STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

D01-BM-FY26

DEFIANCE, HANCOCK, AND VAN WERT COUNTIES

NOBLE, JACKSON, AND PLEASANT TOWNSHIPS

FOR LOCATION MAPS SEE SHEET 2

LOCATION MAP

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

PERFORM MISCELLANEOUS BRIDGE MAINTENANCE ACTIVITIES ON VARIOUS BRIDGES IN DISTRICT 1.

EARTH DISTURBED AREAS

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

**ROUTINE MAINTENANCE PROJECT*

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHAL 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.

Christopher A. Hughes, P.E.
District 01 Deputy Director

Pamela Boratyn
Director, Department of Transportation

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

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 DEPT. OF TRANSPORTATION DISTRICT 1
1885 N MCCULLOUGH ST.
LIMA, OHIO, 45801

STANDARD CONSTRUCTION DRAWINGS

DM-4.3	*1/15/16*	*MT-102.20*	*4/19/19*				*800*	*7/18/25*	*WATERWAY PERMIT 12-03-25*
DM-4.4	*1/15/16*	*MT-102.30*	*10/16/15*				*808*	*7/19/24*	*ASBESTOS SURVEY 12-19-25*
		MT-104.10	*1/19/24*				*821*	*4/20/12*	
MT-095.30	*7/18/25*	*MT-105.10*	*1/17/20*				*832*	*7/18/25*	
MT-095.40	*7/18/25*						*843*	*1/19/24*	
MT-096.11	*7/18/25*	*TC-41.20*	*10/18/13*				*848*	*7/19/24*	
MT-096.20	*7/18/25*	*TC-42.10*	*10/18/13*				*908*	*1/17/25*	
MT-096.26	*1/17/25*	*TC-42.20*	*10/18/13*				*921*	*7/19/24*	
		TC-52.10	*10/18/13*						
MT-097.10	*7/18/25*	*TC-52.20*	*1/15/21*						
MT-101.70	*7/19/24*	*TC-61.30*	*7/19/24*						
MT-101.75	*7/21/23*								
MT-101.90	*7/17/20*	*AS-1-15*	*1/20/23*						
MT-102.10	*7/21/23*	*AS-2-15*	*7/21/23*						
		DS-1-92	*7/15/22*						

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISIONS

ENGINEER'S SEAL

STATE OF OHIO
CLARK R. SCHLATTER
E-87393
REGISTERED
PROFESSIONAL ENGINEER

DESIGN AGENCY

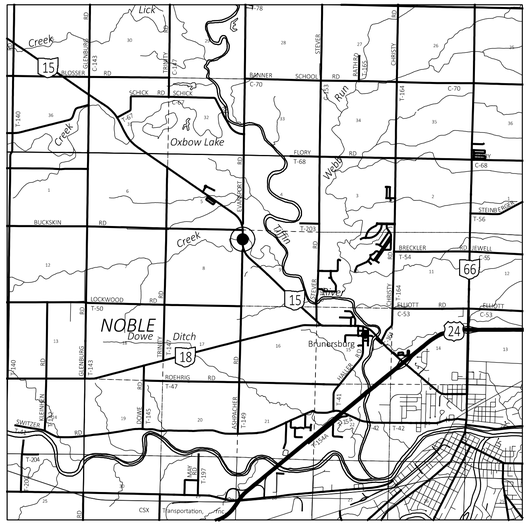
DESIGNER CRS
REVIEWER XXX MM-DD-YY
PROJECT ID 113342
SHEET P.1 TOTAL 17

TITLE SHEET

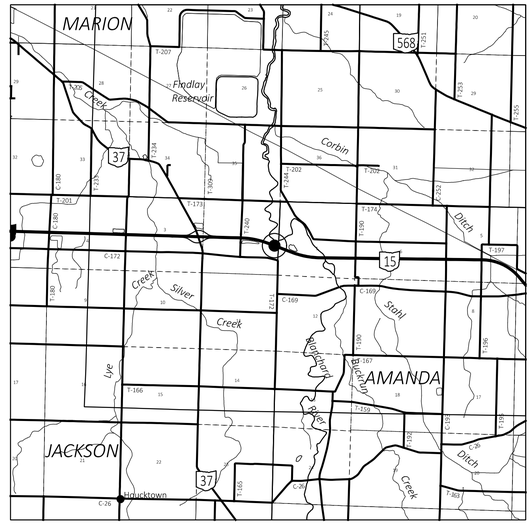
D01-BM-FY26

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:31:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCE.v02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01_D0111133421400-Engineering\Roadway\Sheets\113342_GT001.dgn

PROJECT LOCATION #1: DEF-15-10.52
LATITUDE 41°19'29" LONGITUDE 84°25'07"



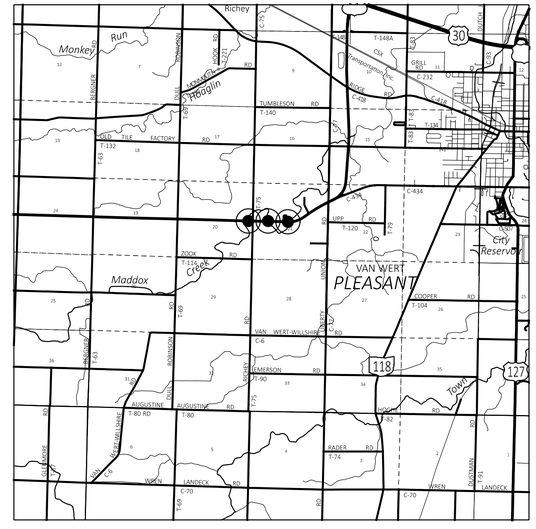
PROJECT LOCATION #2: HAN-15-22.46 R
LATITUDE 40°59'03" LONGITUDE 83°33'24"



PROJECT LOCATION #3: VAN-224-8.13
LATITUDE 40°51'05" LONGITUDE 84°38'58"

PROJECT LOCATION #4: VAN-224-8.38
LATITUDE 40°51'05" LONGITUDE 84°38'40"

PROJECT LOCATION #5: VAN-224-8.65
LATITUDE 40°51'05" LONGITUDE 84°38'22"



● - *PROJECT LOCATION*

LOCATION MAPS

D01-BM-FY26

DESIGN AGENCY

DESIGNER
CRS

REVIEWER
XXX MM-DD-YY

PROJECT ID
113342

SHEET P.2 | TOTAL 17

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY AND HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTPS://WWW.TRANSPORTATION.OHIO.GOV/ABOUT-US/POLICIES-AND-PROCEDURES/PROCEDURES/220-006-SP

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE:

XXIV. HEAD PROTECTION (HARD HATS)
ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE 1, CLASS E-G REQUIREMENTS.

XXXIV. SAFETY APPAREL AND VEST (HIGH VISIBILITY)
ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH-VISIBILTY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES."

WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III APPROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

CONTACT INFORMATION

THE CONTRACTOR SHALL NOT BEGIN WORK IN A COUNTY UNTIL CONTACTING THE COUNTY MANAGER AND PROJECT ENGINEER. BELOW IS A CONTACT LIST FOR COUNTY MANAGERS:

DEFIANCE COUNTY

CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
JASON HOSCHAK	DEPARTMENT MANAGER	(419) 999-6721	-
BRITTNI RIVERS	TRANSPORT MGR3	(419) 999-6722	-
JEFF HOLTSBERRY	TRANSPORT MGR1	(419) 999-6728	-

HANCOCK COUNTY

CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
DEIDRA MILLER	DEPARTMENT MANAGER	(419) 999-6731	-
TODD NOIROT	TRANSPORT MGR2	(419) 999-6732	-
JAMES HEACOCK	TRANSPORT MGR3	(419) 999-6738	-

VAN WERT COUNTY

CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
KYLE FIELDS	DEPARTMENT MANAGER	(419) 999-6771	-
BRYAN HOERSTEN	TRANSPORT MGR2	(419) 999-6778	-
PAT MCCONN	TRANSPORT MGR2	(419) 999-6772	-

EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA, OH. EXISTING PLANS MAY ALSO BE INSPECTED AT THE OFFICE OF CONTRACTS SITE FOR THE PROJECT.

ENVIRONMENTAL COMMITMENTS

NO EQUIPMENT OR MATERIALS CAN BE PLACED PERMANENTLY OR TEMPORARILY BELOW THE ORDINARY HIGH WATER MARK OF BUCKSKIN CREEK AT THE DEF-SR 15-10.52 BRIDGE.

ODOT WILL ACQUIRE ALL NECESSARY WATERWAY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONDITIONS OF THESE PERMITS WILL BE PROVIDED IN THE CONTRACT AS SPECIAL PROVISIONS. ODOT WILL PROVIDE THE WATERWAY PERMITS TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL THE SPECIAL PROVISIONS OF THE WATERWAY PERMITS THROUGHOUT THE DURATION OF THE CONTRACT.

EROSION CONTROL

THE QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR EROSION CONTROL:

ITEM 832 EROSION CONTROL 1000 EACH

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF RE-PAIRING AREAS EXHIBITING SURFACE DETERIORATION ADJACENT TO THE APPROACH SLABS BEING OVERLAID AND PLACING ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22. IN ADDITION, THIS ITEM SHALL BE USED TO PROVIDE A SMOOTH TRANSITION INTO THE OVERLAID APPROACH SLABS AS DIRECTED BY THE ENGINEER. FOR PLACEMENT OF ITEM 441, A PG64-22 BINDER IS REQUIRED, AND IT SHALL BE PLACED IN TWO ONE AND HALF INCH LIFT THICKNESS. THE ENGINEER SHALL DETERMINE WHICH ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF THE ABUTTING APPROACH SLAB OVERLAY WORK.

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF SURFACE PAVEMENT REPAIR.

ITEM 253 - PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUT-TING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH ADJACENT TO THE APPROACH SLABS BEING OVERLAID AND PLACING 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. THE FULL DEPTH PAVEMENT REPAIRS SHALL HAVE A SURFACE COURSE APPLIED PER THE NOTE AND REQUIREMENTS FOR ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441). PAYMENT FOR THE SURFACE COURSE SHALL BE INCLUDED WITH ITEM 251. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF THE ABUTTING APPROACH SLAB OVERLAY WORK.

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF CUBIC YARDS OF PAVEMENT REPAIR.

ENVIRONMENTAL COMMITMENT

AN ASBESTOS SURVEY OF THE HAN-SR 15-22.46 SFN:3200698 LOCATION, SCHEDULED FOR RENOVATION, WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. THE SURVEY DETERMINED 160 SF OF NON-FRIABLE REGULATED ASBESTOS-CONTAINING MATERIALS IS PRESENT ON THE STRUCTURE WHICH IS IN EXCESS OF THE ALLOWABLE REGULATORY LIMITS AND REQUIRES ABATEMENT. THE QUANTITIES AND LOCATIONS OF THE REGULATED ASBESTOS-CONTAINING MATERIALS ARE PRESENTED WITHIN THE ASBESTOS SURVEY REPORT INCLUDED IN THE SPECIAL PROVISIONS ATTACHED TO THE PLANS. THE CONTRACTOR SHALL ENSURE THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL IS CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT ALL DOCUMENTATION RELATED TO THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS IS SUBMITTED TO THE PROJECT ENGINEER FOR RECORD KEEPING WITHIN TWO WEEKS OF COMPLETION.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS, PARTIALLY COMPLETED BY THE BRIDGE OWNER, HAS BEEN INCLUDED AT THE END OF THE ASBESTOS SURVEY REPORT IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL COMPLETE AND SIGN THE FORMS AND SUBMIT THEM TO:

OHIO EPA, DAPC ASBESTOS
50 W. TOWN STREET, 7th FLOOR OR P.O. BOX 1049
COLUMBUS, OH 43216-1049

OR SUBMIT THE FORMS ELECTRONICALLY (ELECTRONIC SUBMISSION INSTRUCTIONS PROVIDED ON THE FORMS), AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY RENOVATION WORK. THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED AND SIGNED FORMS TO THE ENGINEER. INFORMATION REQUIRED ON THE FORMS SHALL INCLUDE AT A MINIMUM: 1) THE ODOT PROJECT NUMBER, 2) THE CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER, 3) THE SCHEDULED DATES FOR THE START AND COMPLETION OF BRIDGE RENOVATIONS.

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION OF DEMOLITION AND RENOVATION FORMS. PAYMENTS FOR THIS WORK SHALL BE INCIDENTAL TO THE ITEM 202 STRUCTURE REMOVAL ITEM(S) IN THE PLAN.

