)

116 EACH

WORK ZON	WORK ZONE MARKING SIGN TABLE											
"NO EDGE LINES"	PART 1	36	(STP)									
"NO EDGE LINES"	PART 1	10	(STP-URBAN)									
"NO EDGE LINES"	PART 2	10	(STP)									
"DO NOT PASS"	PART 1	10	(STP)									
"DO NOT PASS"	PART 1	10	(STP-URBAN)									
"DO NOT PASS"	PART 2	10	(STP)									
"PASS WITH CARE"	PART 1	10	(STP)									
"PASS WITH CARE"	PART 1	10	(STP-URBAN)									
"PASS WITH CARE"	PART 2	10	(STP)									
	TOTAL	116										

NOTIFICATION OF WORK ZONE LANE RESTRICTIONS

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST EIGHTEEN (18) DAYS PRIOR TO IMPLEMENTING ANY WORK ZONE RESTRICTIONS THAT WILL REDUCE THE WIDTH OR VERTICAL CLEARANCE OF ANY LANE ON WHICH TRAFFIC WILL BE MAINTAINED DURING CONSTRUCTION.

THE ENGINEER SHALL IMMEDIATELY NOTIFY THE DISTRICT ROADWAY SERVICES MANAGER TO ADVISE THE OFFICE OF HIGHWAY MANAGEMENT OF THE RESTRICTIONS.

ITEM 448 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (SPOT LEVELING)

LONGITUDINAL AND TRANSVERSE IRREGULARITIES ARE INTERMITTENTLY PRESENT THROUGHOUT THE EXISTING PAVEMENT SURFACE, BUT THE PAVEMENT DOES NOT REQUIRE A FULL-WIDTH LEVELING COURSE. PAVEMENT DOES NOT REQUIRE A FULL-WIDTH LEVELING COURSE.

IRREGULARITIES SHALL BE FILLED WITH 448 IN A MANNER THAT WILL
RESULT IN SURROUNDING PORTIONS OF THE EXISTING SURFACE REMAINING
EXPOSED AFTER THE SPOT LEVELING COURSE IS PLACED. THE SPOT
LEVELING COURSE SHALL BE A VARIABLE DEPTH COURSE WITH A MINIMUM
THICKNESS OF O". THE MATERIAL SHALL BE PLACED IN A SEPARATE
OPERATION DIRECTED BY THE ENGINEER.

ITEM 446 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG70-22M, AS PER PLAN

MATERIALS FURNISHED FOR FINE AND COARSE AGGREGATES USED IN THIS ITEM SHALL EXCLUDE ALL STONE AND CRUSHED CARBONATE STONE.

446 DENSITY ACCEPTANCE WITH FLAGGER CLOSING OF A 2-LANE HIGHWAY FOR PAVING OPERATIONS

THIS PLAN NOTE APPLIES ONLY TO A FLAGGER CLOSURE OF ONE LANE OF A 2-LANE HIGHWAY DURING PAYING OPERATIONS WHEN USING STANDARD CONSTRUCTION DRAWING MT-97.11 OR MT-97.12, AND ALLOWS A PAYING OPERATION TO PROCEED CONCURRENTLY WITH THE MARKING AND CUTTING OF CORES REQUIRED FOR 446 DENSITY ACCEPTANCE.

IN ALL CASES THE CONTRACTOR SHOULD LENGTHEN THEIR LANE CLOSURES TO THE MAXIMUM PERMISSIBLE LENGTH DETAILED IN THE ABOVE REFERENCED STANDARD CONSTRUCTION DRAWINGS TO ALLOW THE ENGINEER ADEQUATE TIME TO MARK THE REQUIRED CORE LOCATIONS AND FOR CORE CUTTING OPERATIONS

THE CONTRACTOR WILL PROVIDE TO THE ENGINEER THE PLANNED QUANTITY THAT WILL BE PLACED FOR THE DAY'S PRODUCTION. EACH DAY'S PRODUCTION WILL BE CONSIDERED ONE LOT AND INCLUDES SHOULDERS. TEN CORES WILL BE OBTAINED BY THE CONTRACTOR FOR EACH LOT AT RANDOM LOCATIONS DETERMINED BY THE ENGINEER. THE ENGINEER WILL DIVIDE A LOT INTO FIVE EQUAL SUBLOTS AND CALCULATE TWO RANDOM CORE LOCATIONS IN EACH SUBLOT AS DESCRIBED IN C&MS 446.05.

THE ENGINEER WILL MARK THE CORE LOCATIONS AFTER THE PAVING OPERATION (INCLUDING THE FINISH ROLLER) HAS COMPLETELY PASSED THE RANDOMLY SELECTED CORE LOCATION. THE CORE DRILL OPERATION CAN BEGIN CUTTING CORES WHEN THE NEWLY PLACED SURFACE TEMPERATURE IS LESS THAN 140°F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LANE CLOSURE DURING ALL PAYING, MARKING, AND CORING OPERATIONS PER THE REQUIREMENTS OF THE STANDARD CONSTRUCTION DRAWING USED FOR THE PAVING OPERATION.

ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (DRIVEWAYS), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF PAVING ALL EXISTING DRIVEWAYS AND INTERSECTING PUBLIC ROADS NOT OTHERWISE INDICATED. AN AVERAGE THICKNESS EQUAL TO THE SURFACE COURSE THICKNESS SHALL BE PLACED ON THICKNESS EQUAL TO THE SURFACE COURSE THICKNESS SHALL BE PLACED ON THE EXISTING PAVED DRIVES AND APPROACHES, FOR AN APPROXIMATE DISTANCE OF 10 FEET FOR DRIVEWAYS AND 20 FEET FOR PUBLIC ROADS FROM THE EDGE OF PAVEMENT OR PAVED SHOULDERS, WHICHEVER IS APPLICABLE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UP GRADE DRIVEWAY PAVING SHALL BE PLACED TO THE BEGINNING OF THE UPSLOPE OF THE DRIVEWAY, AS DIRECTED BY THE ENGINEER. ALL GRADING, TACK COAT, PRIME COAT, TOOLS, EQUIPMENT AND INCIDENTALS REQUIRED TO LAYOUT AND PAVE THE DRIVEWAYS AND INTERSECTING PUBLIC ROADS SHALL BE INCLUDED IN THE CU. YP. PRICE BID FOR ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (DRIVEWAYS), AS PER PLAN. THE CONTRACTOR'S ATTENTION IS DIRECTED TO CMS 107.10. ALL DRIVEWAYS SHALL BE PAVED WITHIN (5) WORKING DAYS AFTER PLACING OF THE SURFACE COURSE ON THE MAINLINE PAVEMENT. MATERIALS FURNISHED FOR FINE AND COARSE AGGREGATES USED IN THIS ITEM COLUMN FOR THE COURSE ON THE MAINLINE PAVEMENT. ITEM SHALL EXCLUDE ALL STONE AND CRUSHED CARBONATE STONE.

EXTRA FOR WIDENING (PAVEMENT AREA)

AN ADDITIONAL QUANTITY HAS BEEN ADDED TO THE PAVEMENT DATA SHEETS TO BE USED AS DIRECTED BY THE ENGINEER, TO COVER AREAS THAT HAVE BEEN WIDENED ON CURVES OR ON PREVIOUS MAINTENANCE ACTIVITIES BEYOND THE AVERAGE PAVEMENT WIDTH SHOWN.

COORDINATION OF RESURFACING AND PLANING OPERATIONS

ONCE THE PAVEMENT PLANING OPERATIONS HAVE BEGUN, IT SHALL PROCEED CONTINUOUSLY UNTIL ALL ELEMENTS OF THE WORK ASSOCIATED WITH THE PAVEMENT PLANING OPERATIONS ARE COMPLETED. THE PAVEMENT PLANING OPERATION SHALL BE COMPLETED IN A TIMELY MANNER AS DIRECTED BY THE ENGINEER. PAVING MUST START WITHIN THREE DAYS OF THE START OF THE PLANING OPERATIONS. IF PAVING THE ASPHALT CONCRETE DIRECTLY ONTO PORTLAND CEMENT, CONCRETE OR BRICK PAVEMENT, TACK THE PAVEMENT WITH RUBBERIZED ASPHALT EMULSION CONFORMING TO CMS 702.13.

ALL GRINDINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR EXCEPT WHAT IS REQUIRED TO BE USED FOR SHOULDER MATERIAL.

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SHOULDER PREPARATION

THIS WORK WILL BE IN ACCORDANCE WITH CMS ITEM 617, WITH SPECIAL ATTENTION GIVEN TO SECTION 617.04. THE WORK DONE WILL BE IN REASONABLY CLOSE CONFORMITY WITH THE LINES AND TYPICAL SECTIONS SHOWN ON THE PLANS OR AS ESTABLISHED BY THE ENGINEER.

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR WILL APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER, AS PER PLAN.

SHIELD

THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF THE PAVEMENT OR EDGELINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

THE CONTRACTOR WILL UTILIZE MATERIAL (I.E. GRINDINGS) OBTAINED FROM THE PAVEMENT PLANING, ASPHALT CONCRETE, OPERATION. THIS MATERIAL WILL BE PLACED IN LIEU OF THE COMPACTED AGGREGATE. IF THE AMOUNT OF GRINDINGS MATERIAL IS NOT SUFFICIENT TO COVER THE COMPACTED AGGREGATE QUANTITY IN THIS PLAN, THEN ADDITIONAL MATERIAL MEETING SPECIFICATION 617 SHALL BE USED. ALL SPECIFICATIONS FOR ITEM 617 APPLY.

ITEM 209 - PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

PREPARE THE SHOULDER FOR PAVING A CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE PAVED ROADWAY, TO PROVIDE A LEVEL SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05, OR AS DIRECTED BY THE ENGINEER.

ITEM 642 - TRAFFIC PAINT

THE CONTRACTOR SHALL REPLACE THE EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS WITH NEW PAVEMENT MARKINGS AT THE SAME LOCATIONS AS PER CMS 641.06. SEE STANDARD DRAWINGS TC-71.10 AND TC-73.10 FOR PAVEMENT MARKING DETAILS.

