STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

D05 FY2026
BRIDGE REHAB EAST

COSHOCTON, GUERNSEY, AND MUSKINGUM COUNTIES

FOR LOCATION MAPS
AND DESIGN DESIGNATIONS
SEE LOCATION MAP SHEETS

LOCATION MAP

Addendum 002

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REHABILITATION OF BRIDGES PRIOR TO RESURFACING:
DECK PATCHING, DECK SEALING, VARIOUS SUBSTRUCTURE
AND SUPERSTRUCTURE REPAIRS, SPOT PAINTING,
AND BRIDGE CLEANING

EARTH DISTURBED AREAS

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

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 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.

Jason L. Sturgeon, P.E.
District 05 Deputy Director

Pamela Boratyn
Director, Department of Transportation

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:
OHIO DEPARTMENT
OF TRANSPORTATION
DISTRICT 5

STANDARD CONSTRUCTION DRAWINGS								*SUPPLEMENTAL SPECIFICATIONS*		*SPECIAL PROVISIONS*
BP-3.1	*1/19/24*	*MT-99.30*	*1/17/20*					*800-2023*	*1/17/25*	*ASBESTOS SURVEY REPORT 05-01-2025*
BP-9.1	*1/18/19*	*MT-101.70*	*7/19/24*					*808*	*7/19/24*	
		MT-101.75	*7/21/23*					*832*	*7/19/24*	
MGS-1.1	*1/17/25*	*MT-102.10*	*7/21/23*					*843*	*1/19/24*	
MGS-2.1	*1/17/25*	*MT-102.20*	*4/19/19*					*908*	*1/17/25*	
MGS-3.1	*1/19/18*	*MT-102.30*	*10/16/15*							
MGS-3.2	*1/18/13*	*MT-104.10*	*1/19/24*							
MGS-6.1	*1/19/18*	*MT-105.10*	*1/17/20*							
PCB-91	*7/17/20*	*TC-61.30*	*7/19/24*							
SBR-3-20	*7/19/24*	*TC-65.10*	*1/17/14*							
		TC-65.11	*1/17/25*							
MT-95.30	*7/19/19*									
MT-95.45	*7/21/23*									
MT-95.50	*7/21/17*									
MT-97.10	*4/19/19*									

ENGINEER'S SEAL

STATE OF OHIO
JOCELYN STEPHAN
E-83983
REGISTERED
PROFESSIONAL ENGINEER

TITLE SHEET

DESIGN AGENCY

DESIGNER MHK
REVIEWER JKS 02/14/25
PROJECT ID 121867
SHEET P.1 TOTAL 62

D05 FY2026 BRIDGE REHAB EAST

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2025 TIME: 1:13:52 PM USER: mkinnair
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05_D05\121867\400-Engineering\Roadway\Sheets\121867_GT001.dgn

ITEM 614 MAINTAINING TRAFFIC

TWO-WAY TRAFFIC SHALL BE MAINTAINED AS PER THE DETAIL SHEETS AND SPECIFICATIONS AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE OPERATIONS SECTIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS LATEST REVISION. IN ADDITION, THE FOLLOWING REQUIREMENTS SHALL APPLY:

FOR LOCATIONS ON S.R. 83, S.R. 93, S.R. 541, AND INTERSTATE OVERHEADS, A MINIMUM OF ONE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES.

FOR LOCATIONS ON I.R. 70 AND I.R. 77, MAINTAIN TRAFFIC ACCORDING TO THE PERMITTED LANE CLOSURE SCHEDULE (PLCS).

FOR STRUCTURES GUE-70-12.75 L&R, MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION ACCORDING TO THE PERMITTED LANE CLOSURE SCHEDULE (PLCS) AND AS SHOWN IN THE DETAILS ON THE FOLLOWING SHEETS.

LANE CLOSURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD DRAWINGS LISTED ON THE TITLE SHEET, IN CONSIDERATION OF THE TRAFFIC FLOW. LANE CLOSURES SHALL ONLY OCCUR DURING CONTRACTOR WORK HOURS.

LENGTH AND DURATION OF LANE CLOSURES SHALL BE AT THEAPPROVAL 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.

