STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MOT-BH-FY24

CITY OF TROTWOOD, ENGLEWOOD, CLAYTON & HUBER HEIGHTS, BUTLER TOWNSHIP, MONTGOMERY COUNTY

FOR LOCATION MAPS AND LATITUDE AND LONGITUDE FOR INDIVIDUAL BRIDGE LOCATIONS, SEE SHEET 2

LOCATION MAP

INDEX OF SHEETS:

DESIGN DESIGNATION

SEE SHEET 2.

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 7 - ENGINEERING
1001 ST. MARYS AVE.
SIDNEY, OH

FEDERAL PROJECT NUMBER

E200(256)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REHABILITATION OF VARIOUS STRUCTURES CONSISTING OF OVERLAYING DECKS USING HYDRODEMOLITION, ABUTMENT REFACING, EXPANSION JOINT REPLACEMENT, AND OTHER MISCELLANEOUS STRUCTURE REPAIR.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	** ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	** ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	** ACRES*

** - N/A, 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.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 34-36.

John W. O'Brien
District 07 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS						*SUPPLEMENTAL SPECIFICATIONS*		*SPECIAL PROVISIONS*
BP-3.1	*1/21/22*	*MT-95.30*	*7/19/19*			*800*	*4/21/23*	
BP-5.1	*7/15/22*	*MT-95.40*	*1/17/20*			*821*	*4/20/12*	
		MT-95.45	*7/21/23*			*832*	*7/15/22*	
		MT-97.10	*4/19/19*			*844*	*4/20/18*	
MGS-1.1	*7/16/21*	*MT-101.60*	*4/21/23*			*848*	*1/15/21*	
MGS-3.3	*7/16/21*	*MT-101.70*	*4/21/23*			*921*	*4/20/12*	
MGS-4.2	*7/19/13*	*MT-105.10*	*1/17/20*					
MGS-4.3	*1/18/13*							
		TC-41.20	*10/18/13*					
DS-1-92	*7/15/22*	*TC-42.20*	*10/18/13*					
		TC-52.10	*10/18/13*					
EXJ-4-87	*1/20/23*	*TC-52.20*	*1/15/21*					
		TC-61.30	*7/19/19*					
GSD-1-19	*1/15/21*							
TST-2-21	*7/16/21*							

ENGINEER'S SEAL

STATE OF OHIO
MATTHEW R. BLYTHE
E-72376
REGISTERED PROFESSIONAL ENGINEER

MOT-BH-FY24

DESIGN AGENCY
DISTRICT 7 ENGINEERING
DESIGNER PJB
REVIEWER DHG 02/16/23
PROJECT ID 108092
SHEET P.01 TOTAL 60

ITEM 614, MAINTAINING TRAFFIC

MOT-49-0621
PHASE 1: CLOSE INSIDE LANES AND SHOULDERS USING PORTABLE BARRIER ON SR 49 USING DETAILED MOT SHEETS IN THESE PLANS AND MT-95.40. TRAFFIC IS TO BE MAINTAINED ON OUTSIDE LANES OF SR 49. IF ASPHALT WORK IS NOT DONE BEHIND PORTABLE BARRIER BUT BEHIND DRUMS, IT IS TO BE DONE AT NIGHT.

PHASE 2: CLOSE OUTSIDE LANES AND SHOULDERS USING PORTABLE BARRIER ON SR 49 USING DETAILED MOT SHEETS IN THESE PLANS AND MT-95.40. TRAFFIC IS TO BE MAINTAINED ON INSIDE LANES OF SR 49. IF ASPHALT WORK IS NOT DONE BEHIND PORTABLE BARRIER BUT BEHIND DRUMS, IT IS TO BE DONE AT NIGHT.

MOT-49-0810
PHASE 1: CLOSE INSIDE LANES AND SHOULDERS USING PORTABLE BARRIER ON SR 49 USING DETAILED MOT SHEETS IN THESE PLANS AND MT-95.40. TRAFFIC IS TO BE MAINTAINED ON OUTSIDE LANES OF SR 49. IF ASPHALT WORK IS NOT DONE BEHIND PORTABLE BARRIER BUT BEHIND DRUMS, IT IS TO BE DONE AT NIGHT.