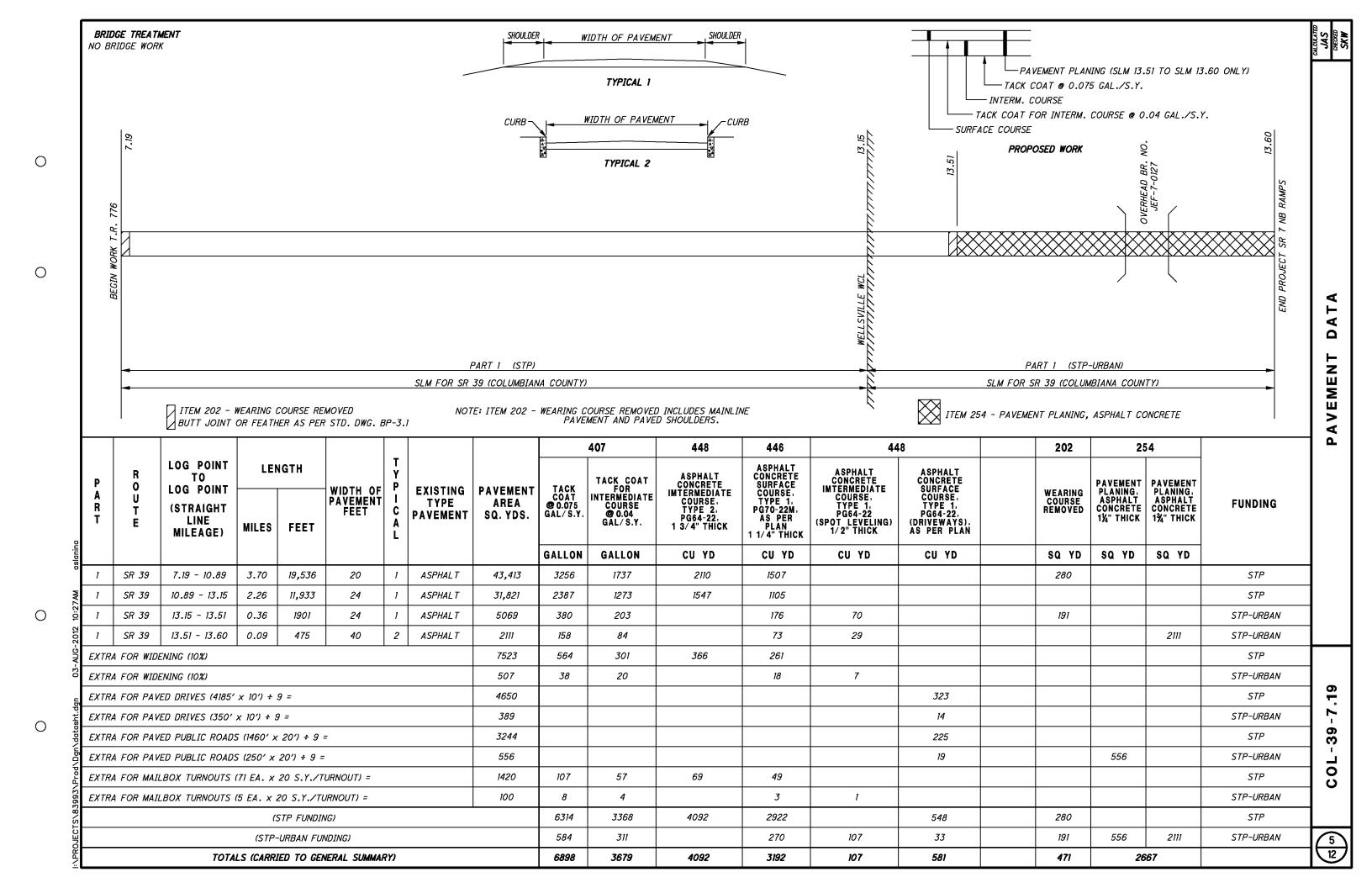
PROFILE AND ALIGNMENT

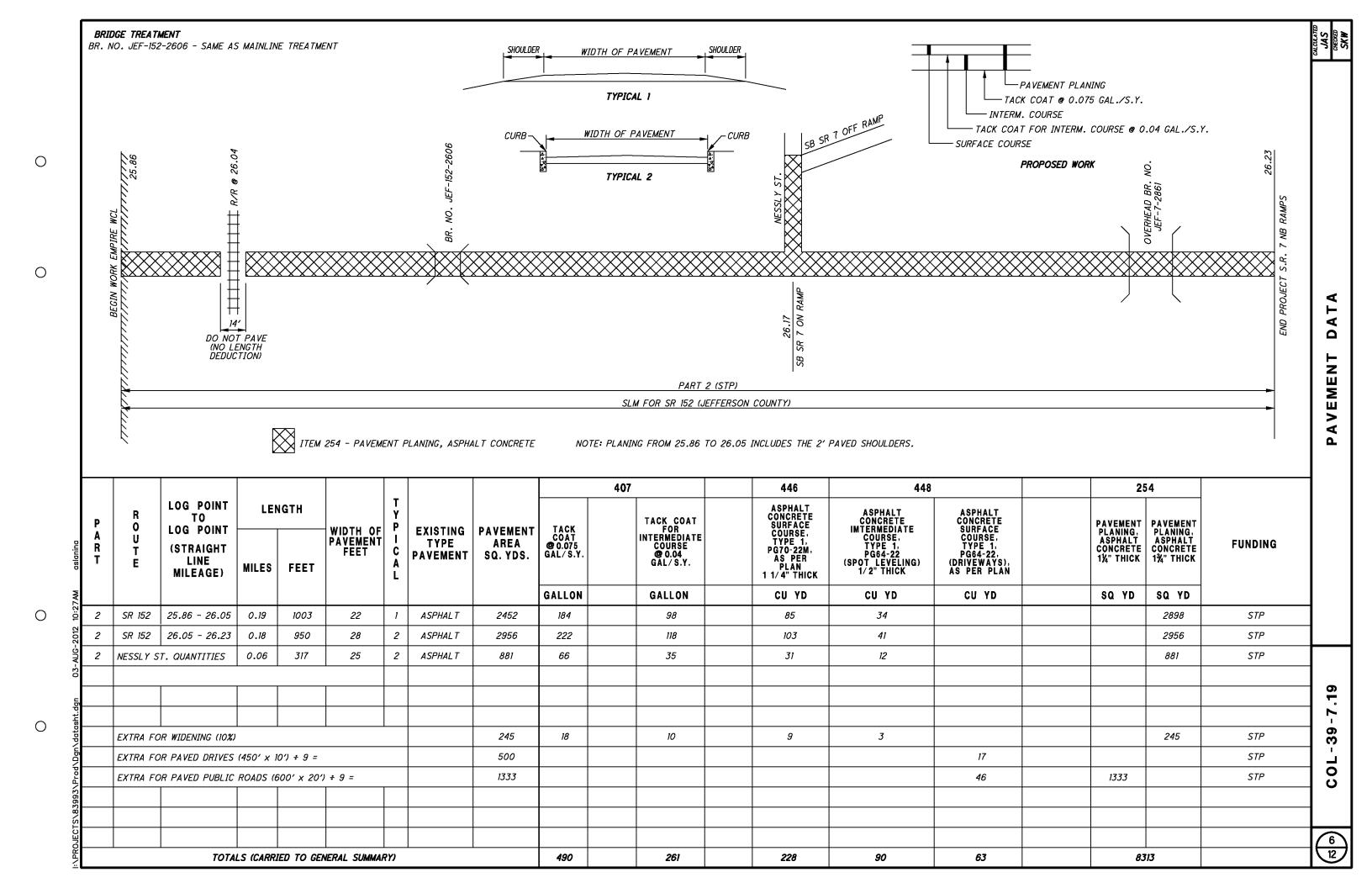
PLACE THE PROPOSED PAVEMENT TO FOLLOW THE PROFILE AND ALIGNMENT OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

