SHEET NUM.									PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	11	24	25	26	105	114	126	01/MPO/ HARR	02/BRO/ HARR	03/SAF/ HARR						
																STRUCTURE OVER 20 FOOT SPAN (SFN 3107981)	
								LS		LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	124
								133		133		202	22900	133	SY	APPROACH SLAB REMOVED	
								133		133		202	23500	133	SY	WEARING COURSE REMOVED	
								499		499		202	98200	499	FT	REMOVAL MISC.: PORTIONS OF STRUCTURE REMOVED, BULB ANGLE, AS PER PLAN	124
								LS		LS		503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	124
								LS		LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
								LS		LS		505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
								1,760		1,760		507	00500	1,760	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
								2,140		2,140		507	00550	2,140	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
								223,132		223,132		509	10000	223,132	LB	EPOXY COATED STEEL REINFORCEMENT	
								500		500		509	20001	500	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	124
								4,763		4,763		509	26000	4,763	LB	GALVANIZED STEEL REINFORCEMENT	
								4,256		4,256		509	30020	4,256	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
								238		238		510	10001	238	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	125
								2		2		511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	
								631		631		511	34446	631	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
								45		45		511	34450	45	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
								158		158		511	41012	158	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS	
								67		67		511	44112	67	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	
								130		130		511	46512	130	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
								57		57		511	51512	57	CY	CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK	
								222		222		512	10050	222	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
								1,059		1,059		512	10100	1,059	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								100		100		512	10600	100	FT	CONCRETE REPAIR BY EPOXY INJECTION	
								268,700		268,700		513	10260	268,700	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3	
								8,952		8,952		513	20000	8,952	EACH	WELDED STUD SHEAR CONNECTORS	
								4,400		4,400		514	00050	4,400	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
								4,400		4,400		514	00056	4,400	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
								19,680		19,680		514	00060	19,680	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
								19,680		19,680		514	00066	19,680	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
								10		10		514	00504	10	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
								9		9		514	10000	9	EACH	FINAL INSPECTION REPAIR	
								56		56		514	20001	56	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN	124
								251		251		514	27700	251	SF	FIELD PAINTING, MISC.: COATING OF BEAM ENDS	125
								148		148		516	10010	148	FT	ARMORLESS PREFORMED JOINT SEAL	
								13		13		516	13600	13	SF	1" PREFORMED EXPANSION JOINT FILLER	
								86		86		516	13900	86	SF	2" PREFORMED EXPANSION JOINT FILLER	
								171		171		516	14020	171	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
								18		18		516	44201	18	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 13" x 3.607")	
								27		27		516	44201	27	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14" x 20" x 3.128")	
								LS		LS		516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	124
								300		300		517	75122	300	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE)	
								288		288		518	21200	288	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
								180		180		518	40000	180	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
								100		100		518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
								100		100		519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	125
								2		2		523	20000	2	EACH	DYNAMIC LOAD TESTING	
								411		411		526	25010	411	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")	
								148		148		526	90030	148	FT	TYPE C INSTALLATION	
								271		271		601	20000	271	SY	CRUSHED AGGREGATE SLOPE PROTECTION	

