

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

RESURFACE A PORTION OF IR71 IN HAMILTON AND WARREN CO. INCLUDING 275 INTERCHANGE RAMP, 1.5" MILL FILL, PAVEMENT MARKINGS, RPM REMOVAL & INSTALLATION AND PAVEMENT REPAIR. WET REFLECTIVE/GROOVING FOR LONG LINE PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 1.6 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.

HAM-71-16.66
HAMILTON COUNTY
WARREN COUNTY

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LOCATION MAP
SEE SHEETS 2-3

LATITUDE: 39°29'33" LONGITUDE: -84°31'60"

DESIGN DESIGNATION _____ NONE

NHS PROJECT _____ NO

TRAFFIC DATA

		HAM-71				
		16.14-17.22	17.22-18.08	18.08-19.40	19.40-19.65	19.65-19.91
ADT	2022	126,000	129,000	132,000	134,000	105,000
ADT	2034	129,000	135,000	149,000	156,000	122,000
K		0.09	0.1	0.1	0.1	0.1
DHV		*11,500	13,500*	*15,000	15,500*	12,000
D		55%	56%	53%	52%	52%
T24		11.00%	12.00%	11.00%	11.00%	8.00%

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
THE OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 ENGINEERING
505 S. SR 741
LEBANON, OH 45036

ENGINEERS SEAL:



SIGNED: *[Signature]*
DATE: 5/10/2021

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	01/17/20	MT-104.10	10/16/15
BP-9.1	1/18/19	MT-105.10	1/17/20
MT-95.30	7/19/19	TC-65.10	1/17/14
MT-95.31	7/19/19	TC-65.11	7/21/17
MT-95.50	7/21/17	TC-71.10	1/19/18
MT-98.10	1/17/20	TC-72.20	7/20/18
MT-98.11	1/17/20		
MT-98.20	4/19/19		
MT-98.21	1/17/20		
MT-98.22	1/17/20		
MT-98.28	1/17/20		
MT-98.29	1/17/20		
MT-98.30	7/19/19		
MT-99.20	4/19/19		
MT-101.90	7/21/17		

SUPPLEMENTAL SPECIFICATIONS

800-2019	4/16/21
808	1/18/19
821	4/20/12
832	10/19/18
875	1/18/19
908	10/20/17
921	4/20/12
807	7/17/20
850	1/15/21

SPECIAL PROVISIONS

I HEREBY APPROVED 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 AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED *Tammy K Campbell*
DATE 5-10-2021 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.
E191388

PID NO.
96691

CONSTRUCTION PROJECT NO.
.

RAILROAD INVOLVEMENT
NONE

HAM-71-16.66

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ITEM 614- MAINTAINING TRAFFIC

ALL LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE TIMES NOTE, BY USE OF THE EXISTING PAVEMENT AND COMPLETED PAVEMENT.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPT. OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THESE PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

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

- CHRISTMAS FOURTH OF JULY
- NEW YEAR S LABOR DAY
- MEMORIAL DAY THANKSGIVING
- EASTER

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS 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 HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM
FRIDAY	12:00N WEDNESDAY THROUGH 6:00 AM
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM
MONDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$330 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

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.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & CLOSURE	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD CLOSURE	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES TO CLOSURE	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE ROAD WORK NEXT XX MILES (G20-1) SIGN AND END ROAD WORK (G20-2) SIGN SHALL BE INSTALLED AT THE PROJECT LIMITS IN ADVANCE OF THE TTC ZONE. THE DISTANCE DISPLAYED ON THE ROAD WORK NEXT XX MILES SIGN SHALL BE STATED TO THE NEAREST WHOLE MILE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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.

FLOODLIGHTING
 FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC (PLAN NOTE 642-2).