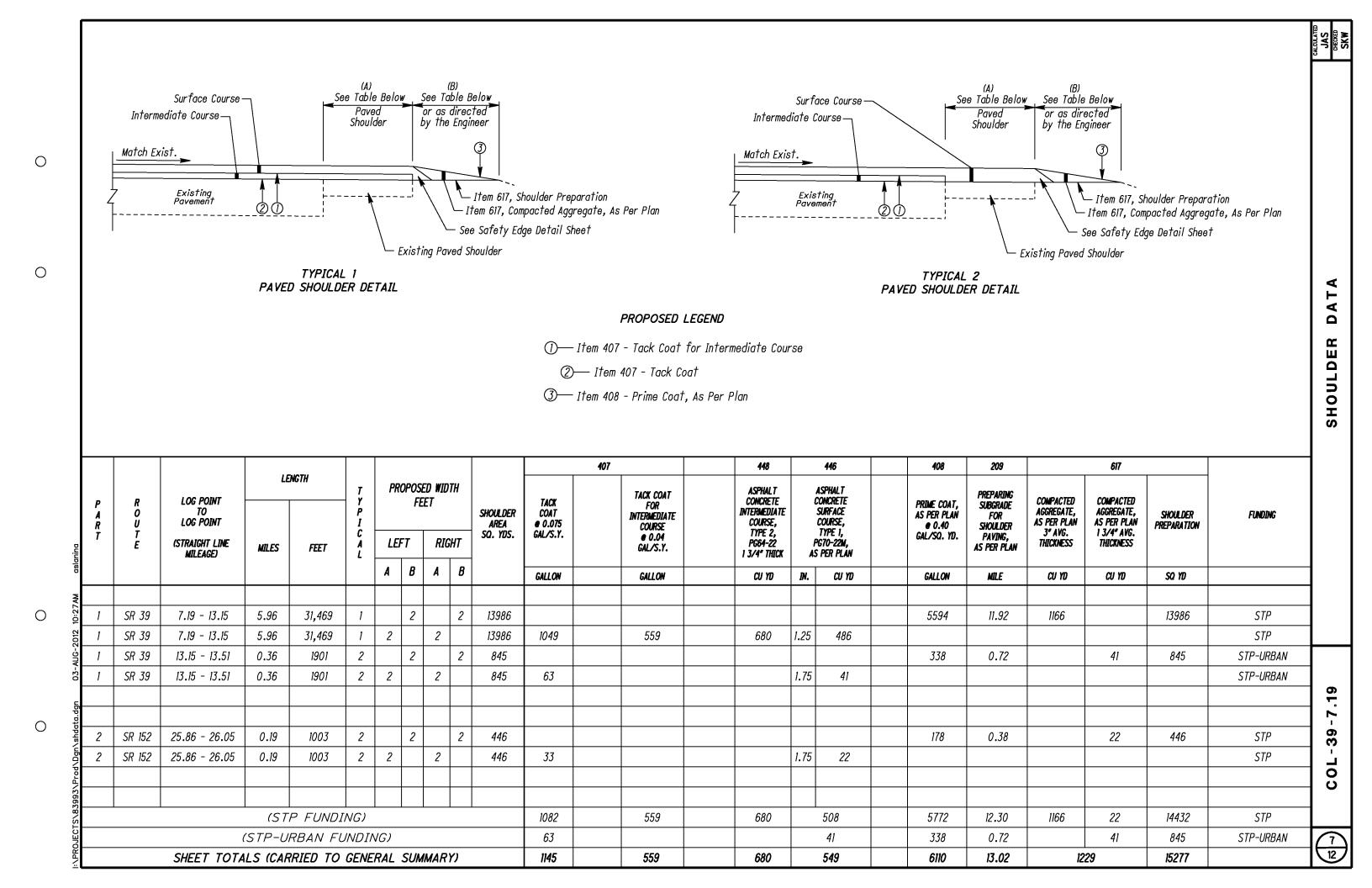
UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