GENERAL NOTES

DESIGN AGENCY

DESIGNER CRS
REVIEWER XXX MM-DD-YY
PROJECT ID 113342
SHEET P.3 TOTAL 17

D01-BM-FY26

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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01_D01\113342400-Engineering\Roadway\Sheets\113342_GN001.dgn

ITEM 614 MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT OR THE COMPLETED PAVEMENT.

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.

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 OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	> = 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	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.

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 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 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 15 HOURS

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

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

ITEM 614 - WORK ZONE PAVEMENT MARKING

WORK ZONE PAVEMENT MARKING SHALL BE COMPLETE AND IN PLACE ON ALL NEW PAVEMENT PRIOR TO EXPOSING IT TO TRAFFIC. THE FOLLOWING ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 614 - WORK ZONE CENTER LINE, CLASS II = 0.80 MILE

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER = 6 MGAL

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.

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.

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.

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

DESIGNER CRS

REVIEWER XXX MM-DD-YY

PROJECT ID 113342

SHEET P.4 TOTAL 17

D01-BM-FY26

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:31:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCE.v02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
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User:Clark.Schlatter

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. 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 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 4 SIGN MONTHS
(ASSUMING 2 PCMS SIGN(S) FOR 2 MONTH(S))

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

NO WORK SHALL BE PERFORMED ON SR-15 AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S GENERAL/REGULAR ELECTION DAY (NOV)

THANKSGIVING CHRISTMAS

MEMORIAL DAY FOURTH OF JULY

LABOR DAY

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 SPECAL 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
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

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN1 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.

ITEM 614, WORK ZONE SPEED LIMIT SIGN

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

WZSZ REVISION NUMBER(S) COUNTY-ROUTE-SECTION(S) DIRECTION(S)

WZ- HAN-15-22.46R

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 VARYIN 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.

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. 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 WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THESPEED 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
65	55	60	50	60

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

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY 4 SNMT

ESTIMATING 2 DSL SIGN ASSEMBLIES FOR 2 MONTHS

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

DESIGNER CRS

REVIEWER XXX MM-DD-YY

PROJECT ID 113342

SHEET P.5 TOTAL 17

D01-BM-FY26

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:31:59 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCE.v02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ITEM 622 PORTABLE BARRIER, UNANCHORED

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT HAN-15-22.46 R LOCATION AS DIRECTED BY THE ENGINEER AND THE STANDARD CONSTRUCTION DRAWINGS.

ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) = 2 EACH
ITEM 622, PORTABLE BARRIER, UNANCHORED = 1,056 FT

WORK ZONE MARKINGS AND SIGNS

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

ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6'', 873, TYPE I = 2.25 MILE

ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 6'', 873, TYPE I = 2,860 FT

REMOVAL OF PAVEMENT MARKINGS

AS PER C&MS SECTION 614.11.G., THE CONTRACTOR SHALL REMOVE AND COVER CONFLICTING PAVEMENT MARKINGS WITHIN THE WORK ZONES. THE CONTRACTOR SHALL COVER CONFLICTING MARKINGS PER C&MS 614.11.G.1.b. USING REMOVALABLE BLACKOUT TAPE TO THE SATISFACTION OF THE PROJECT ENGINEER. PAYMENT TO REMOVE/ COVER CONFLICTING MARKINGS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

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.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED."PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) = 22 EACH

ITEM 614, OBJECT MARKER, ONE-WAY = 22 EACH

ITEM 614, INCREASED BARRIER DELINEATION = 200 FEET

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

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

MAINTAINING TRAFFIC NEAR RUMBLE STRIPS

TRAFFIC IS NOT PERMITTED TO RUN ON OR CROSS OVER ANY RUMBLE STRIPS AT ANY TIME. RUMBLE STRIPS MUST BE FILLED WHEN THEY CONFLICT WITH THE MAINTENANCE OF TRAFFIC LANE CONFIGURATION. THIS INCLUDES LOCATIONS OF LANE SHIFTS ENTERNING AND EXITING A WORK ZONE. THE RUMBLE STRIPS SHALL BE FILLED OR ELIMINATED BY PLANING AND PAVING TO PROVIDE A SMOOTH RIDE TO THE SATISFACTION OF THE PROJECT ENGINEER. ONCE TRAFFIC IS RETURNED TO ITS FINAL CONFIGURATION, RUMBLE STRIPS THAT WERE REMOVED SHALL BE RESTORED TO THE PRECONSTRUCTION CONDITION TO THE SATISFACTION OF THE PROJECT ENGINEER.

THE FOLLOWING ARE ESTIMATED LOCATIONS AND LENGTHS OF RUMBLE STRIP REMOVAL AND REPLACEMENT . THE ACTUAL LENGTHS MAY VARY.

LOCATION: HAN-15-22.46R; EB OUTSIDE SHOULDER = 2,860 FT
(AT WORK ZONE TAPERS. TRAFFIC CAN STRADDLE RUMBLE STRIPS IN BETWEEN TAPERS)

LOCATION: HAN-15-22.46R; EB INSIDE SHOULDER = 2,860 FT
(AT WORK ZONE TAPERS. TRAFFIC CAN STRADDLE RUMBLE STRIPS IN BETWEEN TAPERS)

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS THAT MAY REQUIRE RUMBLE STRIP REMOVAL AND REPLACEMENT . THE ESTIMATED QUANTITIES ARE BASED ON AN AVERAGE WIDTH OF 3 FEET.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" = 1,907 SY

ITEM 407 - NON-TRACKING TACK COAT = 153 GAL

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (1 1/2") = 79 CY

ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) = 5,720 FT

WINDOW CONTRACT TABLE (PN 129)

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE $ PER DAY	WORK WINDOW	
			START	END
SINGLE LANE CLOSURES FOR WORK ON HAN-15-22.46 R	*60*	*$7,000*	*COMPLETED CONTRACT*	*COMPLETION DATE*

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

DESIGNER CRS

REVIEWER XXX MM-DD-YY

PROJECT ID 113342

SHEET P.6 TOTAL 17

D01-BM-FY26

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:32:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCE.v02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6		10	12	13	14		15	16	17	01/NFP/13		EXT	TOTAL			
																		ROADWAY	
													LS	201	11000	LS		CLEARING AND GRUBBING	
																		EROSION CONTROL	
1,000													1,000	832	30000	1,000	EACH	EROSION CONTROL	
																		PAVEMENT	
						85							85	202	23000	85	SY	PAVEMENT REMOVED	
						85							85	204	10000	85	SY	SUBGRADE COMPACTION	
						85							85	452	18010	85	SY	15" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
						889							889	251	01000	889	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
						15							15	253	02000	15	CY	PAVEMENT REPAIR	
																		STRUCTURE REPAIR (DEF-15-10.52, SFN 2000458)	
					43								43	512	10101	43	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	9
					180								180	519	11101	180	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	9
					65								65	601	34100	65	CY	ROCK CHANNEL PROTECTION, TYPE B WITHOUT FILTER	
																		STRUCTURE REPAIR (HAN-15-22.46R, SFN 3200698)	
						133							133	202	22900	133	SY	APPROACH SLAB REMOVED	9
						332	615						947	509	10001	947	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	9
						34	156						190	510	10000	190	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
							20						20	512	10101	20	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	9
							39						39	516	13200	39	SF	½" PREFORMED EXPANSION JOINT FILLER	
						112							112	516	31010	112	FT	2" DEEP JOINT SEALER	
						150							150	SPECIAL	51822300	150	FT	STEEL DRIP STRIP	9
						26							26	519	11101	26	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	9
							5						5	SPECIAL	51911900	5	CY	PATCHING CONCRETE STRUCTURE: ABUTMENT BACKWALL	9
						133							133	526	25000	133	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
						267							267	848	10201	267	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T = 3")	9
						267							267	848	20000	267	SY	SURFACE PREPARATION USING HYDRODEMOLITION (T=1")	
						5							5	848	30201	5	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	9
						80							80	848	50000	80	SY	HAND CHIPPING	
													LS	848	50100	LS		TEST SLAB	
						5							5	848	50200	5	CY	FULL-DEPTH REPAIR	
						267							267	848	50320	267	SY	EXISTING CONCRETE OVERLAY REMOVED (T = 2")	
																		STRUCTURE REPAIR (VAN-224-8.13, SFN 8102376)	
								176					176	SPECIAL	50771200	176	FT	PILE ENCASEMENT	9
								31					31	512	10101	31	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	9
								42					42	519	11101	42	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	9
																		STRUCTURE REPAIR (VAN-224-8.38, SFN 8102406)	
										176			176	SPECIAL	50771200	176	FT	PILE ENCASEMENT	9
										38			38	512	10101	38	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	9
										14			14	519	11101	14	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	9
										52			52	843	50000	52	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
																		STRUCTURE REPAIR (VAN-224-8.65, SFN 8102430)	
											192		192	SPECIAL	50771200	192	FT	PILE ENCASEMENT	9
											38		38	512	10101	38	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	9
												20	20	512	10600	20	FT	CONCRETE REPAIR BY EPOXY INJECTION	
											25		25	519	11101	25	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	9
																		MAINTENANCE OF TRAFFIC	
			1,907										1,907	254	01000	1,907	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1 ½"	
			153										153	407	20000	153	GAL	NON-TRACKING TACK COAT	
			79										79	441	70000	79	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
	15												15	614	11110	15	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			200										200	614	11630	200	FT	INCREASED BARRIER DELINEATION	
			2										2	614	12380	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
			22										22	614	13310	22	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
			22										22	614	13350	22	EACH	OBJECT MARKER, ONE WAY	
		4											4	614	18601	4	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	5
	0.8												0.8	614	21400	0.8	MILE	WORK ZONE CENTER LINE, CLASS II	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER
CRS

REVIEWER
XXX MM-DD-YY

PROJECT ID
113342

SHEET P.7 TOTAL 17

D01-BM-FY26

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:32:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov
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SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6		10	12	13	14		15	16	17	01/NFP/13		EXT	TOTAL			
																		MAINTENANCE OF TRAFFIC	
			2.25										2.25	614	22210	2.25	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
			2,860										2,860	614	24402	2,860	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I	
	6												6	616	10000	6	MGAL	WATER	
			5,720										5,720	618	40100	5,720	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
			1,056										1,056	622	41100	1,056	FT	PORTABLE BARRIER, UNANCHORED	
		4											4	808	18700	4	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	5
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER
CRS

REVIEWER
XXX MM-DD-YY

PROJECT ID
113342

SHEET P.8 | TOTAL 17

D01-BM-FY26

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:32:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCE\v02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

A QUANTITY IS INCLUDING IN THE ESTIMATED QUANTITIES TO REPAIR ANY DETERIORATED AREAS ON THE BOTTOM OF DECK SLABS WITH ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, WHERE THE DEPTH OF PATCH IS EQUAL TO OR LESS THAN 3", AS NOTED ON SHEETS 6-11.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQ FT FOR ITEM 843 - PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

THE CONTRACTOR SHALL SEAL ALL LOCATIONS THAT HAVE QUANTITIES INCLUDED IN THE GENERAL SUMMARY FOR THE AREAS ON BRIDGES NOTED ON SHEETS 10-11.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQ YD FOR ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

A QUANTITY OF THIS ITEM IS INCLUDED IN THE ESTIMATED QUANTITIES OF EACH STRUCTURE TO REPAIR ANY DETERIORATED AREAS ON THE ABUTMENTS AND DECK SLABS WHERE THE DEPTH OF THE PATCH IS GREATER THAN 3", AS NOTED ON SHEETS 6-11.

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 CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQ FT FOR ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD. COPIES OF THE EXISTING PLANS ARE ON FILE AND AVAILABLE TO BE INSPECTED AT THE DISTRICT 1 OFFICE IN LIMA.

ITEM SPECIAL - PILE ENCASEMENT

ENCASE ALL STEEL PIPE-PILES (EXCEPT FOR DEF-15-10.52) FOR THE CAPPED PILE PIERS IN CONCRETE CONFORMING TO C&MS 511 (F'C = 4.0 KSI). PROVIDE A CONCRETE SLUMP BETWEEN 6 TO 8 INCHES WITH THE USE OF A SUPERPLASTICIZER. PLACE THE CONCRETE WITHIN A FORM THAT CONSISTS OF POLYETHYLENE PIPE (707.33), OR PVC PIPE (707.42) WHICH SHALL BE LEFT IN PLACE. THE ENCASEMENT SHALL EXTEND FROM 3 FEET BELOW THE FINISHED GROUND SUFACE UP TO THE CONCRETE PIER CAP. POSITION THE PIPE SO THAT AT LEAST 3 INCHES OF CONCRETE COVER IS PROVIDED AROUND THE EXTERIOR OF THE PILE .

