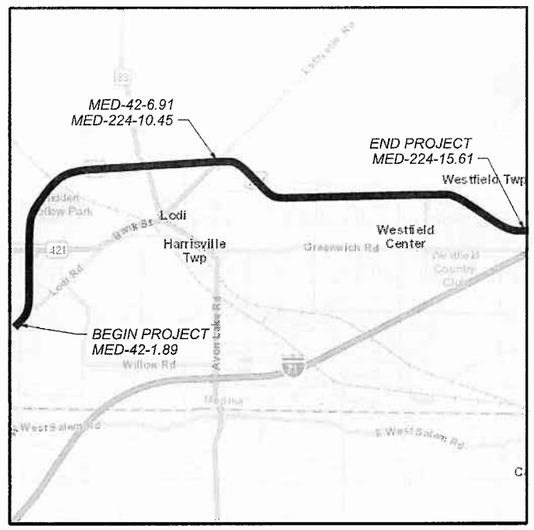
MED - US-US 42-01.89
210531 PID - 79761
Dist 3 11/18/2021



LOCATION MAP

LATITUDE: 41°2'48" LONGITUDE: 81°59'38"

PORTION TO BE IMPROVED ----------

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MED-42-1.89
MED-224-(6.25)(10.45)

VILLAGE OF WESTFIELD CENTER

HARRISVILLE TOWNSHIP
WESTFIELD TOWNSHIP

MEDINA COUNTY

INDEX OF SHEETS:

DESIGN DESIGNATIONS: SEE SHEET 2

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

FEDERAL PROJECT NUMBER

E170083

RAILROAD INVOLVEMENT

CSX, WHEELING & LAKE ERIE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES PAVEMENT REPAIRS, PLANING AND PAVING WITH ASPHALT CONCRETE, BRIDGE MAINTENANCE, GUARDRAIL REPAIR, AND REPLACING PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

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

** = MAINTENANCE PROJECT*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 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 SHALL GOVERN THIS IMPROVEMENT.

PLANS PREPARED BY:

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT THREE ENGINEERING

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 17-22.

APPROVED _____ *DISTRICT DEPUTY DIRECTOR*
DATE 06/25/21

APPROVED Jack Marchbanks, DES
DATE 8/17/2021 *DIRECTOR, DEPARTMENT OF TRANSPORTATION*

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)

ENGINEER'S SEAL:

STATE OF OHIO
KARLA R. BOHMER
E-76834
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Karla R. Bohmer
DATE: 6/30/21

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	
AS-1-15	7/17/15	MGS-1.1	1/19/18	MT-95.30	7/19/19	MT-101.60	1/17/20	TC-41.20	10/18/13	800	7/16/21
DBR-2-73	7/19/02	MGS-2.1	1/19/18	MT-95.40	1/17/20	MT-101.70	1/17/20	TC-42.20	10/18/13	807	7/17/20
DBR-3-11	7/15/11	MGS-3.1	1/19/18	MT-95.45	1/17/20	MT-101.75	1/17/20	TC-52.10	10/18/13	808	1/18/19
EXJ-4-87	1/19/18	MGS-3.2	1/18/13	MT-95.50	7/21/17	MT-101.90	7/17/20	TC-52.20	1/15/21	821	4/20/12
		MGS-4.2	7/19/13	MT-96.11	4/16/21	MT-102.20	4/19/19	TC-61.30	7/19/19	830	7/19/19
BP-2.1	7/17/15	MGS-4.3	1/18/13	MT-96.20	7/15/16	MT-104.10	10/16/15	TC-64.10	1/17/20	832	10/19/18
BP-2.2	1/15/21	MGS-6.1	1/19/18	MT-96.26	1/18/19	MT-105.10	1/17/20	TC-65.10	1/17/14	848	1/15/21
BP-2.5	7/19/13	MGS-6.2	7/19/19	MT-97.12	1/20/17			TC-65.11	7/21/17	850	4/16/21
BP-3.1	1/17/20			MT-98.10	1/17/20			TC-71.10	1/19/18	872	4/17/20
BP-3.2	1/18/19	RM-4.6	7/19/13	MT-98.11	1/17/20			TC-72.20	7/20/18	873	4/16/21
BP-6.1	7/19/13			MT-98.20	4/19/19			TC-73.20	1/17/20	874	4/17/20
BP-9.1	1/18/19			MT-98.22	1/17/20					875	1/18/19
				MT-98.28	1/17/20					SPECIAL PROVISIONS	
DM-4.1	7/17/20			MT-98.29	1/17/20						
DM-4.3	1/15/16			MT-99.20	4/19/19						
DM-4.4	1/15/16			MT-99.50	1/17/20						

TITLE SHEET

DESIGN AGENCY	DISTRICT 3
	ENGINEERING TEAM TWO
DESIGNER	ACM
REVIEWER	KRB 6-30-21
PROJECT ID	79761
SHEET	1
TOTAL	79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 7/12/2021 TIME: 12:50:51 PM USER: jlowery
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GT001.dgn

ITEM 614 – MAINTAINING TRAFFIC (GENERAL)

2-LANE: MAINTAIN ONE 10' LANE OF TRAFFIC AT ALL TIMES.

4-LANE: MAINTAIN ONE 11' LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.

SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT. PRIOR TO BEGINNING WORK, COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

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 CURRENT EDITION WITH THE LATEST REVISIONS. 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.

COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. MED-42-6.10 (PID 102624) IS A CULVERT REPAIR PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2022 CONSTRUCTION SEASON AFTER AUGUST 31, 2022. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

INTERIM COMPLETION DATE

DUE TO THE ANTICIPATED CULVERT REPAIR WORK AT MED-42-6.10 TO BE PERFORMED BY A SEPARATE CONTRACT, THE CONTRACTOR SHALL PERFORM ALL PAVEMENT REPAIRS AND PAVING WORK, UP THROUGH THE SURFACE COURSE, ON EASTBOUND MED-42 SLM 1.89 TO SLM 6.91 WITH AN INTERIM COMPLETION DATE OF AUGUST 31, 2022. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE FEE OF $5,000 PER DAY.

SEQUENCE OF PAVING WORK

1. CLOSE RIGHT LANE. PLANE, PERFORM PAVEMENT REPAIRS AND PAVE OUTSIDE SHOULDER UP TO SURFACE COURSE.
2. CLOSE LEFT LANE. PLANE, PERFORM PAVEMENT REPAIRS AND PAVE LEFT LANE AND INSIDE SHOULDER UP TO INTERMEDIATE COURSE.
3. CLOSE RIGHT LANE. PLANE, PERFORM PAVEMENT REPAIRS AND PAVE RIGHT LANE UP TO SURFACE COURSE.
4. CLOSE LEFT LANE. PAVE LEFT LANE AND INSIDE SHOULDER WITH SURFACE COURSE.

BUTT JOINTS

DO NOT CUT BUTT JOINTS AND ALLOW THEM TO BE LEFT OPEN TO TRAFFIC. FILL THE BUTT JOINTS WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH THE TAPER RATES SET FORTH IN SCD BP-3.1.

ERECT AND MAINTAIN CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. PAYMENT FOR THESE SIGNS WILL BE MADE UNDER THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

CONTRACTOR EQUIPMENT ACCESS AND WORK OPERATIONS

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LANE CLOSURE DISINCENTIVE

A LANE CLOSURE IS DEFINED AS ANY RESTRICTION OF A LANE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, SET UP AND TEAR DOWN OF TRAFFIC CONTROL ZONES. THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE IN THE AMOUNT OF $50 PER MINUTE THAT LANES ARE CLOSED TOR TRAFFIC DURING TIMES DESIGNATED AS "LANE CLOSURE NOT PERMITTED" AS STATED IN THESE PLANS AND ON THE ODOT PLCM WEB SITE AT http://plcm.dot.state.oh.us.

MAINTENANCE OF TRAFFIC FOR MARKING PAVEMENT REPAIRS

PROVIDE LANE CLOSURES AS PER THE MAINTENANCE OF TRAFFIC NOTES IN THESE PLANS A MINIMUM OF 24 HOURS PRIOR TO PERFORMING PAVEMENT REPAIRS TO ALLOW THE ENGINEER TO IDENTIFY AND MARK THE AREAS OF THE PAVEMENT IN NEED OF REPAIRS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO PERFORM THE ABOVE LISTED WORK IS CONSIDERED INCIDENTAL TO MAINTAINING TRAFFIC ON THE PROJECT AND WILL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC.

LIMITATION ON WORK ZONE LENGTH

LIMITATIONS ON WORK ZONE LENGTH SHALL BE IMPLEMENTED SO AS TO NOT CREATE CONGESTION AND UN-NEEDED STRAIN ON TRAFFIC AND TRAFFIC FACILITIES. THE MAXIMUM WORK ZONE LENGTH SHALL BE SIX (6) MILES, SUBJECT TO MODIFICATION BY THE ENGINEER. CONSECUTIVE WORK ZONES ARE ALLOWED WITH A MINIMUM DISTANCE OF TWO (2) MILES REQUIRED BETWEEN WORK ZONE AREAS.

ITEM 614 – MAINTAINING TRAFFIC (LANE CLOSURE/REDUCTION REQUIRED)

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN FIVE (5) CALENDAR DAYS, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS AND PIO*
RAMP AND/OR ROAD CLOSURES	2 WEEKS OR GREATER	21 CALENDAR DAYS
	12 HOURS TO 2 WEEKS	14 CALENDAR DAYS
	12 HOURS OR LESS	4 BUSINESS DAYS
LANE CLOSURES AND RESTRICTIONS	2 WEEKS OR GREATER	14 CALENDAR DAYS
	LESS THAN 2 WEEKS	5 BUSINESS DAYS
START OF CONSTRUCTION AND TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS

* - PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

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 – MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

THIS REQUIREMENT SHALL ONLY APPLY TO THE PROPOSED RAMP DETOURS, SIGNALIZED CLOSURE AND CONCRETE REPAIRS AT THE LAKE ROAD INTERSECTION.

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

CHRISTMAS — FOURTH OF JULY
NEW YEARS DAY — LABOR DAY
MEMORIAL DAY — THANKSGIVING

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

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

ITEM 614 – MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H14) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.] THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP AND ROAD CLOSURES	≥ 2 WEEKS	14 CALENDAR DAYS*
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS*
	< 12 HOURS	2 BUSINESS DAYS*

* DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H14 SIGN LISTS THE NAME OF THE DEPARTMENT, i.e. "THE OHIO DEPT. OF TRANS."

ITEM 614 – MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC. INCLUDE THE COST FOR THE REMOVAL OF ALL MAINTENANCE OF TRAFFIC MATERIALS IN THE CONTRACT BID PRICE FOR EACH ITEM BELOW. REMOVE THE MATERIALS AT THE DIRECTION OF THE ENGINEER WHEN NO LONGER OPERATIONALLY NEEDED.

ITEM 614 – ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
01/NHS/PV – 40 CU YD
01/STR/PV – 10 CU YD

ITEM 614 – MAINTAINING TRAFFIC (SIGNS AND BARRICADES)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS OR AS PER THE ENGINEER.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

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. MARKING QUANTITIES ARE AS LISTED ON THE RPM AND PAVEMENT MARKING SUBSUMMARY.