GENERAL SUMMARY

DESIGN AGENCY

PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
KLL

REVIEWER
ERW 09/23/25

PROJECT ID
118472

SHEET 022 | TOTAL 172

HAM-CR14-3.49

MODEL: GG004 PAPERSIZE: 34x22 (in.) DATE: 9/23/2025 TIME: 2:45:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: klinville@teceng.com WORKSPACE: OHDOTCEv02 WORKSET: 118472 PRODUCT: OpenRoadsDesigner 24.00.00.205
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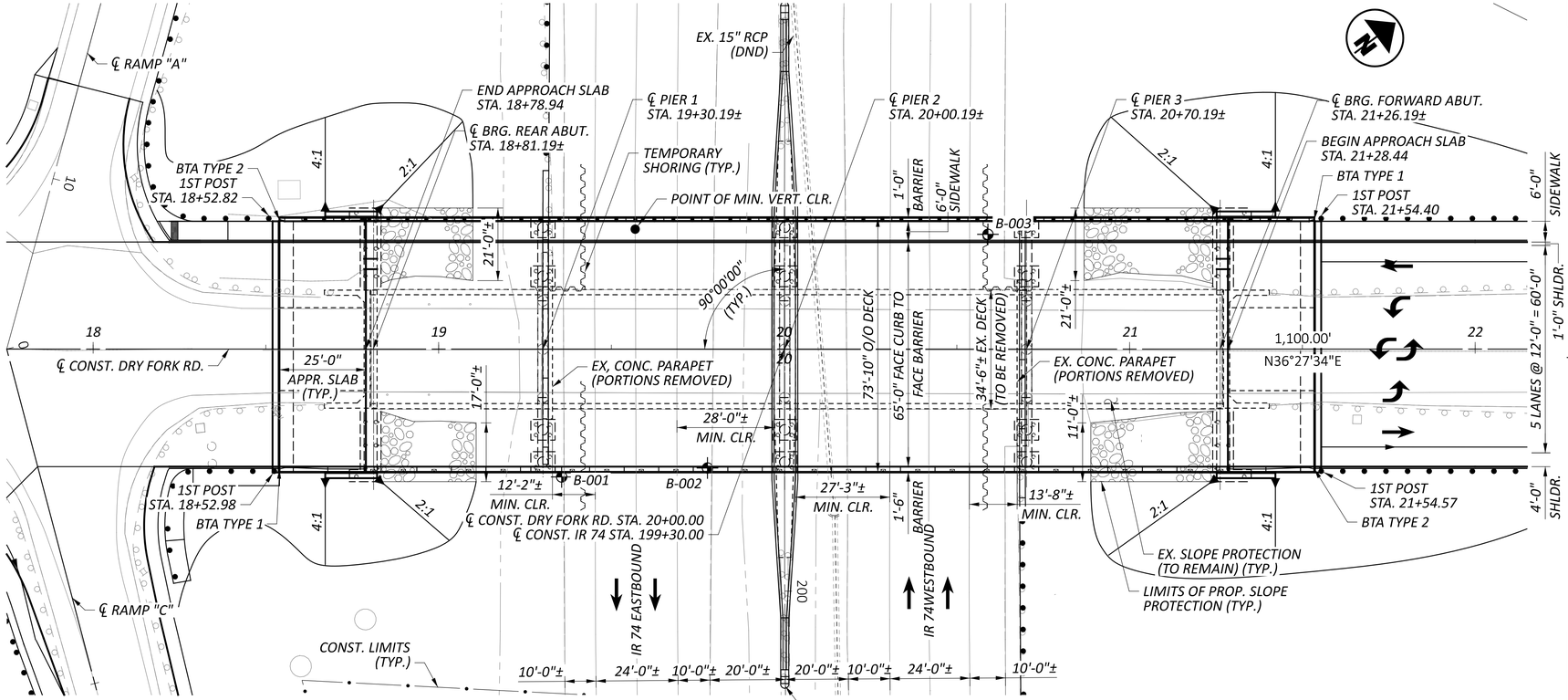
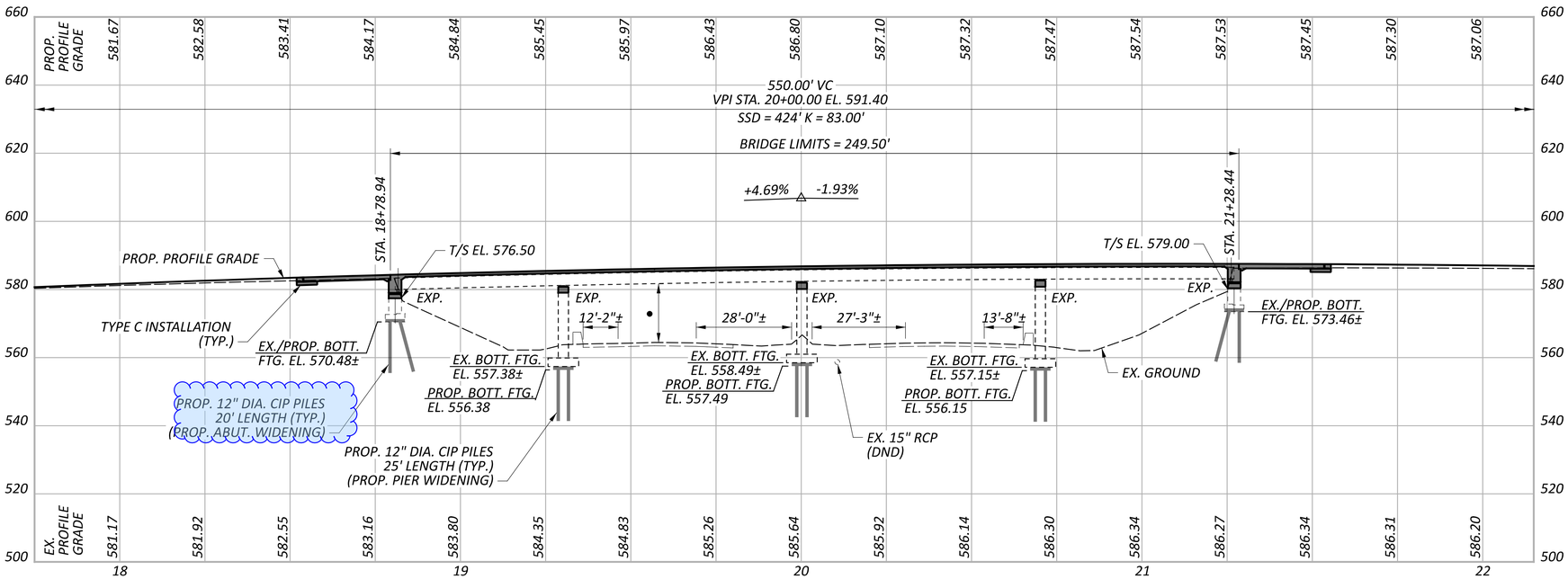