		SHE	ET NUM	IBER			FUN	DING		ITEM	GRAND			SEE
2	5	6	7	8	9	12	STP	STP- URBAN	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	SEE
													ROADWAY	
	471		17.00				280	191	202	23500	471	SQ YD	WEARING COURSE REMOVED	7
			13.02				12.30	0.72	209	72051	13.02	WILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	3
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							900	100	832	30000	1000	EACH	EROSION CONTROL	
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			=											
	6898 3679	490 261	1145 559				7886 4188	647 311	407 407	10000 14000	8533 4499	GALLON GALLON	TACK COAT TACK COAT FOR INTERMEDIATE COURSE	
	3013	201	333				7100	3//	101	17000	7733	GALLON	TACK COAL FOR THE ENWEDTHE COURSE	
			6110				5772	338	408	10001	6110	GALLON	PRIME COAT, AS PER PLAN	3
	3192	228	549	134			3787	316	446	47029	4103	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG70-22M, AS PER PLAN	2
	107	90					90	107	448	46020	197	CU YD	ASPHALT CONCRETE INTERNEDIATE COURSE, TYPE I, PG64-22 (SPOT LEVELING)	2
	4092		680				4772		448	46050	4772	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
	581	63					611	33	448	48021	644	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22 (DRIVEWAYS), AS PER PLAN	2
			1229				1188	41	617	10101	1229	CU YD	COMPACTED AGGREGATE, AS PER PLAN	3
			15277				14432	845	617	20000	15277	SQ YD	SHOULDER PREPARATION	
													TRAFFIC CONTROL	
						788 788	788 788		62I 62I	00100 54000	788 788	EACH EACH	RPM RAISED PAVEMENT MARKER REMOVED	
						700	700		1 02/	37000	1 700	LACII	NAISED I AVERENT MAINEN NEMOVED	
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						6.82	6.37	0.45	642	00300	6.82	MILE	CENTER LINE, TYPE I	
						181	85	96	642	00500	181	FT	STOP LINE, TYPE I	
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116 14.14					1	1								
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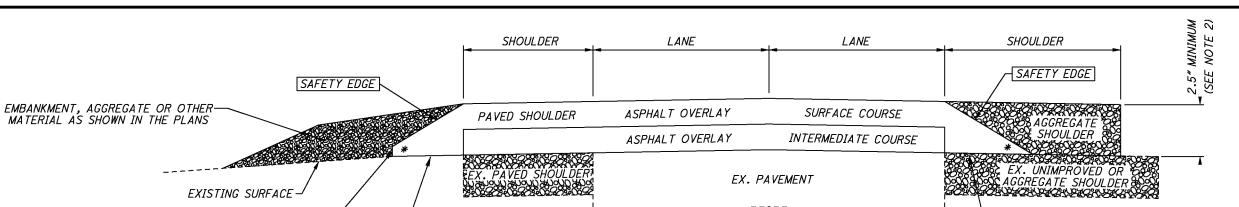
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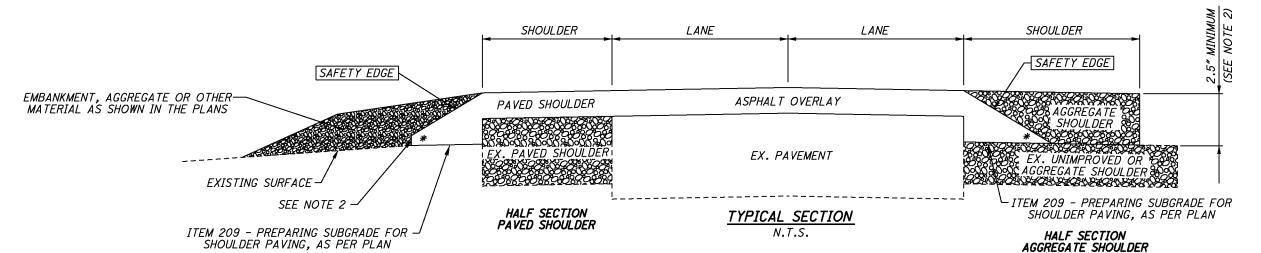
SEE NOTE 2 -/

ITEM 209 - PREPARING SUBGRADE FOR SHOULDER SHOULDER SHOULDER N.T.S.

TYPICAL SECTION

SHOULDER PAVING, AS PER PLAN

HALF SECTION AGGREGATE SHOULDER



SAFETY EDGE

IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAPE PAVEMENT EDGE OF APPROXIMATELEY 30 DEGREES (NOT STEEPER THAN 40 DEGREES). ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATE STRIKE OFF.

CONSTRUCTION OF SAFETY EDGE CAN BE OMITTED AT LOCATIONS WHERE EXISTING WIDTH OF GRADED SHOULDER OR BERM IS LESS THAN 12". PROJECTS WITH VARYING CONDITIONS SHOULD USE SAFETY EDGE WHERE POSSIBLE. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY POSSIBLE SAFETY EDGE LOCATIONS.