WORK ZONE MARKING SIGN: (W8-H12A-36) NO EDGE LINE — 6 EACH
WORK ZONE MARKING SIGN: (R4-1-24) DO NOT PASS — 4 EACH
WORK ZONE MARKING SIGN: (R4-2-24) PASS WITH CARE — 3 EACH
TOTAL: — 02/STR/PV - 13 EACH

DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06(B):

ITEM 614 – DETOUR SIGNING — LUMP (01/NHS/PV); LUMP (03/NHS/BR); LUMP (04/STR/BR)

ITEM 614 – REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

THIS ITEM IS TO BE CONSIDERED INCIDENTAL TO MAINTAINING TRAFFIC ON THE PROJECT AND WILL BE PAID FOR UNDER THE LUMP SUM CONTRACT BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC. IT SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED SIGNS, HARDDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY: DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER: JLL
REVIEWER: SRO 7-6-21
PROJECT ID: 79761
SHEET 14 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: MOT NOTES 1 PAPERSIZE: 17X11 (in.) DATE: 10/27/2021 TIME: 3:09:38 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761400-Engineering\Roadway\Sheets\79761_GN001.dgn

SHEET NUM.					PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
															TRAFFIC CONTROL	
			1,732		1,396	336					621	00100	1,732	EACH	RPM	
			1,755		1,414	341					621	54000	1,755	EACH	RAISED PAVEMENT MARKER REMOVED	
296					278	18					626	00110	296	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
	16.52	19.4			34.8	1.12					642	30030	35.92	MILE	REMOVAL OF PAVEMENT MARKING (EXISTING EDGE LINE)	
	250	358			172	436					644	00500	608	FT	STOP LINE	
	685	216			393	508					644	00700	901	FT	TRANSVERSE/DIAGONAL LINE	
	10	14			8	16					644	01300	24	EACH	LANE ARROW	
	6	2			6	2					644	01360	8	EACH	WRONG WAY ARROW	
	2				2						644	40000	2	EACH	SPEED MEASUREMENT MARKING	
		113				113					646	10400	113	FT	STOP LINE	
		24				24					646	10800	24	SF	ISLAND MARKING	
		25				25					646	20300	25	EACH	LANE ARROW	
	0.67	1.38							2.05		807	12010	2.05	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
	0.33	0.66							0.99		807	12110	0.99	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
	0.04								0.04		807	12200	0.04	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, CENTER LINE	
		2,552							2,552		807	12300	2,552	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 8"	
	19.09	20.63							39.72		807	14010	39.72	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
	8.11	9.8							17.91		807	14110	17.91	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
	0.85								0.85		807	14200	0.85	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE	
	1,918	3,448							5,366		807	14300	5,366	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 8"	
		1,455							1,455		807	14410	1,455	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
	1.7								1.7		850	10000	1.7	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT)	
	27.2	30.43							57.63		850	10010	57.63	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
		1,455							1,455		850	10110	1,455	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
	1,918	3,448							5,366		850	10120	5,366	FT	GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT)	
	0.08								0.08		850	20000	0.08	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE)	
	1	2.04							3.04		850	20010	3.04	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
		2,552							2,552		850	20120	2,552	FT	GROOVING FOR 8" RECESSED PAVEMENT MARKING, (CONCRETE)	
															STRUCTURE REPAIR (MED-42-2.61)	
					32			32			512	10300	32	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					5			5			516	45305	5	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS			516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					300			300			517	75600	300	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					300			300			517	76300	300	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					709			709			848	10001	709	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2.25 INCH THICK)	55
					709			709			848	20000	709	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					22			22			848	30001	22	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					40			40			848	50000	40	SY	HAND CHIPPING	
					LS			LS			848	50100	LS		TEST SLAB	
					709			709			848	50320	709	SY	EXISTING CONCRETE OVERLAY REMOVED (2 INCH NOMINAL THICKNESS)	
					398			398			848	50340	398	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
															STRUCTURE REPAIR (MED-42-3.10 L)	
					52		52				202	32000	52	FT	CURB REMOVED	
					100		100				202	32600	100	FT	GUTTER REMOVED	
					256		256				202	98200	256	FT	REMOVAL MISC.: DECK OVERHANG	54
					66		66				202	98200	66	FT	REMOVAL MISC.:JOINT SEALER	54
					829		829				509	10001	829	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	55
					100		100				509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	54
					256		256				511	81100	256	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	55
					90		90				512	10100	90	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					28		28				512	10300	28	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					66		66				516	31000	66	FT	JOINT SEALER	
					4		4				516	45305	4	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS		LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					33		33				519	11100	33	SF	PATCHING CONCRETE STRUCTURE	
					12		12				SPECIAL	51912510	12	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 24 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM2 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:02:01 PM USER: ksilay
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SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
31	32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
					25			25				601	27000	25	CY	DUMPED ROCK FILL, TYPE C	
					474			474				848	10001	474	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					474			474				848	20000	474	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					9			9				848	30001	9	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					27			27				848	50000	27	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					2			2				848	50200	2	CY	FULL-DEPTH REPAIR	
					474			474				848	50320	474	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					266			266				848	50340	266	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
					240			240				SPECIAL	51900100	240	SF	COMPOSITE FIBER WRAP SYSTEM	55
																STRUCTURE REPAIR (MED-42-3.10 R)	
					52			52				202	32000	52	FT	CURB REMOVED	
					100			100				202	32600	100	FT	GUTTER REMOVED	
					256			256				202	98200	256	FT	REMOVAL MISC.: DECK OVERHANG	54
					90			90				202	98200	90	FT	REMOVAL MISC.:JOINT SEALER	54
					829			829				509	10001	829	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	55
					100			100				509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	54
					256			256				511	81100	256	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	55
					90			90				512	10100	90	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					28			28				512	10300	28	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					90			90				516	31000	90	FT	JOINT SEALER	
					3			3				516	45305	3	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					38			38				519	11100	38	SF	PATCHING CONCRETE STRUCTURE	
					18			18				601	21060	18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
					25			25				601	27000	25	CY	DUMPED ROCK FILL, TYPE C	
					644			644				848	10001	644	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					644			644				848	20000	644	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					13			13				848	30001	13	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					36			36				848	50000	36	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					4			4				848	50200	4	CY	FULL-DEPTH REPAIR	
					644			644				848	50320	644	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					361			361				848	50340	361	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
					240			240				SPECIAL	51900100	240	SF	COMPOSITE FIBER WRAP SYSTEM	55
																STRUCTURE REPAIR (MED-42-4.60 L)	
					1			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
					94			94				202	98200	94	FT	REMOVAL MISC.:JOINT SEALER	54
					1			1				511	46010	1	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					26			26				512	10300	26	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					94			94				516	31000	94	FT	JOINT SEALER	
					238			238				517	75600	238	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					238			238				517	76300	238	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					6			6				519	11100	6	SF	PATCHING CONCRETE STRUCTURE	
					2			2				SPECIAL	51912510	2	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
					574			574				848	10001	574	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					574			574				848	20000	574	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					11			11				848	30001	11	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					32			32				848	50000	32	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					12			12				848	50200	12	CY	FULL-DEPTH REPAIR	
					574			574				848	50320	574	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					322			322				848	50340	322	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM3 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:05:56 PM USER: ksilay
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DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 25 | TOTAL 79

SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
31	32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
																STRUCTURE REPAIR (MED-42-4.60 R)	
					1			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
					94			94				202	98200	94	FT	REMOVAL MISC.:JOINT SEALER	54
					1			1				511	46010	1	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					26			26				512	10300	26	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					94			94				516	31000	94	FT	JOINT SEALER	
					238			238				517	75600	238	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					238			238				517	76300	238	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					24			24				519	11100	24	SF	PATCHING CONCRETE STRUCTURE	
					4			4				SPECIAL	51912510	4	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
					574			574				848	10001	574	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.5 INCH THICK)	55
					574			574				848	20000	574	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					11			11				848	30001	11	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					32			32				848	50000	32	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					8			8				848	50200	8	CY	FULL-DEPTH REPAIR	
					574			574				848	50320	574	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					322			322				848	50340	322	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
																STRUCTURE REPAIR (MED-42-5.39 L)	
					80			80				202	98200	80	FT	REMOVAL MISC.:JOINT SEALER	54
					800			800				512	10300	800	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					80			80				516	31000	80	FT	JOINT SEALER	
					425			425				517	75600	425	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					425			425				517	76300	425	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					28			28				519	11100	28	SF	PATCHING CONCRETE STRUCTURE	
					18			18				SPECIAL	51912510	18	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
																STRUCTURE REPAIR (MED-42-5.39 R)	
					80			80				202	98200	80	FT	REMOVAL MISC.:JOINT SEALER	54
					800			800				512	10300	800	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					80			80				516	31000	80	FT	JOINT SEALER	
					425			425				517	75600	425	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					425			425				517	76300	425	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					10			10				519	11100	10	SF	PATCHING CONCRETE STRUCTURE	
					9			9				SPECIAL	51912510	9	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
																STRUCTURE REPAIR (MED-42-5.89 L)	
					94			94				202	98200	94	FT	REMOVAL MISC.:JOINT SEALER	54
					605			605				512	10300	605	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					94			94				516	31000	94	FT	JOINT SEALER	
					2			2				516	45305	2	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					250			250				517	75600	250	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					250			250				517	76300	250	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
																STRUCTURE REPAIR (MED-42-5.89 R)	
					141			141				202	98200	141	FT	REMOVAL MISC.:JOINT SEALER	54
					605			605				512	10300	605	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					47			47				516	10000	47	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	
					94			94				516	31000	94	FT	JOINT SEALER	
					2			2				516	45305	2	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					250			250				517	75600	250	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					250			250				517	76300	250	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					3			3				519	11100	3	SF	PATCHING CONCRETE STRUCTURE	

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM4 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:16:23 PM USER: ksalley
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DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 26 TOTAL 79

SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
31	32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
																STRUCTURE REPAIR (MED-42-7.14)	
					12				12			202	11301	12	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
					7				7			511	21521	7	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)	55
					5				5			511	45711	5	CY	CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)	55
					8				8			512	10100	8	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					10				10			513	21000	10	EACH	TRIMMING OF BEAM END	
					104				104			516	11211	104	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	55
					72				72			516	31000	72	FT	JOINT SEALER	
					4				4			516	45305	4	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS				LS			516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					141				141			519	11100	141	SF	PATCHING CONCRETE STRUCTURE	
																STRUCTURE REPAIR (MED-83-4.36)	
					76			76				202	32600	76	FT	GUTTER REMOVED	
					12			12				519	11100	12	SF	PATCHING CONCRETE STRUCTURE	
					21			21				601	27000	21	CY	DUMPED ROCK FILL, TYPE C	
																STRUCTURE REPAIR (MED-224-12.76 L)	
					80			80				202	98200	80	FT	REMOVAL MISC.:JOINT SEALER	54
					28			28				512	10300	28	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					80			80				516	31000	80	FT	JOINT SEALER	
					1			1				516	45305	1	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					262.5			262.5				517	75600	262.5	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					262.5			262.5				517	76300	262.5	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					21			21				519	11100	21	SF	PATCHING CONCRETE STRUCTURE	
					3			3				SPECIAL	51912510	3	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
					558			558				848	10001	558	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					558			558				848	20000	558	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					17			17				848	30001	17	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					31			31				848	50000	31	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					2			2				848	50200	2	CY	FULL-DEPTH REPAIR	
					558			558				848	50320	558	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					313			313				848	50340	313	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
																STRUCTURE REPAIR (MED-224-12.76 R)	
					8			8				202	11301	8	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
					88			88				202	98200	88	FT	REMOVAL MISC.:JOINT SEALER	54
					2			2				511	21521	2	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)	55
					3			3				511	45711	3	CY	CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)	55
					3			3				511	46010	3	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					40			40				512	10300	40	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					44			44				516	11211	44	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	55
					88			88				516	31000	88	FT	JOINT SEALER	
					5			5				516	45305	5	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					262.5			262.5				517	75600	262.5	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					262.5			262.5				517	76300	262.5	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					7			7				SPECIAL	51912510	7	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
					858			858				848	10001	858	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					858			858				848	20000	858	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					27			27				848	30001	27	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					48			48				848	50000	48	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					5			5				848	50200	5	CY	FULL-DEPTH REPAIR	
					858			858				848	50320	858	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					481			481				848	50340	481	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM5 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:20:49 PM USER: ksalley
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DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 27 TOTAL 79

SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
14	15	16	51	52	61	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
																MAINTENANCE OF TRAFFIC	
		500				500						614	11110	500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	12				2			12	2			614	12380	14	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
LS						LS		LS	LS			614	12420	LS		DETOUR SIGNING	
13							13					614	12460	13	EACH	WORK ZONE MARKING SIGN	
50						40	10					614	13000	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
	48				11			48	11			614	13310	59	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
	48				11			48	11			614	13350	59	EACH	OBJECT MARKER, ONE WAY	
	36					36						614	18601	36	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	15
			25.32	29.91		23.7	31.53					614	20560	55.23	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
					0.19				0.19			614	21200	0.19	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
			2.67				2.67					614	21550	2.67	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
					0.42				0.42			614	22210	0.42	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
			53.94	62.91		51.06	65.79					614	22360	116.85	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
			5,754	11,544		5,637	11,661					614	23680	17,298	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
					24				24			614	26400	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
			237	475		192	520					614	26610	712	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
	2,280				550			2,280	550			622	41100	2,830	FT	PORTABLE BARRIER, UNANCHORED	
	132					132						808	18700	132	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																INCIDENTALS	
						LS	LS	LS	LS	LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
						8	1					619	16020	9	MNTH	FIELD OFFICE, TYPE C	
						LS	LS	LS	LS	LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
						LS	LS	LS	LS	LS	LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM6 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:24:33 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 28 | TOTAL 79

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15 (REVISED 7/7/2015)
DBR-2-73 (REVISED 7/19/2002)
DBR-3-11 (REVISED 7/15/2011)
EXJ-4-87 (REVISED 1/19/2018)

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

800 DATED 4/16/2021
832 DATED 10/19/2018
848 DATED 1/15/2021

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE WORK CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017 AND THE ODOT BRIDGE DESIGN MANUAL.