THE CONTRACTOR WILL HAVE ON SITE AND IN WORKING AND/OR SUITABLE CONDITION; ALL EQUIPMENT, TOOLS, LABORERS, LEOS, TRAFFIC CONTROL DEVICES, AND INCIDENTALS NECESSARY TO EFFICIENTLY PERFORM THE CLOSURE BEFORE INITIALIZING THE LANE CLOSURE.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF A PERSON OR PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IMMEDIATELY, AS PER 614.03 (C).

THE PLANS INDICATE THE MINIMUM SIGNAGE WHICH MUST BE INSTALLED AND/OR MAINTAINED DURING ALL PHASES OF CONSTRUCTION. EXISTING SIGNS OR CONTRACTOR SUPPLIED SIGNS SHALL BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION.

THE ENGINEER SHALL RECORD INSTALLATION AND REMOVAL OF PROPOSED SIGNS, COVERED OR REMOVED AND UNCOVERED OR REERECTED SIGNS IN THE PROJECT DIARY.

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

ITEM 614 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING NON-GATING IMPACT ATTENUATORS. FURNISH IMPACT ATTENUATORS FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, AVAILABLE AT THE "ROADWAY STANDARDS: PROPRIETARY ROADSIDE SAFETY DEVICES" WEB PAGE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

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

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED ATTENUATOR WITHIN 24 HOURS OF A DAMAGING IMPACT. WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

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

ITEM 614 WORK ZONE IMPACT
ATTENUATOR (UNIDIRECTIONAL)..... **2 EA**

SEQUENCE OF OPERATIONS (GUE-70-12.75 L&R):

PRE-WORK PHASE:
1) UTILIZING NECESSARY TRAFFIC CONTROL DEVICES, CLOSE THE OUTSIDE DRIVING LANE OF I.R. 70 EASTBOUND AND THE INSIDE PASSING LANE OF I.R. 70 WESTBOUND AND MAINTAIN TRAFFIC BY USE OF THE OPEN LANES.
2) FILL IN THE RUMBLE STRIPS ON THE SHOULDERS WITH ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449) TO ALLOW FOR MAINTAINING TRAFFIC ON THE SHOULDERS.

WORK PHASE:
1) SET UP TRAFFIC CONTROL AS SHOWN ON MOT SHEETS.
2) WORK PHASE SHALL INCLUDE:
- REMOVAL AND CONSTRUCTION OF EXISTING LOW SIDE DECK EDGES AND PARAPETS.
- REMOVAL OF NECESSARY GUARDRAIL AND BRIDGE TERMINAL ASSEMBLIES. INSTALLATION OF PROPOSED GUARDRAIL AND ASSOCIATED ASSEMBLIES.
- REPLACEMENT OF ASPHALT WEARING COURSE.
- COMPLETION OF ALL OTHER WORK AS DESIGNATED IN THESE PLANS.

POST-WORK PHASE:
1) RESTORE I.R. 70 TO PRE-CONSTRUCTION OPERATING CONDITION, INCLUDING:
- REMOVE ALL TEMPORARY/ WORK ZONE TRAFFIC CONTROL DEVICES (I.E. PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS).
- PLACE ALL PERMANENT PAVEMENT MARKINGS.
- REPLACE PERMANENT RAISED PAVEMENT MARKERS.

Reference to restoring Rumble Strips removed

GENERAL
IT IS THE INTENT OF THIS SEQUENCE OF OPERATIONS TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC. (REFER TO MAINTAINING TRAFFIC NOTES FOR RESTRICTIONS).

IF THE CONTRACTOR SO ELECTS, HE/SHE MAY SUBMIT ALTERNATIVE METHODS FOR THE MAINTENANCE OF TRAFFIC. PROVIDED THE INTENT OF THE ABOVE PROVISIONS ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE ENGINEER.

ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE OPENING ANY LANES TO TRAFFIC.

LANE VALUE - I.R. 70

LANE CLOSURES WILL ONLY BE IMPLEMENTED AT THE TIMES LISTED ON THE OHIO DEPARTMENT OF TRANSPORTATION'S ROADWAY ENGINEERING WEB SITE, TRAFFIC CONTROL SECTION, "PERMITTED LANE CLOSURE SCHEDULE (PLCS)" PAGE.

THE PERMITTED CLOSURE TIMES LISTED ON THE WEBSITE, 14 CALENDAR DAYS PRIOR TO THE BID LETTING DATE, WILL BE IN EFFECT FOR THIS PROJECT. NO WORK WITHIN ACTIVE TRAVEL LANES OR WHICH WILL SLOW TRAFFIC IS PERMITTED AT ANY OTHER TIMES.

