

170536 PID - 101860

Dist 8 10/5/2017

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

D08-BS MAJOR-FY2018

DISTRICT 8 BRIDGE SEALING

PID NO. 101860
FEDERAL PROJECT NO. E161(454)
CONSTRUCTION PROJECT NO.

Contract Proposal Available @
www.contracts.dot.state.oh.us/home

PROJECT DESCRIPTION:

SEALING OF VARIOUS BRIDGE DECKS LOCATED IN DISTRICT 8. DECKS ARE TO BE SEALED WITH GRAVITY FED. RESIN OR SOLUBLE REACTIVE SILICATE, AS INDICATED IN THE PLANS.

LATITUDE: 39° 25' 52"

LONGITUDE: 84° 17' 03"

2016 SPECIFICATIONS

THE 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 THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

EARTH DISTURBED AREAS:

PROJECT EARTH DISTURBED AREA = 0.00 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED = N/A ACRES
NOTICE OF INTENT EARTH DISTURBED AREA = N/A ACRES
MAINTENANCE PROJECT


APPROVED Tony K Campbell
DATE 7/7/17 DISTRICT DEPUTY DIRECTOR

APPROVED [Signature]
DATE 7/6/17 DIRECTOR, DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS:

TITLE SHEET.....	1
LOCATION MAP.....	2
GENERAL NOTES.....	3-13
PAVEMENT MARKING QUANTITIES...	14-15
BRIDGE SEALING LOCATIONS.....	16-17
GENERAL SUMMARY.....	18
SEALING DETAILS.....	19

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.



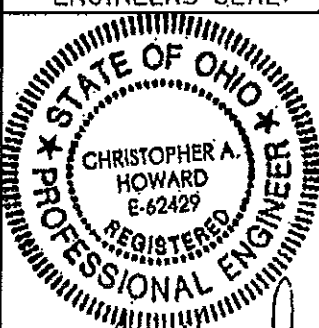
Call Before You Dig
1-800-362-2784

(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8
ENGINEERING DEPARTMENT

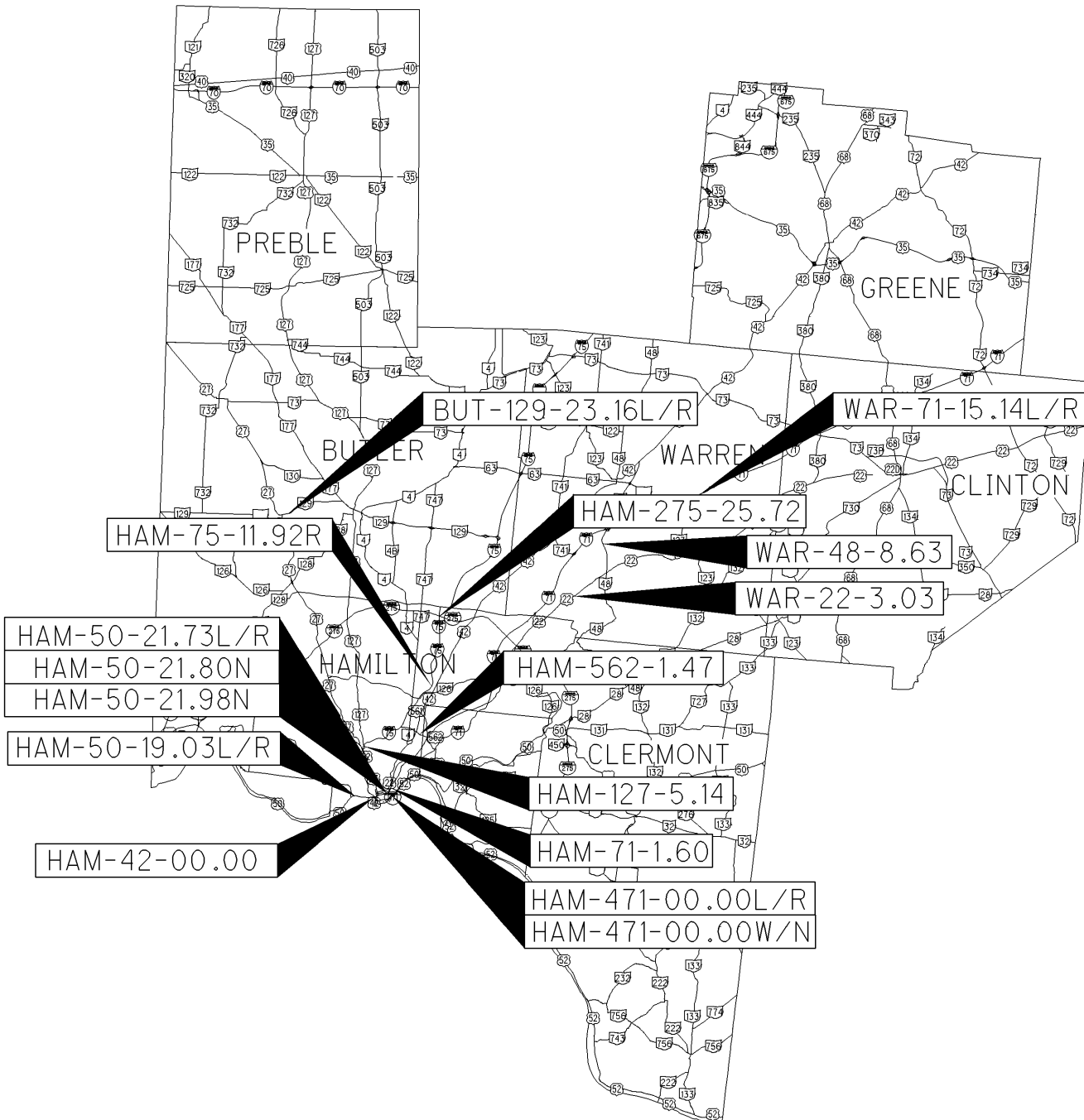
ENGINEERS SEAL:



SIGNED: [Signature]
DATE: 7-6-17

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
TC-61.10	01-17-14	MT-95.30	07-15-16	800	07-21-17
TC-65.10	01-17-14	MT-95.60	07-18-13	808	01-20-17
TC-72.20	07-15-16	MT-95.61	07-19-13	821	04-20-12
		MT-97.10	07-18-14	832	01-17-14
		MT-98.10	01-20-17	808	01-29-16
		MT-98.20	07-18-14	921	04/20/12
		MT-98.29	01-20-17		
		MT-104.10	10-16-15		
		MT-105.10	07-19-13		

LOCATION MAP



THE PROPOSED PROJECT INVOLVES SEALING INTERSTATE, US ROUTE, AND STATE ROUTE BRIDGES IN BUTLER COUNTY, HAMILTON COUNTY, AND WARREN COUNTY. NO IN-STREAM WORK WILL BE REQUIRED AND ALL WORK WILL TAKE PLACE WITHIN THE EXISTING RIGHT OF WAY.

GENERAL NOTES

BRIDGE DECK AND APPROACH SLAB SEALING

SEAL ALL BRIDGE DECK SURFACES WITH GRAVITY FED RESIN, AS PER PLAN, OR SOLUBLE REACTIVE ALL STRUCTURES AS PER PLAN.

FOR DECK AND APPROACH SLAB SEALING QUANTITIES AND STRUCTURE LOCATIONS REFER TO SHEET NUMBER 16.

ENVIRONMENTAL NOTES

FOR WORK INVOLVING BRIDGE NOS. BUT-129-2316L, BUT-129-2316R, HAM-75-1192R, HAM-50-1903L, HAM-50-1903R, HAM-127-0514, WAR-22-0303, AND WAR-48-0863, THE FOLLOWING PLAN NOTES ARE INCLUDED FOR SCENIC RIVER COORDINATION:

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO THE LITTLE MIAMI SCENIC RIVER OR ANY OF ITS TRIBUTARIES. ALL ASPHALT OR CONCRETE GRINDINGS, EXCESS ASPHALTIC OR CONCRETE MATERIALS OR ANY OTHER DEBRIS GENERATED DURING RESURFACING OR OTHER SIMILAR ACTIVITIES SHALL BE REMOVED IMMEDIATELY FROM WITHIN 1000 FEET OF A SCENIC RIVER AND DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE FEMA 100 YEAR FLOOD ELEVATION AND NOT WITHIN 1000 FEET OF THE SCENIC RIVER.

IF PAINTING, SEALING, SAND AND/OR WATER BLASTING (CLEANING) IS INCORPORATED AS PART OF THE PROJECT AT OR OVER A SCENIC RIVER, THEN APPROPRIATE APRONS SHALL BE UTILIZED TO PROVIDE FOR COMPLETE CONTAINMENT OF ALL PAINT, WELDING SLAG AND/OR SEALANT OVERSPRAY AND OTHER DEBRIS. APRONS SHALL BE UTILIZED ON ALL DECK REPLACEMENT PROJECTS WHEN USING HYDRO-DEMOLITION TECHNIQUES. ALL DEBRIS COLLECTED SHALL BE DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE FEMA 100 YEAR FLOOD PLAIN AND NOT WITH 1000 FEET OF THE SCENIC RIVER.

THIS PROJECT IS LOCATED OVER A PORTION OF THE GREAT MIAMI SOLE SOURCE AQUIFER. IN ORDER TO MINIMIZE THE POTENTIAL FOR A RELEASE IN THIS SENSITIVE AREA, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL NOT BE PERFORMED AT THE FOLLOWING LOCATIONS:

- BUTLER COUNTY SR 129 FROM SLM 22.43 TO SLM 23.97
- WARREN COUNTY SR 48 FROM SLM 8.00 TO SLM 9.25
- WARREN COUNTY US 22 FROM SLM 2.50 TO SLM 3.80

SPILLS OF FUELS, OILS, CHEMICALS OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTACT THE APPROPRIATE FIRE DEPARTMENT FOR CLEANUP OF THE SPILL.