EXISTING PLANS

THE FOLLOWING EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND, OHIO.

STRUCTURE	PLAN NAME	DATE
MED-42-2.61	MED-42-1.89/MED-224-10.45 MED-42-1.89	1989 1956
MED-42-3.10 L/R		
MED-42-4.60 L/R		
MED-42-5.39 L/R		
MED-42-5.89 L/R		
MED-42-7.14		
MED-83-4.36		
MED-224-12.76 L/R	MED-42-1.89/MED-224-10.45 MED-224-10.67	1989 1962

DECK PROTECTION METHOD

MICRO SILICA MODIFIED CONCRETE OVERLAY
SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN

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.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES 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 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 STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

IN-STREAM WORK RESTRICTION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID CONSTRUCTION IN AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING STREAMS OR WETLANDS. ANY MATERIAL THAT DOES FALL INTO STREAMS OR WETLANDS SHALL BE REMOVED AS SOON AS POSSIBLE.

ALL PROJECTS INVOLVING JURISDICTIONAL WATERS OF THE UNITED STATES (STREAMS, RIVERS, NON-ISOLATED WETLANDS) AND/OR ISOLATED WETLANDS ARE SUBJECT TO REGULATION UNDER SECTIONS 404 AND 401 OF THE CLEAN WATER ACT, AND POSSIBLY OHIO EPA ISOLATED WETLAND LAW. IT IS ANTICIPATED THAT NO IN-STREAM WORK, OR WORK UNDER THE STREAM'S ORDINARY HIGH WATER MARK (OHWM) WILL BE NEEDED. THEREFORE NO WATERWAY PERMITS HAVE BEEN GRANTED AND NO IN-STREAM WORK IS ALLOWED.

SHOULD WORK (EITHER TEMPORARY OR PERMANENT) IN THE STREAM BE NEEDED; IT WILL REQUIRE A PERMIT AND AUTHORIZATION BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE). THE CONTRACTOR SHALL NOT UTILIZE FILLS BELOW OHWM UNTIL SUCH ACTIVITY IS AUTHORIZED BY THE USACE. DETAILS OF THIS REQUIREMENT ARE DESCRIBED IN ODOT'S SUPPLEMENTAL SPECIFICATION 832.09.

USACE DEFINITION OF OHWM – THE ORDINARY HIGH WATER MARK IS THE LINE ON THE SHORES ESTABLISHED BY THE FLUCTUATIONS OF WATER AND INDICATED BY PHYSICAL CHARACTERISTICS SUCH AS A CLEAR, NATURAL LINE IMPRESSED ON THE BANKS; SHELVING; CHANGES IN THE CHARACTER OF THE SOIL; DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPROPROATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

EXISTING REINFORCING STEEL

EXISTING REINFORCING STEEL, WHEN SHOWN, IS DETAILED FOR REPRESENTATION PURPOSES ONLY. IT IS NOT DETAILED TO SCALE. WHEN PERFORMING ALL REPAIR OR PATCHING WORK, TAKE UTMOST CARE TO NOT DAMAGE THE EXISTING REINFORCING STEEL. SHOULD THE EXISTING REINFORCING STEEL BE DAMAGED IN THE COURSE OF PERFORMING THE WORK, REPLACE THE DAMAGED STEEL AT NO COST TO THE DEPARTMENT. COST FOR THE ABOVE WORK WILL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE REPAIR OR PATCHING ITEM.

PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES

SPECIAL CARE SHALL BE TAKEN WHEN PLACING THE ASPHALT CONCRETE BUTT JOINT TO CREATE A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK OR APPROACH SLAB. THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

PAVING AT STRUCTURES

STRUCTURES MED-42-2.47, MED-42-3.10 L/R, MED-42-4.60 L/R, MED-42-5.39 L/R, MED-42-5.89 L/R, MED-224-12.76 L/R
SUSPEND AND RESUME PAVING AT CONCRETE BRIDGE DECK AND APPROACH SLABS.

STRUCTURE MED-42-2.61
SUSPEND AND RESUME PAVING AT CONCRETE BRIDGE DECK. PLANE EXISTING ASPHALT (VARIABLE DEPTH) AND PAVE 1.5" SURFACE COURSE ONLY ON THE APPROACH SLABS. TAPER THE PLANING FROM 3.25" TO 1.50" IN 50' TO THE APPROACH SLABS.

STRUCTURES MED-42-3.21, MED-42-4.32, MED-83-4.36, MED-42-7.14
PLANE AND PAVE SAME AS ROADWAY UNDERNEATH STRUCTURE TO MAINTAIN EXISTING VERTICAL CLEARANCE.

AT STRUCTURE MED-42-3.21 (UNDER CSX), THE CONTRACTOR SHALL PROVIDE CSX WITH VERTICAL CLEARANCE MEASUREMENTS BEFORE ALL PAVING OPERATIONS UNDER THE BRIDGE BEGIN AND AFTER ALL PAVING OPERATIONS UNDER THE BRIDGE ARE COMPLETED.

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES. 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 USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

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

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 202 – REMOVAL, MISC.: DECK OVERHANG

THIS ITEM SHALL INCLUDE THE INSPECTION AND REMOVAL OF DAMAGED CONCRETE AND REINFORCING STEEL ALONG DECK EDGES UNDER PARAPETS. UNLESS OTHERWISE SPECIFIED IN THIS NOTE, REMOVAL SHALL BE PERFORMED ACCORDING TO C&MS 519.03.

WITH THE ENGINEER, INSPECT DECK EDGES FOR DAMAGED CONCRETE AND EXPOSED OR CORRODED REINFORCING STEEL. REMOVE UNSOUND CONCRETE UP TO THE FULL THICKNESS OF THE DECK, TO A MINIMUM DEPTH OF 4", AND A MAXIMUM DEPTH OF 6". WHERE CONCRETE HAS ALREADY DETERIORATED PAST 6" IN DEPTH, REMOVE LOOSE CONCRETE AND PREPARE SURFACES AS DESCRIBED HEREIN. PROVIDE A NEAT SAWCUT ON THE BOTTOM OF THE DECK OVERHANG. REMOVE EXPOSED LONGITUDINAL REINFORCING STEEL NO LONGER EMBEDDED IN THE DECK CONCRETE.

WHERE PORTIONS OF THE DECK EDGE ARE DETERMINED TO BE SOUND, EXPOSE A SUFFICIENT LENGTH OF REINFORCING STEEL EXTENDING FROM THE SOUND PORTION TO PERMIT A LAP SPLICE (36" MIN. FOR #5 BAR, 43" MIN. FOR #6 BAR) WITH REPLACEMENT STEEL. IF FIELD CONDITIONS DO NOT PERMIT THIS MINIMUM LENGTH TO BE PROVIDED, OBTAIN THE ENGINEER'S APPROVAL FOR AN ALTERNATE CONNECTION METHOD OR EXCEPTION TO THIS MINIMUM VALUE.

REMOVE ALL HEAVY CORROSION AND SCALE FROM THE REINFORCING BARS WITH WIRE BRUSH OR ABRASIVE BLASTING. A MINOR AMOUNT OR TIGHTLY ADHERED RUST MAY BE LEFT IN PLACE.

DO NOT REMOVE MORE THAN 18 CONTINUOUS LINEAR FEET OF A SINGLE DECK EDGE AT A TIME. DISTANCE BETWEEN REPAIRS BEING SIMULTANEOUSLY CONDUCTED ON A SINGLE DECK EDGE SHALL NOT BE LESS THAN 18'. ALLOW A MINIMUM CURE TIME AS DIRECTED IN C&MS 511.14 PRIOR TO BEGINNING ADJACENT REPAIRS.

REMOVAL AND REINSTALLATION OF BRIDGE MOUNTED SIGNS SHALL BE INCIDENTAL. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR THE WORK DESCRIBED ABOVE SHALL BE PAID UNDER THE CONTRACT BID PRICE PER LINEAR FOOT FOR ITEM 202 – REMOVAL, MISC.: DECK EDGE.

ITEM 202 – REMOVAL MISC.: JOINT SEALER

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING JOINT SEALER LOCATED BETWEEN THE APPROACH SLAB AND THE DECK OR BACKWALL.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 509 – REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING REINFORCING STEEL 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 EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

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

PROVIDE CONTINUITY BETWEEN SEGMENTS OF NEW REINFORCING STEEL BY MEANS OF EPOXY-COATED MECHANICAL CONNECTORS. THE WEIGHT OF MECHANICAL CONNECTORS IS NOT INCLUDED IN THE PAY QUANTITY AND IS CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

PROVIDE CONTINUITY BETWEEN SEGMENTS OF EXISTING AND NEW REINFORCING STEEL BY MEANS OF A LAP SPLICE (36" MIN., FOR #5 BAR, 43" MIN. FOR #6 BAR) OR METHOD APPROVED BY THE ENGINEER.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT BID PRICE PER POUND FOR ITEM 509 – REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN, AND WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

STRUCTURE NOTES
NOTES APPLYING TO ALL STRUCTURES LOCATED ON THIS PROJECT

SFN VARIOUS
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 54 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: Sheet1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 12:03:43 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_SN001.dgn

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 DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.
PROVIDE CONTINUITY BETWEEN SEGMENTS OF NEW REINFORCING STEEL BY MEANS OF EPOXY-COAED MECHANICAL CONNECTORS. THE WEIGHT OF MECHANICAL CONNECTORS IS NOT INCLUDED IN THE PAY QUANTITY AND IS CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

PROVIDE CONTINUITY BETWEEN SEGMENTS OF EXISTING AND NEW REINFORCING STEEL BY MEANS OF A LAP SPLICE (36" MIN. FOR #5 BAR, 43" MIN. FOR #6 BAR) OR METHOD APPROVED BY THE ENGINEER.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT BID PRICE PER POUND FOR ITEM 509 – EPOXY COATED REINFORCING STEEL, AS PER PLAN, AND WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 511 – CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)
ITEM 511 – CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)

THIS ITEM SHALL BE USED AT LOCATIONS INDICATED IN THE PLANS.

THE COARSE AGGREGATE SHALL BE LIMESTONE.

ALL EXISTNG SURFACES WITH WHICH THE CONCRETE IS TO BOND SHALL BE CLEANED BY ABRASIVE BLASTING. THESE SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, PAINT, RUST, AND OTHER CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT PRICE PER CUBIC YARD FOR THE ABOVE LISTED ITEMS AND WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 511 – CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG

THIS ITEM SHALL BE USED TO REBUILD DAMAGED DECK EDGES UNDER PARAPETS AT LOCATIONS SPECIFIED IN THESE PLANS. LOCATIONS TO BE REBUILT SHOULD FIRST BE PREPARED ACCORDING TO THE PROVISIONS OF ITEM 202 – REMOVAL, MISC.: DECK OVERHANG AND THIS NOTE.