WHEN NECESSARY, LANE CLOSURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD DRAWINGS.

THE CONTRACTOR MAY CLOSE ONE LANE IN BOTH EASTBOUND AND WESTBOUND DIRECTIONS. THE TRAFFIC CLOSURES WILL BE BETWEEN THE HOURS INDICATED ON THE O.D.O.T. WEB SITE, SHOULD THE CONTRACTOR CLOSE THE LANES BEFORE THE ALLOWABLE TIME AND/OR FAIL TO RE-OPEN ALL LANES TO TRAFFIC, BY THE ALLOWABLE TIME. A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE AND PROPOSAL NOTE 127 WILL BE ASSESSED.

LANE VALUE CONTRACT TABLE - I.R. 70

DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE $ PER TIME UNIT
1 LANE OF GUE I.R. 70 FROM MM 12.25 TO 17.50 EB AND WB	O.D.O.T. WEB SITE: PERMITTED LANE CLOSURE TIMES	EACH MINUTE	$225

ITEM 614 - MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC .....**10 CY**

ITEM 614 - MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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

EASTER
MEMORIAL DAY
FOURTH OF JULY
LABOR DAY
PAUL BUNYAN SHOW (10/3-10/5)
THANKSGIVING
CHRISTMAS
NEW YEARS

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

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $75 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

ITEM 614 - WORK ZONE INCREASED PENALTIES SIGN

R11-H5a-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO THE TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE SIGNS (R11-H5a-48) ON THE MAINLINE SHALL BE DUAL-MOUNTED. THE SIGNS SHALL BE PLACED BETWEEN THE "ROAD WORK AHEAD" SIGN (W20-1) AND THE NEXT SIGN IN THE SEQUENCE.

THE R11-H5a-48 SIGNS SHALL BE MOUNTED ON TWO NO. 3 POSTS WHEN LOCATED IN THE CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS, AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

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

ITEM 614 - WORK ZONE INCREASED PENALTIES SIGN.....**2 EA**

WORK ZONE SPEED ZONE (WZSZ)

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

WORK ZONE REVISION NUMBER(S)	COUNTY-ROUTE-SECTION(S)	DIRECTION(S)
WZ-30798	**GUE-70-12.49 TO 13.01**	**EB AND WB**

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRECONSTRUCTION) 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 SPEED LIMIT ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.)

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, PRECONSTRUCTION, 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. 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 LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
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 808 DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY..... **4 SNMT**
(ASSUMING **2 DSL SIGN ASSEMBLIES** FOR **2 MONTHS**)

REMOVAL OF EXISTING PORTABLE CONCRETE BARRIER

BRIDGE NO. GUE-70-1275L CURRENTLY HAS PORTABLE CONCRETE BARRIER BLOCKING OFF THE DAMAGED DECK EDGE. CONTRACTOR SHALL COORDINATE WITH ROADWAY SERVICES MANAGER DOUG RIFFLE (DOUGLAS.RIFFLE@DOT.OHIO.GOV OR 740-323-5270) FOR PICKUP BY ODOT CREWS OR DELIVERY TO THE GARAGE OF IN-PLACE PORTABLE BARRIER. THIS WORK IS INCLUDED FOR PAYMENT IN ITEM 614 - MAINTAINING TRAFFIC.

D05 FY2026 BRIDGE REHAB EAST
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2025 TIME: 1:14:26 PM USER: mkimair
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DESIGN AGENCY

DESIGNER MHK
REVIEWER JKS 02/14/25
PROJECT ID 121867
SHEET P.7 TOTAL 62

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, **4 CHANGEABLE MESSAGE** SIGNS. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT'S 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 ONSITE 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 CMS 614.03.

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 TWO 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 PRECONSTRUCTION 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 CMS 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 NONCOMPLIANCE, 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

ESTIMATED 4 SIGNS X 3 MONTHS = 12 SNMT

ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES(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) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS, AS DIRECTED 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, AND NIGHT WORK ON THE INTERSTATE.

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 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 LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT 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. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASIHG LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. 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 HIS/HER SHIFT.