THE DEPARTMENT WILL MEASURE PILE ENCASEMENT BY THE NUMBER OF FEET. THE DEPARTMENT WILL DETERMINE THE SUM AS THE LENGTH MEASURED ALONG THE AXIS OF EACH PILE FROM THE BOTTOM OF THE ENCASEMENT TO THE BOTTOM OF THE PIER CAP. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM - SPECIAL, PILE ENCASEMENT.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DE-SIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RE-RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

ITEM SPECIAL - STEEL DRIP STRIP

DRIP STRIPS SHALL CONFORM TO SCD DS-1-92.

ITEM SPECIAL - PATCHING CONCRETE STRUCTURE ABUTMENT BACKWALL

IN ADDITION TO THE WORK ITEMS REQUIRED IN 519, THIS ITEM WILL INCLUDE, THE WIDENING OF THE ABUTMENT SEATS AS DETAILED IN THESE PLANS AND DESCRIBED IN THE FOLLOWING NOTE.

PROVIDE A CONCRETE MIX AT A SLUMP THAT ALLOWS THE CONCRETE MIX TO BE PUMPED THROUGH A 4" DIAMETER ACCESS HOLE FROM THE TOP OF THE DECK , FILLING THE PATCH LOCATIONS OF THE UNDERSIDE OF THE DECK, THE ABUTMENT SEAT AND VERTICAL ABUTMENT WALL.

WHEN PERFORMING THE DISINTRGRATED CONCRETE REMOVAL, PROVIDE PATCHES WITH A MINIMUM DEPTH OF 4 INCHES AND NO GREATER THAN 6 INCHES. AREAS TO BE PATCHED WILL HAVE SQUARED EDGES AND BE ROUGHLY SQUARE OR RECTANGLE IN SHAPE.

AVOID DAMAGING OR DEBONDING THE REINFORCING, OR SHATTERING THE CONCRETE, BEYOND THE AREA TO BE PATCHED.
AFTER LOCATING THE EXISTING REINFORCING STEEL USING A PACHOMETER, DRILL 4" DIAMETER HOLES THROUGH THE BRIDGE DECK MISSING THE REBAR.

DRILL DOWEL HOLES FOR THE INSTALLATION OF THE EPOXY COATED REINFORCING STEEL. INSTALL THE REINFORCING STEEL ACCORDING TO ITEM 510 USING EPOXY GROUT, 705.20. IF AN EXISTING STEEL BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR. THE DEPARTMENT WILL PAY FOR THE DOWEL HOLES AND GROUT AT THE UNIT PRICE FOR ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT.

AFTER PLACEMENT OF THE REINFORCING STEEL AND THE DRILLING OF THE HOLES, PUMP THE CONCRETE INTO THE CORE HOLES UNTIL THE PATCH AREAS ARE FILLED AND ALL AIR VOIDS ARE DETERMINED TO HAVE BEEN ELIMINATED.

THE SLAB BRIDGE SEAT WILL ALSO BE WIDENED TO MATCH THE EXISTING ABUTMENT FOOTER WIDTH. REFER TO THE RESPECTIVE STRUCTURE SHEET FOR MORE DETAILS REGARDING THE WIDENING.

PLACE THE CONCRETE THROUGH THE 4" DIAMETER CORE HOLES BY PUMPING AND FREE FALL. ASSURE THE CONCRETE HAS COMPLETELY FILLED THE PATCH VOIDS BEFORE MOVING TO ANOTHER 4" ACCESS HOLE. USE VIBRATION EQUIPMENT TO HELP CONSOLIDATE THE CONCRETE MIX. CONTINUE PLACING THE CONCRETE INTO THE CORE HOLES AND FINISH THE CONCRETE IN THE HOLES LEVEL WITHTHE DECK CONCRETE.

WHEN THE FORMWORK IS REMOVED, THE PROJECT ENGINEER WILL DETERMINE IF THE NEW CONCRETE IS FLUSH WITH THE UNDERSIDE OF THE DECK. IF THERE ARE VOIDS FOUND BETWEEN THE NEW CONCRETE AND THE NDERSIDE OF THE DECK, THE CONTRACTOR WILL PRESSURE GROUT THE VOIDS UNTIL ALL MATERIAL IS FOUND TO BE IN CONTACT WITH ONE ANOTHER. THE GROUT MATERIAL WILL ACHIEVE AND LEAST 4000 PSI IN 7 DAYS AND CONSIST OF CEMENT AND SAND MEETING ODOT MATERIAL SPECIFICATIONS.

THE DEPARTMENT WILL MEASURE THE NUMBER OF CUBIC YARDS DETERMINED BY THE CALCULATIONS FROM THE PLAN DIMENSION FOR THE ABUTMENT WIDENING WORK. THE DEPARTMENT WILL MEASURE THE NUMBER OF CUBIC YARDS FOR THE PATCHED AREAS BY DETERMINING THE SQUARE YARDAGE OF ACTUAL PATCHED AREAS AND MULTIPLYING BY A DEPTH OF 0.167 YARDS TO CALCULATE THE VOLUME OF CUBIC YARDS.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITY OF CUBIC YARDS.

PAYMENTS FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CU. YD. FOR ITEM SPECIAL - PATCHING CONCRETE STRUCTURE, MISC.: ABUTMENT BACKWALL, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK, EXCEPT FOR THE EPOXY COATED REINFORCING STEEL WHICH WILL BE PAID FOR SEPARATELY.

ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN

THIS ITEM SHALL CONFORM TO SS 848 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

THE OVERLAY MATERIAL SHALL MEET THE FOLLOWING CRITERIA: MINIMUM 4 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.25 IN. MAX.) MEETING ASTM C1116 TYPE III SHALL BE ADDED TO THE MIX.

THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT, AGGREGATE, AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.5 AND 2.25 INCHES IN LENGTH. FIBERS WITH AN ASPECT RATIO GREATER THAN 60 REQUIRES A BLOWER TO INHIBIT BALLING AND MATTING OF FIBERS (ACI 544.3R-08). STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURE'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST, DIRT AND MOISTURE.

USE A MINIMUM DOSAGE RATE OF MACRO-SYNTHETIC FIBERS OF 4.0 LBS/CY OF CONCRETE. DETERMINE THE FINAL PROPOSED DOSAGE RATE THROUGH MIX TESTING. ENSURE THE FIBER REINFORCED CONCRETE MEETS OR EXCEEDS A MINIMUM EQUIVALENT FLEXURAL STRENGTH RATIO OF 25% ACCORDING TO ASTM C 1609. MACRO-SYNTHETIC FIBERS IS TO BE USED AS AN ADMIXTURE TO CONTROL CRACKING AND IS NOT TO BE USED TO SUPPLEMENT OR REPLACE REINFORCING STEEL IN THE DESIGN. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. UTILIZE A LABORATORY REGULARLY INSPECTED BY THE CEMENT AND CONCRETE REFERENCE LABORATORY (CCRL) OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, OR OTHER APPROVED REFERENCE LABORATORY, TO PERFORM THE TESTING. BEFORE USE, SUBMIT DOCUMENTATION TO THE PROJECT ENGINEER CERTIFYING BOTH THE MACRO-SYNTHETIC FIBERS AND THE MIX MEET OR EXCEED THE REQUIRED PROPERTIES. SAMPLING WILL BE ALLOWED FOR TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX, MAY BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE PROJECT.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CONCRETE SUPPLIERS CHOICE OF ONE OF THESE ADMIXTURES DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS.

DESIGN AGENCY
DESIGNER CRS
REVIEWER XXX MM-DD-YY
PROJECT ID 113342
SHEET P.9 TOTAL 17

D01-BM-FY26
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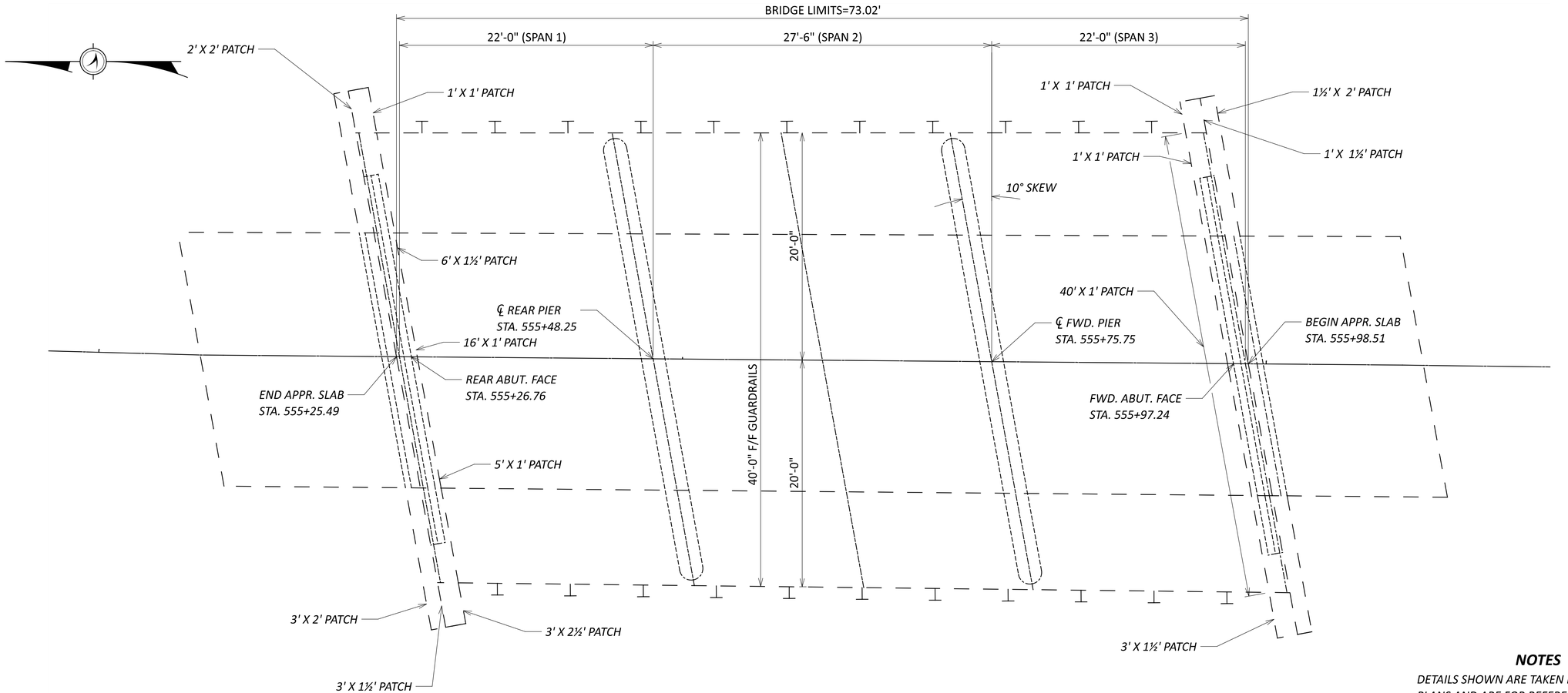