PHASE 2: CLOSE OUTSIDE LANES AND SHOULDERS USING PORTABLE BARRIER ON SR 49 USING DETAILED MOT SHEETS IN THESE PLANS AND MT-95.40. TRAFFIC IS TO BE MAINTAINED ON INSIDE LANES OF SR 49. IF ASPHALT WORK IS NOT DONE BEHIND PORTABLE BARRIER BUT BEHIND DRUMS, IT IS TO BE DONE AT NIGHT.

MOT-70-1062 (TAYWOOD ROAD OVER IR-70)
PHASE 1: CLOSE NB LANES OF TAYWOOD ROAD USING PORTABLE BARRIER AND SHIFT ONE LANE OF NORTHBOUND TRAFFIC TO THE SOUTHBOUND SIDE. ONE LANE OF BOTH DIRECTIONS OF TRAFFIC WILL BE MAINTAINED ON THE SB SIDE OF THE BRIDGE. USE DETAILED MOT SHEETS IN THESE PLANS AND MT-95.40. PEDESTRIANS ARE TO BE MAINTAINED ON THE SB SIDE OF TAYWOOD ROAD. IF ASPHALT WORK IS NOT DONE BEHIND PORTABLE BARRIER BUT BEHIND DRUMS, IT IS TO BE DONE AT NIGHT.

PHASE 2: CLOSE SB LANE OF TAYWOOD ROAD USING PORTABLE BARRIER AND SHIFT IT TO THE NB SIDE. ONE LANE OF BOTH DIRECTIONS OF TRAFFIC WILL BE MAINTAINED ON THE NB SIDE OF THE BRIDGE. USE DETAILED MOT SHEETS IN THESE PLANS AND MT-95.40. PEDESTRIANS ARE TO BE MAINTAINED ON THE NB SIDE OF TAYWOOD ROAD. IF ASPHALT WORK IS NOT DONE BEHIND PORTABLE BARRIER BUT BEHIND DRUMS, IT IS TO BE DONE AT NIGHT.

IR-70: LANE AND SHOULDER CLOSURES USING MT-95.30 MAY BE NEEDED TO INSTALL AND REMOVE FASLEWORK. PERMITTED LANE CLOSURE POLICY IS TO BE FOLLOWED

MOT-70-1420N (PETER'S PIKE OVER AIRPORT ACCESS ROAD)
A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTANED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 35 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 34. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $1,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.
PRIOR TO THE CLOSURE OF PETER'S PIKE. ADVANCED NOTIFICATION OF AT LEAST 21 DAYS IS TO BE SENT TO THE MONTGOMERY COUNTY ENGINEER'S OFFICE.

AIRPORT ACCESS RD: LANE AND SHOULDER CLOSURES USING MT-95.30 MAY BE NEEDED TO INSTALL AND REMOVE FALSEWORK. OUTSIDE SHOULDER CLOSURES IN BOTH DIRECTIONS USING MT-95.45 FOR BRIDGE PAINTING WORK.

MOT-201-0990
A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTANED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 14 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 35. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $3,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

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.

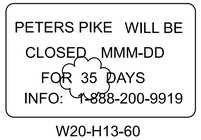
NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE 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.

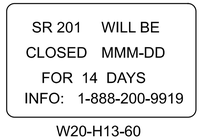
NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 7 COMMUNICATIONS OFFICE
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>= 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR 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.



W20-H13-60
FOR MOT-70-1420N



W20-H13-60
FOR MOT-201-0990

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

NEW YEAR'S (OBSERVED)
TOTAL SOLAR ECLIPSE (4/8/24)
MEMORIAL DAY
FOURTH OF JULY (OBSERVED)
LABOR DAY
GENERAL/REGULAR ELECTION DAY ((NOV)
THANKSGIVING
CHRISTMAS (OBSERVED)
DAYTON AIR SHOW

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

DAY OF HOLIDAY OR SPECIAL 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
MONDAY (TOTAL SOLAR ECLIPSE) — 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY — 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION) — 5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY — 12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY — 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY) — 6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY — 12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY — 12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

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.

PERMITTED LANE CLOSURES

PERMITTED LANE CLOSURES LANE CLOSURES ON IR 70 SHALL ONLY BE IMPLEMENTED AT THE TIMES LISTED ON THE OHIO DEPARTMENT OF TRANSPORTATION'S PERMITTED LANE CLOSURES WEB SITE WHICH IS LOCATED AT:

http://plcm.dot.state.oh.us/

THE PERMITTED CLOSURE TIMES LISTED ON THE WEBSITE, 14 CALENDAR DAYS PRIOR TO THE BID LETTING DATE, SHALL BE IN EFFECT FOR THIS PROJECT.