LANE VALUE CONTRACT TABLE

DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
ALL LANES OPEN TO TRAFFIC	SEE PERMITTED LANE CLOSURE SCHEDULE	1 MINUTE PERIOD	\$330
ALL RAMPS OPEN TO TRAFFIC	5 AM - 10 PM	1 MINUTE PERIOD	\$330

1. THE PERMITTED LANE CLOSURE SCHEDULE IS LOCATED ON THE ODOT WEBSITE [HTTP://PLCM.DOT.STATE.OH.US/](http://plcm.dot.state.oh.us/). THE LATEST REVISION, 14 DAYS PRIOR TO THE BID, SHALL BE IN EFFECT FOR THIS PROJECT.
2. MAINTAIN A MINIMUM OF 1 LANE ON ALL ENTRANCE AND EXIT RAMPS AT ALL TIMES; REDUCED RAMP WIDTHS, MAINTAINING 1 LANE ARE PERMITTED DURING THE TIMES ALLOWED FOR A LANE CLOSURE SPECIFIED IN THE PERMITTED LANE CLOSURE SCHEDULE.
3. ALL RAMPS MAY BE CLOSED A MAXIMUM OF 2 TIMES EACH. ONLY ONE RAMP MAY BE CLOSED AT A TIME. PROVIDE A PCMS AT THE CLOSED RAMP DIRECTING TRAFFIC TO THE NEXT LOGICAL EXIT. PROVIDE A SECOND PCMS AT THAT LOCATION TO CONFIRM THE DETOUR AND TO PROVIDE THE INFORMATION NECESSARY TO RETURN MOTORISTS TO THEIR ORIGINAL DIRECTION OF TRAVEL.

PERMITTED LANE CLOSURE TIMES
 SHORT TERM LANE CLOSURES ARE THOSE WHICH ARE PERMITTED BY THE PERMITTED LANE CLOSURE NOTE. THESE TIMES SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM THE DISTRICT 8 WORK ZONE TRAFFIC CONTROL MANAGER. SHORT TERM LANE CLOSURES SHALL ONLY BE IMPLEMENTED WHEN WORK IS BEING CONTINUOUSLY PERFORMED IN THE LANE. THE CLOSURE SHALL BE REMOVED AS SOON AS POSSIBLE AFTER WORK HAS STOPPED. PERMITTED LANE CLOSURES SHALL ONLY BE ALLOWED DURING THE TIMES SPECIFIED IN THE LANE VALUE CONTRACT TABLE INCLUDED IN THESE PLANS. NO LANE OR SHOULDER CLOSURE SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED.

PROJECT START DATE
 WORK IMPACTING TRAFFIC CAN NOT BEGIN BEFORE 4/11/2022.

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 OMTUCD INTENDS THAT FLAGGERS BE USED.

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

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMTUCD, 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).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED. 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.

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 1000 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.

ITEM 614- WORK ZONE MARKINGS (WZ)

THE CONTRACTOR SHALL PLACE ALL WORK ZONE PAVEMENT MARKINGS OR PERMANENT MARKINGS UPON COMPLETION OF THE ASPHALT SURFACE COURSE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

- ITEM 614-WZ LANE LINE 6", CLASS I, 642 PAINT - 18.26 MILES
- ITEM 614-WZ EDGE LINE 6", CLASS I, 642 PAINT - 20.54 MILES
- ITEM 614-WZ CHANNELIZING LINE 12", CLASS I, 642 PAINT - 12,377 FT
- ITEM 614-WZ DOTTED LINE 6", CLASS I, 642 PAINT - 2565 FT
- ITEM 614-WZ DOTTED LINE 12", CLASS I, 642 PAINT - 4718 FT
- ITEM 614-WZ TRANSVERSE LINE, CLASS III, 642 PAINT - 1,033 FT
- ITEM 614-WZ CHEVRON, CLASS III, 642 PAINT - 2000 FT

