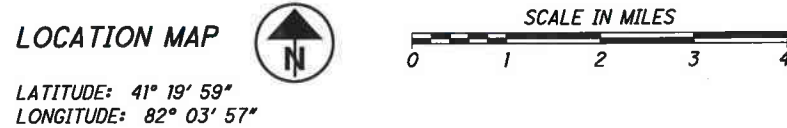
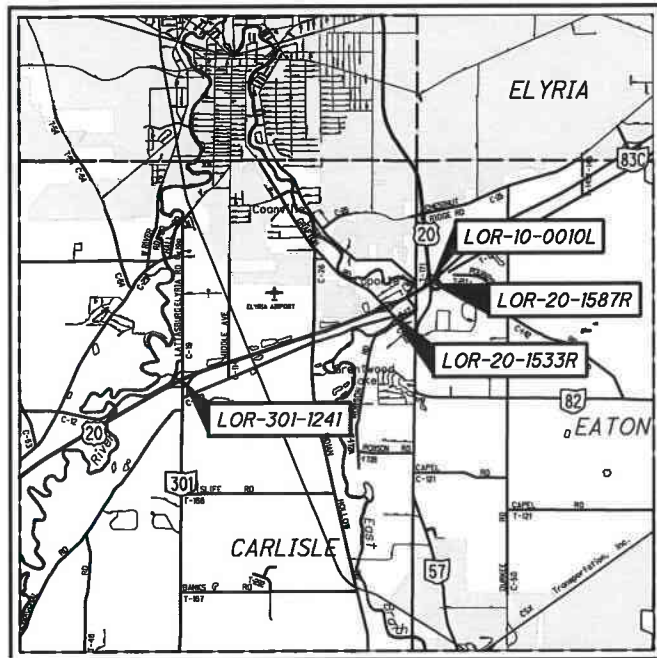


D03 - BH FY2021 (A)
 210121 PID - 100077
 Dist 3 2/25/2021

Contract Proposal available @
 www.contracts.dot.state.oh.us

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STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
D03-BH-FY2021(A)
 CARLISLE TOWNSHIP
 EATON TOWNSHIP
 LORAIN COUNTY

PROJECT DESCRIPTION
 THIS PROJECT INVOLVES THE REHABILITATION OF SEVERAL STRUCTURES THROUGHOUT DISTRICT THREE BY MEANS OF RESETTING BEARINGS, CONCRETE PATCHING, DECK & PARAPET SEALING, AND VARIOUS OTHER REHABILITATIVE MEASURES.

EARTH DISTURBED AREAS
 PROJECT EARTH DISTURBED AREA: N/A - MAINTENANCE PROJECT
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A - MAINTENANCE PROJECT
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A - MAINTENANCE PROJECT

DESIGN DESIGNATIONS

	LOR-10-0.00	LOR-20-13.02	LOR-20-15.33	LOR-20-15.86
CURRENT ADT (2023)	33,000	26,000	26,500	32,000
DESIGN YEAR ADT (2043)	42,000	30,000	35,500	34,500
DESIGN HOURLY VOLUME	4,200	3,600	4,600	4,100
DIRECTIONAL DISTRIBUTION	52%	50%	53%	100%
TRUCKS (24 HOUR B&C)	16%	10%	7%	20%
DESIGN & LEGAL SPEED (MPH)	65	65	65	65
NHS PROJECT	YES	YES	YES	YES

DESIGN FUNCTIONAL CLASSIFICATIONS:
 LOR-10-0.00 --- FREEWAYS AND EXPRESSWAYS
 LOR-20-13.02 --- FREEWAYS AND EXPRESSWAYS
 LOR-20-15.33 --- FREEWAYS AND EXPRESSWAYS
 LOR-20-15.86 --- FREEWAYS AND EXPRESSWAYS

INDEX OF SHEETS:

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DESIGN EXCEPTIONS
 NONE

UNDERGROUND UTILITIES
 Contact Two Working Days Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
 (Non-members must be called directly)