PERMITTED LANE CLOSURES

LANE VALUE CONTRACT TABLE

DESCRIPTION OF ROUTE	DISINCENTIVE
I.R. 70 (MOT-70-1062)	$200/MIN/LANE

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.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

MAINTENANCE OF TRAFFIC NOTES (1 OF 2)

DESIGN AGENCY
DISTRICT 7 ENGINEERING
DESIGNER PJB
REVIEWER NKH 04/28/23
PROJECT ID 108092
SHEET P.06 TOTAL 60

MOT-BH-FY24

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO D7 PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HRS & < 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DETOUR SIGNING

THE CONTRACTOR SHALL PROVIDE THE DETOUR SIGNING AS SHOWN ON SHEET 34-36. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT FOR ITEM 614 DETOUR SIGNING.

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).

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 160 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.

SHOULDER CLOSURES

THE CONTRACTOR SHALL USE PORTABLE BARRIER TO CLOSE THE OUTSIDE SHOULDER(S) ADJACENT TO THE WORK AREA DURING THE SURFACE PREPARATION AND PAINTING OF THE STRUCTURAL STEEL ON BRIDGE: MOT-70-1420N. THE FOLLOWING QUANTITIES ARE THE TOTAL FOR THE OUTSIDE SHOULDER CLOSURES, IN BOTH DIRECTIONS UNDER THE BRIDGE, AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	2 EACH
ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE WAY)	13 EACH
ITEM 614, OBJECT MARKER, ONE WAY	13 EACH
ITEM 622, PORTABLE BARRIER, UNANCHORED	600 FT

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

MAINTENANCE OF TRAFFIC NOTES (2 OF 2)

MOT-BH-FY24

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 8/28/2023 TIME: 12:37:33 PM USER: dgrillio
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 07\Montgomery\108092400-Engineering\MOT\Sheets\108092_MN002.dgn

DESIGN AGENCY
DISTRICT 7 ENGINEERING
DESIGNER PJB
REVIEWER NKH 04/28/23
PROJECT ID 108092
SHEET P.07 TOTAL 60

SHEET NUM.										CALC	PART. 01/IMS/13	PART. 02/S>2/13	PART. 03/NHS/13	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		STRUCTURE REPAIR (MOT-49-0621)	
										LS			LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	4
										134			134	202	38500	134	FT	BRIDGE RAILING REMOVED	
										4			4	202	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
										100			100	509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	4
										5,252			5,252	509	25000	5,252	LB	UNCOATED STEEL REINFORCEMENT	
										157			157	510	10000	157	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
										22			22	511	34410	22	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
										66			66	511	81300	66	EACH	CONCRETE, MISC.: EMBEDDED GALVANIC ANODE (EGA)	4
										67			67	514	27700	67	SF	FIELD PAINTING, MISC.: ZINC RICH PRIMER	4
										101			101	516	13200	101	SF	½" PREFORMED EXPANSION JOINT FILLER	
										5			5	516	13600	5	SF	1" PREFORMED EXPANSION JOINT FILLER	
										167			167	516	31011	167	FT	2" DEEP JOINT SEALER, AS PER PLAN	4
										152			152	517	70100	152	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
										161			161	SPECIAL	51822300	161	FT	STEEL DRIP STRIP	
										995			995	SPECIAL	53000600	995	SF	STRUCTURES, MISC.: ABUTMENT REFACING WITH GALVANIC ANODES PROTECTION	4
										564			564	848	10200	564	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1 ¾"	
										520			520	848	20001	520	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	5
										14			14	848	30200	14	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
										52			52	848	50000	52	SY	HAND CHIPPING	
										LS			LS	848	50100	LS		TEST SLAB	
										1			1	848	50200	1	CY	FULL-DEPTH REPAIR	5
																		STRUCTURE REPAIR (MOT-49-0810)	
										LS			LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	4
										134			134	202	38500	134	FT	BRIDGE RAILING REMOVED	
										2			2	202	47000	2	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
										100			100	509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	4
										3,572			3,572	509	25000	3,572	LB	UNCOATED STEEL REINFORCEMENT	
										22			22	511	34410	22	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
										66			66	511	81300	66	EACH	CONCRETE, MISC.:EMBEDDED GALVANIC ANODE (EGA)	4
										147			147	516	31011	147	FT	2" DEEP JOINT SEALER, AS PER PLAN	4
										152			152	517	70100	152	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
										161			161	SPECIAL	51822300	161	FT	STEEL DRIP STRIP	
										80			80	844	10001	80	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN	5
										533			533	848	10200	533	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1 ¾"	
										489			489	848	20001	489	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	5
										14			14	848	30200	14	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
										49			49	848	50000	49	SY	HAND CHIPPING	
																		STRUCTURE REPAIR (MOT-70-1062)	
										100	100			509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	4
										3	3			516	13200	3	SF	½" PREFORMED EXPANSION JOINT FILLER	
										17	17			519	11101	17	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	4
										398	398			SPECIAL	60740000	398	FT	VANDAL PROTECTION FENCE, AS PER PLAN	5
										1	1			611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
										1,225	1,225			848	10200	1,225	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1 ¾"	
										1,225	1,225			848	20001	1,225	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	5
										42	42			848	30200	42	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
										75	75			848	50000	75	SY	HAND CHIPPING	
										2	2			848	50200	2	CY	FULL-DEPTH REPAIR	5