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	7	9	10						01/IMS/PV	EXT	TOTAL				
EROSION CONTROL																	
											1,000	832	30000	1,000	EACH	EROSION CONTROL	
DRAINAGE																	
2											2	611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE	
PAVEMENT																	
800											800	253	02000	800	CY	PAVEMENT REPAIR, (A)	
8											8	253	02000	8	CY	PAVEMENT REPAIR, (B)	
120											120	253	02000	120	CY	PAVEMENT REPAIR, (C)	
	1,500				332,270						333,770	254	01000	333,770	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
	500										500	254	01000	500	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE	
	665										665	254	01010	665	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 1.5"	
				3,329							3,329	254	01600	3,329	SY	PATCHING PLANED SURFACE	
	48										48	407	13900	48	GAL	TACK COAT, 702.13	
	160				29,905						30,065	407	20000	30,065	GAL	NON-TRACKING TACK COAT	
	240										240	409	30001	240	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS, AS PER PLAN	
				9,179							9,179	442	00100	9,179	CY	ANTI-SEGREGATION EQUIPMENT	
84				11,565							11,649	442	10301	11,649	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, (A), PG 76-22M	
				2,280							2,280	442	10301	2,280	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, (B), PG 76-22M	
42											42	442	20000	42	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), VARIABLE	
				301							301	617	10100	301	CY	COMPACTED AGGREGATE	
				5,734							5,734	617	20000	5,734	SY	SHOULDER PREPARATION	
				7							7	617	25000	7	MGAL	WATER	
				13							13	618	40600	13	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
WATER WORK																	
2											2	638	10800	2	EACH	VALVE BOX ADJUSTED TO GRADE	
TRAFFIC CONTROL																	
	1,415										1,415	621	00100	1,415	EACH	RPM	
	1,415										1,415	621	54000	1,415	EACH	RAISED PAVEMENT MARKER REMOVED	
				1,033							1,033	644	00700	1,033	FT	TRANSVERSE/DIAGONAL LINE	
				2,000							2,000	644	00720	2,000	FT	CHEVRON MARKING	
				2							2	644	01350	2	EACH	LANE REDUCTION ARROW	
				0.8							0.8	807	12010	0.8	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
				0.78							0.78	807	12110	0.78	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
				20.54							20.54	807	14010	20.54	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
				18.26							18.26	807	14110	18.26	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
				12,377							12,377	807	14310	12,377	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
				2,565							2,565	807	14410	2,565	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
				4,718							4,718	807	14430	4,718	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12"	
				38.8							38.8	850	10010	38.8	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
				2,565							2,565	850	10110	2,565	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
				17,095							17,095	850	10130	17,095	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
				1.58							1.58	850	20010	1.58	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
MAINTENANCE OF TRAFFIC																	
		1,000									1,000	614	11110	1,000	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		18.26		14							14	614	18601	14	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
		20.54									20.54	614	20110	20.54	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
		12,377									12,377	614	22110	12,377	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
											12,377	614	23210	12,377	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
		2,565									2,565	614	24202	2,565	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
		4,718									4,718	614	24208	4,718	FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT	
		1,033									1,033	614	25620	1,033	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
		2,000									2,000	614	98100	2,000	FT	WORK ZONE PAVEMENT MARKING, MISC.:WORK ZONE CHEVRON LINE, CLASS III, 642 PAINT	
				28							28	808	18700	28	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	

GENERAL SUMMARY

HAM-71-16.66

CALCULATED	WJH	CHECKED	JDO
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SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	7	9	10								01/IMS/PV		EXT	TOTAL			
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
												LS	623	10001	LS			CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	4
												LS	624	10000	LS			MOBILIZATION	