- LIBERTY TOWNSHIP FIRE DEPARTMENT (513) 777-8388
- UNION TOWNSHIP FIRE DEPARTMENT (513) 494-2566
- DEERFIELD TOWNSHIP FIRE DEPARTMENT (513) 925-2525

ALL WASTE MATERIALS GENERATED BY THIS PROJECT, INCLUDING WASHING WITH CLEANING

SOLVENTS, BLASTING, SCRAPING, BRUSHING AND PAINTING OPERATIONS, SHALL BE THE RESPONSIBILITY OF THE STATE OR ITS CONTRACTOR AND SHALL BE CONTAINED, COLLECTED AND PROPERLY DISPOSED OF BY THE STATE OR ITS CONTRACTOR. THE STATE AND ITS CONTRACTOR AGREE TO FULLY COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS, REGULATIONS, STATUTES AND ORDINANCES AT ALL TIMES.

15 CALENDAR DAYS PRIOR TO THE COMMENCEMENT OF WORK ON THE PROPOSED PROJECT, THE CONTRACTOR SHALL NOTIFY MELISSA CLARK, SW OHIO ASST. REGIONAL SCENIC RIVER MANAGER, 937-408-8554, AND ANDREW FLUEGEMANN, P.E., ODOT DISTRICT 8 DEC, 513-933-6597.

ITEM 201 CLEARING AND GRUBBING, AS PER PLAN

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

WHILE PERFORMING CONCRETE SEALING WORK, IF ACCESS IS RESTRICTED DUE TO THE PRESENCE OF VEGETATION, REMOVE SAID VEGETATION A MAXIMUM OF 2' AWAY FROM THE SURFACE TO BE SEALED TO ALLOW ACCESS. THIS WORK, INCLUDING ALL LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE PAID FOR UNDER ITEM 201, CLEARING AND GRUBBING, AS PER PLAN, LUMP SUM.

ITEM 621 RPM REFLECTORS

REPLACE RPM REFLECTORS AS NECESSARY ACCORDING TO STANDARD CONSTRUCTION DRAWINGS TC-65.10 AND TC-65.11. FOR QUANTITIES AND LOCATIONS SEE SHEET 15.

ITEM 626 BARRIER REFLECTOR

INSTALL, AT THE DIRECTION OF THE ENGINEER, BARRIER REFLECTORS ON EACH STRUCTURE'S PARAPET WALLS IF NOT ALREADY IN PLACE PER CMS 626.03. REFER TO THE TABLE ON SHEET 15

ITEM 642 TRAFFIC PAINT

PLACE ITEM 642 PAVEMENT MARKINGS WITHIN 36 HOURS OF COMPLETION OF THE SEALING OPERATION AT LOCATIONS RECEIVING GRAVITY FED RESIN AND LOCATIONS DESIGNATED TO BE RESTRIPE. THE PROPOSED MARKINGS SHALL BE PLACED TO MATCH PRE-CONSTRUCTION CONDITIONS. FOR QUANTITIES AND LOCATIONS SEE THE PAVEMENT MARKING SUBSUMMARY ON SHEET NUMBER 14.

ITEM 614 – MAINTAINING TRAFFIC, AS PER PLAN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL DEVISE A MAINTENANCE OF TRAFFIC SCHEME WHICH SHALL BE STAMPED BY A PROFESSIONAL ENGINEER, AND PRESENT IT TO THE ENGINEER FOR APPROVAL. THE MAINTENANCE OF TRAFFIC SCHEME SHALL PRESENT, IN GENERAL, THE METHOD FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER.

THE PLANS SHALL INCLUDE THE FOLLOWING COMPONENTS:

THE PLAN VIEW AT AN APPROPRIATE SCALE TO SHOW:

- WORK AREA
- BEGIN/END STATIONING OF TAPERS, TEMPORARY MARKINGS, ETC.
- TEMPORARY PAVEMENT
- LOCATIONS OF SIGNS (EXISTING OVERHEAD SIGNS AND ALL PROPOSED, COVERED, OR MODIFIED SIGNS)
- LOCATIONS OF TYPICAL SECTIONS
- REFERENCES TO APPLICABLE STANDARD DRAWINGS

TYPICAL SECTIONS SHOWING:

- LANE WIDTHS, PAVEMENT MARKINGS, DRUMS, PCB, ETC.
- LIMITING STATIONS
- WORK AREA AND DROP-OFFS
- SIGN DETAILS FOR PROPOSED SIGNS AND OVERLAYS/MODIFICATIONS

THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS INCLUDING DESIGNER NOTES, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), STANDARD PROCEDURE NO. 123-001 (SP) TRAFFIC MANAGEMENT IN WORK ZONES, ODOT LOCATION AND DESIGN MANUAL, VOLUME 1, AND ALL REQUIREMENTS DETAILED IN THESE PLANS.