THIS WORK SHALL COMPLY WITH ALL REQUIREMENTS OF C&MS 455, QUALITY CONTROL PLAN, TESTING AND ASSURANCE FOR QC/QA CONCRETE.

FURNISH MATERIALS CONFORMING TO THE C&MS SECTIONS SHOWN BELOW:

CONCRETE, QC SCC (CLASS 1)	499, 511
DOWELS	709.01, 709.03 OR 709.05
REINFORCING STEEL	AS SPECIFIED IN THE PLANS
WELDED STEEL WIRE FABRIC	709.10 OR 709.12

IN ADDITION TO THE REQUIREMENTS SHOWN ABOVE, MAXIMUM CONCRETE AGGREGATE SIZE SHALL BE #8.

PROVIDE LONGITUDINAL REINFORCING STEEL AS SPECIFIED BY ITEM 509 – EPOXY COATED REINFORCING STEEL, AS PER PLAN. SECURELY FASTEN THE REPLACEMENT STEEL TO THE EXISTING REINFORCING STEEL IN THE ORIGINAL STRUCTURE EXPOSED IN REMOVING UNSOUND CONCRETE. IF NO EXISTING REINFORCING STEEL IS EXPOSED OR IT IS NOT PRACTICAL TO FASTEN THE REPLACEMENT REINFORCING STEEL TO THE EXISTING STEEL, INSTALL DOWEL OR EXPANSION BOLTS AT A DISTANCE NOT TO EXCEED 18-INCH CENTERS IN BOTH DIRECTIONS, AND FASTEN THE REPLACEMENT STEEL TO THESE DOWELS OR BOLTS.

WELDED STEEL WIRE FABRIC SHALL BE 2" X 2" AND WIRE SIZE NUMBER W 0.9. COVER THE ENTIRE AREA OF THE REPAIR WITH THE FABRIC, AND PLACE AND HOLD THE FABRIC APPROXIMATELY 1" FROM THE COMPLETED EXPOSED SURFACE OF THE PATCH. SECURELY FASTEN THE FABRIC TO THE REINFORCING STEEL IN THE ORIGINAL STRUCTURE EXPOSED IN REMOVING UNSOUND CONCRETE, OR REPLACEMENT REINFORCING STEEL ALREADY SECURED. IF NO REINFORCING STEEL IS EXPOSED OR IT IS NOT PRACTICAL TO FASTEN THE FABRIC TO EXPOSED STEEL, INSTALL DOWEL OR EXPANSION BOLTS AT A DISTANCE NOT TO EXCEED 18-INCH CENTERS IN BOTH DIRECTIONS, AND FASTEN THE FABRIC TO THESE DOWELS OR BOLTS.

ALL EXISTING SURFACES WITH WHICH THE CONCRETE IS TO BOND SHALL BE PREPARED ACCORDING TO C&MS 520.10.

PLACE CONCRETE ACCORDING TO C&MS 519.06.

PROVIDE APPROPRIATE MEASURES TO CONTAIN AND PREVENT ANY DEBRIS FROM FALLING INTO STREAMS, ROADWAYS, OR RAIL LINES DURING PERFORMANCE OF THIS WORK.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT BID PRICE PER LINEAR FOOT FOR ITEM 511 – CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG, AND WILL INCLUDE ALL LABOR EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE WORK UNLES SSEPARATELY ITEMIZED IN THESE PLANS.

ITEM 516 – STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN

THIS ITEM SHALL BE USED ON STRUCTURES MED-42-7.14 AND MED-224-12.76R. THE WORK INVOLVES TRIMMING EXISTING CROSSFRAME CHANNEL AS NEEDED FOR PROPOSED MC 12X45 CHANNELS TO BE WELDED TO EXISTING PLATES. SEE DETAILS ON SHEET 59.

PAYMENT FOR ALL THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 516 – REFURBISH BEARING DEVICE, AS PER PLAN

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (C&MS 711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60° f, LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING." THIS ITEM SHALL INCLUDE PAINTING OF THE FINISH COAT TO MATCH THE EXISTING COLOR, TO THE SATISFACTION OF THE ENGINEER. AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 – REFURBISH BEARING DEVICE, AS PER PLAN.

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

THIS WORK CONSISTS OF THE FOLLOWING:

- RAISING OR REPOSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS – BEARING RESETS (MED-42-2.61, MED-42-3.10 L/R, MED-42-5.89 L/R, MED-224-12.76 L/R)

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. THE CONTRACTOR SHALL PREPARE ALL TEMPORARY SUPPORT PLANS, JACKING PLANS, AND CONSTRUCTION SEQUENCES ASSOCIATED WITH THE ABOVE DESCRIBED WORK. MAIN LOAD CARRYING MEMBERS SHALL BE ADEQUATELY SUPPORTED DURING CONSTRUCTION OPERATIONS SUCH THAT THE EXISTING STRUCTURE SHALL INCUR NO DAMAGE.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATEFROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOCY INJECTION OR OTHER REQUIRED REPAIRS. 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 MPAY 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.

ITEM 517 – RAILING, MISC.: DEEP BEAM RAILING PANELS

THIS ITEM SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING DEEP BEAM RAILING PANELS. THE REMOVAL AND REPLACEMENT OF ALL BOLTS AND HARDWARE NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THIS ITEM. THE EXISTING TUBULAR BACKUP IS TO BE RETAINED. THE RAIL ELEMENTS SHALL BE OF THE SAME TYPE AND SIZE AS THE EXISTING RAILING. THEY SHALL BE PLACED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DBR-2-73.

ITEM 519 – SPECIAL - COMPOSITE FIBER WRAP SYSTEM

THIS ITEM SHALL BE USED WHERE DECK EDGE REPAIRS ARE PERFORMED ON STRUCTURES PASSING OVER ROADWAYS. THE WRAP SHALL COVER THE LENGTH OF THE SHOULDERS AND LANES OF PAVEMENT UNDERNEATH AND USE A WIDTH OF 3' (1' ADHERED TO THE SOFFIT AND 2' ADHERED TO THE OUTSIDE OF THE BARRIER).

SEE PROPOSAL NOTE 519 FOR ADDITIONAL DETAILS.

PAYMENT FOR ALL THE ABOVE ITEMS WILL BE MADE AT THE UNIT BID PRICE PER SQUARE FOOT AND IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK.

ITEM 623 – CONSTRUCTION LAYOUT STAKES, AS PER PLAN

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDHE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURBEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE OFOT DISTRICT 12 VERTICAL CLEARANCESURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBES THE ODOT DISTRICT 12 VERTIVAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND BELOW LANE AND SHOULDER CONFIGURATION. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO ROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/DISTRICTS/D12/HIGHWAYMANAGEMENT/PAGES/PERMITS.ASPX

AT STRUCTURE MED-42-3.21 (UNDER CSX), THE CONTRACTOR SHALL PROVIDE CSX WITH VERTICAL CLEARANCE MEASUREMENTS BEFORE ALL PAVING OPERATIONS UNDER THE BRIDGE BEGIN AND AFTER ALL PAVING OPERATIONS UNDER THE BRIDGE ARE COMPLETED.

ITEM 848 – MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN
ITEM 848 – MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN

EACH ITEM SHALL BE USED AT THE LOCATIONS INDICATED IN THE PLANS.

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR EACH OF THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM SPECIAL – PATCHING CONCRETE BRIDGE DECK – TYPE B

USE THIS ITEM AT THE LOCATIONS INDICATED IN THE PLANS. QUANTITIES SHOWN IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. EXACT DIMENSIONS AND LOCATIONS OF REPAIRS SHALL BE DETERMINED BY THE ENGINEER.

SEE PROPOSAL NOTE 512 FOR ADDITIONAL DETAILS.

PAYMENT FOR ALL THE ABOVE ITEMS WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD AND IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK.

STRUCTURE NOTES
NOTES APPLYING TO ALL STRUCTURES LOCATED ON THIS PROJECT

SFN
VARIOUS

DESIGN AGENCY
DISTRICT 3

ENGINEERING TEAM TWO

DESIGNER	CHECKER
JLL	KRB

REVIEWER
KAK 7-6-21

PROJECT ID
79761

SUBSET	TOTAL
2	2

SHEET	TOTAL
55	79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: Sheet2 PAPERSIZE: 17x11 (in.) DATE: 10/27/2021 TIME: 12:45:17 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761400-Engineering\Roadway\Sheets\79761_SN001.dgn

ITEM	EXTENSION	QUANTITY													TOTAL	UNIT	DESCRIPTION	REFERENCE SHEET
		MED-42-2.61	MED-42-3.10		MED-42-4.60		MED-42-5.39		MED-42-5.89		MED-42-7.14	MED-83-4.36	MED-224-12.76					
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT			LEFT	RIGHT				
202	11301				1	1					12			8	22	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
202	32000		52	52											104	FT	CURB REMOVED	
202	32600		100	100								76			276	FT	GUTTER REMOVED	
202	98200		256	256											512	FT	REMOVAL, MISC.: DECK OVERHANG	54
202	98200		66	90	94	94	80	80	94	141			80	88	907	FT	REMOVAL, MISC.: JOINT SEALER	54
509	10001		829	829											1,658	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	55
509	20001		100	100											200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCEMENT STEEL, AS PER PLAN	54
511	21521										7			2	9	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)	55
511	45711										5			3	8	CY	CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)	55
511	46010				1	1								3	5	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	81100		256	256											512	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	55
512	10100		90	90							8				188	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	32	28	28	26	26	800	800	605	605			28	40	3,018	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
513	21000										10				10	EACH	TRIMMING OF BEAM END	
516	10000									47					47	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	
516	11211										104			44	148	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	55
516	31000		66	90	94	94	80	80	94	94	72		80	88	932	FT	JOINT SEALER	
516	45305	5	4	3					2	2	4		1	5	26	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
516	47001	LS	LS	LS					LS	LS	LS		LS	LS	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
517	75600	300			238	238	425	425	250	250			262.5	262.5	2,651	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
517	76300	300			238	238	425	425	250	250			262.5	262.5	2,651	FT	RAILING, MISC.: DEEP BEAM RAILING PANELS	55
SPECIAL	519E00100		240	240											480	SF	COMPOSITE FIBER WRAP SYSTEM	55
519	11100		33	38	6	24	28	10		3	141	12	21		316	SF	PATCHING CONCRETE STRUCTURE	
601	21060			18											18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
601	27000		25	25								21			71	CY	DUMPED ROCK FILL, TYPE C	
848	10001	709	474	644	574	574							558	858	4,391	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (VARIABLE THICKNESS)	55
848	20000	709	474	644	574	574							558	858	4,391	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
848	30001	22	9	13	11	11							17	27	110	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
848	50000	40	27	36	32	32							31	48	246	SY	HAND CHIPPING	
848	50100	LS	LS	LS	LS	LS							LS	LS	LS		TEST SLAB	
848	50200		2	4	12	8							2	5	33	CY	FULL DEPTH REPAIR	
848	50320	709	474	644	574	574							558	858	4,391	SY	EXISTING CONCRETE OVERLAY REMOVED (VARIABLE THICKNESS)	
848	50340	398	266	361	322	322							313	481	2,463	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
SPECIAL	519E12510		12		2	4	18	9					3	7	55	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55