ENGINEERS SEAL:

SIGNED: *Nicholas R Foster*
 DATE: 11/19/2020

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
DM-4.3	1/15/16	MT-105.10	1/17/20	800	1/15/21		
DM-4.4	1/15/16			821	4/20/12		
		TC-41.20	10/18/13	830	7/19/19		
MT-95.30	7/19/19	TC-42.20	10/18/13	832	10/19/18		
MT-95.31	7/19/19	TC-52.10	10/18/13	921	4/20/12		
MT-95.32	4/19/19	TC-52.20	7/20/18				
MT-95.40	1/17/20						
MT-95.50	7/21/17						
MT-97.10	4/19/19						
MT-98.10	1/17/20						
MT-98.11	1/17/20						
MT-98.20	4/19/19						
MT-98.22	1/17/20						
MT-101.70	1/17/20						
MT-101.75	1/17/20						
MT-101.90	7/17/20						

PLANS PREPARED BY:
 OHIO DEPARTMENT OF TRANSPORTATION
 DISTRICT THREE ENGINEERING

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS OF THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE ASS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: *Robert Weaver*
 DATE: 1/16/2021 ROBERT WEAVER, PE, PS
 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
 DATE: _____ JACK MARCHBANKS, PhD, DIRECTOR
 DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E190634
 PID NO. 100077
 CONSTRUCTION PROJECT NO. _____
 RAILROAD INVOLVEMENT NONE
 D03-BH-FY2021(A)
 1/9

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.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

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 PRE BID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS:

THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OH.

PLAN NAME	DATE
LOR-20-12.62	1968
LOR-20-12.59	1997
LOR-10-(13.75-15.25)	1956
LOR-57-11.74	1961

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4,500 PSI

DECK PROTECTION METHOD

SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
TREATING OF CONCRETE BRIDGE DECK WITH SRS

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THESE STRUCTURES CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2003-2007 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

PROTECTION OF EXISTING REINFORCING STEEL

WHEN PERFORMING ANY WORK ON EXISTING CONCRETE STRUCTURES, TAKE CARE TO NOT DAMAGE ANY EXISTING REINFORCING STEEL THAT IS TO REMAIN IN PLACE. IF ANY EXISTING REINFORCING STEEL IS DAMAGED IN THE COURSE OF PERFORMING ANY WORK, REPAIR OR REPLACE THE STEEL AT NO COST TO THE DEPARTMENT AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER. FIELD COAT ANY EXPOSED OR NEW REINFORCING STEEL WITH AN APPROVED EPOXY MATERIAL AND ALLOW FOR A FULL CURE PRIOR TO PLACING ANY ENCAPSULATING MATERIAL SUCH AS CONCRETE.

ALL MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK SHALL BE CONSIDERED INCIDENTAL TO THE ITEM OF WORK COMPLETED WHILE EXPOSING THE EXISTING REINFORCING STEEL, SUCH AT ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

PLACEMENT OF ADJACENT CONCRETE POURS

DO NOT PLACE ADJACENT CONCRETE POURS SIMULTANEOUSLY. ALLOW SUFFICIENT TIME FOR THE FIRST POUR TO CURE TO THE POINT FORMS CAN BE STRIPPED WITHOUT DETRIMENT TO THE POUR BEFORE PLACING THE SECOND POUR. ALL CONSTRUCTION JOINTS NOT SPECIFICALLY LABELED IN THE PLANS AS OPTIONAL ARE TO BE PERFORMED AS DETAILED ABOVE. SHOULD THE CONTRACTOR FAIL TO PERFORM THE CONSTRUCTION JOINT AS DESCRIBED, THE ENGINEER WILL DIRECT THE CONTRACTOR TO REMOVE THE INADEQUATELY PLACED CONCRETE AND REPLACE IT AS DESCRIBED ABOVE AT NO COST TO THE DEPARTMENT. PAYMENT WILL NOT BE MADE FOR INADEQUATELY PLACED CONCRETE NOT REPLACED.