CALCULATED	WVH	CHECKED	JDO
	GENERAL SUMMARY		
HAM - 71 - 16 . 66			
8 A			
10			

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COUNTY-ROUTE	LOG POINT (MILE)		TOTAL MILE	807 & 850				807 & 850				REMARKS: EPOXY ITEM IS TO BE USED ON CONCRETE BRIDGE DECKS.		
				EDGE LINE 6" THERMOPLASTIC		LANE LINE 6" THERMOPLASTIC		DOTTED LINE THERMOPLASTIC		EDGE LINE 6" EPOXY			LANE LINE 6" EPOXY	
				WHITE	YELLOW	DASHED		6"	12"	WHITE	YELLOW		DASHED	
FROM	TO	MILE	MILE	MILE	MILE	FT	FT	MILE	MILE	MILE				
HAM-71-NB	16.66	19.91	3.25	3.25	3.25	8.2		3745	0.11	0.11	0.27			
HAM-71-SB	16.66	19.91	3.25	3.25	3.25	8.8	2565	973	0.11	0.11	0.27			
WAR-71-NB	0.00	0.16	0.16	0.16	0.16	0.32			0.06	0.06	0.12			
WAR-71-SB	0.00	0.16	0.16	0.16	0.16	0.32			0.06	0.06	0.12			
RAMP A				0.73	0.73									
RAMP B				0.32	0.32									
RAMP C				0.5	0.5									
RAMP D				0.43	0.43	0.2			0.06	0.06				
RAMP E				0.43	0.43	0.2								
RAMP F				0.31	0.31									
RAMP G				0.28	0.28									
RAMP H				0.45	0.45	0.22								
TOTALS CARRIED TO GENERAL SUMMARY				20.54		18.26		2565	4718	0.8		0.78		

COUNTY-ROUTE	LOG POINT (MILE)		24" TRANSVERSE /DIAGONAL LINE	644				807 & 850					
				WHITE	CHEVRON (WHITE)	LANE REDUCTION ARROWS	12" CHANNEL-IZING LINE THERMOPLASTIC	WHITE					
												FT	EA
FROM	TO	FT	FT	EA	FT								
HAM-71-NB	16.66	19.91		1650			6442						
HAM-71-SB	16.66	19.91	795	175	2		4263						
RAMP A			238				581						
RAMP D							328						
RAMP E				175			326						
RAMP H							437						
TOTALS CARRIED TO GENERAL SUMMARY			1033	2000	2		12377						

CHANGES TO EXISTING PAVEMENT MARKINGS:

- 1) EXTEND 12" DOTTED LINE ON I-71 NB EXIT TO FIELDS ERTEL RD./MONTGOMERY RD. CANTILEVER/EXIT SIGN (APPROX 19.1MM).
- 2) I-71 SB REPLACE LANE LINE WITH 12" DOTTED LINE FROM END OF CHANNELIZING LINE AT I-275 WB EXIT'S PAINTED GORE TO SNIDER RD. OVERPASS.
- 3) I-71 SB EXIT TO I-275 WB REPLACE EXISTING TRANSVERSE LINE WITH CHEVRON MARKINGS.
- 4) I-71 NB EXIT TO I-275 WB/EB REPLACE EXISTING TRANSVERSE LINE WITH CHEVRON MARKINGS AT BOTH PAINTED GOES.
- 5) I-71 NB EXIT TO I-275 WB/EB CHANGE LANE LINE TO 12" CHANNELIZING LINE END AT RAMP DIVERGING GORE AND EXTEND 150' BEYOND END OF PAINTED GORE. FROM THAT POINT BEGIN 12" DOTTED LINE AND END AT DEERFIELD RD. OVERPASS (BEGIN PROJECT LIMIT).
- 6) I-71 SB ENTRANCE RAMP FROM I-275 WB REPLACE EXISTING MARKINGS WITH 6" DOTTED LINE BETWEEN RAMPS CONNECTING AT CHANNELIZING LINES OF PAINTED GOES.
- 7) I-71 SB AT I-275 INTERCHANGE REPLACE EXISTING PAVEMENT MARKING WITH 6" DOTTED LINE STARTING AT DECELERATION LANE AND ENDING AT END OF ACCELERATION LANE TAPER, ALSO ADD LANE REDUCTION ARROWS 100' AND 250' FROM PHYSICAL GORE.
- 8) I-71 SB AT I-275 EB EXIT RAMP REPLACE EXISTING TRANSVERSE LINES WITH CHEVRON MARKINGS.
- 9) ON RAMP E AT BEGIN OF RAMP C REPLACE EXISTING TRANSVERSE LINE WITH CHEVRON MARKINGS.

CALCULATED: WWH
 CHECKED: JDO
 PAVEMENT MARKINGS
 HAM-71-16.66
 10/10