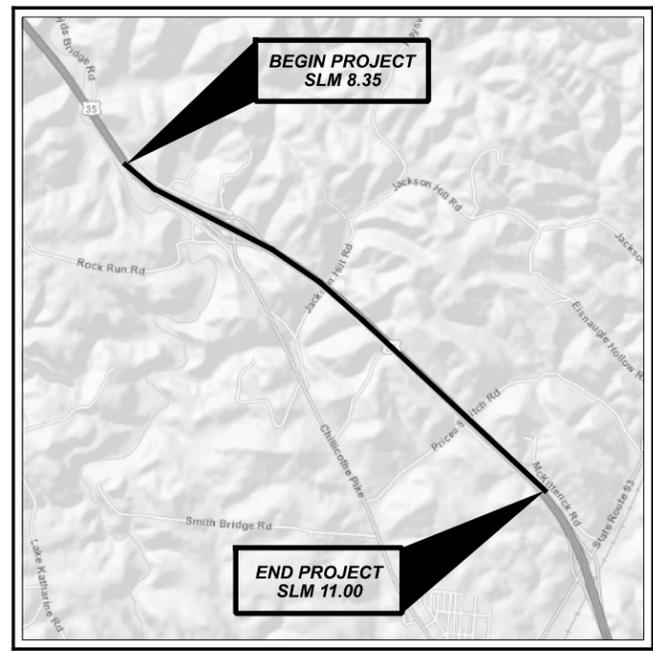


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

JAC-35-8.35

LIBERTY TOWNSHIP
COAL TOWNSHIP
LICK TOWNSHIP
JACKSON COUNTY



LOCATION MAP

LATITUDE: 39°05'26.99" LONGITUDE: -82°39'00.97"

PORTION TO BE IMPROVED	—————	=====
INTERSTATE HIGHWAY	—————	=====
FEDERAL ROUTES	—————	=====
STATE ROUTES	—————	=====
COUNTY & TOWNSHIP ROADS	—————	=====
OTHER ROADS	—————	=====

DESIGN DESIGNATION

CURRENT ADT (2022)	15,500
DESIGN YEAR ADT (2042)	19,500
DESIGN HOURLY VOLUME (2042)	2,300
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	28%
DESIGN SPEED	60 MPH
LEGAL SPEED	60 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
02- OTHER FREEWAY AND EXPRESSWAY	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO 811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 9

ENGINEER'S SEAL:

SIGNED: _____
DATE: _____

INDEX OF SHEETS:

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STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/21/22	TC-82.10	7/19/19	800-2019	7/15/22		
BP-6.1	7/19/13			807	1/21/22		
BP-9.1	1/18/19			808	1/18/19		
				841	4/20/12		
				832	7/15/22		
				850	3/16/21		
MT-95.30	7/19/19			897	1/16/15		
MT-95.45	1/17/20			905	4/17/20		
MT-95.50	7/21/17			908	10/20/17		
MT-98.10	1/17/20			921	4/20/12		
MT-98.20	4/19/19						
MT-98.29	1/17/20						
MT-99.20	4/19/19						
MT-104.10	10/16/15						
TC-65.10	1/17/14						
TC-65.11	7/21/17						
TC-72.20	7/20/18						

FEDERAL PROJECT NUMBER

E220119

RAILROAD INVOLVEMENT

None

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RESURFACING 2.65 MILES OF USR 35 FROM SLM 8.35 TO SLM 11.00 IN BOTH DIRECTIONS INCLUDING INTERCHANGE RAMPS WITH A DOUBLE MICRO-SURFACE IN ADDITIONAL TO BRIDGE JOINT REPAIR AND SEALING OF CONCRETE SURFACES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)*
	*ROUTINE MAINTENANCE PROJECT

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

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

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

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY	
DESIGNER	
REVIEWER	
EMB	
REVIEWER	
DMB	
PROJECT ID	
114766	
SHEET	TOTAL
P.1	P.13

JAC-35-8.35

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 9/30/2022 TIME: 9:14:32 AM USER: ebseny pwc\ohiodot-pw-bentley.com\shahid-pw-02\Documents\01 Active Projects\District 09\Jackson\114766\00-Engineering\Roadway\Sheets\114766_G1001.dgn