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO PERFORM THE DESCRIBED WORK IS TO BE CONSIDERED INCIDENTAL TO THE RESPECTIVE CONCRETE ITEM AND WILL BE PAID FOR UNDER THAT CONTRACT BID PRICE.

PAVEMENT MARKINGS

THE EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED AND REPLACED ON THE STRUCTURES THAT ARE GETTING DECK SEALING WITH HMWM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT EXISTING MARKINGS TO INCLUDE CURRENT LENGTHS AND OFFSETS. REPLACEMENT MARKINGS ARE TO BE PLACED AT THE SAME LOCATIONS AND OFFSETS OF THE EXISTING MARKINGS.

ALL MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 202 - REMOVAL MISC.: ELASTOMERIC COMPRESSION SEAL GLAND

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING JOINT SEAL 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 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 HAMMERS 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 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 REINFORCING STEEL 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.

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 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

MINOR EXCAVATION MAY BE REQUIRED TO ACCESS REPAIR AREAS AT ABUTMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM.

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

ITEM 516 - RESET BEARING, AS PER PLAN

AFTER COMPLETING THE JACKING AND TEMPORARY SUPPORT OF SUPER STRUCTURE, RESET THE EXISTING BEARING. RESET THE BEARING WITH NEW SHIM PADS ACCORDING TO ITEM 516. THE NEW SHIM PADS SHALL BE IN KIND AS FOUND EXISTING. THIS WORK IS TO BE PERFORMED ON VARIOUS BEARING AS DETAILED IN THE PLANS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS, NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ABOVE ITEM.

ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN

BEFORE COMPLETING THE DECK SEALING, REMOVE THE EXISTING RAISED PAVEMENT MARKERS LOCATED IN THE DECK AND APPROACH SLABS AS DETAILED IN THE PLANS. REMOVE THE RAISED PAVEMENT MARKERS ACCORDING TO ITEM 621, ALONG WITH ALL UNSOUND MATERIAL FROM AROUND THE RPM AND FILL THE VOID WITH EITHER CONCRETE, EPOXY, OR MATERIAL APPROVED BY THE ENGINEER.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS, NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ABOVE ITEM.

ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK OVERLAYS WITH MICRO-SILICA MODIFIED CONCRETE

SEE PROPOSAL NOTE NUMBER 511.

THESE ITEMS SHALL CONSIST OF PATCHING PORTIONS OF CONCRETE SURFACES AS OUTLINED IN THE PLANS AND PN 511. REMOVE ALL UNSOUND MATERIAL FROM AROUND THE REPAIR AREA PRIOR TO PATCHING.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS, NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ABOVE ITEM.

CALCULATED
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GENERAL NOTES

D03-BH-FY2021(A)

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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. THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. AMBER LIGHT SHALL BE VISIBLE TO ALL DIRECTIONS OF TRAFFIC A MINIMUM OF 0.25 MILE.

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.

MAINTENANCE OF TRAFFIC SCHEME

THE CONTRACTOR SHALL SCHEDULE THEIR WORK AND METHODS IN ORDER TO MEET THE INTENT OF THE PLANS. THE PAVEMENT SURFACES TO BE USED BY THE TRAVELING PUBLIC SHALL BE ABLE TO DRAIN FREELY. ALL COSTS TO MAINTAIN THE ROADWAY AS PER THE CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE PLANS SHALL BE INCLUDED IN ITEM 614 LUMP SUM MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

LANE CLOSURE RESTRICTION

S.R. 10, U.S. 20, AND S.R. 57 ARE RESTRICTED LANE CLOSURE ROUTES DUE TO HIGH TRAFFIC VOLUMES. DURING THE PROJECT DURATION, LANE CLOSURES SHALL BE PERMITTED AS LISTED ON THE ODOT WEBSITE AT:

<http://plcm.dot.state.oh.us>

LANE CLOSURE DISINCENTIVE

A LANE CLOSURE IS DEFINED AS ANY RESTRICTION OF A LANE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, SET-UP AND TEARDOWN OF TRAFFIC CONTROL ZONES. THE CONTRACTOR WILL BE ASSESSED A PENALTY IN THE AMOUNT OF \$50.00 PER MINUTE THAT A LANE IS CLOSED TO TRAFFIC DURING TIMES DESIGNATED AS "LANE CLOSURE NOT PERMITTED" AS STATED IN THESE PLANS.