STRUCTURE SUMMARY
STRUCTURE SUMMARY FOR ALL STRUCTURES ON THIS PROJECT

SFN
VARIOUS

DESIGN AGENCY
DISTRICT 3

ENGINEERING TEAM TWO

DESIGNER	CHECKER
JLL	KRB

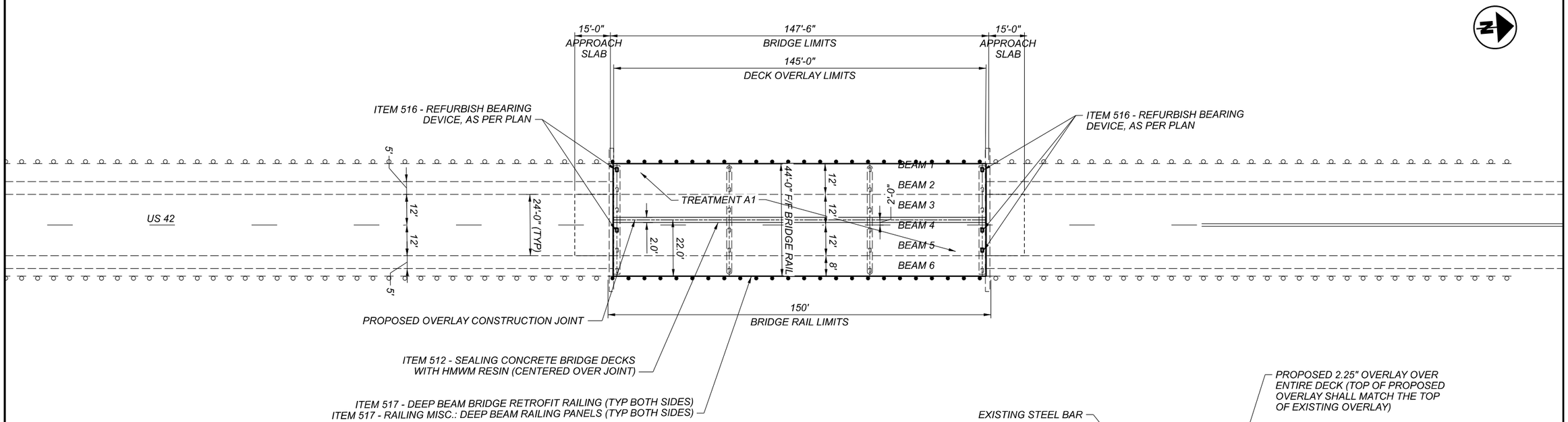
REVIEWER
KAK 7-6-21

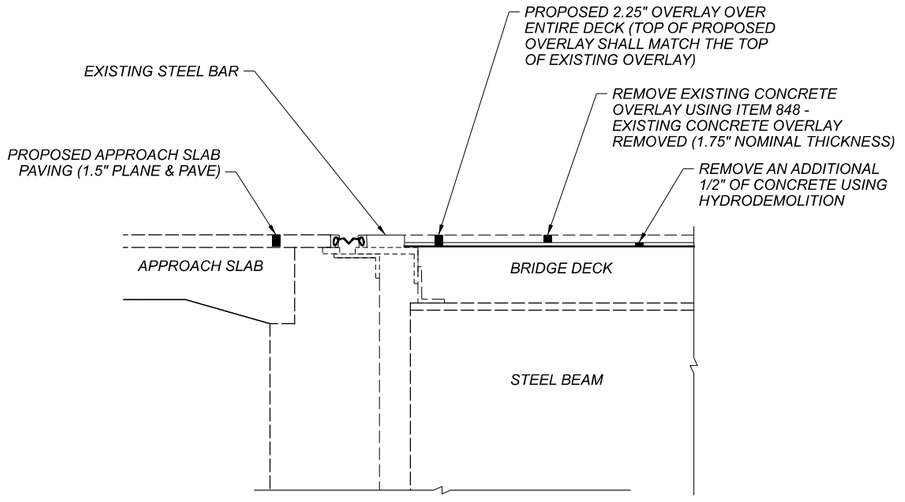
PROJECT ID
79761

SUBSET	TOTAL
1	1

SHEET	TOTAL
56	79

MED-42-1.89/MED-224-(6.25)(10.45)





BEAM/JOINT DETAIL

NOTES:

1.) REFURBISH BEARINGS #1 AND #4 ON THE REAR ABUTMENT AND #1, #4 AND #5 ON THE FORWARD ABUTMENT.

2.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

3.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

4.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3 INCHES BELOW THE CURRENT SURFACE.

5.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

ITEM	QUANTITY	UNIT	DESCRIPTION
512	32	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	5	EACH	REFURBISH BEARING DEVICE, AS PER PLAN
516	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
517	300	FT	DEEP BEAM BRIDGE RETROFIT RAILING
517	300	FT	RAILING MISC.: DEEP BEAM RAILING PANELS
848	709	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2.25" THICK)
848	709	SY	SURFACE PREPARATION USING HYDRODEMOLITION
848	22	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	40	SY	HAND CHIPPING
848	LS		TEST SLAB
848	709	SY	EXISTING CONCRETE OVERLAY REMOVED (1.75" NOMINAL THICKNESS)
848	398	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY

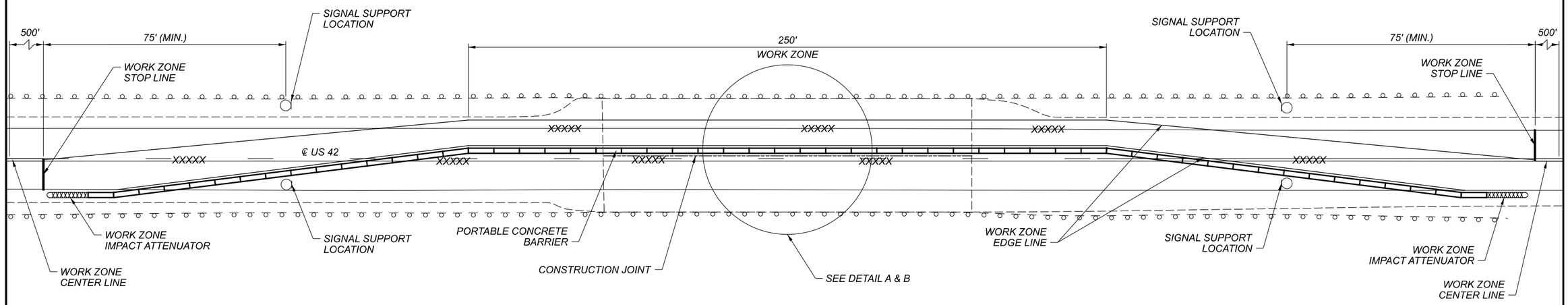
ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

STRUCTURE DETAILS
MED-42-2.61
STRUCTURE OVER WEST FORK OF EAST BRANCH BLACK RIVER

SFN 5200938
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER KRB | CHECKER XXX
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 3
SHEET 60 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 11:09:30 AM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5200938\Sheets\79761_SFN_5200938_SG001.dgn



MOT DETAIL

PHASE A - SHOWN
PHASE B - SIMILAR

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON THIS SHEET AND TRAFFIC SCDS MT- 96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

	PHASE	
	MED-42-2.61	
	1 MAINLINE (NORTHBOUND)	2 MAINLINE (SOUTHBOUND)
MIN. GREEN	27	27
EXTENSION	4	4
MAX. GREEN	30	30
YELLOW	5	5
ALL RED	13	13
RECALL	OFF	OFF

PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM).

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

ESTIMATED QUANTITIES (04/STR/BR)			
ITEM	QUANTITY	UNIT	DESCRIPTION
614	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)
614	11	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)
614	11	EACH	OBJECT MARKER, ONE WAY
614	0.19	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I
614	0.42	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I
614	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I
622	550	FT	PORTABLE BARRIER, UNANCHORED

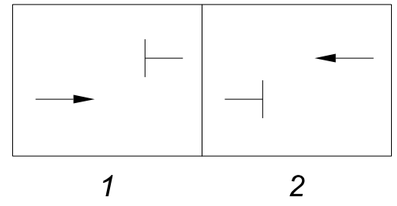
ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

NOTES:
1.) FOR ADDITIONAL DETAILS, SEE SCDs MT-96.11, MT-96.20, MT-96.26 AND ALSO SUPPLEMENTAL SPECIFICATION 961.

2.) ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES.

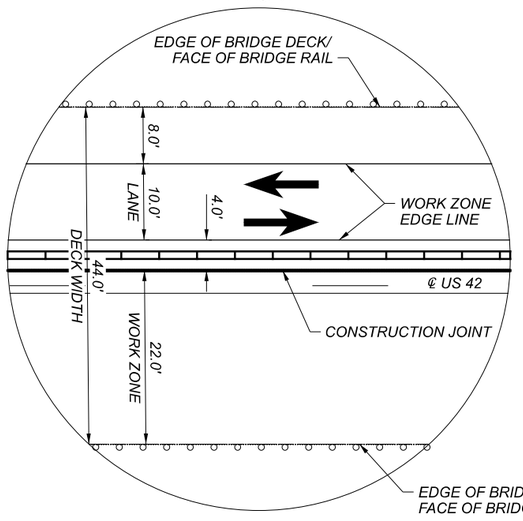
3.) SEE SHEET 51 FOR REPLACEMENT PAVEMENT MARKING ITEMS AND QUANTITIES.

SIGNAL PHASING DIAGRAM



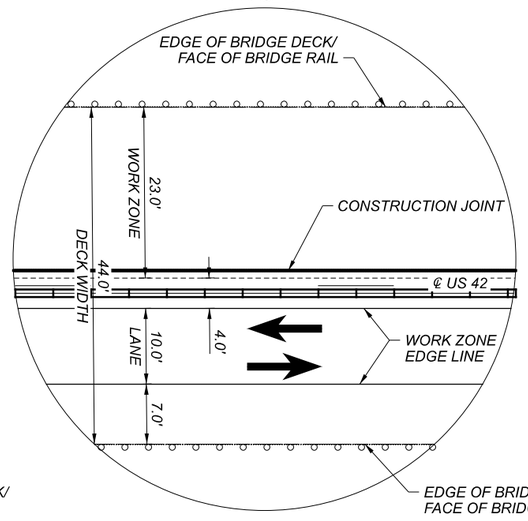
DETAIL A

PHASE A



DETAIL B

PHASE B



MAINTENANCE OF TRAFFIC PLAN
MED-42-2.61
STRUCTURE OVER WEST FORK OF EAST BRANCH BLACK RIVER

SFN	5200938
DESIGN AGENCY	DISTRICT 3
	ENGINEERING TEAM TWO
DESIGNER	JLL
CHECKER	SRO
REVIEWER	KRB 7-6-21
PROJECT ID	79761
SUBSET	2
TOTAL	3
SHEET	61
TOTAL	79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: MOT Details PAPERSIZE: 17x11 (in.) DATE: 10/27/2021 TIME: 1:53:47 PM USER: ksaley
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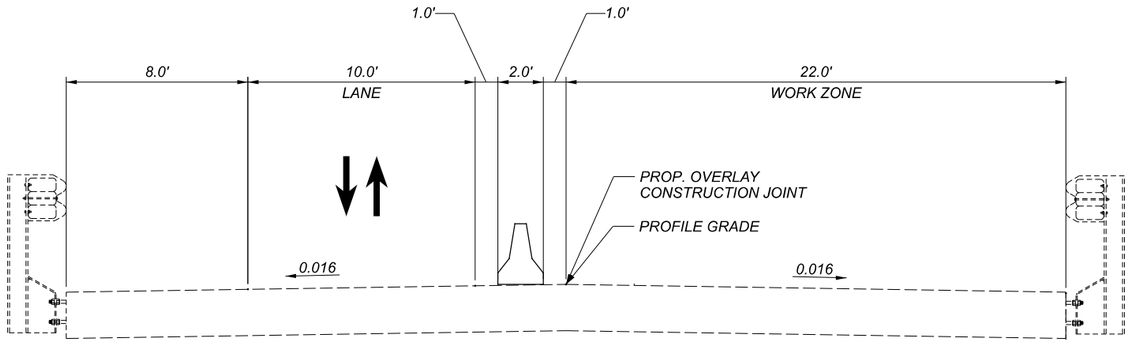
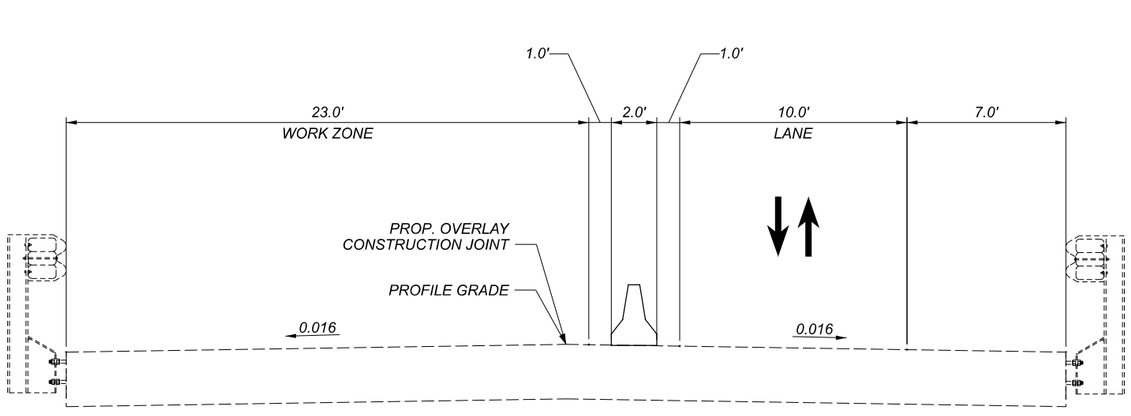