LAW ENFORCEMENT OFFICERS (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 HOURS PAID SHALL INCLUDE 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 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.....**500 HOURS**

GUE-70-12.75 L&R MOT CALCULATIONS

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER

EASTBOUND:
RIGHT (WHITE) - STA. 377+00 TO STA. 390+35, 20' SPA. = 68 EACH
RIGHT (WHITE) - STA. 395+25 TO STA. 408+60, 20' SPA. = 68 EACH
LEFT (YELLOW) - STA. 377+00 TO STA. 390+35, 20' SPA. = 68 EACH
LEFT (YELLOW) - STA. 395+25 TO STA. 408+60, 20' SPA. = 68 EACH
CENTER (WHITE) - STA. 377+00 TO STA. 390+35, 20' SPA. = 68 EACH
CENTER (WHITE) - STA. 390+35 TO STA. 395+25, 120' SPA. = 5 EACH
CENTER (WHITE) - STA. 395+25 TO STA. 408+60, 20' SPA. = 68 EACH

WESTBOUND:
RIGHT (WHITE) - STA. 384+65 TO STA. 398+00, 20' SPA. = 68 EACH
RIGHT (WHITE) - STA. 402+90 TO STA. 416+25, 20' SPA. = 68 EACH
LEFT (YELLOW) - STA. 384+65 TO STA. 398+00, 20' SPA. = 68 EACH
LEFT (YELLOW) - STA. 402+90 TO STA. 416+25, 20' SPA. = 68 EACH
CENTER (WHITE) - STA. 384+65 TO STA. 398+00, 20' SPA. = 68 EACH
CENTER (WHITE) - STA. 398+00 TO STA. 402+90, 120' SPA. = 5 EACH
CENTER (WHITE) - STA. 402+90 TO STA. 416+25, 20' SPA. = 68 EACH

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER..... **826 EACH**

ITEM 614 - BARRIER REFLECTORS/OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET.

STATIONING	SPACING (FT.)	TYPE 1 (WHITE)	TYPE 2 (WHITE)	OBJECT MARKER, ONE WAY
EASTBOUND (ON EXISTING GUARDRAIL)				
STA. 395+04 TO 396+04	50		2	2
EASTBOUND (ON EXISTING BRIDGE RAIL)				
STA. 396+04 TO 397+74	50	4		4
EASTBOUND (ON PORTABLE BARRIER)				
STA. 394+65 TO 398+25	50	9		9
WESTBOUND (ON EXISTING BRIDGE RAIL)				
STA. 395+78 TO 397+48	50	4		4
WESTBOUND (ON EXISTING GUARDRAIL)				
STA. 397+48 TO 397+98	50		1	1
WESTBOUND (ON PORTABLE BARRIER)				
STA. 395+00 TO 398+60	50	9		9
TOTAL		26	3	29

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - OBJECT MARKER, ONE WAY..... **29 EACH**
ITEM 614 - BARRIER REFLECTOR, TYPE 1 (ONE WAY) ..... **26 EACH**
ITEM 614 - BARRIER REFLECTOR, TYPE 2 (ONE WAY) ..... **3 EACH**

ITEM 614 - WORK ZONE EDGE LINE, CLASS 1, 6"

EASTBOUND:
RIGHT (WHITE) - STA. 377+00 TO STA. 408+60 = 3,160 FT = 0.60 MILE
LEFT (YELLOW) - STA. 377+00 TO STA. 408+60 = 3,160 FT = 0.60 MILE
WESTBOUND:
RIGHT (WHITE) - STA. 384+65 TO STA. 416+25 = 3,160 FT = 0.60 MILE
LEFT (YELLOW) - STA. 384+65 TO STA. 416+25 = 3,160 FT = 0.60 MILE

ITEM 614 - WORK ZONE EDGE LINE, CLASS 1, 6" ..... **2.40 MILES**

ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS 1, 8"

EASTBOUND:
STA. 377+00 TO STA. 408+60 = 3,160 FT
WESTBOUND:
STA. 384+65 TO STA. 416+25 = 3,160 FT

ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS 1, 8" .... **6,320 FT**

ITEM 622 - PORTABLE BARRIER, UNANCHORED

EASTBOUND:
STA. 394+65 TO STA. 395+97 (INCLUDING TAPER) = 132 FT
STA. 397+65 TO STA. 398+25 = 60 FT
WESTBOUND:
STA. 395+00 TO STA. 395+72 = 72 FT
STA. 397+40 TO STA. 398+60 (INCLUDING TAPER) = 120 FT