PLAN



PROFILE - ALONG ℄ CONST. DRY FORK RD.

BENCHMARK DATA

PBM8319 STA. 15+66.47, ELEV. 576.48, OFFSET 139.61' RT. (DRY FORK RD.)

FOR ADDITIONAL BENCHMARK INFORMATION, SEE SCHEMATIC PLAN.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2026 ADT =	9,161	2026 ADTT =	367
2046 ADT =	15,256	2046 ADTT =	611
DIRECTIONAL DISTRIBUTION =	53%		

LEGEND

- ● 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
- 16'-9⅛" ACTUAL MINIMUM VERTICAL CLEARANCE
- ⊕ PROJECT BORING LOCATION

DND - DO NOT DISTURB
BTA - BRIDGE TERMINAL ASSEMBLY

EXISTING STRUCTURE

TYPE: FOUR-SPAN CONTINUOUS ROLLED STEEL BEAM WITH NON-COMPOSITE REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 49'-0"±, 70'-0"±, 70'-0"±, 56'-0"± C/C BRG.
ROADWAY: 31'-6"± T/T PARAPET
LOADING: CF 400 (57)
SKEW: NONE
WEARING SURFACE: 3"± SUPERPLASTICIZED DENSE CONCRETE OVERLAY
APPROACH SLABS: 25'-0"± (AS-1-54)
ALIGNMENT: TANGENT
CROWN: 0.016± FT/FT
STRUCTURE FILE NUMBER: 3107981
DATE BUILT: 1962
DISPOSITION: TO BE REHABILITATED AND WIDENED

PROPOSED STRUCTURE

TYPE: FOUR-SPAN CONTINUOUS ROLLED STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK AND WIDENED SUBSTRUCTURES

SPANS: 49'-0", 70'-0", 70'-0", 56'-0" C/C BRG.
ROADWAY: 65'-0"± FACE OF BARRIER TO FACE OF CURB
VEHICULAR LIVE LOAD: HL-93
FUTURE WEARING SURFACE: 0.06 KSF
SKEW: NONE
APPROACH SLABS: 25'-0" LONG (AS-1-15, AS-2-15)
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
DECK AREA: 18,421 SF

COORDINATES: LATITUDE 39° 14' 26.44" N
LONGITUDE 84° 46' 19.32" W

SITE PLAN
BRIDGE NO. HAM-74-0358
DRY FORK RD. OVER IR 74

SFN 3107981
DESIGN AGENCY STRUCTUREPOINT
DESIGNER MAH | CHECKER PEG
REVIEWER CLB 08/25/25
PROJECT ID 118472
SUBSET 1 | TOTAL 37
SHEET P.123 | TOTAL 172