THIS SUBMITTAL SHALL CONSIST OF THREE (3) COPIES OF THE PLANS FOR REVIEW AND DISTRIBUTION. NO WORK SHALL BEGIN AT THE LOCATION UNTIL THE MAINTENANCE OF TRAFFIC PLANS HAVE BEEN APPROVED BY OHIO DEPARTMENT OF TRANSPORTATION.

THE PROGRESS SCHEDULE WILL BE REQUIRED TO APPROVE THE MAINTENANCE OF TRAFFIC PLANS. THIS SCHEDULE OF OPERATIONS SHALL DETAIL THE CONTRACTOR'S WORK ACTIVITIES AND METHODS OF MAINTAINING TRAFFIC DURING THESE ACTIVITIES. MAINTENANCE OF TRAFFIC PLANS SHALL BE PREPARED AND SUBMITTED TO THE DISTRICT FOR APPROVAL. THESE PLANS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE DISTRICT SHALL HAVE 14 CALENDAR DAYS TO REVIEW AND COMMENT ON THESE PLANS. THE CONTRACTOR SHALL NOT BEGIN ANY WORK REQUIRING TRAFFIC CONTROL UNTIL THE ENGINEER HAS GIVEN APPROVAL OF THE CONTRACTOR'S SEQUENCE OF OPERATIONS AND MAINTENANCE OF TRAFFIC PLANS.

THE MAINTENANCE OF TRAFFIC SCHEME SHALL TAKE INTO CONSIDERATION SNOW AND ICE OPERATIONS FROM DECEMBER 1 THROUGH MARCH 31. LANE SHIFTS, RESTRICTIONS, AND CLOSURES MAY NOT BE APPROVED IF THEY ADVERSELY AFFECT SNOW REMOVAL OPERATIONS.

IF IN THE OPINION OF THE ENGINEER, THE CONTRACTOR FAILS TO COMPLY WITH THESE REQUIREMENTS AND THE PROVISIONS OF THE APPROVED MAINTENANCE OF TRAFFIC PLAN, THE ENGINEER SHALL SUSPEND WORK UNTIL ALL REQUIREMENTS ARE MET. ANY COST OF DELAYS INCURRED AS A RESULT OF THE FAILURE SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

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.

MAINTAIN ALL EXISTING LANES AT ALL TIMES, EXCEPT LANE CLOSURES ARE PERMITTED IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE TIMES NOTE AND THE LANE VALUE CONTRACT TABLE IN THESE PLANS.

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
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

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

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 CHANGABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET 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

<u>ITEM</u>	<u>DURATION OF CLOSURE</u>	<u>SIGN DISPLAYED TO PUBLIC</u>
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.

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.

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, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

REVISION NUMBER	COUNTY & ROUTE	DIRECTION
WZ-45056 A	BUT-129	EB/WB
WZ-45056 B	HAM-71	NB/SB
WZ-45056 C	HAM-75	NB
WZ-45056 D	HAM-275	EB/WB
WZ-45056 E	HAM-471	NB/SB
WZ-45056 F	HAM-562	EB/WB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE- CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS SHALL BE IN ACCORDANCE WITH THIS NOTE AND SCD MT-104.10. ADDITIONALLY PAYMENT MAY BE REMOVED, OR A DISINCENTIVE APPLIED FOR WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS THE SAME AS DESCRIBED IN THE MOST RECENT PUBLICATION OF SS 808 IN REGARDS TO WZSZS USING DSL SIGN ASSEMBLIES (SEE SS 808.06 PARAGRAPHS 4 THROUGH7, INCLUDING TABLE 1).

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRE-CONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITH-IN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKER PRESENT	WORKERS NOT PRESENT LIMIT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, WORK ZONE SPEED LIMIT SIGN 2 EACH
 ITEM 614, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY 3 SIGN MNTH
 ASSUMING 2 DSL SIGN ASSEMBLY (IES) FOR 3 MONTH(S)

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN
 THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE (OFFICE OF MATERIALS MANAGEMENT WEB PAGE). THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS SHALL BE SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRE-CONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE. THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NON-COMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE. PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND

INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER

PLAN 3 SIGN MONTH
ASSUMING 2 PCMS SIGN(S) FOR 3 MONTH(S)

ITEM 614 WORK ZONE MARKINGS

THIS ITEM SHALL BE PROVIDED ON ALL STRUCTURES CARRYING TWO WAY TRAFFIC WHICH WILL RECEIVE GRAVITY FED RESIN. THE WORK ZONE MARKINGS SHALL BE IN PLACE PRIOR TO OPENING OF THE STRUCTURE TO TRAFFIC. THE WORK ZONE MARKINGS SHALL MATCH THE PRE-CONSTRUCTION LOCATIONS.

SEE SHEET 16 FOR THE FOLLOWING ESTIMATED QUANTITIES FOR USE AT LOCATIONS RECEIVING GRAVITY FED RESIN FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF CMS 614.11.