ITEM 622 - PORTABLE BARRIER, UNANCHORED ..... **384 FT**

ITEM 622 - PORTABLE BARRIER, ANCHORED

EASTBOUND:
STA. 395+97 TO STA. 397+65 = 168 FT
WESTBOUND:
STA. 395+72 TO STA. 397+40 = 168 FT

ITEM 622 - PORTABLE BARRIER, UNANCHORED ..... **336 FT**

ITEM 407 - NON TRACKING TACK COAT

EASTBOUND RUMBLE STRIPS:
STA. 380+00 TO STA. 405+60 = 2,560 FT
BRIDGE DEDUCTION - 172 FT
(2,388 FT X 2 FT WIDTH)/9 = 531 SY
531 SY X 0.06 GAL/SY = 31.86 GAL

WESTBOUND RUMBLE STRIPS:
STA. 387+65 TO STA. 413+25 = 2,560 FT
BRIDGE DEDUCTION - 172 FT
(2,388 FT X 2 FT WIDTH)/9 = 531 SY
531 SY X 0.06 GAL/SY = 31.86 GAL

ITEM 407 - NON TRACKING TACK COAT ..... **64 GAL**

ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449)

EASTBOUND RUMBLE STRIPS:
STA. 380+00 TO STA. 405+60 = 2,560 FT
BRIDGE DEDUCTION - 172 FT
(2,388 FT X 2 FT WIDTH X 0.75 IN DEPTH)/27 = 11.06 CY

WESTBOUND RUMBLE STRIPS:
STA. 387+65 TO STA. 413+25 = 2,560 FT
BRIDGE DEDUCTION - 172 FT
(2,388 FT X 2 FT WIDTH X 0.75 IN DEPTH)/27 = 11.06 CY

ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) ..... **23 CY**

GUE-70-12.75 L&R PROPOSED TRAFFIC CONTROL CALCULATIONS

ITEM 621 - RPMS
ITEM 621 - RAISED PAVEMENT MARKER REMOVED

Rumble Strips item removed

EASTBOUND:
STA. 377+00 TO STA. 408+60 = 3,160 FT
3,160 FT/120 = 27 EACH

WESTBOUND RUMBLE STRIPS:
STA. 384+65 TO STA. 416+25 = 3,160 FT
3,160 FT/120 = 27 EACH

ITEM 621 - RPMS ..... **54 EACH**
ITEM 621 - RAISED PAVEMENT MARKER REMOVED..... **54 EACH**

ITEM 642 - EDGE LINE, 6", TYPE 1

EASTBOUND:
RIGHT (WHITE) - STA. 377+00 TO STA. 408+60 = 3,160 FT = 0.60 MILE
LEFT (YELLOW) - STA. 377+00 TO STA. 408+60 = 3,160 FT = 0.60 MILE
WESTBOUND:
RIGHT (WHITE) - STA. 384+65 TO STA. 416+25 = 3,160 FT = 0.60 MILE
LEFT (YELLOW) - STA. 384+65 TO STA. 416+25 = 3,160 FT = 0.60 MILE

ITEM 642 - EDGE LINE, 6", TYPE 1 ..... **2.40 MILES**

ITEM 642 - LANE LINE, 6", TYPE 1

EASTBOUND:
STA. 377+00 TO STA. 408+60 = 3,160 FT = 0.60 MILE

WESTBOUND:
STA. 384+65 TO STA. 416+25 = 3,160 FT = 0.60 MILE

ITEM 642 - LANE LINE, 6", TYPE 1 ..... **1.20 MILES**

MAINTENANCE OF TRAFFIC NOTES 2

DESIGN AGENCY

DESIGNER MHK
REVIEWER JKS 02/14/25
PROJECT ID 121867
SHEET P.8 TOTAL 62

D05 FY2026 BRIDGE REHAB EAST

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2025 TIME: 1:14:32 PM USER: mkinnair
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05_D05\121867\400-Engineering\MOT\Sheets\121867_MN002.dgn