HAM-CR14-3.472

MODEL: CLPC014 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 9/19/2025 TIME: 8:05:57 AM PLTDRV: OHIO_PDF.pltcfg PENTBL: Ohio_Shade.tbl USER: WORKSPACE: OHDOT_v2 WORKSET: 20220375-HAM-CR14-3.49_Dry_Fork PRODUCT: OpenRoadsDesigner 10.10.21.04
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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15	REVISED	01-20-23
AS-2-15	REVISED	07-21-23
BR-2-15	REVISED	07-19-24
GSD-1-19	REVISED	07-19-24
SBR-1-20	REVISED	07-19-24
SICD-1-21	REVISED	01-19-24
SICD-2-24	REVISED	01-15-21
VPF-1-24	REVISED	07-19-24

DESIGN SPECIFICATIONS:

THE PROPOSED WORK CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

SUPERSTRUCTURE: VEHICULAR LIVE LOAD: HL-93
FUTURE WEARING SURFACE (FWS) OF 0.060 KSF

SUBSTRUCTURE: EXISTING SUBSTRUCTURES - CF400 (57)
& 0.00 KSF FUTURE WEARING SURFACE

FOUNDATION: EXISTING FOUNDATIONS - CF400 (57)
& 0.00 KSF FUTURE WEARING SURFACE

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE REINFORCEMENT:

EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60-KSI (DECK, PARAPET, SUBSTRUCTURES)

GFRP REINFORCEMENT (PARAPET)

GALVANIZED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60-KSI (SUBSTRUCTURES)

STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI

STEEL CIP PILES - ASTM A252 GRADE 3 - YIELD STRENGTH 45 KSI

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

PROPOSED WORK:

1. REPLACE EX. DECK AND APPROACH SLABS.
2. PATCH EX. SUBSTRUCTURES.
3. RAISE EX. ABUTMENT AND PIER BEAM SEAT.
4. WIDEN SUBSTRUCTURES. CONVERT ABUTMENTS TO SEMI-INTEGRAL.
5. INSTALL SHEAR CONNECTORS ON EX. BEAMS.
6. INSTALL PROPOSED BEAM LINES TO ACCOMMODATE WIDENED BRIDGE.
7. REPLACE ALL BEARINGS WITH ELASTOMERIC BEARINGS.
8. SEAL EXPOSED CONCRETE SURFACES.
9. INSTALL VANDAL PROTECTION FENCE.
10. STRUCTURE GROUNDING PER HL-50.12.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS 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 STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:

DESCRIPTION:
THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPOSIVES, HEADACHE BALLS AND/OR HOE RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISITING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

THIS WORK CONSISTS OF THE REMOVAL OF CONCRETE DECKS INCLUDING SIDEWALKS, CONCRETE BRIDGE RAILINGS, METAL RAILINGS, DECK JOINTS AND OTHER APPURTENANCES FROM STEEL SUPPORTING SYSTEMS (BEAMS, GIRDERS, CROSSFRAMES, ETC.). THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS:
BEFORE DECK SLAB CUTTING BEGINS, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFCAE OF THE DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF CONCRETE REINFORCEMENT IN THE DECK SLAB. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR.

EXISTING WELDED ATTACHMENTS:
REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS; AND SUPPORTS FOR SCUPPERS AND BULB ANGLES WHICH ARE TO BE REMOVED) LOCATED IN THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES.

CUTLINE CONSTRUCTION JOINT PREPARATION:
SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL:
REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOE-RAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT AND PAYMENT:
THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 202 - REMOVAL, MISC.: PORTIONS OF STRUCTURE REMOVED, BULB ANGLE, AS PER PLAN:

THIS WORK CONSISTS OF REMOVING IN ITS ENTIRETY THE EXISTING BULB ANGLES THAT WERE CAST INTO THE DECK WHEN THE EXISTING DECK WAS CONSTRUCTED. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE STRUCTURAL STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

EXISTING WELDED ATTACHMENTS: GRIND THE FLANGE SURFACES SMOOTH WHERE THE EXISTING WELDED BULB ANGLE ATTACHES TO THE FLANGES LOCATED IN THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - REMOVAL, MISC.: PORTIONS OF STRUCTURE REMOVED, BULB ANGLE, AS PER PLAN.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN:

SHORING REQUIRED TO CONSTRUCT THE PIER FOUNDATIONS IN THE OUTSIDE SHOULDERS OF IR 74 TO BE LEFT IN PLACE. SHORING INSTALLED UNDER EXISTING BEAMS MAY REQUIRE SPECIAL EQUIPMENT.