ITEM 614 WORK ZONE CENTER LINE, CLASS I, 642 PAINT

ITEM 614 WORK ZONE EDGE LINE, CLASS I, 642 PAINT

ITEM 614 WORK ZONE LANE LINE, CLASS I, 642 PAINT

ITEM 614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT

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, AS PER PLAN.

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 IN THIS NOTE WILL NOT GENERALLY BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS 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) 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 REQUIREMENTS OF CMS 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 CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

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). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH 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. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LIST OF THE APPROPRIATE LAW ENFORCEMENT AGENCY(S), INCLUDING ADDRESS AND TELEPHONE NUMBER.

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 THE SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF THE 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 WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF THE 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 QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 400 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 AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

TRUCK MOUNTED ATTENUATOR

WHEN THE CONTRACTOR IS SETTING/REMOVING SHORT TERM WORK ZONES ON A ROADWAY WITH A LEGAL SPEED LIMIT OF 45 MPH OR GREATER, A TRUCK MOUNTED ATTENUATOR (TMA) MUST TRAIL THE OPERATION, INCLUDING SETTING THE ADVANCE WARNING SIGNS UP OR TAKING THEM DOWN. THIS SAME TRUCK MUST HAVE A TYPE B FLASHING ARROW PANEL MOUNTED ON IT FACING THE REAR OF THE TRUCK. THE CONTRACTOR SHALL USE A TMA FOR ANY APPLICATION WHERE THE OMUTCD OR STANDARD CONSTRUCTION DRAWING USES THE PHRASE "OPTIONAL" OR "WHEN SPECIFIED IN THE PLAN". THE T.M.A. MUST BRING A VEHICLE WEIGHING 1800 TO 4500 LBS. AND TRAVELING AT 60 MPH TO A SAFE, CONTROLLED STOP, PER NCHRP 350 CRITERIA. THE MANUFACTURER'S SPECIFICATION MUST BE FOLLOWED CONCERNING THE SIZE OF THE TRUCK AND THE CONNECTIONS TO THE T.M.A.

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.

Lane Value Contract Table

Description of Critical Lane/Ramp to be Maintained.	Permitted Time Period	Time Unit	Disincentive \$ per Time Unit per Lane
PLCM Routes; unless noted otherwise	See Permitted Lane Closure Schedule	15 Minute Period	\$1,875
HAM-275-25.72	3 left lanes may be closed; 10 PM to 5 AM.	15 Minute Period	\$1,875
HAM-471-0.00 L/R/W/N HAM-50-21.73 L/R HAM-50-21.80 N HAM-5021.98 N	1 lane may be closed; 8 PM to 6 AM. 2 lanes may be closed; 9 PM to 6 AM.	15 Minute Period	\$1,875
Ramps Closures: 2nd Street to NB I-71 5th Street to NB I-71 EB I-275 to NB I-75 WB I-275 to SB I-75 WB US 50 to SB 471 WB US 50 to 6th Street NB I-471 to EB/WB US 50	10 PM to 5 AM	15 Minute Period	\$1,125
HAM-50-19.03L/R HAM-42-0.00 HAM-127-5.14	1 lane may be closed; 9 AM to 3 PM. 2 lanes may be closed; 7 PM to 6 AM.	15 Minute Period	\$750
WAR-22-3.03 WAR-48-8.63	One lane of two way traffic using flaggers may be maintained; 9 PM to 6 AM	15 Minute Period	\$750

Notes:

1. A minimum of one lane of traffic in each direction shall be maintained at all times, unless noted otherwise.
2. At the I-471 and US-50 interchange, 1 lane of I-471 and 1 lane of US 50 shall be maintained at all times.
3. Only 1 ramp is permitted to be closed at a time.
4. Each listed ramp is permitted to be closed a maximum of 3 times.
5. Hamilton County: No closures 2 hours before (SOUTHBOUND) to 2 hours after (NORTHBOUND) events at Great American Ball Park, Paul Brown Stadium, or US Bank Area. This restriction also applies to any other local venue generating an event attendance of 10,000+.
6. Warren County: No lane closures during tournaments at the Mason Tennis Center.

THE PERMITTED LANE CLOSURE SCHEDULE IS LOCATED ON THE ODOT WEBSITE <http://plcm.dot.state.oh.us/> . THE LATEST REVISION, 14 DAYS PRIOR TO THE BID, SHALL BE IN EFFECT FOR THIS PROJECT.

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 OFFICE OF COMMUNICATIONS. 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, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE OF COMMUNICATIONS TIME TABLE

ITEM	RESTRICTED TIME PERIOD	DISINCENTIVE \$ PER TIME UNIT PER LANE
RAMP & ROAD CLOSURES	>= 2 WEEKS > 12 HOURS & < 2 WEEKS < 12 HOURS	21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE 2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN	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 NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE.