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
 - THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR
 - OTHER LOCATION AS APPROVED BY THE ENGINEER.
- THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (cont'd)

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 30 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, WORK ZONE MARKING SIGN

6 EACH

ITEM 614, WORK ZONE LANE LINE, CLASS III

15.9 MILE

ITEM 614, WORK ZONE STOP LINE, CLASS III

366 FEET

ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS III

6018 FEET

ITEM 614, WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE 1

0.55 MILE

ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 740.06, TYPE 1

2880 FEET

DESIGN AGENCY



DESIGNER

EMB

REVIEWER

DMB

PROJECT ID

114766

SHEET TOTAL

P.6 P.13

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	9	3	4	5	6	8	9	10	13		01/NHS/PV	02/NHS/BR						
											1,000		832	30000	1,000	EACH	EROSION CONTROL	
																	PAVEMENT	
		1,000									1,000		251	01021	1,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN	3
		1,440									1,440		253	01001	1,440	SY	PAVEMENT REPAIR, AS PER PLAN	3
126,818						126,818					126,818		421	10020	126,818	SY	MICROSURFACING, LEVELING COURSE	
126,818						126,818					126,818		421	10010	126,818	SY	MICROSURFACING, SURFACE COURSE	
		150									150		617	10100	150	CY	COMPACTED AGGREGATE	
10.46						10.46					10.46		618	40600	10.46	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
3,343						3,343					3,343		897	01011	3,343	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, AS PER PLAN 0.75"	3
		669									669		897	02000	669	SY	PATCHING PLANED SURFACE	
																	TRAFFIC CONTROL	
													487	00100	487	EACH	RPM	
													487	54000	487	EACH	RAISED PAVEMENT MARKER REMOVED	
	122												122	00500	122	FT	STOP LINE	
	18.68												18.68	30030	18.68	MILE	REMOVAL OF PAVEMENT MARKING	
	0.34												0.34	12010	0.34	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
	0.17												0.17	12110	0.17	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
	12												12	14010	12	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
	5.21												5.21	14110	5.21	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
	2,006												2,006	14310	2,006	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
	2,919												2,919	14410	2,919	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
	17.21												17.21	10010	17.21	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
	2,006												2,006	10130	2,006	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
	0.51												0.51	20010	0.51	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
																	STRUCTURE OVER 20 FOOT SPAN (JAC-35-0959L, SFN: 4000226)	
									40			40	516	14600	40	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: X.J.S EXPANSION JOINT SYSTEM	12
									2			2	519	12304	2	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
									40			40	516	14600	40	FT	STRUCTURE OVER 20 FOOT SPAN (JAC-35-0959R, SFN: 400234)	
																	STRUCTURAL JOINT OR JOINT SEALER, MISC.: X.J.S. EXPANSION JOINT SYSTEM	12
									41			41	512	10300	41	SY	STRUCTURE OVER 20 FOOT SPAN (JAC-35-1049L, SFN: 4000250)	
									813			813	512	10400	813	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
									10			10	519	12304	10	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS	
																	PATCHING CONCRETE BRIDGE DECK - TYPE C	
									41			41	512	10300	41	SY	STRUCTURE OVER 20 FOOT SPAN (JAC-35-1049R, SFN: 4000269)	
									813			813	512	10400	813	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
									2			2	519	12304	2	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS	
																	PATCHING CONCRETE BRIDGE DECK - TYPE C	
																	MAINTENANCE OF TRAFFIC	
					30								30	11110	30	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					6								6	12460	6	EACH	WORK ZONE MARKING SIGN	
				14									14	12484	14	EACH	WORK ZONE INCREASED PENALTIES SIGN	
				6									6	18600	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
					15.9								15.9	20560	15.9	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
					0.55								0.55	22210	0.55	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
					6,018								6,018	23690	6,018	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
					2,380								2,380	24402	2,380	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I	
					366								366	26610	366	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
			30										30	18700	30	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
													LS	11000	LS		INCIDENTALS	
													LS	10000	LS		MAINTAINING TRAFFIC	
													LS	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
EMB