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING STEEL REINFORCEMENT BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME SIZE, COATING, AND MATERIAL AT NO COST TO THE DEPARTMENT.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 272 KIPS PER PILE AT THE ABUTMENTS AND 290 KIPS PER PILE AT THE PIERS.

ABUTMENT PILES:
12-IN DIAMETER PILES 25 FEET LONG, ORDER LENGTH
1 DYNAMIC LOAD TESTING ITEM

PIER PILES:
12-IN DIAMETER PILES 30 FEET LONG, ORDER LENGTH
1 DYNAMIC LOAD TESTING ITEMS

PROVIDE PLAIN CYLINDRICAL CASINGS WITH A MINIMUM PILE WALL THICKNESS OF 3/8 INCH FOR THE CAST-IN-PLACE REINFORCED CONCRETE PILES.

PILE DRIVING:

USE A PILE DRIVING HAMMER WITH A RATED ENERGY OF NOT GREATER THAN 33,305 FOOT-POUNDS TO INSTALL THE PILES. ENSURE THAT STRESSES IN THE PILES DURING DRIVING DO NOT EXCEED (40.5) POUNDS PER SQUARE INCH.

ITEM 514 - FIELD PAINTING, MISC.: COATING OF BEAM ENDS:

PRIOR TO ENCASING THE BEAM ENDS, PREPARE THE ENDS PER SSPC-SP 10 OR SSPC-SP 11 TO BARE METAL ACHIEVING A 1.2 TO 3.5 MIL PROFILE. PAINT THE BEAM ENDS WITH ORGANIC ZINC PRIME COAT PER CMS 514. PROVIDE THE PRIME COAT THICKNESS AS PER CMS 514.20. EXTEND THE LIMITS OF THE BEAM PREPARATION AND PAINTING 1-FT BEYOND THE LIMITS OF THE END DIAPHRAGM CONCRETE.

AFTER THE DIAPHRAGM CONCRETE IS SET, SEAL THE INTERFACE BETWEEN THE BEAM AND CONCRETE WITH CAULK.

THE DEPARTMENT WILL PAY FOR ALL ABOVE LABOR AND AT THE CONTRACT BID PRICE FOR ITEM 514 - FIELD PAINTING, MISC.: COATING OF BEAM ENDS.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN:

THIS ITEM CONSISTS OF FIELD PAINTING DAMAGED STRUCTURAL STEEL BY PERFORMING SURFACE PREPARATION AND APPLYING A TWO-COAT PAINT SYSTEM TO THE UNCOATED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING COATINGS.

CMS 514.06 THROUGH 514.10 APPLY. REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO SSPC-SP 15, COMMERCIAL GRADE POWER TOOL CLEANING, OR EQUAL AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3. THE ENGINEER WILL USE THE SSPC-VIS 3 TO DETERMINE THE ACCEPTANCE OF THE COMMERCIAL GRADE POWER TOOL CLEANING. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF 1/2 INCH OF EACH COAT. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO CMS 514.13.D.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL AS NECESSARY TO ACHIEVE A 1/16 INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

APPLY THE PRIME AND INTERMEDIATE COATS OF THE SPECIFIED THREE-COAT PAINT SYSTEM, CMS 708.02, ACCORDING TO CMS 514.15, 514.16, 514.17, AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE INTERMEDIATE COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR. MATCH THE COLOR TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME COAT THICKNESS; PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. EACH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF CMS 514.20.

APPLY PAINT AS FOLLOWS:

A. APPLY THE PRIME COAT ONLY TO THE SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.

B. APPLY THE INTERMEDIATE COAT ONLY TO THE NEW PRIME COAT AND THE EXISTING INTERMEDIATE COAT EXPOSED BY FEATHERING. DO NOT APPLY THE INTERMEDIATE COAT TO THE ADJACENT FINISH COAT.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME AND INTERMEDIATE COATS USING A BRUSH. APPLY THE FINISH COAT USING EITHER BRUSH OR SPRAY. IN LIEU OF BRUSHING THE USE OF MASKING AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES MAY BE PERFORMED.