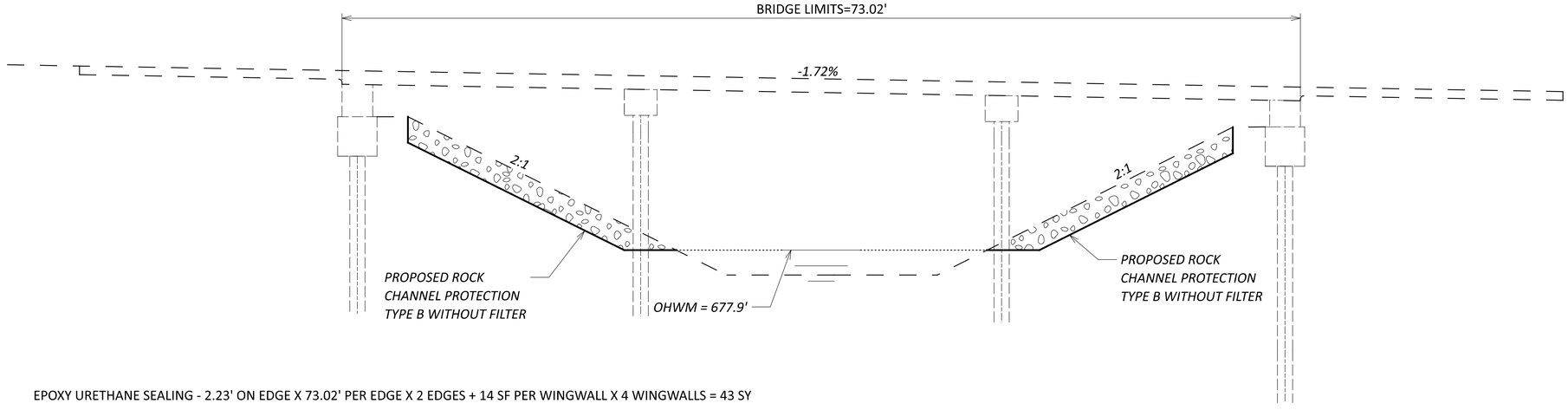

EPOXY URETHANE SEALING - 2.23' ON EDGE X 73.02' PER EDGE X 2 EDGES + 14 SF PER WINGWALL X 4 WINGWALLS = 43 SY

PATCHING = 180 SF

ROCK CHANNEL PROTECTION TYPE B WITHOUT FILTER = 65 CY

NOTES

DETAILS SHOWN ARE TAKEN FROM EXISTING PLANS AND ARE FOR REFERENCE ONLY

ALL DIMENSIONS CONSIDERED APPROXIMATE

ALL PATCHING LOCATIONS ARE APPROXIMATE

EXISTING STRUCTURE

TYPE: CONTINUOUS CONCRETE SLAB WITH CAPPED PILE PIERS AND ABUTMENTS

SPAN: 22'-0", 27'-6", 22'-0" C/C BRGS.

ROADWAY: 40'-0" F/F GUARDRAIL

SKEW: 10° R.F.

WEARING SURFACE: ¾" MONOLITHIC CONCRETE

APPROACH SLABS: 20' LONG (STD. DWG. AS-1-54)

ALIGNMENT: TANGENT

STRUCTURAL FILE NUMBER: 2000458

DATE BUILT: 1957

PROPOSED WORK

1.) PLACE ROCK CHANNEL PROTECTION ABOVE OHWM ALONG BANKS OF CHANNEL

2.) PERFORM CONCRETE PATCHING AS DETAILED ON SHEETS 10 & 11.

SITE PLAN
DEF-15-10.52
SR-15 OVER BUCKSKIN CREEK

SFN 2000458

DESIGN AGENCY

DESIGNER	CHECKER
ISR	XXX

REVIEWER: XXX MM-DD-YY

PROJECT ID: 113342

SUBSET	TOTAL
1	8

SHEET	TOTAL
P.10	17

D01-BM-FY26

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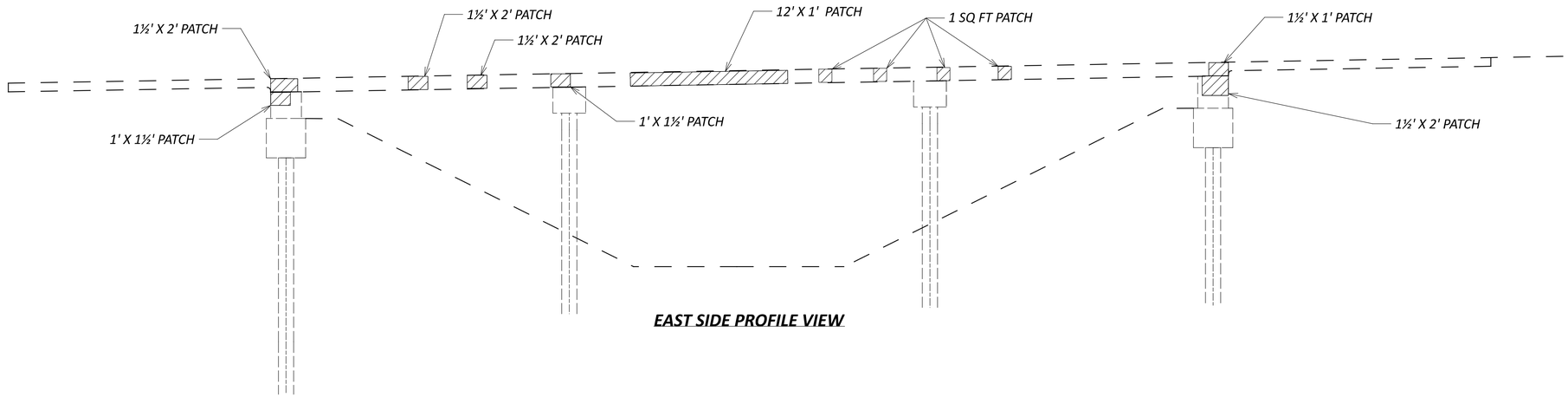
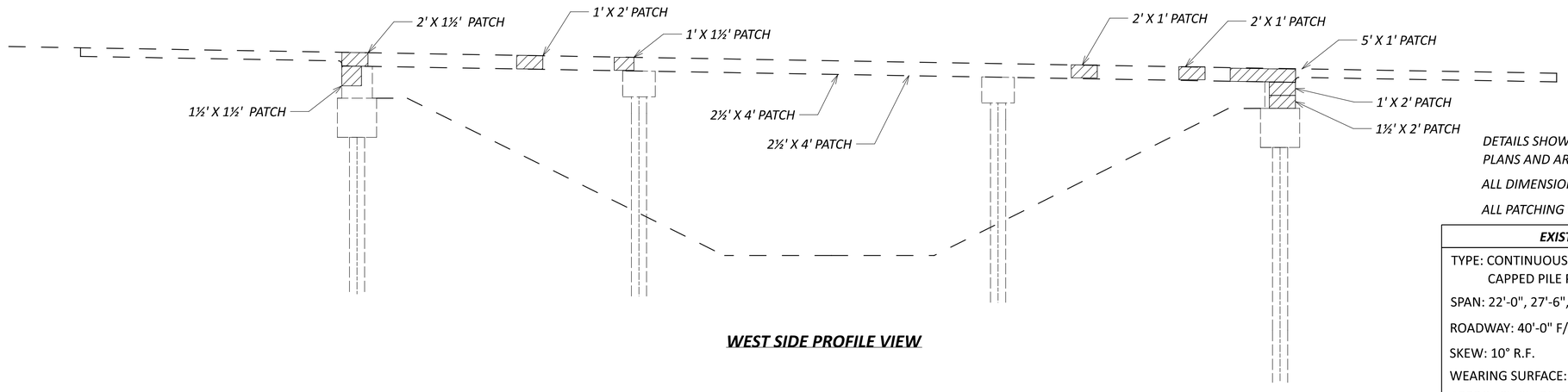


EAST SIDE PROFILE VIEW

▨ - *ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN*



WEST SIDE PROFILE VIEW

NOTES

DETAILS SHOWN ARE TAKEN FROM EXISTING PLANS AND ARE FOR REFERENCE ONLY

ALL DIMENSIONS CONSIDERED APPROXIMATE

ALL PATCHING LOCATIONS ARE APPROXIMATE

EXISTING STRUCTURE

TYPE: CONTINUOUS CONCRETE SLAB WITH CAPPED PILE PIERS AND ABUTMENTS

SPAN: 22'-0", 27'-6", 22'-0" C/C BRGS.

ROADWAY: 40'-0" F/F GUARDRAIL

SKEW: 10° R.F.

WEARING SURFACE: ¾" MONOLITHIC CONCRETE

APPROACH SLABS: 20' LONG (STD. DWG. AS-1-54)

ALIGNMENT: TANGENT

STRUCTURAL FILE NUMBER: 2000458

DATE BUILT: 1957

PROPOSED WORK

1.) PLACE ROCK CHANNEL PROTECTION ABOVE OHWM ALONG BANKS OF CHANNEL

2.) PERFORM CONCRETE PATCHING AS DETAILED ON SHEETS 10 & 11.

PATCHING PLAN
DEF-15-10.52
SR-15 OVER BUCKSKIN CREEK

SFN 2000458

DESIGN AGENCY

DESIGNER	CHECKER
ISR	XXX

REVIEWER: XXX MM-DD-YY

PROJECT ID: 113342

SUBSET	TOTAL
2	8

SHEET	TOTAL
P.11	17

D01-BM-FY26

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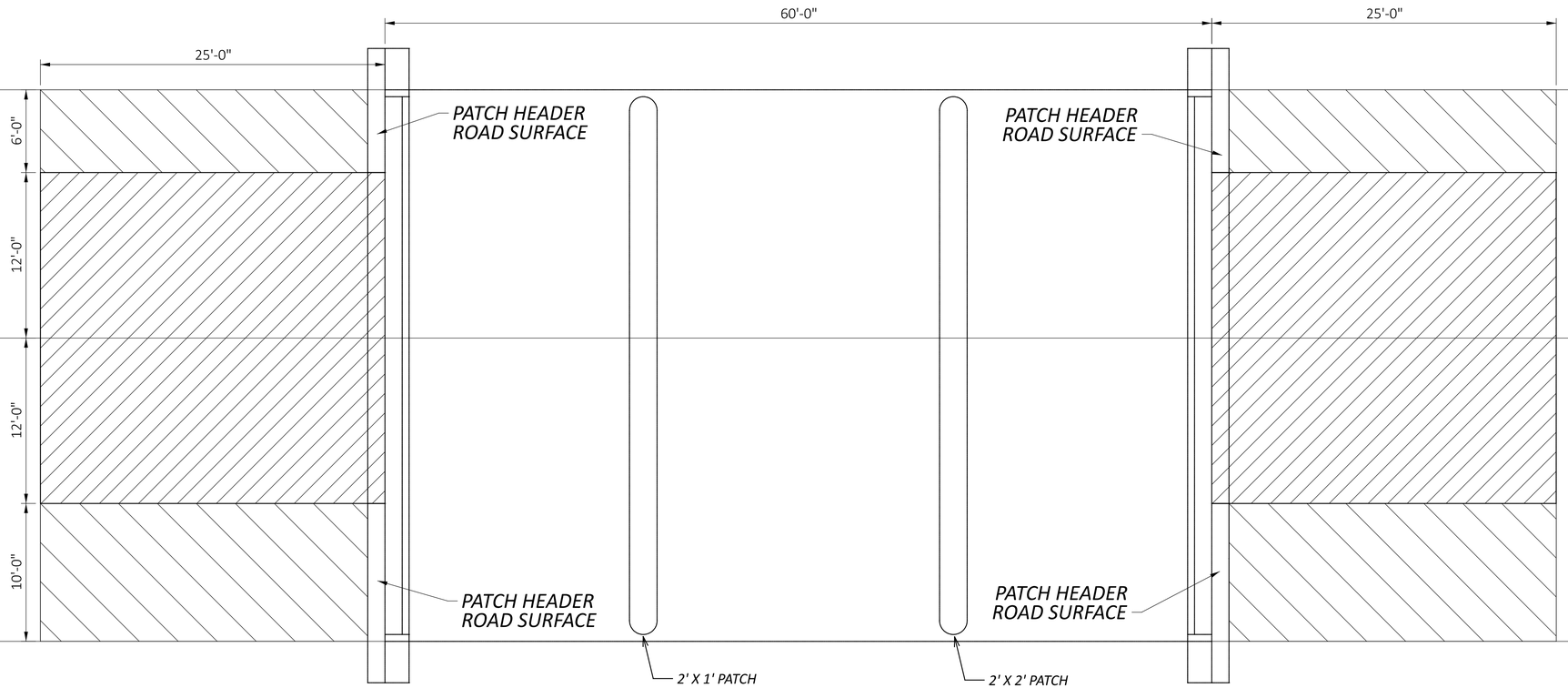


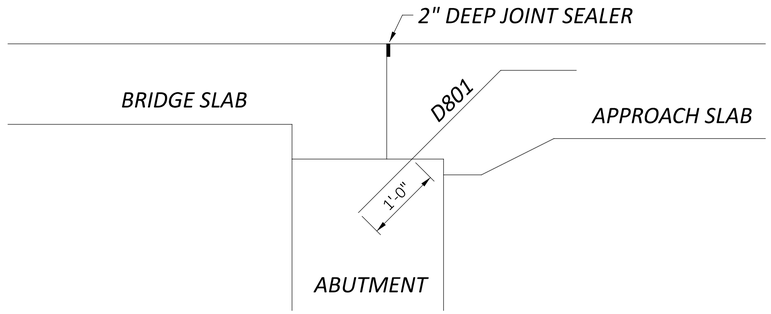
APPROACH SLABS REMOVED AND REPLACED PER AS-1-15 (15")