CONSTRUCTION WORK WITHIN THE CITY OF CINCINNATI

A CITY OF CINCINNATI DEPARTMENT OF TRANSPORTATION AND ENGINEERING (DOTE) PERMIT IS REQUIRED PRIOR TO THE ODOT CONTRACTOR COMMENCING WORK IN THE CITY OF CINCINNATI'S PUBLIC RIGHT-OF-WAY. PERMIT APPLICATIONS FOR STREET USE, STREET BARRICADE, STREET OPENING, ETC. MAY BE MADE AT ROOM 425, CITY HALL, 801 PLUM STREET CINCINNATI, OHIO 45202.

CITY ISSUED PERMITS MAY REQUIRE MAJOR EVENT WORK RESTRICTIONS ON THE CONTRACTOR'S ACTIVITIES. THE CITY MAINTAINS A LIST OF KNOWN MAJOR EVENTS AT THE FOLLOWING WEBSITE: [HTTP://CINCINNATI-OH.GOV/POLICE/SPECIAL-EVENTS-REGULATIONS-AUCTIONS/EVENT-PERMITS/](http://cincinnati-oh.gov/police/special-events-regulations-auctions/event-permits/).

THE CITY OF CINCINNATI RESTRICTS NIGHTTIME CONSTRUCTION WORK BETWEEN THE HOURS OF 11:00 P.M. AND 7:00 A.M. CITY ISSUED PERMITS WILL REQUIRE THE CONTRACTOR TO SECURE THE CITY ENGINEER'S APPROVAL FOR NIGHTTIME WORK.

PERMENANT AND WORK ZONE PAVEMENT MARKINGS

THE CONTRACTOR SHALL PLACE THE WORK ZONE PAVEMENT MARKINGS, OR PERMANENT MARKINGS, UPON COMPLETION OF THE BRIDGE SEALING AND PRIOR TO OPENING THE ROADWAY TO TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

WORK ZONE PAVEMENT MARKING QUANTITIES

ITEM 614									
COUNTY	ROUTE	SLM	LIMITS (FT)	CENTER LINE (MI)	WHITE EDGE (MI)	YELLOW EDGE (MI)	LANE LINE (MI)	TRAVERSE/DIAGONAL (FT)	FUNDING CATEGORY
HAM	50	1903L	1049	0.00	0.20	0.20	0.60	334	02/NHS/BR
HAM	562	0147	1405	0.00	0.53	0.53	0.53	0.00	02/NHS/BR
WAR	22	0303	1358	0.26	0.51	0.00	0.00	0.00	02/NHS/BR
SHEET TOTAL				0.26	1.24	0.73	1.13	0.00	
TOTALS CARRIED TO GEN. SUM.				0.26	1.97		1.13	334	

PERMANENT PAVEMENT MARKING QUANTITIES

ITEM 642									
COUNTY	ROUTE	SLM	LIMITS (FT)	CENTER LINE (MI)	WHITE EDGE (MI)	YELLOW EDGE (MI)	LANE LINE (MI)	TRAVERSE/DIAGONAL (FT)	FUNDING CATEGORY
HAM	50	1903L	1049	0.00	0.20	0.20	0.60	334	02/NHS/BR
HAM	562	0147	1405	0.00	0.53	0.53	0.53	0.00	02/NHS/BR
WAR	22	0303	1358	0.26	0.51	0.00	0.00	0.00	02/NHS/BR
SHEET TOTAL				0.26	1.24	0.73	1.13	0.00	
TOTALS CARRIED TO GEN. SUM.				0.26	1.97		1.13	334	

RPM & BARRIER REFLECTOR QUANTITIES

ITEM 621										ITEM 626	
CTY	ROUTE	SLM	SFN	BRIDGE LIMS	INTERSECTED FEATURE	REFLECTOR COLOR*				BARRIER REFLECTOR, TYPE 1	FUNDING CATEGORY
						A (CHAN)	B (LANE)	C (EDGE)	D (CNTR)		
HAM	50	1903L	3102807	1049	CSX; CIND; Mill Creek; Priv. Dr.	0	33	0	0	20 (ONE-WAY)	02/NHS/BR
HAM	562	0147	3113914	1405	Ross Ave; IORY	0	35	0	0	28 (ONE-WAY)	02/NHS/BR
WAR	22	0303	8300038	1358	C10;Lit Miami R; 1SP;C23	0	0	0	30	26 (BI-DIRECT)	02/NHS/BR
SHEET TOTAL						0	68	0	30	74	
TOTAL CARRIED TO GENERAL SUMMARY						98				74	

*REFER TO CMS 621.07 FOR REFLECTOR COLOR.