SHEET NUMBER													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	8	20	21	24	32	43	49						01/NFP/47						
																		ROADWAY	
													LS	201	11000	LS		CLEARING AND GRUBBING	
						134	134						268	202	23500	268	SY	WEARING COURSE REMOVED	
2													2	209	15000	2	STA	RESHAPING UNDER GUARDRAIL	5
10													10	209	70000	10	CY	BORROW	5
						50	25						75	606	15050	75	FT	GUARDRAIL, TYPE MGS	
						1	1						2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						1							1	606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
																		EROSION CONTROL	
					89								89	601	20010	89	CY	CRUSHED AGGREGATE SLOPE PROTECTION	
1,500													1,500	659	00510	1,500	SY	SEEDING AND MULCHING, CLASS 2	
0.21													0.21	659	20000	0.21	TON	COMMERCIAL FERTILIZER	
0.32													0.32	659	31000	0.32	ACRE	LIME	
8.1													8.1	659	35000	8.1	MGAL	WATER	
													20,000	832	30000	20,000	EACH	EROSION CONTROL	
																		PAVEMENT	
	64					8	8						80	407	20000	80	GAL	NON-TRACKING TACK COAT	
	23					11	11						45	441	70200	45	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449)	
																		TRAFFIC CONTROL	
	54												54	621	00100	54	EACH	RPM	
	54												54	621	54000	54	EACH	RAISED PAVEMENT MARKER REMOVED	
	2.4	1.06											3.46	642	00104	3.46	MILE	EDGE LINE, 6", TYPE 1	
	1.2	0.16											1.36	642	00204	1.36	MILE	LANE LINE, 6", TYPE 1	
		0.38											0.38	642	00300	0.38	MILE	CENTER LINE, TYPE 1	
																		STRUCTURE REPAIR (SFN 1601768 OR COS-93-00.23)	
		654											654	512	10301	654	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
		64											64	516	31011	64	FT	2" DEEP JOINT SEALER, AS PER PLAN	6
		33											33	519	12300	33	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
			52										52	843	50001	52	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 1602578 OR COS-541-33.36)	
		100											100	512	10301	100	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
				6									6	SPECIAL	51275500	6	SY	SEALING: LIQUID FLEXIBLE SEALANT	6
				60									60	516	31011	60	FT	2" DEEP JOINT SEALER, AS PER PLAN	6
			26										26	519	11101	26	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN (BOX BEAM JOINTS)	6
		5											5	519	12300	5	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
			16										16	843	50001	16	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 3006034 OR GUE-541-01.58)	
		421											421	512	10301	421	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			11										11	SPECIAL	51911900	11	CY	PATCHING CONCRETE STRUCTURE (FULL DEPTH BRIDGE DECK)	6
		42											42	519	12300	42	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 3006069 OR GUE-541-03.72)	
		632											632	512	10301	632	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
		32											32	519	12300	32	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 3006158 OR GUE-541-07.46)	
		801											801	512	10301	801	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
		40											40	519	12300	40	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	

Rumble Strips item removed

GENERAL SUMMARY 1

D05 FY2026 BRIDGE REHAB EAST

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2025 TIME: 1:15:19 PM USER: mkinnair
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DESIGN AGENCY