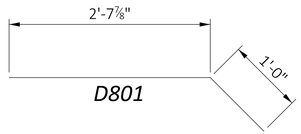
REMOVE ASPHALT AND PLACE NON-REINFORCED CONCRETE PAVEMENT 15"

133 SY OF APPROACH SLAB AREA
85 SY OF CONCRETE PAVEMENT AREA
85 SY OF SUBGRADE COMPACTION
26 SF OF CONCRETE PATCHING
112 FT OF JOINT SEALER
34 DOWEL HOLES

889 SF OF PARTIAL DEPTH PAVEMENT REPAIR IF NEEDED
15 CY OF PAVEMENT REPAIR IF NEEDED

DECK OVERLAY QUANTITIES
150 FT OF STEEL DRIP STRIP
267 SY DECK AREA
80 SY OF HAND CHIPPING
5 CY OF VARIABLE OVERLAY MATERIAL
5 CY OF FULL DEPTH REPAIR





17 - D801 BARS PER ABUTMENT = 332 LB OF REINFORCING STEEL

EXISTING STRUCTURE
TYPE: CONTINUOUS REINFORCED CONCRETE SLAB WITH CONC. PIERS AND PEDESTAL ABUT.
SPAN: 18'-0", 22'-6", 18'-0" C/C BRGS.
ROADWAY: 40'-0" F/F GUARDRAIL
SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25' LONG (STD. DWG. AS-1-54)
ALIGNMENT: TANGENT
STRUCTURAL FILE NUMBER: 3200698
DATE BUILT: 1963

PROPOSED WORK
1.) POUR CURTAIN WALLS
2.) PATCH CONCRETE
3.) REMOVE EXISTING OVERLY ±2" MICRO-SIL. CONC. HYDRODEMO. 1"
4.) OVERLAY DECK WITH 3" OF SUPERPLASTICIZED DENSE CONCRETE
5.) REPLACE APPROACH SLABS AND ADJACENT CONCRETE PAVEMENT
6.) REPAIR ASPHALT PAVEMENT AS NEEDED

PLAN VIEW
HAN-15-22.46 R
S.R. 15 OVER HOY DITCH

SFN 3200698
DESIGN AGENCY

DESIGNER	CHECKER
CRS	XXX

REVIEWER XXX MM-DD-YY
PROJECT ID 113342

SUBSET	TOTAL
3	8

SHEET	TOTAL
P.12	17

D01-OL-FY26

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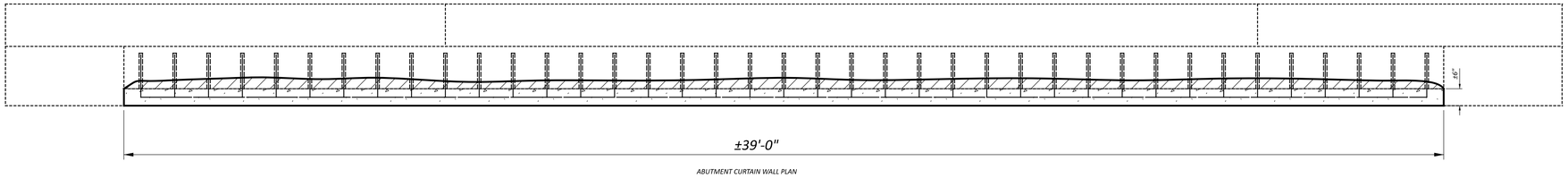
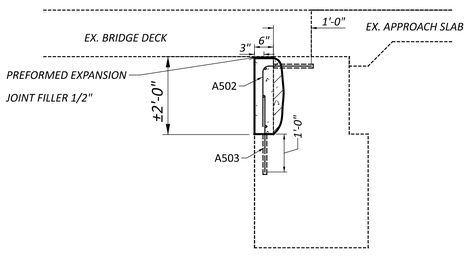
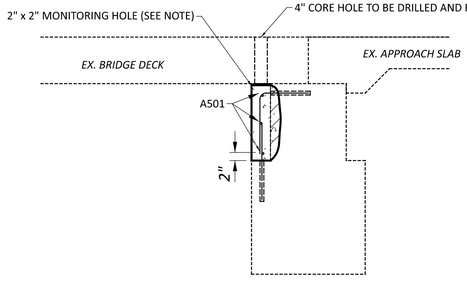




SECTION A - A



SECTION A - A

NOTE:
DRILL 4" DIAMETER OPENINGS IN THE TOP OF THE DECK AT A MINIMUM OF 4' AND A MAXIMUM OF 6' APART FOR PUMPING CONCRETE. HOLE SURFACE IS TO BE SEALED WITH HMWM RESIN AFTER HOLE HAS BEEN FILLED WITH CONCRETE.

PLACE 2" X 2" OPENINGS IN THE TOP OF THE FORMS AT A MINIMUM OF 4' AND A MAXIMUM OF 6' APART FOR THE MONITORING THE CONCRETE POUR CENTERED BETWEEN THE 4" DRILLED HOLES.

ALL NEW EXPOSED CONCRETE IS TO BE SEALED WITH EXPOXY-URETHANE.

THIS DRAWING APPLIES TO THE FORWARD AND REAR ABUTMENT.

CONCRETE = 5 CY

EPOXY URETHANE SEALING = 20 SY

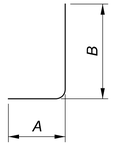
1/2" PREFORMED EXPANSION JOINT FILLER = 39 SF

DOWELS = 39 X 2 x 2 SIDES = 156

AREA OF POSSIBLE DISINTEGRATED/UNSOUND CONCRETE TO BE REMOVED AS LOCATED BY AND TO THE SATISIFACTION OF THE ENGINEER. PAYMENT INCLUDED WITH ITEM SPECIAL - PATCHING CONCRETE STRUCTURE: ABUTMENT BACKWALL

ITEM SPECIAL - PATCHING CONCRETE STRUCTURE: ABUTMENT BACKWALL

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
A501	6	38'-0"	238	STR							
A502	78	2'-7.5"	214	1	1'-3"	1'-6"					
A503	78	2'-0"	163	STR							
SUB-TOTAL			615								

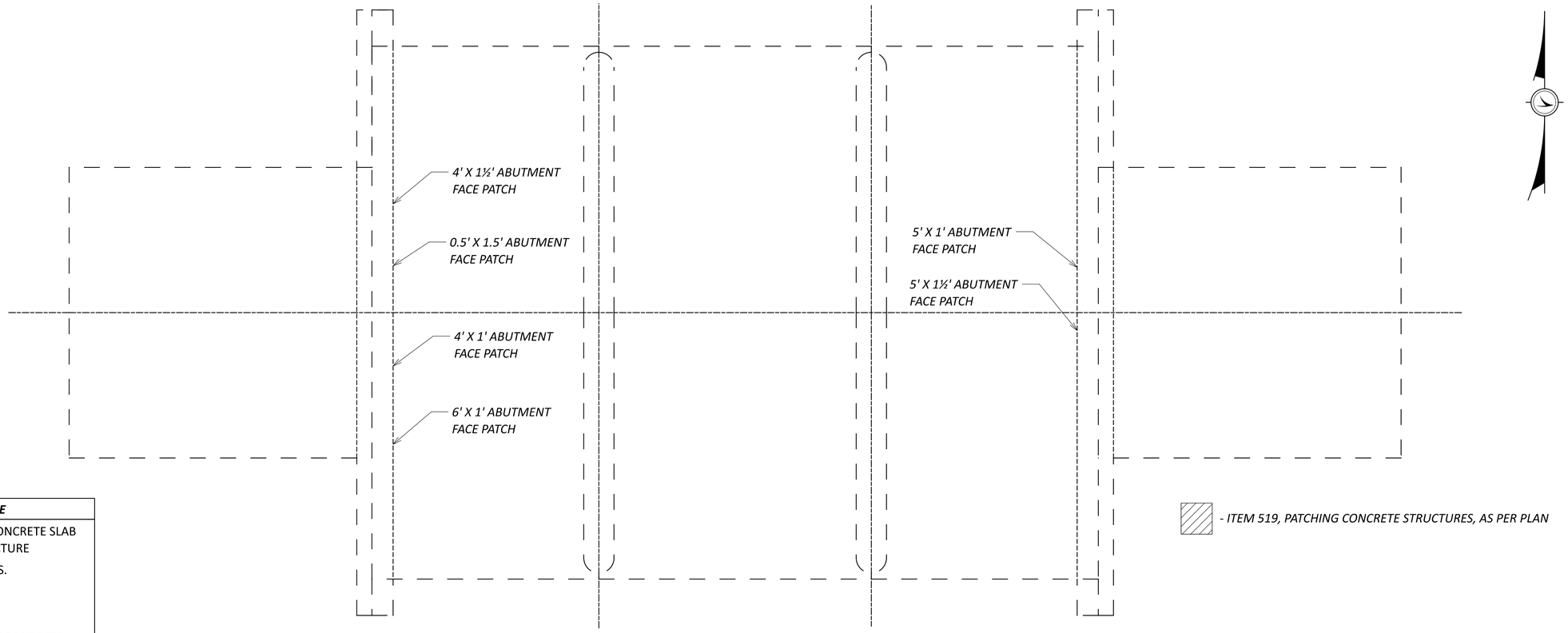


TYPE-1

ABUTMENT DETAILS
HAN-15-22.46 R
OVER HOY DITCH

SFN 3200698
DESIGN AGENCY
DESIGNER CRS | CHECKER XXX
REVIEWER XXX MM-DD-YY
PROJECT ID 113342
SUBSET 4 | TOTAL 8
SHEET P.13 | TOTAL 17

D01-BM-FY26



GENERAL PLAN

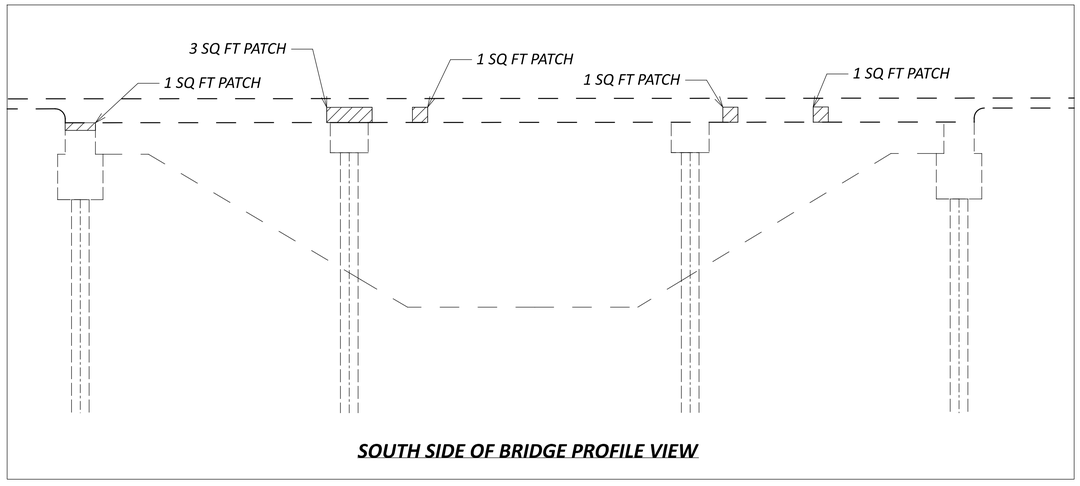
EXISTING STRUCTURE
TYPE: CONTINUOUS REINFORCED CONCRETE SLAB WITH CAPPED PILE SUBSTRUCTURE
SPAN: 18'-0", 22'-6", 18'-0" C/C BRGS.
ROADWAY: 42'-8" F/F GUARDRAIL
SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25' LONG (STD. DWG. AS-1-54)
ALIGNMENT: TANGENT
STRUCTURAL FILE NUMBER: 8102376
DATE BUILT: 1968