REVIEWER
DMB

PROJECT ID
114766

SHEET TOTAL
P.7 P.13

DETAIL	STANDARD DRAWING TC-65.10
1	EDGE LINE
2	CHANNELIZING LINE
3	LANE LINE
4	CENTER LINE

DETAIL	STANDARD DRAWING TC-65.11
5	ENTRANCE RAMP
6	EXIT RAMP
7	4 LANE DIVIDED TO 2 LANE TRANSITION
8	4 LANE UNDIVIDED TO 2 LANE TRANSITION
9	MULTILANE DIVIDED HIGHWAY

DETAIL	STANDARD DRAWING TC-65.11
10	APPROACH W/ LEFT TURN LANE
11	STOP APPROACH
12	TWO WAY LEFT TURN LANE
13	ONE LANE BRIDGE
14	HORIZONTAL CURVE

L O C A T I O N	S L M	S L M	L E N G T H	L E N G T H	D I R E C T I O N	D E T A I L	REFLECTOR TYPE							621		REMARKS	
							ONE WAY			TWO WAY				RPM	RAISED PAVEMENT MARKER REMOVED		
							WHITE	YELLOW		WHITE/ RED	YELLOW/ YELLOW	YELLOW/ RED					
	MILE	MILE	MILE	FT			LANE LINE	EDGE LINE	EDGE LINE	CHANNELIZING LINE	RAMP	CENTERLINE	RAMP	EACH	EACH		
							80'	80'	80'	40'	80'	40'	80'	40'	80'	80'	
US-35 EB	8.3500	8.7770	0.4270	2,254.56	EB	3	30										
	8.7770	8.9320	0.1550	818.40	EB	3,6	12			11							
	8.9320	9.2670	0.3350	1,768.80	EB	3	24										
	9.2670	9.4870	0.2200	1,161.60	EB	3,5	16			9							
	9.4870	9.5820	0.0950	501.60	EB	3	8										
	9.5820	9.6270	0.0450	237.60	EB	3											STRUCTURE JAC-35-0959R
	9.6270	10.4880	0.8610	4,546.08	EB	3	58										
	10.4880	10.5180	0.0300	158.40	EB	3											STRUCTURE JAC-35-1049R
	10.5180	11.0000	0.4820	2,544.96	EB	3	33										
US-35 WB	8.3500	8.6140	0.2640	1,393.92	WB	3	19										
	8.6140	8.8240	0.2100	1,108.80	WB	3,5	15			10							
	8.8240	9.2400	0.4160	2,196.48	WB	3	29										
	9.2400	9.3900	0.1500	792.00	WB	3,6	11			9							
	9.3900	9.5700	0.1800	950.40	WB	3	13										
	9.5700	9.6100	0.0400	211.20	WB	3											STRUCTURE JAC-35-0959L
	9.6100	10.4760	0.8660	4,572.48	WB	3	59										
	10.4760	10.5120	0.0360	190.08	WB	3											STRUCTURE JAC-35-1049L
	10.5120	11.0000	0.4880	2,576.64	WB	3	34										
US 35/CR 84																	
RAMP A	0.0000	0.2265	0.2265	1,195.92	WB	5							16	16	16		
RAMP B	0.0000	0.1958	0.1958	1,033.82	WB	6,11				11	5		14	30	30		
RAMP C	0.0000	0.2032	0.2032	1,072.90	EB	6,11				11	5		14	30	30		
RAMP D	0.0000	0.1441	0.1441	760.85	EB	5							11	11	11		
TOTALS THIS SHEET														487	487		
TOTALS CARRIED TO GENERAL SUMMARY														487	487		

RPM CALCULATIONS

JAC-35-8.35

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 9/30/2022 TIME: 9:15:05 AM USER: ebeeny pvc\vhobol-pw-bentley.com\shobol-pw-02\Documents\01 Active Projects\Distrid 09\Jackson\114766\00-Engineering\Roadway\Sheets\114766_GC003.dgn

DESIGN AGENCY



DESIGNER
EMB

REVIEWER
DMB

PROJECT ID
114766

SHEET TOTAL
P.10 | P.13