USE THE TRANSTECH SHOULDER WEDGE MAKER, THE CARSON SAFETY EDGE END GATE, THE ADVANT-EDGER, THE TROXLER SAFETSLOPE OR A SIMILAR APPROVED-EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAPE COMPACTION DEVICES IS THE FOLLOWING:

TRANSTECH SYSTEMS, INC. 1594 STATE STREET SCHENECTADY, NY 12304 1-800-724-6306 WWW.TRANSTECHSYS.COM

CARLSON SAFETY EDGE END GATE 18425 50TH AVENUE EAST TACOMA, WA 98446 253-875-8000 ADVANT-EDGE PAVING EQUIPMENT LLC P.O. BOX 9163 NISKAYUNA, NY 12309-0163 518-280-6090 WWW.ADVANTEDGEPAVING.COM

TROXLER ELECTRONIC LABORATORIES, INC. 3008 E. CORNWALLIS RD. RESEARCH TRIANGLE PARK, NC 27709 1-877-TROXLER WWW.TROXLERLABS.COM

IF ELECTING TO USE A SIMILAR DEVICE, PROVIDE PROOF THAT THE DEVICE HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR CONSTRUCT A TEST SECTION PRIOR TO THE BEGINNING OF WORK AND DEMONSTRATE WEDGE COMPACTION TO THE SATISFACTION OF THE ENGINEER. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES (200 TO 300 MM) AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.

NOTES:

- 1.) SAFETY EDGES ARE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED ROADWAY (EDGE OF TRAVEL LANE OR EDGE OF PAVED SHOULDER).
- 2.) CONSTRUCT THE SAFETY EDGE THE FULL ASPHALT CONCRETE OVERLAY THICKNESS OR 2.5" (63MM) WHICHEVER IS GREATER, NOT TO EXCEED THE MAXIMUM SAFETY EDGE THICKNESS OF 6" (150MM). CONSTRUCT A NEAR-VERTICAL FACE BELOW THE SAFETY EDGE FOR THICKNESS GREATER THAN 6" (150MM).
- 3.) BLADE AND SHAPE EXISTING SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE SAFETY EDGE PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE OVERLAY.
- * 40° MAX.

ITEM 446 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG70-22M, AS PER PLAN

(PART 1) 0.054 S.F. x (31,469' x 2 SIDES) ÷ 27 = 126 CU. YD. (STP) (PART 1) 0.038 S.F. x (1901' x 2 SIDES) ÷ 27 = 5 CU. YD. (STP-URBAN) (PART 2) 0.038 S.F. x (1003' x 2 SIDES) ÷ 27 = 3 CU. YD. (STP)

134 CU. YD. TOTAL

(TOTAL CARRIED TO THE GENERAL SUMMARY)

NOTE: AVERAGE OF 0.054 SQ. FT. IS BASED ON A TOTAL ASPHALT OVERLAY THICKNESS OF 3" AND A 30" ANGLE FOR THE SAFETY EDGE.
(SLM 7.19 TO 13.15) PART 1 (STP)

NOTE: AVERAGE OF 0.038 SQ. FT. IS BASED ON THE MINIMUM
THICKNESS OF 2.5" AND A 30° ANGLE FOR THE SAFETY EDGE.
(SLM 13.15 TO 13.51) PART 1 (STP-URBAN) (SLM 25.86 TO 26.05) PART 2 (STP)

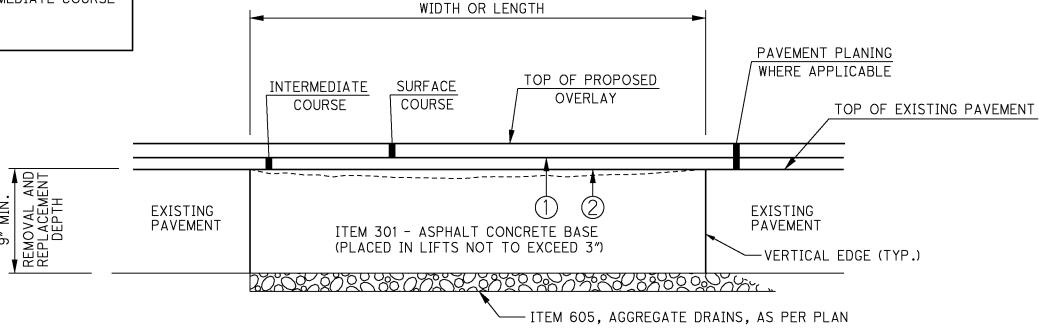


- ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ITEM 407, TACK COAT

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PAVEMENT REPAIR TYPICAL

ITEM 253 - PAVEMENT REPAIR

THIS ITEM SHALL MEET THE REQUIREMENTS OF ITEM 253, PAVEMENT REPAIR, AND THE ABOVE TYPICAL SECTION.

THE ESTIMATED QUANTITIES ARE TO BE CONSIDERED APPROXIMATE. A FINAL FIELD REVIEW WILL BE PERFORMED BY ODOT PRIOR TO CONSTRUCTION AND FINAL LOCATIONS WILL BE GIVEN TO THE CONTRACTOR PRIOR TO CONSTRUCTION.

IF NEEDED, AN AGGREGATE DRAIN, AS PER PLAN SHALL BE INSTALLED IN ACCORDANCE WITH CMS 605.07.

ALL PAVEMENT REPAIRS ARE TO BE COMPLETED PRIOR TO THE PAVING OPERATIONS.