ITEM 614. MAINTAINING TRAFFIC

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, WITH THE APPROVAL OF THE ENGINEER.

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OMUTCD, AND SUCH FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ALL MAINTENANCE OF TRAFFIC SIGNS ARE PAID UNDER ITEM 614 - MAINTAINING TRAFFIC.

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 A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT UNIT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614. MAINTAINING TRAFFIC: GENERAL

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON US 20 AND SR 57 SHALL BE MAINTAINED AT ALL TIMES. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, PLAN DETAILS, STANDARD DRAWINGS, AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE SECTION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION WITH THE LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS (INCLUDING WORK ZONE PAVEMENT MARKINGS) SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED ON THIS PLAN.

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

NIGHT WORK IS PERMITTED.

ITEM 614 - MAINTAINING TRAFFIC FOR S.R. 57/ 301

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON S.R. 57/ 301 SHALL BE MAINTAINED AT ALL TIMES. THROUGH TRAFFIC MAY HAVE A SINGLE LANE CLOSURE IN EACH DIRECTION DURING NORMAL WORKING HOURS USING FLAGGERS AS SHOWN ON STANDARD DRAWING MT-97.10 FOR THE PURPOSE OF PARAPET REPAIR ON STRUCTURE LOR-10-0010L AND LOR-20-1587R.

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

ITEM 614 - MAINTAINING TRAFFIC FOR S.R. 301 OVER U.S. 20

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON S.R. 301 SHALL BE MAINTAINED AT ALL TIMES. THROUGH TRAFFIC MAY HAVE A SINGLE LANE CLOSURE IN EACH DIRECTION USING DRUMS AS SHOWN ON STANDARD DRAWING MT-95.30 FOR THE PURPOSE OF THE MICRO-SILICA DECK REPAIRS ON STRUCTURE LOR-301-1241.

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

ITEM 614 - MAINTAINING TRAFFIC FOR GRAFTON RD. (CR 205)

TWO WAY TRAFFIC ON GRAFTON RD. SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC MAY HAVE A LANE CLOSURE DURING NORMAL WORKING HOURS USING FLAGGERS AS SHOWN ON STANDARD DRAWING MT-97.10 FOR THE PURPOSE OF PARAPET REPAIR ON STRUCTURE LOR-20-1533R.

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

ITEM 614 - MAINTAINING TRAFFIC FOR PARAPET REPAIRS

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON U.S. 20 SHALL BE MAINTAINED AT ALL TIMES. THROUGH TRAFFIC WILL HAVE A SINGLE LANE CLOSURE IN EACH DIRECTION USING PORTABLE BARRIER (PB) AS SHOWN ON STANDARD DRAWING MT-95.40 AND MT-98.22 FOR THE PURPOSE OF THE PARAPET REPAIRS ON STRUCTURE LOR-20-1533R, LOR-10-0010L AND LOR-20-1587R. SEE THE TYPICAL SECTIONS BELOW FOR A GENERAL SCHEMATIC. MAINTAIN A MINIMUM TWO (2) FOOT OFFSET BETWEEN THE EXISTING CENTERLINE (LANE LINE) AND BARRIER FOR ALL PHASES.