PROPOSED WORK
1.) PERFORM DECK PATCHING AS DETAILED ON THIS SHEET

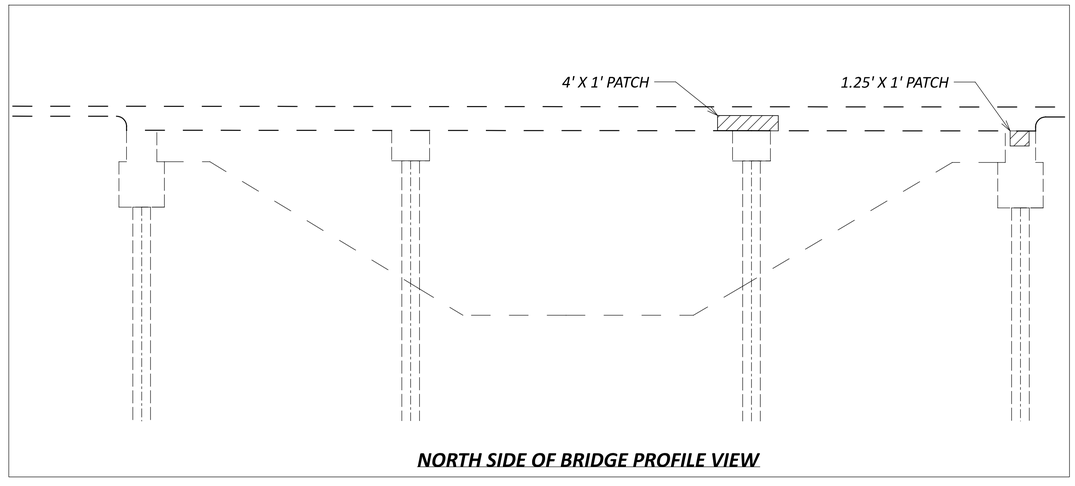
PILE ENCASEMENT - 11' PER PILE X 16 PILES = 176'

EPOXY URETHANE SEALING - 2.33' PER EDGE X 60' AN EDGE X 2 EDGES = 31 SY

PATCHING = 42 SF



SOUTH SIDE OF BRIDGE PROFILE VIEW



NORTH SIDE OF BRIDGE PROFILE VIEW

PATCHING PLAN
VAN-224-8.13
US-224 OVER MADDOX CREEK

SFN 8102376

DESIGN AGENCY

DESIGNER	CHECKER
ISR	XXX

REVIEWER: XXX MM-DD-YY

PROJECT ID: 113342

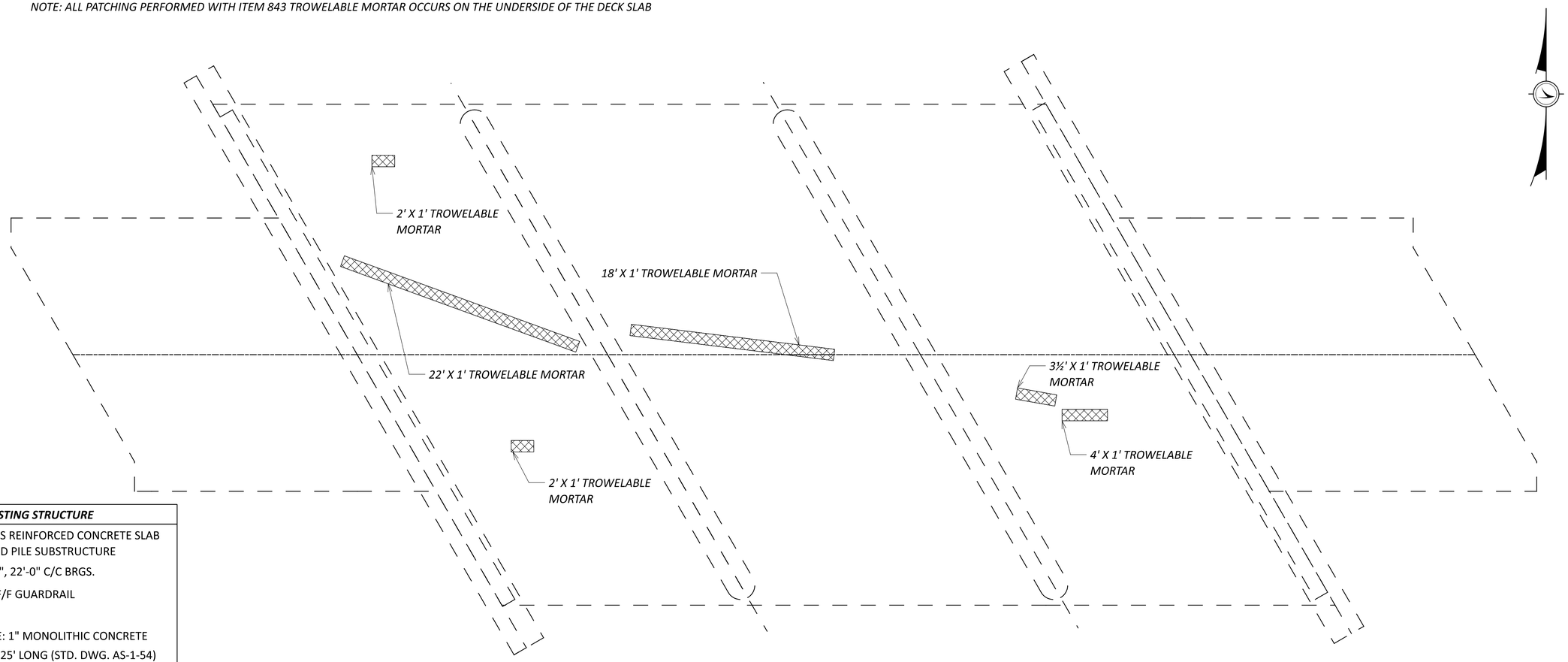
SUBSET	TOTAL
5	8

SHEET	TOTAL
P.14	17

D01-BM-FY26

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:33:15 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01_D01\113342\400-Engineering\Roadway\Sheets\113342_SG100.dgn

NOTE: ALL PATCHING PERFORMED WITH ITEM 843 TROWELABLE MORTAR OCCURS ON THE UNDERSIDE OF THE DECK SLAB



EXISTING STRUCTURE
TYPE: CONTINUOUS REINFORCED CONCRETE SLAB WITH CAPPED PILE SUBSTRUCTURE
SPAN: 22'-0", 27'-6", 22'-0" C/C BRGS.
ROADWAY: 42'-8" F/F GUARDRAIL
SKEW: 30° R.F.
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25' LONG (STD. DWG. AS-1-54)
ALIGNMENT: TANGENT
STRUCTURAL FILE NUMBER: 8102406
DATE BUILT: 1968

PROPOSED WORK
1.) PERFORM DECK PATCHING AS DETAILED ON THIS SHEET

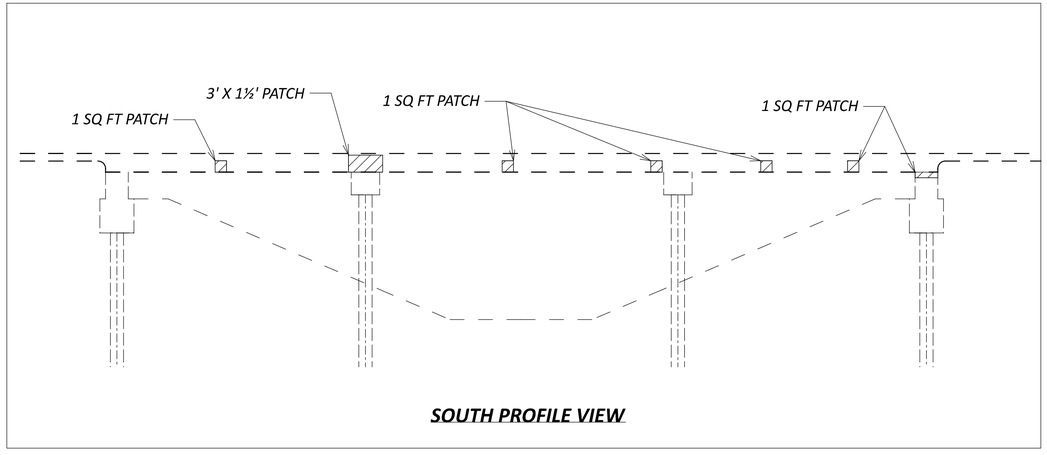
PILE ENCASEMENT - 11' PER PILE X 16 PILES = 176'

EPOXY URETHANE SEALING - 2.33' ON EDGE X 73.24' PER EDGE X 2 EDGES = 38 SY

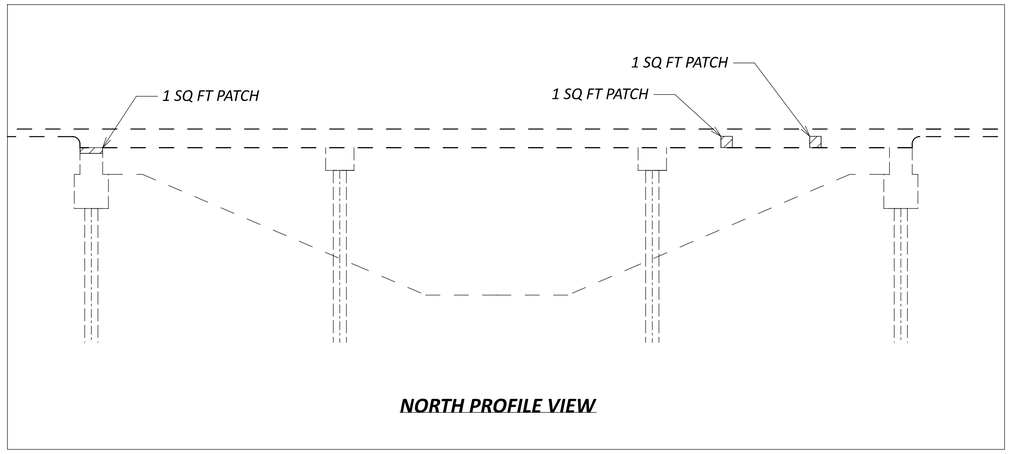
PATCHING = 14 SY TROWLEABLE MORTAR = 52 SF

PLAN VIEW

- *ITEM 519, PATCHING CONCRETE STRUCTURES, AS PER PLAN*
- *ITEM 843, PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR*



SOUTH PROFILE VIEW



NORTH PROFILE VIEW

PATCHING PLAN
VAN-224-8.38
US-224 OVER MADDOX CREEK

SFN 8102406

DESIGN AGENCY

DESIGNER	CHECKER
ISR	XXX

REVIEWER XXX MM-DD-YY

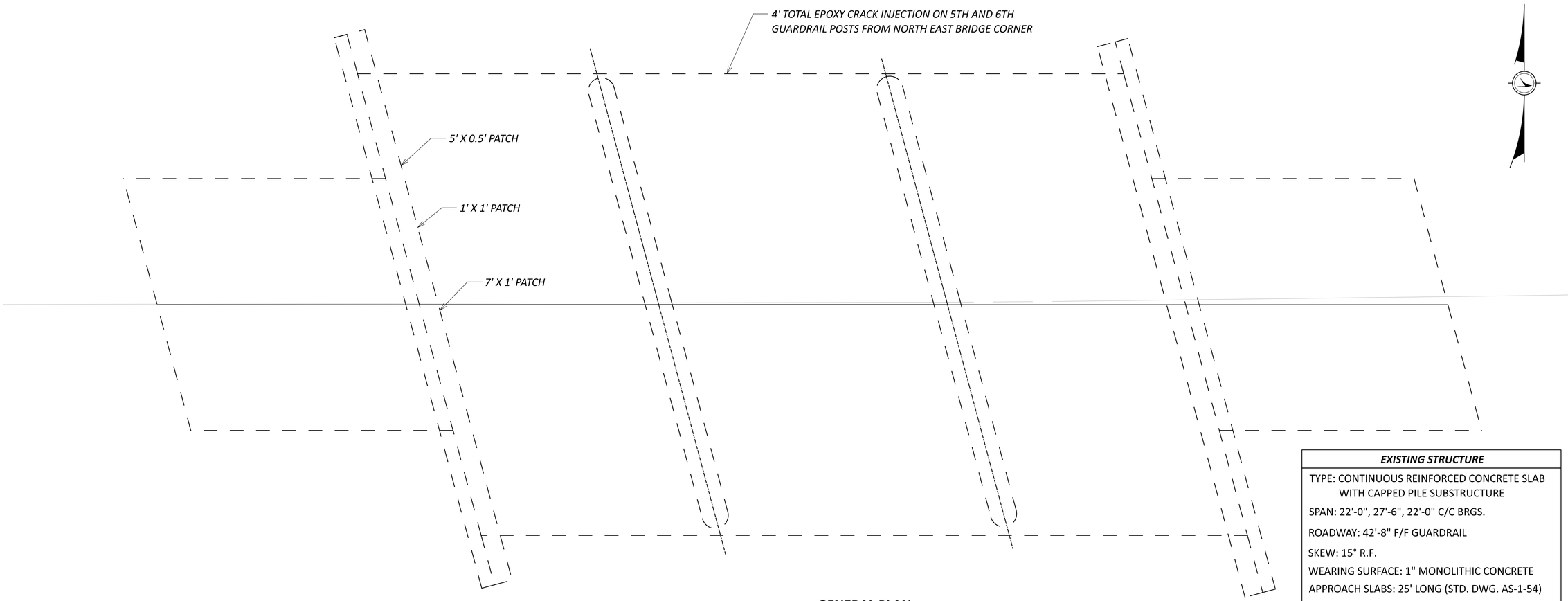
PROJECT ID 113342

SUBSET	TOTAL
6	8

SHEET	TOTAL
P.15	17

D01-BM-FY26

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:33:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01_D01\113342\400-Engineering\Roadway\Sheets\113342_SG200.dgn