DESIGNER MHK

REVIEWER JKS 02/14/25

PROJECT ID 121867

SHEET P.17 TOTAL 62

SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
20	21	27	32	34	37	43	49	55	59				01/NFP/47		EXT	TOTAL			
																		STRUCTURE REPAIR (SFN 3006212 OR GUE-541-08.40)	
1,041													1,041	512	10301	1,041	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
		76											76	SPECIAL	51900100	76	SF	COMPOSITE FIBER WRAP SYSTEM	6
52													52	519	12300	52	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
	19												19	843	50001	19	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 3003329 OR GUE-77-15.48L)	
													LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)	5
			5,098										5,098	509	26000	5,098	LB	GALVANIZED STEEL REINFORCEMENT	
			256										256	510	10001	256	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	5
			27										27	511	71100	27	CY	CONCRETE, MISC.: HIGH EARLY STRENGTH PUMPED SELF CONSOLIDATING CONCRETE	6
																		STRUCTURE REPAIR (SFN 3001024 OR GUE-70-6.55L)	
				300									300	SPECIAL	51275500	300	SY	SEALING: LIQUID FLEXIBLE SEALANT	6
																		STRUCTURE REPAIR (SFN 3001059 OR GUE-70-6.55R)	
				300									300	SPECIAL	51275500	300	SY	SEALING: LIQUID FLEXIBLE SEALANT	6
																		STRUCTURE REPAIR (SFN 3001083 OR GUE-70-7.35)	
					151								151	SPECIAL	51900100	151	SF	COMPOSITE FIBER WRAP SYSTEM	6
	38												38	843	50001	38	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 3001474 OR GUE-70-12.32L)	
2,664													2,664	512	10301	2,664	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
53													53	519	12300	53	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 3001504 OR GUE-70-12.32R)	
2,664													2,664	512	10301	2,664	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
53													53	519	12300	53	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 3001539 OR GUE-70-12.75L)	
						30							30	202	11301	30	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (DECK EDGE AND PARAPET)	5
						1							1	202	47000	1	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
						4,029							4,029	509	26000	4,029	LB	GALVANIZED STEEL REINFORCEMENT	
						2,178.17							2,178.17	509	30020	2,178.17	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
						39							39	511	34449	39	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	5
																		STRUCTURE REPAIR (SFN 3001563 OR GUE-70-12.75R)	
							30						30	202	11301	30	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (DECK EDGE AND PARAPET)	5
							1						1	202	47000	1	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
							4,029						4,029	509	26000	4,029	LB	GALVANIZED STEEL REINFORCEMENT	
							2,178.17						2,178.17	509	30020	2,178.17	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
							39						39	511	34449	39	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	5
																		STRUCTURE REPAIR (SFN 3001628 OR GUE-70-13.34)	
805													805	512	10301	805	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
								663					663	514	27700	663	SF	FIELD PAINTING, MISC.: MAIN AND SECONDARY MEMBERS	6
								164					164	516	31011	164	FT	2" DEEP JOINT SEALER, AS PER PLAN	6
40													40	519	12300	40	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
								2					2	SPECIAL	53000400	2	EACH	STRUCTURES: CLEANING OF BRIDGE JOINTS	51
								2					2	SPECIAL	53000400	2	EACH	STRUCTURES: CLEANING OF BRIDGE SEATS	51
								18					18	SPECIAL	53000400	18	EACH	STRUCTURES: CLEANING OF DRAINAGE SYSTEMS	51
																		STRUCTURE REPAIR (SFN 3001687 OR GUE-70-16.56L)	
									317				317	514	27700	317	SF	FIELD PAINTING, MISC.: MAIN AND SECONDARY MEMBERS	6
	226												226	519	11101	226	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN (PIER COLUMNS)	6
	80												80	843	50001	80	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6

GENERAL SUMMARY 2

D05 FY2026 BRIDGE REHAB EAST

DESIGN AGENCY

DESIGNER MHK

REVIEWER JKS 02/14/25

PROJECT ID 121867

SHEET P.18 TOTAL 62

SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
5	7	8	20	21	59	62							01/NFP/47		EXT	TOTAL			NO.
																		STRUCTURE REPAIR (SFN 3001717 OR GUE-70-16.56R)	
					317								317	514	27700	317	SF	FIELD PAINTING, MISC.: MAIN AND SECONDARY MEMBERS	6
				226									226	519	11101	226	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN (PIER COLUMNS)	6
				80									80	843	50001	80	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 3001741 OR GUE-70-17.30)	
			875										875	512	10301	875	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			18										18	519	12300	18	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 6003842 OR MUS-83-01.38)	
			1,078										1,078	512	10301	1,078	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			22										22	519	12300	22	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 6003885 OR MUS-83-07.16)	
			198										198	512	10301	198	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			68										68	516	31011	68	FT	2" DEEP JOINT SEALER, AS PER PLAN	6
			20										20	519	12300	20	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (SFN 6003966 OR MUS-83-09.22)	
			42										42	512	10301	42	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			4										4	519	12300	4	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
				80									80	843	50001	80	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 6004008 OR MUS-83-11.34)	
LS													LS	202	98000	LS		REMOVAL MISC.: CATTLE FENCE	5
			491										491	512	10301	491	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			25										25	519	12300	25	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
				36									36	843	50001	36	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 6004024 OR MUS-83-11.67)	
			52										52	512	10301	52	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN	6
			5										5	519	12300	5	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
				52									52	843	50001	52	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	6
																		STRUCTURE REPAIR (SFN 6004059 OR MUS-83-14.34)	
						8							8	SPECIAL	51275500	8	SY	SEALING LIQUID FLEXIBLE SEALANT	6
				38									38	519	11101	38	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN (BOX BEAM JOINTS)	6
																		MAINTENANCE OF TRAFFIC	
		500											500	614	11110	500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	2												2	614	12380	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
	2												2	614	12484	2	EACH	WORK ZONE INCREASED PENALTIES SIGN	
		826											826	614	12800	826	EACH	WORK ZONE RAISED PAVEMENT MARKER	
	10												10	614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		26											26	614	13310	26	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
		3											3	614	13312	3	EACH	BARRIER REFLECTOR, TYPE 2 (ONE WAY)	
		29											29	614	13350	29	EACH	OBJECT MARKER, ONE WAY	
		12											12	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	8
			0.16										0.16	614	20560	0.16	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
			0.38										0.38	614	21550	0.38	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
		2.4											2.4	614	22010	2.4	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
			1.06										1.06	614	22360	1.06	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
		6,320											6,320	614	23000	6,320	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
		384											384	622	41100	384	FT	PORTABLE BARRIER, UNANCHORED	
		336											336	622	41110	336	FT	PORTABLE BARRIER, ANCHORED	
	4												4	808	18700	4	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY 3