BRIDGE ESTIMATED QUANTIES

COUNTY	ROUTE	SLM	SFN	INTERSECTED FEATURE	SRS (SF)		GFR (SF)		NOTES	FUNDING CATEGORY
					DECK AREA	APPR. SLAB AREA ¹	DECK AREA	APPR. SLAB AREA ¹		
BUT	129	2316L	0903612	Maud-Hughes; NSRR; Greg Creek	81354	2920	-	-	3	02/NHS/BR
BUT	129	2316R	0903620	Maud-Hughes; NSRR; Greg Creek	81354	2920	-	-		02/NHS/BR
HAM	75	1192R	3110656	Mill Creek; Benson St; NSRR;ST	131176	0	-	-	3	01/IMS/BR
HAM	275	2572	3112314	IR75; Ramps	87994	8543	-	-		01/IMS/BR
HAM	471	0000R	3117367	IORY; US52; Third St Connector	60591	2754	-	-	4	01/IMS/BR
HAM	471	0000L	3117359	IORY; US52; Third St Connector	85832	3901	-	-	4	01/IMS/BR
HAM	471	0000W	3117332	Eggleston	14736	0	-	-		03/IMS/BR
HAM	471	0000N	3117391	Relief	1152	1440	-	-		03/IMS/BR
HAM	42	0000	3102246	APP-Clay Wade Bailey	52959	1865	-	-	4	02/NHS/BR
HAM	50	1903R	3102815	CSX; CIND; Mill Creek; Private Dr.	61773	2950	-	-		02/NHS/BR
HAM	50	1903L	3102807	CSX; CIND; Mill Creek; Private Dr.	-	-	49303	2350		02/NHS/BR
HAM	50	2173R	3103412	BUTLR, CULV, EGGST, 471, MONA	56802	1887	-	-		02/NHS/BR
HAM	50	2173L	3103420	BUTLR, CULV, EGGST, 471, MONA	67426	2638	-	-		02/NHS/BR
HAM	50	2180N	3103390	IR471, RAMP, EGG, CUL	119448	3600	-	-		01/IMS/BR
HAM	50	2198N	3103374	Monastery St; US50 W ramp	16394	1515	-	-		04/NHS/BR
HAM	127	0514	3111385	IR75;CSX;NS;MILL Creek; DOO BYP	90353	3146	-	-		01/IMS/BR
HAM	562	0147	3113914	Ross Ave; IORY	-	-	112867	4017	2,3	02/NHS/BR
HAM	71	0160	3106616	Muni RMP Via W Sixth ST W	63917	2571	-	-		01/IMS/BR
WAR	22	0303	8300038	C10;Little Miami River; 1SP; C23	-	-	45887	1690		02/NHS/BR
WAR	48	0863	8301085	Little Miami River; Bike Path	37868	1842	-	-	3	02/NHS/BR
SHEET TOTAL (SF)					1111129	44492	208057	8057		
SHEET TOTAL (SY)					123459	4944	23117	895		
TOTALS CARRIED TO GENERAL SUMMARY					128403		24013			

SEALING QUANTITY BREAKDOWN BY FUNDING EVENT

	01/IMS/BR	02/NHS/BR	03/IMS/BR	04/NHS/BR	TOTAL
SRS (SF)	663826	456558	17328	17909	1155621
SRS (SY)	73759	50729	1925	1990	128403
GFR (SF)		216114			216114
GFR (SY)		24013			24013

BRIDGE ESTIMATED QUANTITIES NOTES:

1. SEAL APPROACH SLABS WITH THE SAME MATERIAL AS DECK.
2. PARAPET REPAIR AND/OR CONCRETE SEALING WITH EPOXY-URETHANE
3. PATCH DECK (TYPE B) PER CMS 519
4. SEAL OHIO APPROACH SPANS ONLY

ITEM 519 - PATCHING CONCRETE BRIDGE DECK-TYPE B

ITEM 519 – PATCHING CONCRETE STRUCTURE

ITEM 512 – SEALING OF CONCRETE SURFACES USING EPOXY-URETHANE

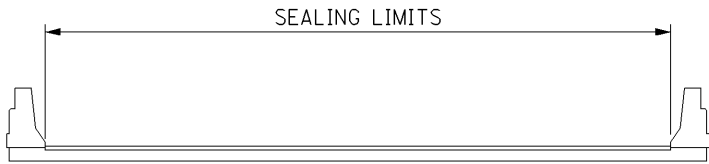
PATCHING CONCRETE BRIDGE DECK-TYPE B IS TO BE USED TO PATCH AREAS OF DETERIORATED CONCRETE DECK OVER 3” THICK. PATCHING CONCRETE STRUCTURE ITEM IS TO BE USED TO PATCH AREAS OF DETERIORATED CONCRETE PARAPETS, ETC. PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CON-TAINMENT, OR VACUUM ABRASIVE BLASTING.

AREAS OF DETERORATED CONCRETE TO BE REPAIRED SHALL BE MARKED BY THE PROJECT ENGINEER. MATERIALS SHOULD NOT BE ORDERED UNTIL THE AREAS FOR REPAIR HAVE BEEN MARKED. PATCHING SHALL PROCEED IN ACCORDANCE WITH PROPOSAL NOTE 512, UNLESS NOTED OTHERWISE.