THE ESTIMATED QUANTITIES FROM THIS SHEET HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. FINAL PAYMENT FOR THESE ITEMS SHALL BE FOR THE ACCEPTED QUANTITY COMPLETED IN PLACE.

ITEM 605 - AGGREGATE DRAINS, AS PER PLAN

THIS ITEM SHALL BE USED TO CONSTRUCT AGGREGATE DRAINS IN CONJUCTION WITH ITEM 253, PAVEMENT REPAIR, AND SHALL MEET THE REQUIREMENTS OF ITEM 605, AGGREGATE DRAINS, EXCEPT THAT AGGREGATE SHALL BE NO. 57 SIZE GRAVEL.

ESTIMATED QUANTITIES

PART 1, ITEM 253 . . . PAVEMENT REPAIR - 268 CU YD (STP)

PART 1, ITEM 253 . . . PAVEMENT REPAIR - 7 CU YD (STP-URBAN)

PART 2, ITEM 253 . . . PAVEMENT REPAIR - 7 CU YD (STP) 282 CU YD TOTAL

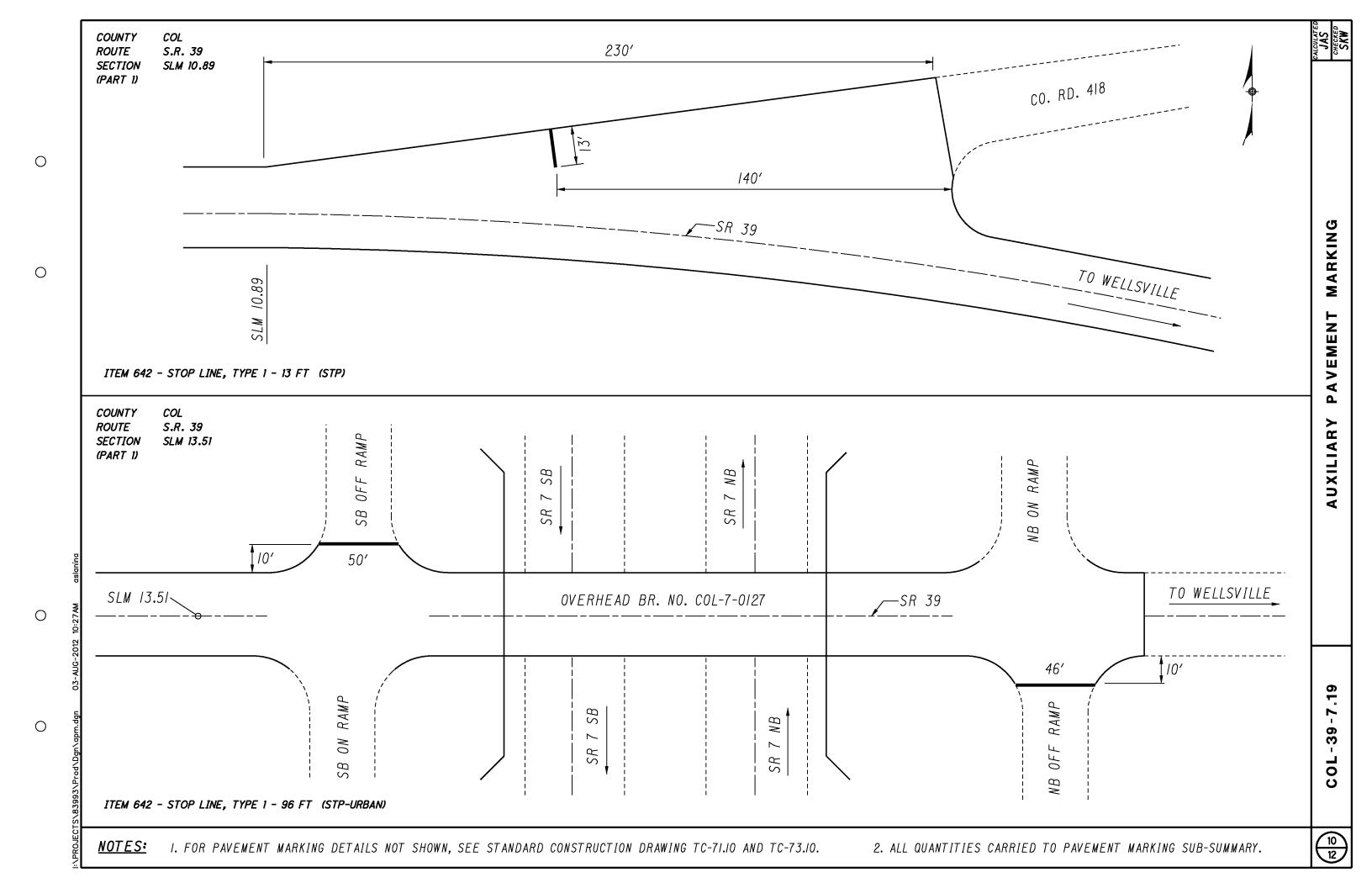
PART 1, ITEM 605 . . . AGGREGATE DRAINS, AS PER PLAN - 536 FT (STP)