TYPICAL SECTION - MOT PHASE A



TYPICAL SECTION - MOT PHASE B

MED-42-1.89/MED-224-(6.25)(10.45)

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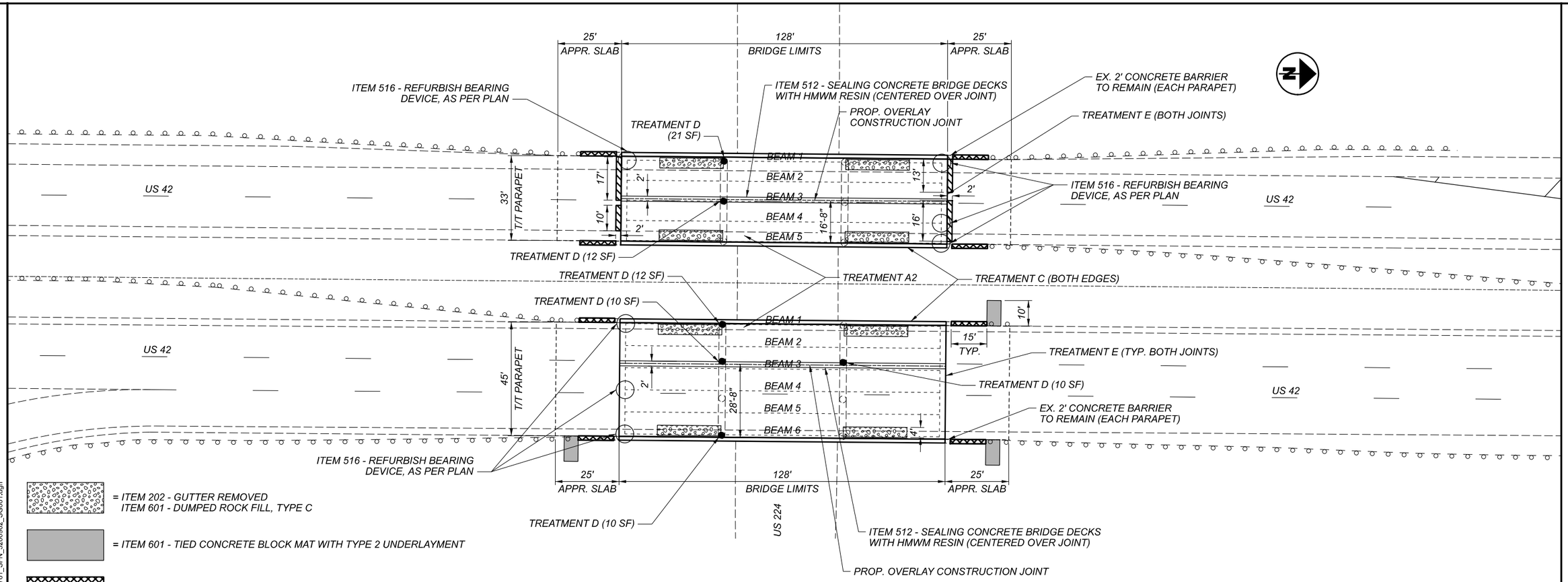
MAINTENANCE OF TRAFFIC PLAN
MED-42-2.61
STRUCTURE OVER WEST FORK OF EAST BRANCH BLACK RIVER

SFN 5200938
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER XXX
REVIEWER KRB MM-DD-YY
PROJECT ID 79761
SUBSET 3 | TOTAL 3
SHEET 61A | TOTAL 79



= *ITEM 202 - GUTTER REMOVED*
ITEM 601 - DUMPED ROCK FILL, TYPE C

= *ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT*

= *ITEM 622 - CONCRETE BARRIER END SECTION, TYPE D*

= *ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B*

ITEM	MED-42-3.10		TOTAL QUANTITY	UNIT	DESCRIPTION
	L	R			
202	52	52	104	FT	CURB REMOVED
202	100	100	200	FT	GUTTER REMOVED
202	256	256	512	FT	REMOVAL, MISC.: DECK OVERHANG
202	66	90	156	FT	REMOVAL, MISC.: JOINT SEALER
509	829	829	1,658	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN
509	100	100	200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCEMENT STEEL, AS PER PLAN
511	256	256	512	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG
512	90	90	180	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	28	28	57	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	66	90	156	FT	JOINT SEALER
516	4	3	7	EACH	REFURBISH BEARING DEVICE, AS PER PLAN
516	LS	LS	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
SPECIAL	240	240	480	SF	COMPOSITE FIBER WRAP SYSTEM
519	33	38	71	SF	PATCHING CONCRETE STRUCTURE
601		18	18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT
601	25	25	50	CY	DUMPED ROCK FILL, TYPE C
848	474	644	1,118	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK)
848	474	644	1,118	SY	SURFACE PREPARATION USING HYDRODEMOLITION
848	9	13	22	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	27	36	63	SY	HAND CHIPPING
848	LS	LS	LS		TEST SLAB
848	2	4	6	CY	FULL DEPTH REPAIR
848	474	644	1,118	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS)
848	266	361	627	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY
SPECIAL	12		12	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

NOTES:

1.) MED-42-3.10L
REFURBISH BEARING #1 ON THE REAR ABUTMENT, AND BEARINGS #1, #4 AND #5 ON THE FORWARD ABUTMENT. JACK AND SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

2.) MED-42-3.10R
REFURBISH BEARING #1 ON THE REAR ABUTMENT. SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

3.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

4.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

5.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

6.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3.25 INCHES BELOW THE CURRENT SURFACE.

7.) SEE ROADWAY SUB-SUMMARY FOR CONCRETE BARRIER END SECTION, TYPE D PAYMENT INFORMATION.

8.) PERFORM PIER COLUMN REPAIRS USING ITEM 519 - PATCHING CONCRETE STRUCTURE.

9.) ADDITIONAL QUANTITY OF 15 SQUARE YARDS (EACH STRUCTURE) OF ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) HAS BEEN ADDED TO TOUCH UP DAMAGED AREAS OF THE EXISTING PARAPETS THAT HAVE PREVIOUSLY BEEN SEALED.

10.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

STRUCTURE DETAILS
MED-42-3.10 (L/R)
OVER US 224

SFN 5200962
SFN 5200997
DESIGN AGENCY: DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER: JLL | CHECKER: KRB
REVIEWER: KAK 7-6-21
PROJECT ID: 79761
SUBSET: 1 | TOTAL: 2
SHEET: 62 | TOTAL: 79

MED-42-1.89/MED-42-(6.25)(10.45)

MODEL: Details 1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 11:16:08 AM USER: ksalay
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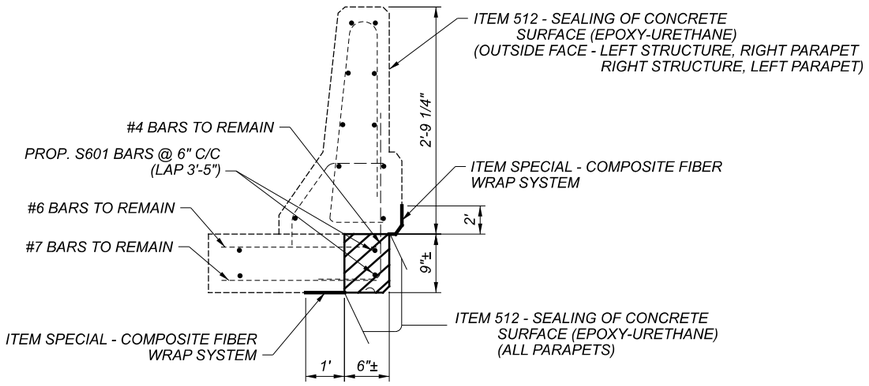
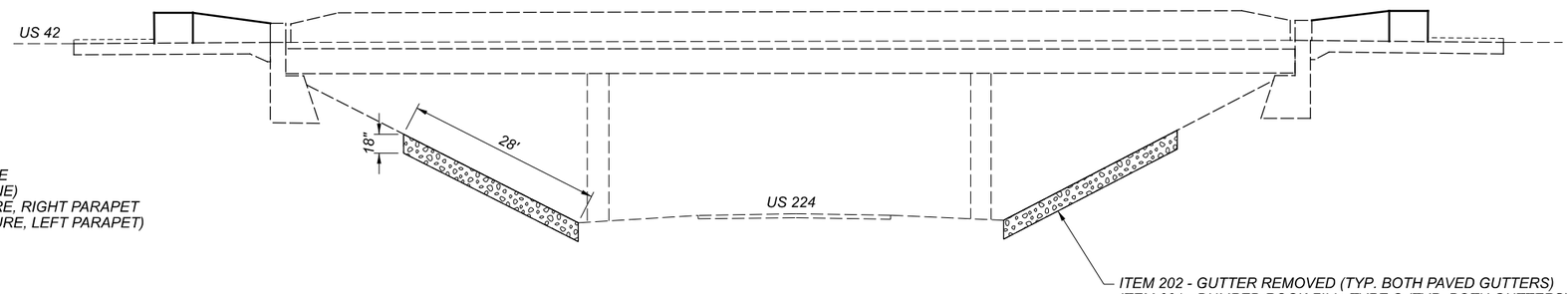
REINFORCING STEEL					
BAR MARK	NUMBER	LENGTH	TYPE	EACH SIDE	WEIGHT
S601	8	34'-6"	STR.	4	1,658



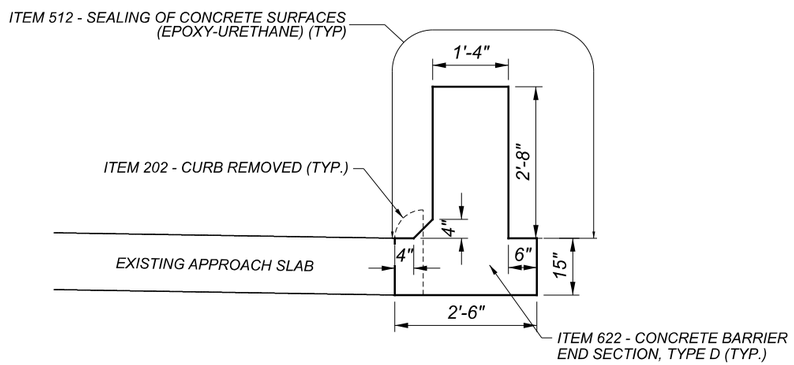
TREATMENT C - CROSS SECTION

ITEM 202 - REMOVAL MISC.: DECK OVERHANG
ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN
ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING STEEL, AS PER PLAN
ITEM 511 - CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG



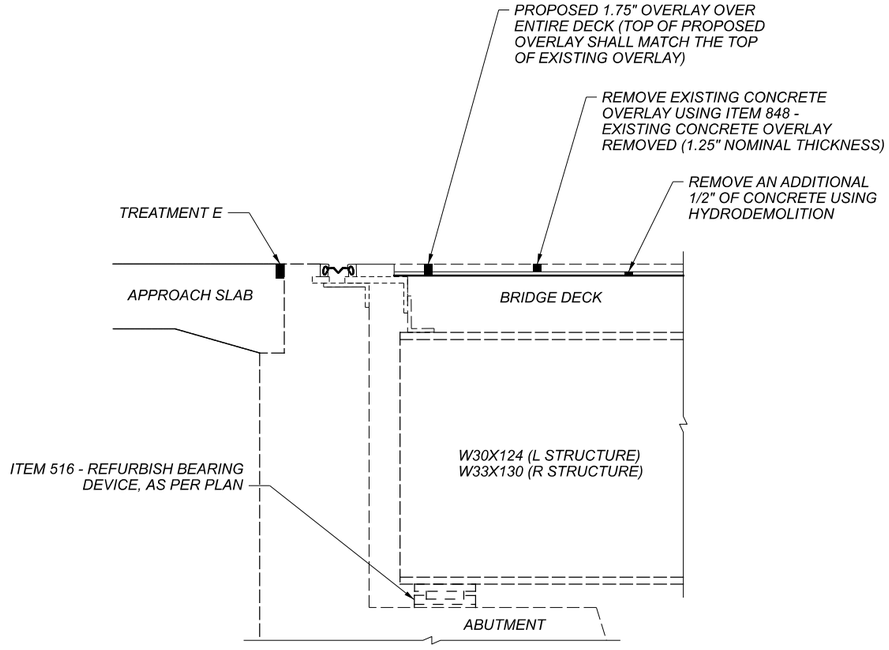
PROFILE VIEW

BOTH STRUCTURES SIMILAR
EXISTING/PROPOSED GUARDRAIL NOT SHOWN



CONCRETE BARRIER END SECTION DETAIL

REINFORCING STEEL NOT SHOWN FOR CLARITY

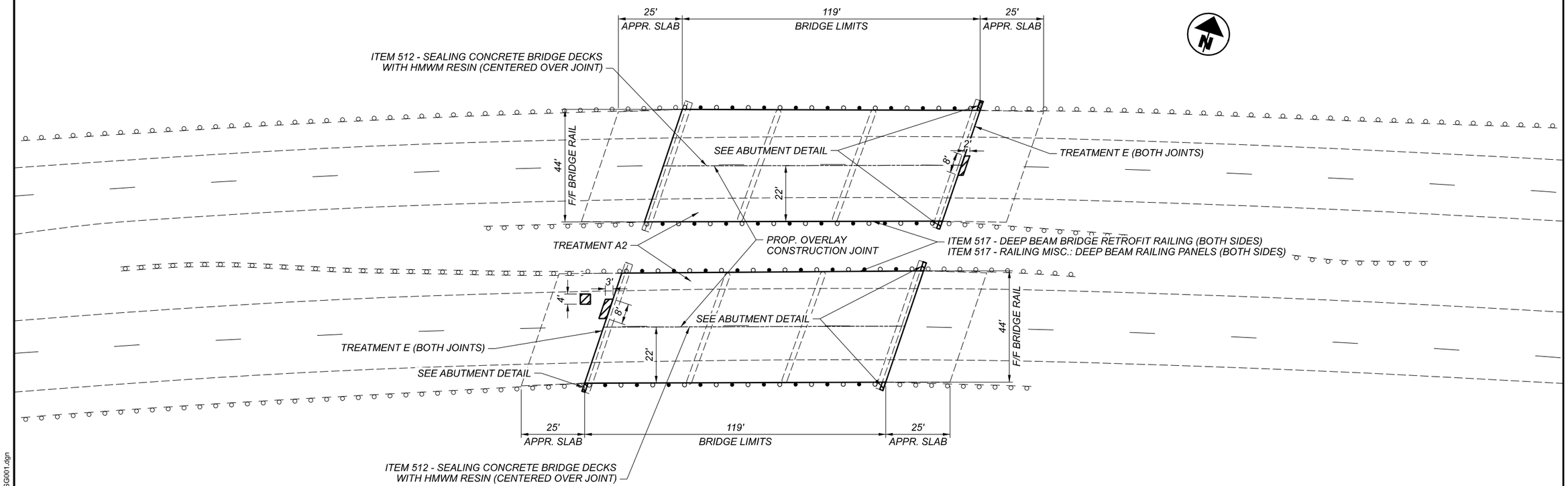


BEAM/JOINT DETAIL

STRUCTURE DETAILS
MED-42-3.10 (L/R)
OVER US 224

SFN 5200962
SFN 5200997
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 2 | TOTAL 2
SHEET 63 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)



= ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

NOTES:

1.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

2.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

3.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

4.) ACCORDING TO CURRENT OCRING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3.75 INCHES BELOW THE CURRENT SURFACE.

5.) SEE SHEET 2 FOR ABUTMENT AND BEAM/JOINT DETAILS.

6.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

ITEM	MED-42-4.60		TOTAL QUANTITY	UNIT	DESCRIPTION
	L	R			
202	1	1	2	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	94	94	188	FT	REMOVAL, MISC.: JOINT SEALER
511	1	1	2	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
512	26	26	53	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	94	94	188	FT	JOINT SEALER
517	238	238	476	FT	DEEP BEAM BRIDGE RETROFIT RAILING
517	238	238	476	FT	RAILING MISC.: DEEP BEAM RAILING PANELS
519	6	24	30	SF	PATCHING CONCRETE STRUCTURE
848	574	574	1,148	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK)
848	574	574	1,148	SY	SURFACE PREPARATION USING HYDRODEMOLITION
848	11	11	22	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	32	32	64	SY	HAND CHIPPING
848	LS	LS	LS		TEST SLAB
848	12	8	20	CY	FULL DEPTH REPAIR
848	574	574	1,148	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS)
848	322	322	644	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY
SPECIAL	2	4	6	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

STRUCTURE DETAILS
MED-42-4.60 (L/R)
TWIN STRUCTURES OVER WEST FORK RIVER

SFN 5201144
SFN 5201179
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 64 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 11:22:46 AM USER: ksalay
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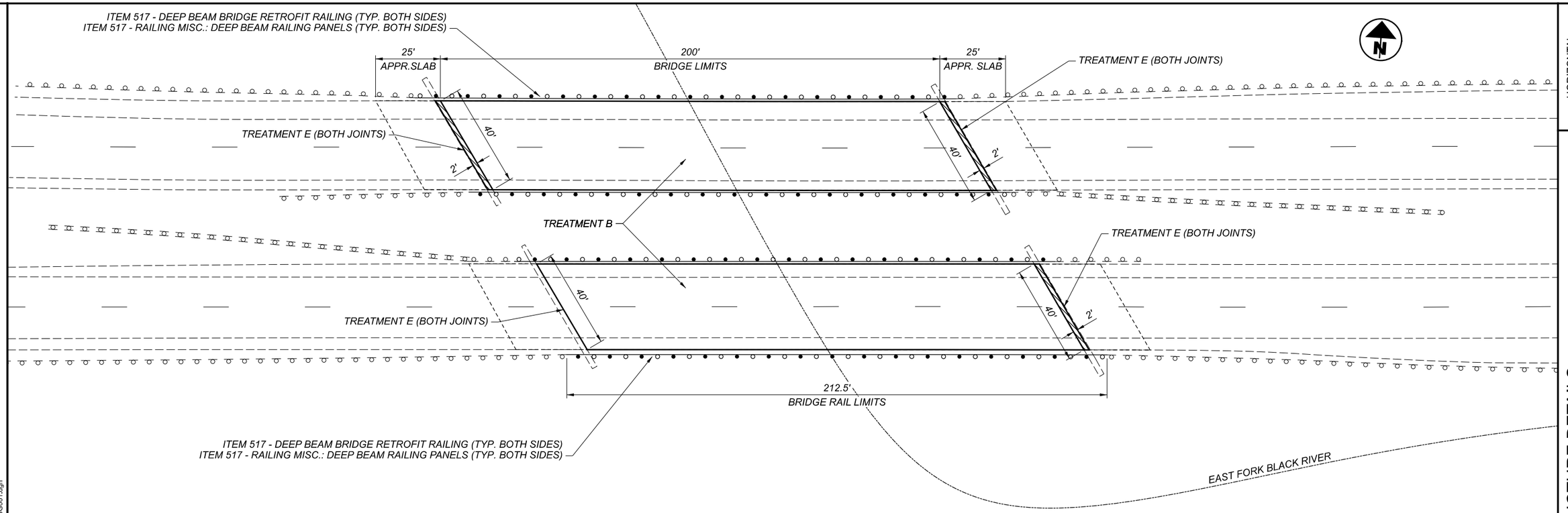

HORIZONTAL SCALE IN FEET
0 10 20 40

= ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

NOTES:

1.) SEE SHEET 2 FOR ABUTMENT PATCH DETAILS.

ITEM	MED-42-5.39		TOTAL QUANTITY	UNIT	DESCRIPTION
	L	R			
202	80	80	160	FT	REMOVAL, MISC.: JOINT SEALER
512	800	800	1,600	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	80	80	160	FT	JOINT SEALER
517	425	425	850	FT	DEEP BEAM BRIDGE RETROFIT RAILING
517	425	425	850	FT	RAILING MISC.: DEEP BEAM RAILING PANELS
519	28	10	38	SF	PATCHING CONCRETE STRUCTURE
SPECIAL	18	9	27	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

STRUCTURE DETAILS
MED-42-5.39 (L/R)
TWIN STRUCTURES OVER EAST FORK BLACK RIVER

SFN 5201209
SFN 5201233
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER TPG | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 66 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 10:09:46 AM USER: kealay
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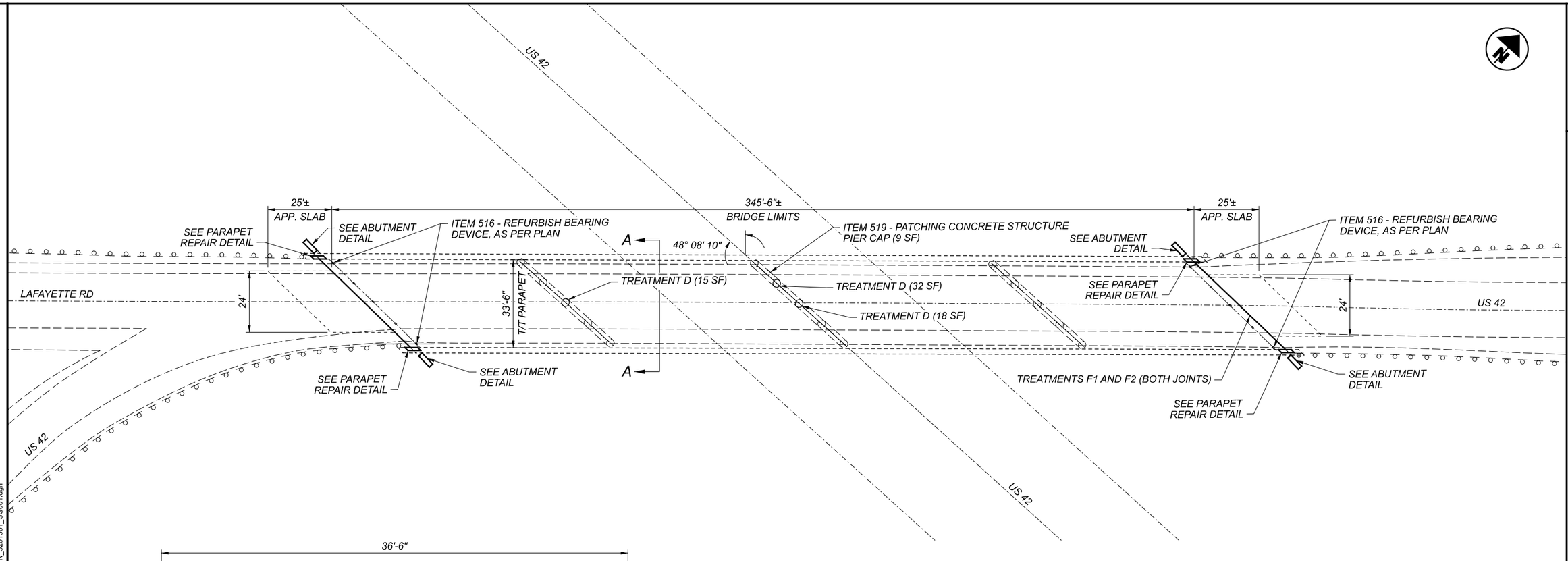

SECTION A-A

NOTES:

1.) REFURBISH BEARINGS #1 AND #5 ON THE REAR ABUTMENT AND #1 AND #5 ON THE FORWARD ABUTMENT.