GENERAL SUMMARY (2 OF 3)

DESIGN AGENCY

DISTRICT 7 ENGINEERING

DESIGNER PJB

REVIEWER DHG 02/16/23

PROJECT ID 108092

SHEET P.39 TOTAL 60

MOT-BH-FY24

SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		7		8		9			CALC	01/IMS/13	02/S>2/13	03/NHS/13						
																	STRUCTURE REPAIR (MOT-70-1420N)	
									LS	LS			202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	4
									36	36			202	75266	36	FT	VANDAL PROTECTION FENCE REMOVED AND RESET	
									1,100	1,100			509	10000	1,100	LB	EPOXY COATED STEEL REINFORCEMENT	
									100	100			509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	4
									142	142			510	10000	142	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
									15	15			511	31610	15	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
									3,472	3,472			513	21599	3,472	LB	STRUCTURAL STEEL FOR REHABILITATION	
									2,078	2,078			514	00050	2,078	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
									2,078	2,078			514	00056	2,078	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
									2,078	2,078			514	00060	2,078	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
									2,078	2,078			514	00066	2,078	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
									113	113			516	11210	113	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	
									107	107			516	31011	107	FT	2" DEEP JOINT SEALER, AS PER PLAN	4
									1	1			613	41200	1	CY	LOW STRENGTH MORTAR BACKFILL	
									31	31			844	10001	31	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN	5
									997	997			848	10200	997	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1 ¾"	
									978	978			848	20001	978	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	5
									33	33			848	30200	33	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
									60	60			848	50000	60	SY	HAND CHIPPING	
									1	1			848	50200	1	CY	FULL-DEPTH REPAIR	
																	STRUCTURE REPAIR (MOT-201-0990)	
									103		103		516	31011	103	FT	2" DEEP JOINT SEALER, AS PER PLAN	4
									121		121		848	10200	121	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 1 ¾"	
									121		121		848	20001	121	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	5
									5		5		848	30200	5	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
									8		8		848	50000	8	SY	HAND CHIPPING	
																	MAINTENANCE OF TRAFFIC	
		160								64		96	614	11110	160	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		2		9		4				6		9	614	12380	15	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
									LS	LS	LS		614	12420	LS		DETOUR SIGNING	
		13		86		22				35		86	614	13310	121	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
		13		86		22				35		86	614	13350	121	EACH	OBJECT MARKER, ONE WAY	
									0.27		0.05	0.22	614	20560	0.27	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
						0.28				0.28			614	21200	0.28	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
									0.18	0.18			614	21550	0.18	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
				4.7		0.71				0.71		4.7	614	22200	5.41	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
									0.56	0.12		0.44	614	22360	0.56	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
									45			45	614	23680	45	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
				4,560		231				231		4,560	614	24400	4,791	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I	
									1			1	614	30650	1	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
		600		4,050		1,030				1,630		4,050	622	41100	5,680	FT	PORTABLE BARRIER, UNANCHORED	
																	INCIDENTALS	
									LS	LS	LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
									LS	LS	LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
									LS	LS	LS	LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY (3 OF 3)

DESIGN AGENCY

DISTRICT 7 ENGINEERING

DESIGNER PJB

REVIEWER DHG 02/16/23

PROJECT ID 108092

SHEET P.40 | TOTAL 60

MOT-BH-FY24