THE FOLLOWING ESTMATED QUANTITIES ARE PROVIDED:

- 1) BUT-129-2316L = 1 SY (10 S.F.) FOR SPALL IN CENTER OF DECK NEAR REAR EXPANSION JOINT PER PROPOSAL NOTE 512, TYPE B PATCH. (02/NHS/BR FUNDING)
- 2) HAM-562-0147 = 2 SY (20 S.F.) FOR PATCHING OF TOP OF BACKWALL PER PROPOSAL NOTE 512, TYPE B. PATCH MAP CRACKING ON DETERIORATED PORTIONS OF EASTBOUND MEDIAN PARAPET PER CMS 519 50 S.F. REMOVE EXISTING CONCRETE SEALER AND RE-SEAL CONCRETE WITH EPOXY-URETHANE. PARAPET REPAIR LOCATED BETWEEN PIER 2 AND HINGED DECK JOINT. SEALING REMOVAL QUANTITY = 6 SY. CONCRETE SEALING QUANTITY = 6 SY (02/NHS/BR FUNDING)
- 3) WAR-48-0863 = 7 SY (60 S.F.) FOR SPALLED WEARING SURFACE IN TWO LOCATIONS IN SOUTHBOUND LANE PER PROPOSAL NOTE 512, TYPE B PATCH. (02/NHS/BR FUNDING)
- 4) HAM-75-1192R = 1 SY (6 S.F.) OF FAILING DECK PATCH AT REAR EXPANSION JOINT IN CENTER LANE PER PROPOSAL NOTE 512, TYPE B PATCH (01/IMS/BR FUNDING)

PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 519 - PATCHING CONCRETE BRIDGE DECK-TYPE B.

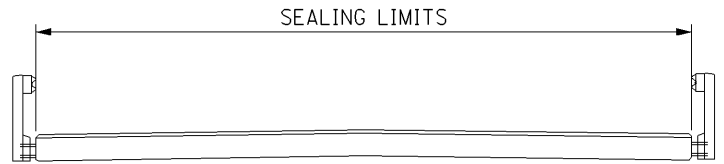


TOE/TOE OF PARAPET

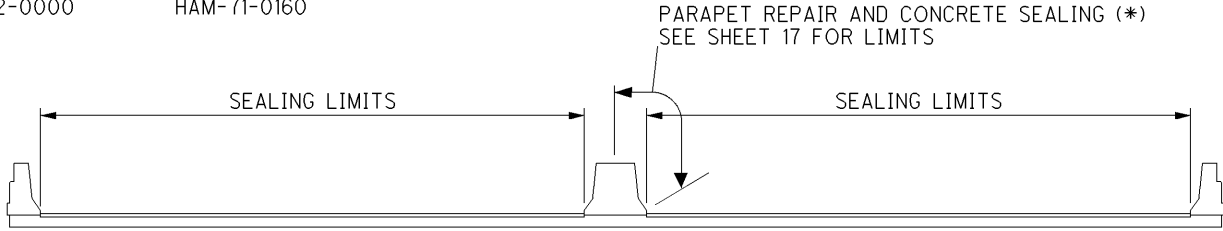
BUT-129-2316L
 BUT-129-2316R
 HAM-75-1192R
 HAM-471-0000L
 HAM-471-0000R
 HAM-471-0000W
 HAM-471-0000N
 HAM-42-0000

HAM-50-1903L
 HAM-50-1903R
 HAM-50-2173L
 HAM-50-2173R
 HAM-50-2180N
 HAM-50-2198N
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 HAM-71-0160

HAM-71-1514L
 HAM-71-1514R
 WAR-22-0303
 WAR-48-0863

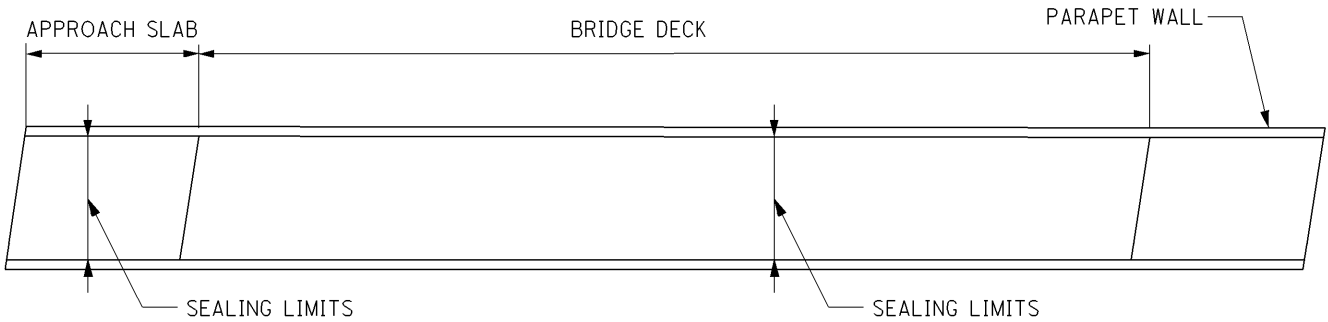


F/F GUARDRAIL



TOE/TOE OF PARAPET WITH MEDIAN

HAM-275-2572
 (*) HAM-562-0147



SEAL ALL BRIDGE DECK SURFACES
 AND APPROACH SLABS, AS PER PLAN