GENERAL PLAN

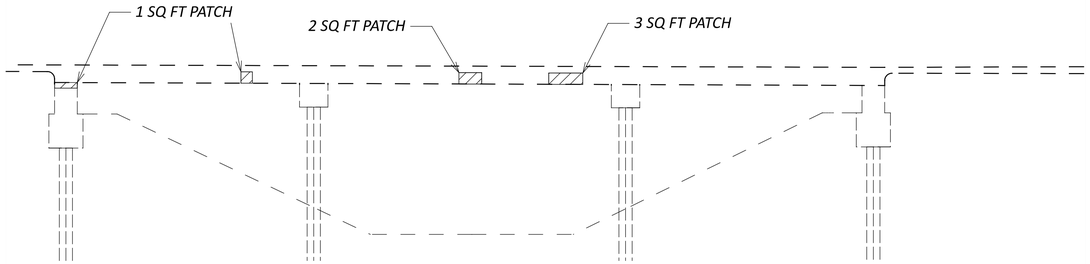
EXISTING STRUCTURE
TYPE: CONTINUOUS REINFORCED CONCRETE SLAB WITH CAPPED PILE SUBSTRUCTURE
SPAN: 22'-0", 27'-6", 22'-0" C/C BRGS.
ROADWAY: 42'-8" F/F GUARDRAIL
SKEW: 15° R.F.
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25' LONG (STD. DWG. AS-1-54)
ALIGNMENT: ON 7° SPIRAL LEFT
STRUCTURAL FILE NUMBER: 8102430
DATE BUILT: 1968

PILE ENCASEMENT - 12' PER PILE X 16 PILES = 192'

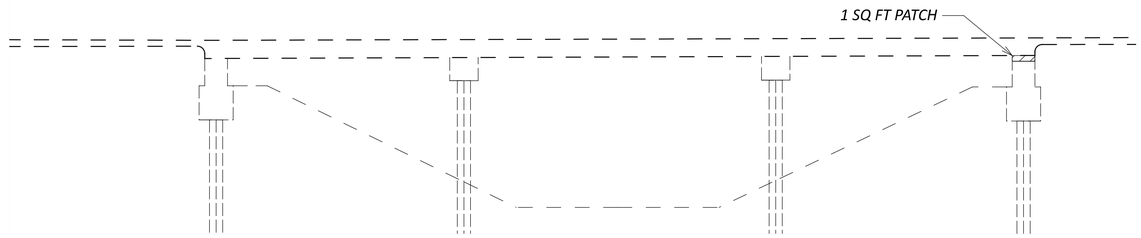
EPOXY URETHANE SEALING - 2.33' ON EDGE X 73.06' PER EDGE X 2 EDGES = 38 SY

PATCHING = 25 SF

PROPOSED WORK
1.) PERFORM DECK PATCHING AS DETAILED ON THIS SHEET
2.) PERFORM EPOXY CRACK INJECTION AS DETAILED ON THIS SHEET



NORTH PROFILE VIEW



SOUTH PROFILE VIEW

PATCHING PLAN
VAN-224-8.65
US-224 OVER MADDOX CREEK

SFN 8102430

DESIGN AGENCY

DESIGNER	CHECKER
ISR	XXX

REVIEWER: XXX MM-DD-YY

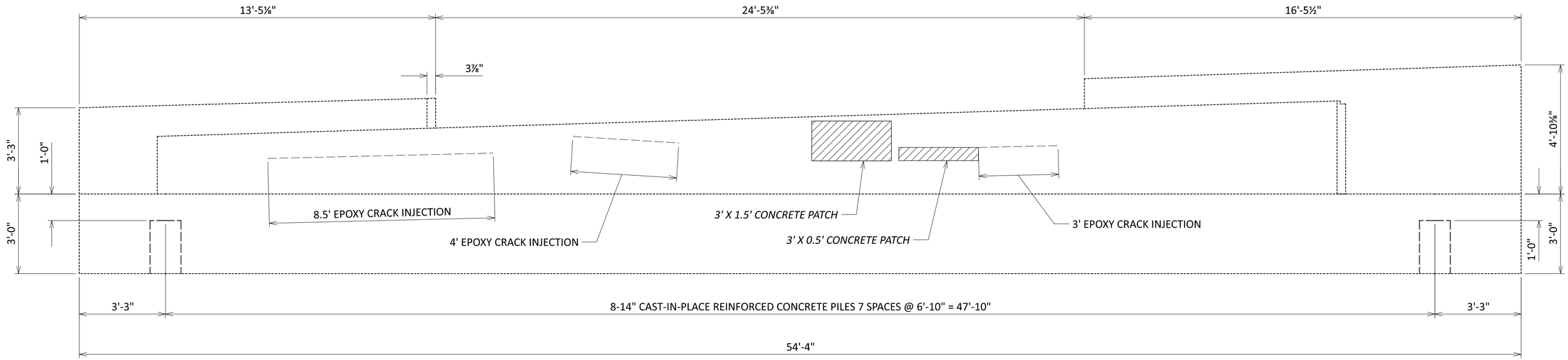
PROJECT ID: 113342

SUBSET	TOTAL
7	8

SHEET	TOTAL
P.16	17

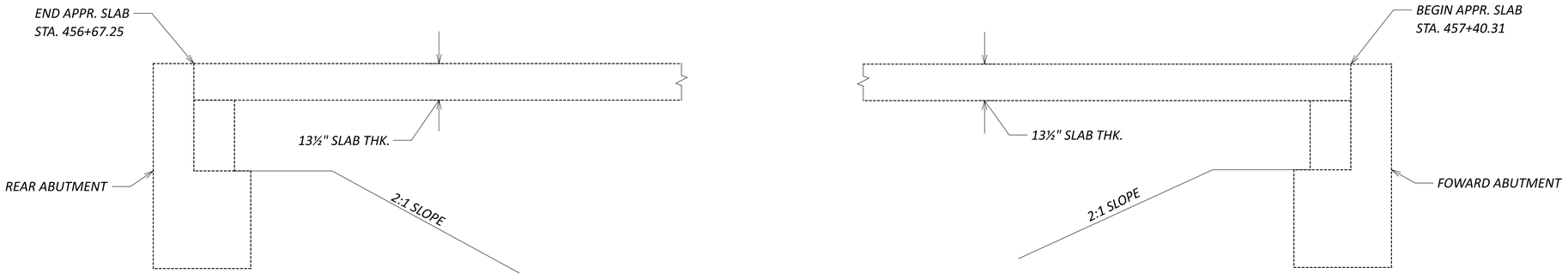
D01-BM-FY26

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:33:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01_D01\113342\d00-Engineering\Roadway\Sheets\113342_SG300.dgn



FOWARD ABUTMENT TRANSVERSE SECTION

TOTAL EPOXY INJECTION = 20'



SLAB EDGES PROFILE VIEW

ABUTMENT DETAILS
VAN-224-8.65
US 224 OVER MADDOX CREEK

SFN 8102430

DESIGN AGENCY

DESIGNER	CHECKER
ISR	XXX

REVIEWER: XXX MM-DD-YY

PROJECT ID: 113342

SUBSET	TOTAL
8	8

SHEET	TOTAL
P.17	17

D01-BM-FY26

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 12/22/2025 TIME: 1:33:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: Clark.Schlatter@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 113342 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01_D01\113342\400-Engineering\Roadway\Sheets\113342_SF100.dgn

OHIO DEPARTMENT OF TRANSPORTATION

Asbestos Inspection Reporting Form

Date: 12/19/25

County: Hancock

Route: SR 15

Section: 22.46R MM

PID: 113342

Requesting ODOT District Office: District 1

Regulating OEPA District Office and Address

Northwest District Office
347 N. Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

Date of the Asbestos Inspection: 11-19-2025

Name and Address of the company conducting the asbestos inspection

ODOT District 1 Office
1885 N. McCullough Street
Lima, Ohio 45801

Name, signature, and asbestos hazard evaluation number of the person writing the report

Jason Jay Akerman
ES548396

Description sampling locations and how each location was determined (use additional pages if needed)

The survey consisted of an inspection of all areas on top of and below the structure to confirm the presence, location and quantities of suspected asbestos-containing materials. Suspected asbestos samples were taken in two random locations. Representing 160 sf from the top of the bridge back wall / slab seat to bridge slab for expansion. SFN-3200698

Name, signature, and asbestos hazard evaluation number of each person who selected samples from the structure (use additional pages if needed)

Name	Signature	Asbestos Evaluation #
Jason Jay Akerman	Jason Jay Akerman	ES548396
Jason Jay Akerman	Jason Jay Akerman	ES548396
Jason Jay Akerman	Jason Jay Akerman	ES548396
Jason Jay Akerman	Jason Jay Akerman	ES548396

SUPPORTING INFORMATION

Laboratory Analytical Report

Blueprint, diagram or written description with the following:

- Type, location and amount of confirmed regulated asbestos containing material
- Location and collection date of each bulk sample
- Location and amounts of suspected asbestos containing material, both friable and non-friable

NOTE: The OEPA Notification of Demolition and Renovation Form with the appropriate Sections I, II, III, IV, VI and VII must be completed by the licensed asbestos hazard evaluation specialist and included with the report submission to ODOT prior to submission to OEPA or the local air authority with jurisdiction.

OEPA Notification of Demolition and Renovation Form

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at ***epa.ohio.gov/asbestos***. This form can be completed, and payment made, at ***ebiz.epa.ohio.gov***. Questions? ***asbestos@epa.ohio.gov*** or (614) 466-0061.

Appendix A:
Bridge Asbestos Inspection Location Photos

Appendix B:
Laboratory Analytical Report

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Allied Environmental Services, Inc.

Report Date: 12/15/2025

Project Name: ODOT Bridge Maintenance

Project #: 116743, 113342

SanAir ID#: 25083406

NVLAP TESTING

NVLAP LAB CODE 600227-0

11709 Chesterdale Road, Cincinnati, Ohio 45246
888.895.1177 | 513.438.6066 | LabReports@SanAir.com | SanAir.com

SanAir ID Number
25083406
FINAL REPORT
12/15/2025 12:46:03 PM

Name: Allied Environmental Services, Inc.
Address: 585 Liberty Commons Parkway
Lima, OH 45804
Phone: 419-227-4004

Project Number: 116743, 113342
P.O. Number:
Project Name: ODOT Bridge Maintenance
Collected Date: 11/19/2025
Received Date: 12/15/2025 9:45:00 AM

Dear Matt Stapleton,

We at SanAir would like to thank you for the work you recently submitted. The 2 sample(s) were received on Monday, December 15, 2025 via FedEx. The final report(s) is enclosed for the following sample(s): 1-A, 1-A-1.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Maureen Y. Haley
Asbestos Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 2 samples in Good condition.