2.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

3.) PERFORM PIER COLUMN REPAIRS USING ITEM 519 - PATCHING CONCRETE STRUCTURE. SEAL PIER COLUMN REPAIR AREAS WITH A GRAY SEALER TO MATCH THE EXISTING SEALER ON THE PIER COLUMNS USING ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

4.) SEE SHEET 2 FOR ABUTMENT AND PARAPET REPAIR DETAILS.

5.) TRIM EXISTING BEAM ENDS TO PROVIDE 3" CLEARANCE FROM THE EXISTING BACKWALL FOR THE EXPANSION JOINT REPLACEMENT, USING ITEM 513 - TRIMMING OF BEAM END.

ITEM	QUANTITY	UNIT	DESCRIPTION
202	12	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	7	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)
511	5	CY	CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)
512	8	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
513	10	EACH	TRIMMING OF BEAM END
516	104	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN
516	72	FT	JOINT SEALER
516	4	EACH	REFURBISH BEARING DEVICE, AS PER PLAN
516	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
519	141	SF	PATCHING CONCRETE STRUCTURE

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

HORIZONTAL SCALE IN FEET
0 10 20 40

STRUCTURE DETAILS
MED-42-7.14
STRUCTURE OVER MED-42-0687

SFN 5201381
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER KRB | CHECKER XXX
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 69 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details1 PAPERSIZE: 17X11 (in.) DATE: 10/29/2021 TIME: 2:07:29 PM USER: ksaBay
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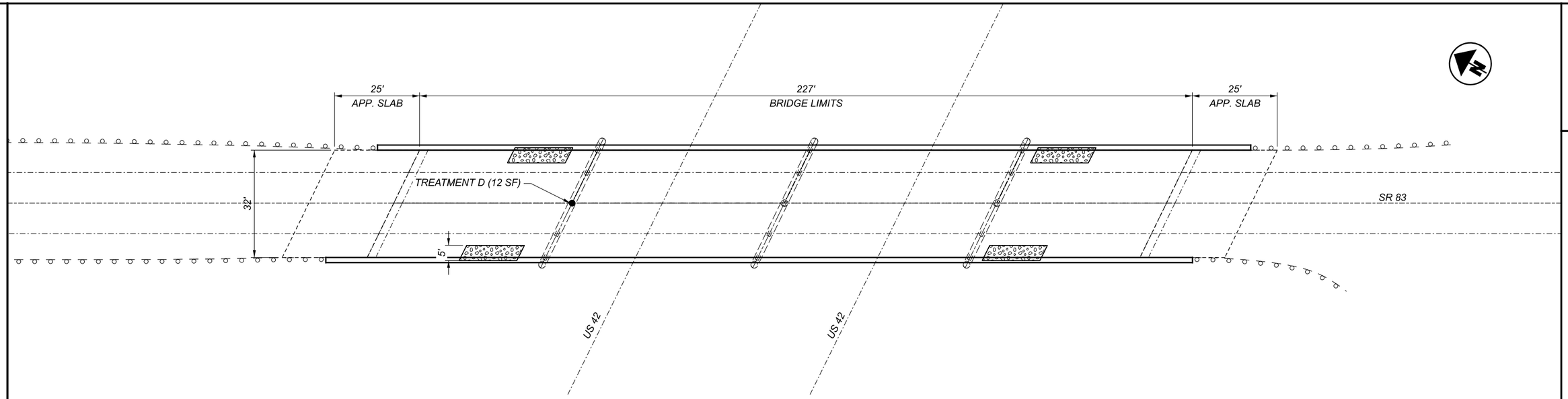
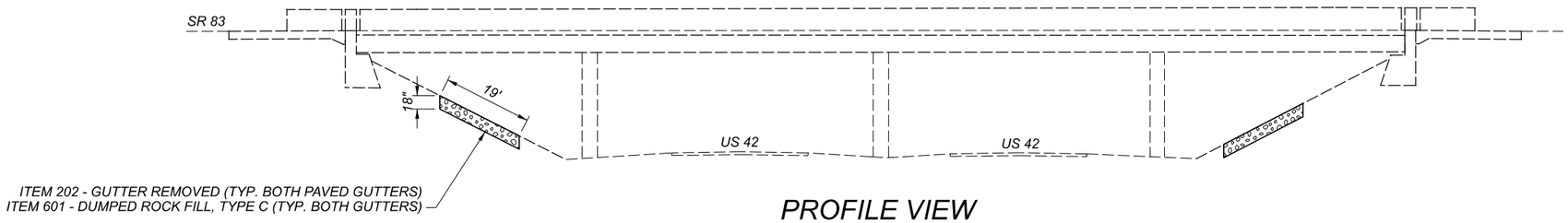


PLAN VIEW



PROFILE VIEW

EXISTING GUARDRAIL NOT SHOWN

ITEM	QUANTITY	UNIT	DESCRIPTION
202	76	FT	GUTTER REMOVED
519	12	SF	PATCHING CONCRETE STRUCTURE
601	21	CY	DUMPED ROCK FILL, TYPE C

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

HORIZONTAL SCALE IN FEET
0 7.5 15 30

STRUCTURE DETAILS
MED-83-4.34
STRUCTURE OVER US-42

SFN 5205220
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER TPG | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 1
SHEET 71 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: DETAIL SHEET 1 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 11:04:04 AM USER: ksalby
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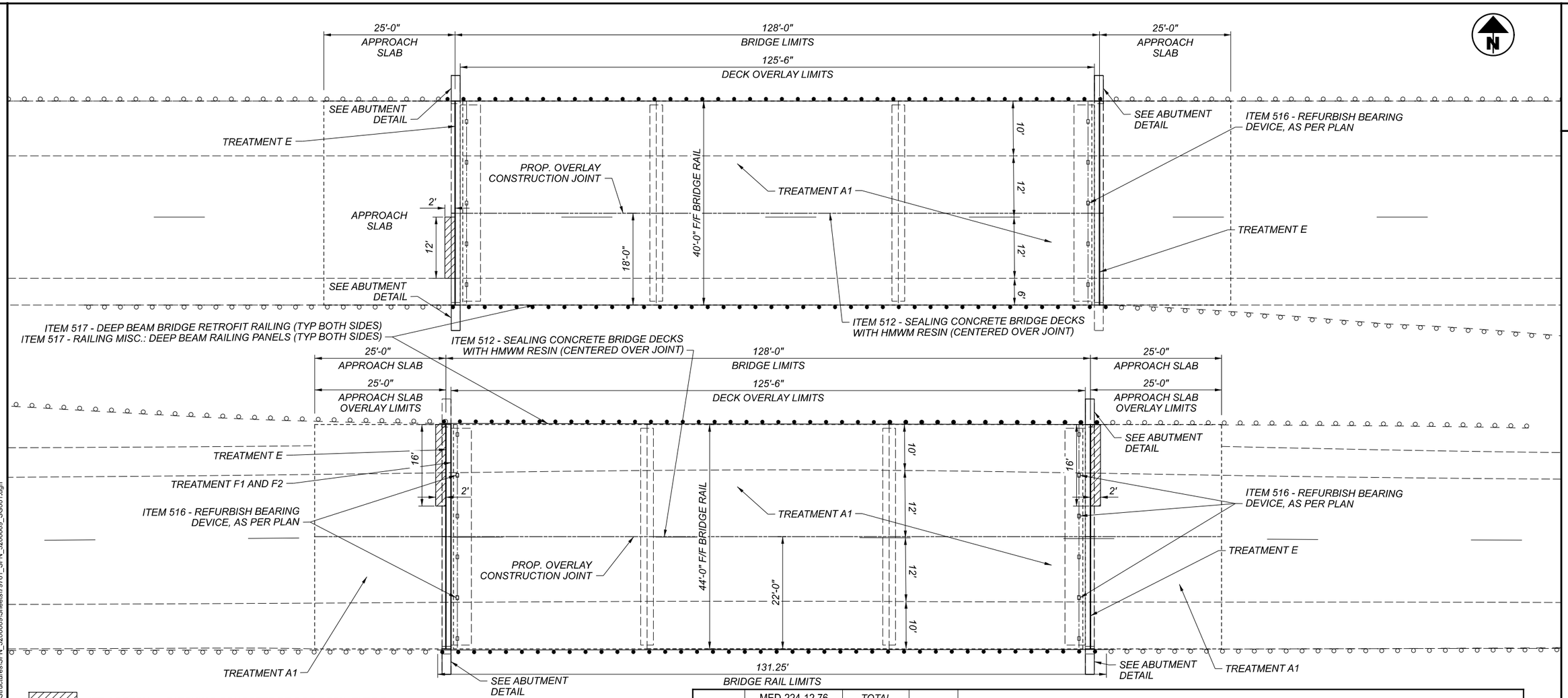

HORIZONTAL SCALE IN FEET
0 5 10 20

ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

NOTES:

1.) MED-224-1276L:
REFURBISH BEARING #3 ON THE FORWARD ABUTMENT.

MED-224-1276R:
REFURBISH BEARINGS #2 AND #5 ON THE REAR ABUTMENT AND #2, #3 AND #5 ON THE FORWARD ABUTMENT.

2.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

3.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

4.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

5.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3 INCHES BELOW THE CURRENT SURFACE.

6.) SEE SHEET 2 FOR ABUTMENT AND BEAM/JOINT DETAILS.

7.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK FOR STRUCTURE MED-224-1276L AND OVER THE LENGTH OF THE BRIDGE DECK AND APPROACH SLABS FOR STRUCTURE MED-224-1276R, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

ITEM	MED-224-12.76 L	MED-224-12.76 R	TOTAL QUANTITY	UNIT	DESCRIPTION
202		8	8	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	80	88	168	FT	REMOVAL, MISC.: JOINT SEALER
511		2	2	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)
511		3	3	CY	CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)
511		3	3	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
512	28	40	68	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516		44	44	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN
516	80	88	168	FT	JOINT SEALER
516	1	5	6	EACH	REFURBISH BEARING DEVICE, AS PER PLAN
516	LS	LS	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
517	262.5	262.5	525	FT	DEEP BEAM BRIDGE RETROFIT RAILING
517	262.5	262.5	525	FT	RAILING MISC.: DEEP BEAM RAILING PANELS
519	21		21	SF	PATCHING CONCRETE STRUCTURE
848	558	858	1,416	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK)
848	558	858	1,416	SY	SURFACE PREPARATION USING HYDRODEMOLITION
848	17	27	44	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	31	48	79	SY	HAND CHIPPING
848	LS	LS	LS		TEST SLAB
848	2	5	7	CY	FULL DEPTH REPAIR
848	558	858	1,416	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS)
848	313	481	794	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY
SPECIAL	3	7	10	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

STRUCTURE DETAILS
MED-224-12.76 (L/R)
TWIN STRUCTURES OVER CAMEL CREEK

SFN 5206669
SFN 5206693
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER KRB | CHECKER XXX
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 72 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 11:28:01 AM USER: ksalley
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