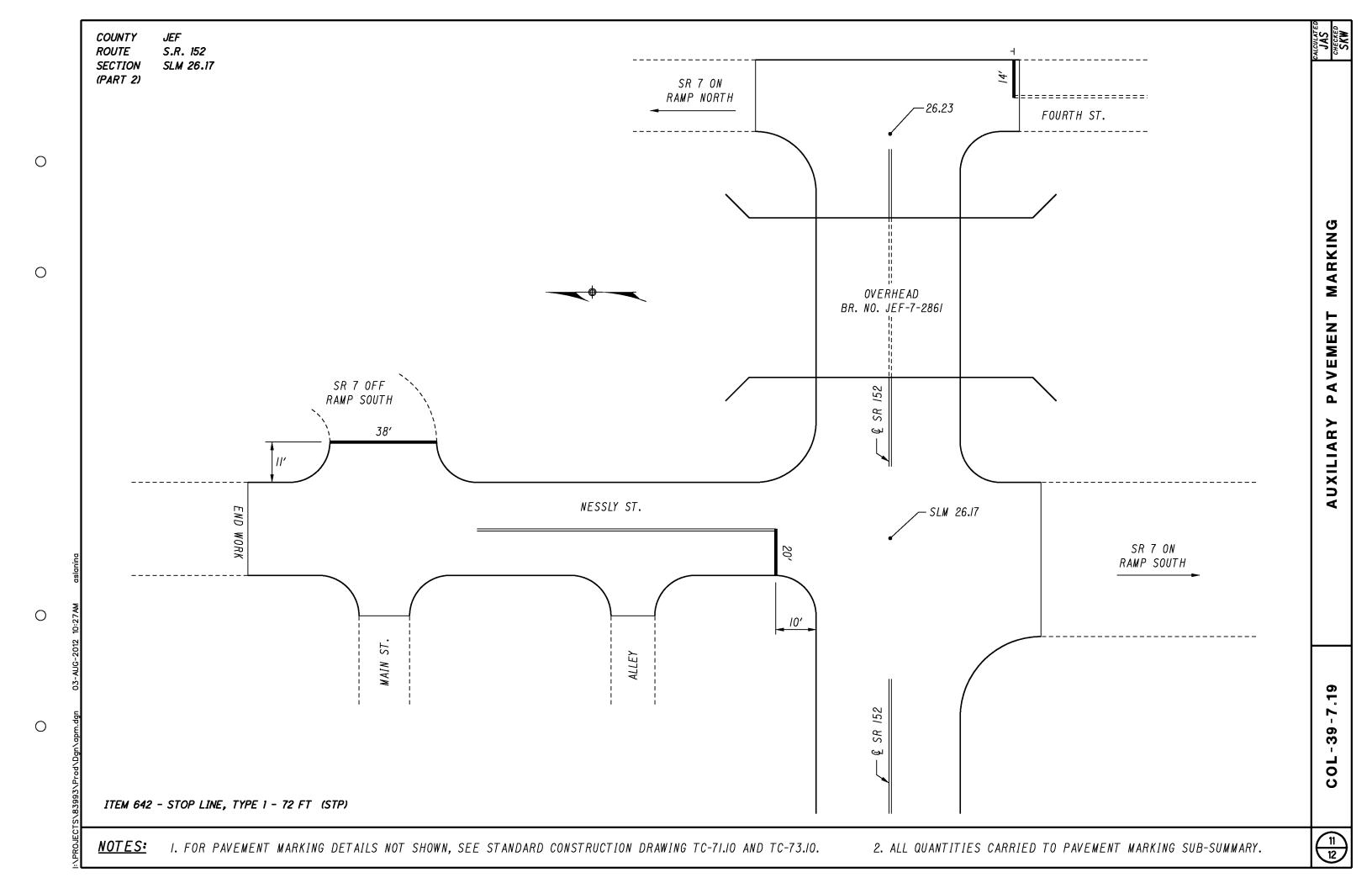
PART 1. ITEM 605 . . . AGGREGATE DRAINS. AS PER PLAN - 14 FT (STP-URBAN)

PART 2, ITEM 605 . . . AGGREGATE DRAINS, AS PER PLAN - 14 FT (STP)

564 FT TOTAL

(TOTALS CARRIED TO GENERAL SUMMARY)





							621			6	342			
P	CO	R				PAICED	F	RPM				PATI POAD		
, A R T	U N T Y	O U T E	S	SLM	SPACING	RAISED PAVEMENT MARKER REMOVED	YEL YEI	LLOW/	EDGE LINE, 4", TYPE i	CENTER LINE, TYPE 1	STOP LINE, TYPE 1	RAILROAD SYMBOL MARKING, TYPE 1	FUNDING	REMARKS
			FROM	то	FT	EACH	E	ACH	MILE	MILE	FT	EACH		
1	COL	SR 39	7.19	13.15	40	788		788	11.92	5.96	13		STP	
1	COL	SR 39	13.15	13.51					0.72	0.36			STP-URBAN	
1	COL	SR 39	13.51	13.60						0.09	96		STP-URBAN	
								+						
2	JEF	SR 152	25.86	26.05					0.38	0.19		2	STP	R/R SYMBOLS @ SLM 25.90 AND SLM 26.16
2	JEF	SR 152	26.07	26.23						0.16	34		STP	
2	JEF	EXTF	RA FOR NESS	ELY ST.						0.06	38		STP	
			TOTAL FOR			788		788	12.30	6.37	85	2	STP	
	SHEL	ET SUB-TOI	TAL FOR STP	-URBAN FUN	DING				0.72	0.45	96		STP-URBAN	
	TOT	ALS (CARRI	ED TO GENEF	RAL SUMMAR	Y)	788		788	13.02	6.82	181	2		

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