SanAir Technologies Laboratory

SanAir ID Number
25083406
FINAL REPORT
12/15/2025 12:46:03 PM

Name: Allied Environmental Services, Inc.
Address: 585 Liberty Commons Parkway
Lima, OH 45804
Phone: 419-227-4004

Project Number: 116743, 113342
P.O. Number:
Project Name: ODOT Bridge Maintenance
Collected Date: 11/19/2025
Received Date: 12/15/2025 9:45:00 AM

Analyst: Hedge, Emily

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
1-A / 25083406-001 Back Wall + Bridge Slab	Grey Non-Fibrous Homogeneous		85% Other	15% Chrysotile
1-A-1 / 25083406-002 Back Wall + Bridge Slab	Grey Non-Fibrous Homogeneous		85% Other	15% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 12/15/2025

Date: 12/15/2025

Disclaimer and Additional Information

This report is the sole property of the client named on the SanAir Technologies Laboratory, Inc. (SanAir) chain-of-custody (COC). Results in the report are confidential information intended only for the use by the client named on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission to maintain client confidentiality. The final report cannot be reproduced, except in full, without written authorization from SanAir to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including, but not limited to, posting on the SanAir client portal website, electronic or conventional mail, or by any other means. The information provided in this report applies only to the samples submitted in the condition they were received at the laboratory and is relevant only for the date, time, and location of sampling. Samples were received in good condition unless otherwise noted on the report. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC, which includes the project name, project number, P.O. number, sample collection dates, special instructions, samples collected by, sample numbers, sample identifications/location, sample type, selected analysis type, and total area or volume that may affect the validity of the results. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. SanAir assumes no responsibility or liability for the manner in which results are used or interpreted. This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other agency of the U.S. government; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory at iaq@sanair.com for inquiries regarding the status or scope of an accreditation or certification.

Fibers smaller than 5-microns cannot be seen with this method due to scope limitations. Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. Samples are held for a period of 60 days.

Asbestos Accreditations, Certifications, and Licenses
National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 600227-0
State of Connecticut Department of Public Health Registration Number: PH-0817
State of Rhode Island Department of Health, Certification Number: PLM00144, TEM00144
State of West Virginia Bureau for Public Health, Analytical Laboratory Number: LT000637
Texas Department of State Health Services License Number: 300510

25083406

From: Steve Carr <steve@Alliedesi.com>
Sent: Monday, December 15, 2025 9:31 AM
To: Support <support@sanair.com>; Constance Stimmel <connie@Alliedesi.com>
Cc: AsbestosVA <AsbestosVA@sanair.com>; AsbestosOH <AsbestosOH@sanair.com>; Sales <Sales@sanair.com>
Subject: RE: [Reply Needed] 113342 - Lab Confirmation

Please proceed with the analysis. The customer used the wrong CoC, but we've since corrected that. Regular 24-hour T/A is fine.

Thanks,

Steven D. Carr | CEO

Allied Environmental Services, Inc. | 585 Liberty Commons Parkway Lima, OH 45804
T: 419-227-4004 | F: 419-229-4106 | Cell: 419-302-3247 | www.alliedesi.com
ISN #400-116603 |

From: Support <support@sanair.com>
Sent: Monday, December 15, 2025 9:24 AM
To: Steve Carr <steve@Alliedesi.com>; Constance Stimmel <connie@Alliedesi.com>; Rolland Dunifon <rolland@Alliedesi.com>; Matthew Stapleton <stapleton@Alliedesi.com>; Trent Stucky <Trent@Alliedesi.com>; Tyler Beemer <tyler@Alliedesi.com>
Cc: AsbestosVA <AsbestosVA@sanair.com>; AsbestosOH <AsbestosOH@sanair.com>; Sales <Sales@sanair.com>
Subject: Re: [Reply Needed] 113342 - Lab Confirmation
Importance: High

Good Morning,

I am looking to follow up on the asbestos project mentioned below (please see email below). Please advise as needed.

Please let me know if you have any questions.

Let us know how we are doing! Click Here for comments, complaints, and compliments.

Respectfully,

Cecelia Toler
Customer Service Representative
SanAir Technologies Laboratory, Inc.
10501 Trade Court
N. Chesterfield, VA 23236
Phone 804-897-1177 Ext 208
Fax 804-897-0070

RMB DEC 15 2025 9:45a

25083406

www.SanAir.com

SanAir Technologies Laboratory

The Identification Specialists

Asbestos, Lead & Metals, Microbiology, Legionella, Materials Science Testing

2018, 2019, 2020, and 2021 Winner of Top work places in Richmond

---

From: Support <support@sanair.com>
Sent: Monday, December 8, 2025 12:35 PM
To: Steve Carr <steve@alliedesi.com>; Connie Stimmel <connie@alliedesi.com>; Rollo Dunifon <rolland@alliedesi.com>; Matt Stapleton <stapleton@alliedesi.com>; trent@alliedesi.com <trent@alliedesi.com>; Tyler Beemer <tyler@alliedesi.com>
Cc: AsbestosVA <AsbestosVA@sanair.com>; AsbestosOH <AsbestosOH@sanair.com>; Sales <Sales@sanair.com>
Subject: [Reply Needed] 113342 - Lab Confirmation

Project Number: 113342

Good Afternoon,

The Ohio lab received samples this morning for project number 113342, however, the chain of custody is for DMD Environmental, Inc (please see attached). Please advise if SanAir is to proceed with analysis, and if so, the turnaround time you are looking for.

Please let me know if you have any questions.

Respectfully,

Cecelia Toler
Customer Service Representative
SanAir Technologies Laboratory, Inc.
10501 Trade Court
N. Chesterfield, VA 23236
Phone 804-897-1177 Ext 208
Fax 804-897-0070
www.SanAir.com

RMB DEC 15 2025 9:45am

DMD Environmental, Inc. www.DMDEnv.com

An employee owned company

3424 West Laskey Road, Toledo, Ohio 43623-4032 DMDEnv@att.net *Telephone (419) 473-1980 Facsimile (419) 473-1985*

25083406

Bill to Ohio Department of Transportation
1885 N McCullough St, Lima, OH 45801
Paige Dunn Paige.Dunn@dot.ohio.gov

CHAIN OF CUSTODY

Page ____ of ____

Project No.: 116743	Project Manager and Phone No.: Clark Schlatter 419-999-6856	Analysis			
Client: ODOT	Sampler's Name: Jason Akerman	PLM	PCM		
Project: Bridge Maintenance	Sampler's Signature: Jason Akerman				

Item No.	Sample ID	Date Sampled	Sample Location	PLM	PCM		
1	1-A	11/19/25	Back wall & Bridge Slab	All			
2							
3							
4							
5							
6							
7							
8							
9							
10							

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time
Jason Akerman	11/19/25	3:20	Paige Dunn	11/19/25	3:20pm						
Relinquished by: Jason Akerman	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time

RMB - 12/8/25 10:50 am

DMD Environmental, Inc. www.DMDEnv.com An employee owned company

3424 West Laskey Road, Toledo, Ohio 43623-4032 DMDEnv@att.net *Telephone (419) 473-1980* *Facsimile (419) 473-1988*

25083406

Bill to Ohio Department of Transportation
1885 N McCullough St, Lima, Oh 45801
Paige Dunn Paige.Dunn@dot.ohio.gov

CHAIN OF CUSTODY

Page ____ of ____

Project No.: 113342	Project Manager and Phone No.: Clark Schlatter 419-999-6856	Analysis			
Client: ODOT	Sampler's Name: Jason Akerman	PLM	PCM		
Project: Bridge Maintenance	Sampler's Signature: Jason Akerman				

Item No.	Sample ID	Date Sampled	Sample Location				
1	1-A-1	11/19/25	Back Wall & Bridge slab	All			
2							
3							
4							
5							
6							
7							
8							
9							
10							

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time
	11/19/25	3:20pm	Paige Dunn	11/19/25	3:20pm						
Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time

RMB 12/8/25 10:50am

Appendix C:
OEPA Notification of Demolition and Renovation Form

Ohio EPA Use Only	Notification #:	Postmarked: / /	Received: / /	☐ Hand-Delivered

1) Notification Information (Check all that apply)

☐ Original	☐ Revision # (count):	☐ Installation	☐ Emergency	☐ Annual	☐ Cancellation	**Project County:**
☐ NESHAP Residential Exemption						

2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information **Revised?** ☐

Owner		
Name: ODOT District 1		Is this a company? ■ Yes ☐ No
Address: 1885 N. McCullough Street	Contact Person: Paige Dunn, D1 Environmental Specialist	
City: Lima	State: OH	Zip: 45801 -
Email: paige.dunn@dot.ohio.gov	Phone: (419) 999 - 6888	Fax: (419) 222 - 0438
Asbestos Abatement Contractor (if applicable)		
Name:	License #: AC	Expiration Date: / /
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Billing Contact (Entity paying for original notification)		
Is this contact associated with the ☐ Owner, ☐ Asbestos Abatement Contractor, or ☐ Demolition Contractor (if not installation)?		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Fire Department (if applicable)		
Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

3) Ohio Asbestos Hazard Evaluation Specialist and Evaluation Procedure **Revised?** ☐

Evaluation Specialist: Jason Akerman	Certification #: ES 548396	Expiration Date: 09/13/2026

Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of regulated asbestos-containing material (RACM) and Category I and Category II non-friable asbestos-containing material: ■ PLM ☐ Point Count ☐ TEM ☐ Other Method (Explain Below):

4) Procedures to be followed should unexpected RACM be discovered (check all that apply) **Revised?** ☐

■ Stop work and keep wet	■ Evacuate area	■ Demarcate area	■ Contact licensed abatement contractor
■ Contact district office/local air authority			
☐ Other (Explain):			

5) Planned Demolition (check all that apply) **Revised?** ☐

Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used:
☐ Implosion ☐ Fire Training ☐ Wet Methods ☐ Manual Demolition ☐ Mechanical Demolition ☐ Other (Explain):

Description of affected facility components (include attachment if necessary):

6) Asbestos Description and Engineering Controls (if asbestos is being abated) **Revised?** ☐

For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling:					
Type of ACM to be abated:	☐ Surfacing	☐ Mechanical	☐ Other		
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE	☐ AFD	☐ Other:
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechanical	☐ Other:	

7) Asbestos Waste Transporter (if applicable) **Revised?** ☐

Transporter #1 Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Transporter #2 Name (if applicable):		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

8) Asbestos Waste Disposal Site (if applicable) **Revised?** ☐

Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project) **Revised?** ☐

A copy of the issued order, including the following information, **must be attached** to this notification.	
Government Official Issuing Order:	Title:
Agency:	Authority of Order (Citation of Code):
Date of Order: / /	Demolition Date: / /

10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) **Revised?** ☐

Date of Emergency: / /	Time of Emergency: : ☐ a.m. ☐ p.m.
Description of Sudden, Unexpected Event:	
Explanation of how the event caused unsafe conditions or equipment damage:	

11) Attestation **Revised?** ☐

In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete.	
Signature:	Date: / /
Name:	Title:
Organization:	

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Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #:

A. Facility Description **Revised?** ☐

Building Name (if applicable): HAN-SR 15-22.46	Site Location (specific): State Route 15 over Hoy Ditch	
Address: 40.984288, -83.556763		
City: Findlay	State: OH	Zip: - 45840
Building Size (square feet): 2,400	No. of Floors:	Age: 1963
Present Use: Bridge	Prior Use: Bridge	

B. Type of Operation (check all that apply) **Revised?** ☐

■ Demolition	☐ Renovation/Abatement – Type: ☐ Removal ☐ Repair ☐ Encapsulation ☐ Enclosure

C. Asbestos Present (check one) **Revised?** ☐

■ Yes	☐ No	☐ No, previously abated	Year Abated:

D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present) **Revised?** ☐

	Material to be Removed			Material NOT to be Removed	
		Non-friable Asbestos-Containing Material		Non-friable Asbestos-Containing Material	
	RACM	Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface area on other facility components (ft^2)			160		
Volume if length or area cannot be measured (ft^3)					

E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) **Revised?** ☐

Setup Date: / /		Abatement Date: / /			Complete Date: / /		
(Shift 1) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:			Certification #: AS			Expiration Date: / /	
(Shift 2) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:			Certification #: AS			Expiration Date: / /	

F. Demolition Contractor (if applicable) **Revised?** ☐

Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

G. Demolition Schedule (original notification is required 10 working days prior to the start of work) **Revised?** ☐

Start Date: / /	Complete Date: / /

H. Project Hold **Revised?** ☐

Asbestos Abatement Offsite/On Hold as of Date: / /	Asbestos Abatement On Site/Off Hold, Work Resume Date: / /
Demolition Offsite/On Hold as of Date: / /	Demolition On Site/Off Hold, Work Resume Date: / /

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