D05 FY2026 BRIDGE REHAB EAST

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2025 TIME: 1:15:29 PM USER: mkinnair
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05_D05\121867\400-Engineering\Roadway\Sheets\121867_GG003.dgn

DESIGN AGENCY

DESIGNER MHK

REVIEWER JKS 02/14/25

PROJECT ID 121867

SHEET P.19 TOTAL 62

ITEM 514 - FIELD PAINTING, MISC: MAIN AND SECONDARY MEMBERS

DESCRIPTION	#		L		W			C.F.		SQ FT
GUE-70-1656L BOTTOM FLANGES	6	x	60	x	1.0417	x	÷	50%	=	187.5
GUE-70-1656L CROSSFRAMES	13	x	2	x	0.25	x	÷	75%	=	4.9
GUE-70-1656L END CROSSFRAMES	10	x	2	x	0.25	x	÷	75%	=	3.8
WEBS/FLANGES AT BEAM ENDS	4	x	5	x	8.0834	x	÷	75%	=	121.3
								TOTAL CARRIED TO GENERAL SUMMARY =		317

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN (PIER COLUMNS)

DESCRIPTION	#		CIRC.		H			C.F.		SQ FT
GUE-70-1656L PIER BASES	8	x	9.42	x	3	x	100% ÷	1	=	226.1
		x		x		x	÷	1	=	
								TOTAL CARRIED TO SUBSUMMARY =		226

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN

DESCRIPTION	#		L		H			C.F.		SQ FT
GUE-70-1656L DECK CORNERS	4	x	10	x	2	x	÷	1	=	80.0
		x		x		x	÷	1	=	
								TOTAL CARRIED TO SUBSUMMARY =		80

ITEM 514 - FIELD PAINTING, MISC: MAIN AND SECONDARY MEMBERS

DESCRIPTION	#		L		W			C.F.		SQ FT
GUE-70-1656R BOTTOM FLANGES	6	x	60	x	1.0417	x	÷	50%	=	187.5
GUE-70-1656R CROSSFRAMES	13	x	2	x	0.25	x	÷	75%	=	4.9
GUE-70-1656R END CROSSFRAMES	10	x	2	x	0.25	x	÷	75%	=	3.8
WEBS/FLANGES AT BEAM ENDS	4	x	5	x	8.0834	x	÷	75%	=	121.3
		x		x		x	÷		=	
								TOTAL CARRIED TO GENERAL SUMMARY =		317

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN (PIER COLUMNS)

DESCRIPTION	#		CIRC.		H			C.F.		SQ FT
GUE-70-1656R PIER BASES	8	x	9.42	x	3	x	100% ÷	1	=	226.1
		x		x		x	÷	1	=	
								TOTAL CARRIED TO SUBSUMMARY =		226

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN

DESCRIPTION	#		L		H			C.F.		SQ FT
GUE-70-1656R DECK CORNERS	4	x	10	x	2	x	÷	1	=	80.0
		x		x		x	÷	1	=	
								TOTAL CARRIED TO SUBSUMMARY =		80

CALCULATIONS
BRIDGE NOS. GUE-70-1656 L&R
I-70 OVER US-40 & SR-285

SFN 3001687
SFN 3001717
DESIGN AGENCY

DESIGNER	CHECKER
MHK	TAG

REVIEWER JKS 02/14/25
PROJECT ID 121867
SUBSET 38 | TOTAL 41
SHEET P.59 | TOTAL 62

D05 FY2026 BRIDGE REHAB EAST

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2025 TIME: 1:19:26 PM USER: mkinnair
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05_D05\121867\V400-Engineering\Structures\SFN_0000000\Sheets\121867_SFN_3001687_SQ001.dgn