BLEND REPAIR AREAS WITH THE ADJACENT COATING AND PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

THE DEPARTMENT WILL MEASURE FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN BY THE NUMBER OF SQUARE FEET OF STRUCTURAL STEEL PAINTED. ALL REQUIREMENTS OF THIS SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK. THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS. DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05. EXISTING BEAMS SHALL NOT BE SUPPORTED ON EXISTING PIER CAPS AFTER THE ENDS OF THE PIER CAPS ARE REMOVED. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

STRUCTURE GENERAL NOTES - 1
BRIDGE NO. HAM-74-0358
DRY FORK RD. OVER IR 74

SFN 3107981

DESIGN AGENCY
STRUCTUREPOINT LLC
MEMBER OF THE PCA FAMILY

DESIGNER	CHECKER
MAH	PEG

REVIEWER
CLB 08/25/25

PROJECT ID
118472

SUBSET	TOTAL
2	37

SHEET	TOTAL
P.124	172

HAM-CR14-3.472

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ESTIMATED QUANTITIES

CALCULATED BY: BWJ DATE: 08/21/25
CHECKED BY: ABD DATE: 08/22/25

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER STR.	GENERAL	SEE SHT. NO.
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	2/37
202	22900	133	SY	APPROACH SLAB REMOVED				133	
202	23500	133	SY	WEARING COURSE REMOVED				133	
202	98200	499	FT	REMOVAL MISC.: PORTIONS OF STRUCTURE REMOVED, BULB ANGLE, AS PER PLAN			499		2/37
503	11101	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LS	2/37
503	21300	LS	LS	UNCLASSIFIED EXCAVATION				LS	
505	11100	LS	LS	PILE DRIVING EQUIPMENT MOBILIZATION				LS	
507	00500	1760	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	560	1200			
507	00550	2140	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	700	1440			
509	10000	223132	LB	EPOXY COATED STEEL REINFORCEMENT	8791	30112	184229		
509	20001	500	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN				500	2/37
509	26000	4763	LB	GALVANIZED STEEL REINFORCEMENT	1098	3665			
509	30020	4256	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			4256		
510	10001	238	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	64	174			3/37
511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	2				
511	34446	631	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			631		
511	34450	45	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			45		
511	41012	158	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		158			
511	44112	67	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	67				
511	46512	130	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	64	66			
511	51512	57	CY	CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK			57		
512	10050	222	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			222		
512	10100	1059	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	125	391	543		
512	10600	100	FT	CONCRETE REPAIR BY EPOXY INJECTION				100	
513	10260	268700	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3			268700		
513	20000	8952	EACH	WELDED STUD SHEAR CONNECTORS			8952		
514	00050	4400	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			4400		
514	00056	4400	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			4400		
514	00060	19680	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			19680		
514	00066	19680	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			19680		
514	00504	10	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			10		
514	10000	9	EACH	FINAL INSPECTION REPAIR			9		
514	20001	56	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN			56		3/37
514	27700	251	SF	FIELD PAINTING, MISC.: COATING OF BEAM ENDS			251		
516	10010	148	FT	ARMORLESS PREFORMED JOINT SEAL				148	
516	13600	13	SF	1" PREFORMED EXPANSION JOINT FILLER			13		
516	13900	86	SF	2" PREFORMED EXPANSION JOINT FILLER	86				
516	14020	171	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	171				
516	44201	27	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 13" x 3.128")		27			17/37
516	44201	18	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 13" x 3.607")	18				16/37
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	2/37
517	75122	300	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE)			300		
518	21200	288	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	288				
518	40000	180	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	180				
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN				100	3/37
523	20000	2	EACH	DYNAMIC LOAD TESTING	1	1			
526	25010	411	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				411	
526	90030	148	FT	TYPE C INSTALLATION				148	
601	20000	271	SY	CRUSHED AGGREGATE SLOPE PROTECTION				271	
607	39900	249	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			249		
607	39930	249	FT	VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC			249		
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1	

ESTIMATED QUANTITIES
BRIDGE NO. HAM-74-0358
DRY FORK RD. OVER IR 74

SFN 3107981
DESIGN AGENCY STRUCTUREPOINT
DESIGNER MAH | CHECKER PEG
REVIEWER CLB 08/25/25
PROJECT ID 118472
SUBSET 4 | TOTAL 37
SHEET P.126 | TOTAL 172

HAM-CR14-3.472

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