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

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL):

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

INSTALLATION SHALL BE AT THE LOCATIONS APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

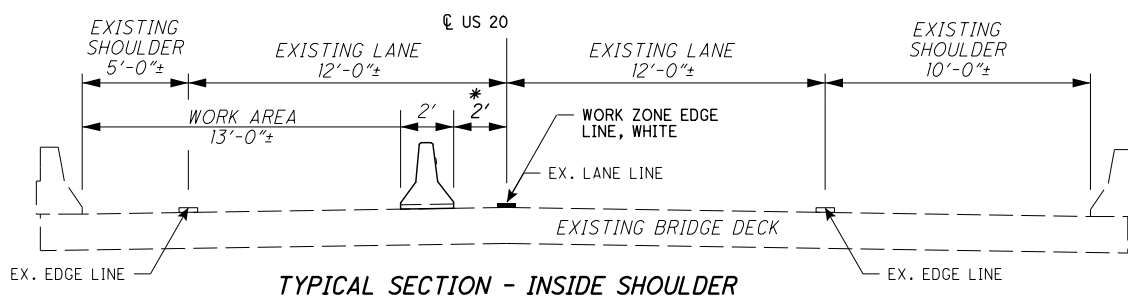
WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

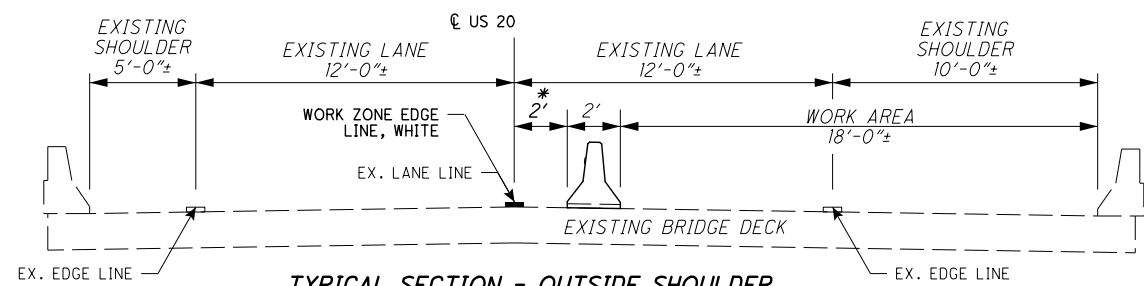
PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID (EACH) AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT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

LOR-20-1533R:	2 EACH
LOR-10-0010L:	2 EACH
LOR-20-1587R:	2 EACH



TYPICAL SECTION - INSIDE SHOULDER

*: MINIMUM OFFSET (ALL PHASES)



TYPICAL SECTION - OUTSIDE SHOULDER

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MAINTENANCE OF TRAFFIC GENERAL NOTES

D03-BH-FY2021(A)

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ITEM 614. MAINTAINING TRAFFIC ON STATE ROUTES (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

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

DAY OF THE WEEK	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 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 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS AS DIRECTED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION.

LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEOS ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES AND PROVIDE 72 HOURS ADVANCE NOTICE AS REQUIRED BY THE HIGHWAY PATROL LISTED BELOW:

LORAIN COUNTY
STATE HIGHWAY PATROL
38000 CLETUS DRIVE
ELYRIA, OHIO 44035
PHONE: 440-365-5045
FAX: 440-366-5039

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
160 HOURS

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

IF THE CONTRACTOR WISHES TO UTILIZE LEOS FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FT. AND 650 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO CMS 614.03, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS WILL BE DETERMINED BY THE ENGINEER PRIOR TO BEGINNING WORK ON THIS PROJECT. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

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

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PREPROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMS UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE ENGINEER.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 6 SIGN-MONTH (ASSUMING 2 PCM SIGNS FOR 3 MONTHS EACH)

ITEM 614 - BARRIER REFLECTORS AND/OR OBJECT MARKERS

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

ITEM 614 - BARRIER REFLECTOR, TYPE 2 (1WAY)	
LOR-20-1533R	15 EACH
LOR-10-0010L	19 EACH
LOR-20-1587R	19 EACH

ITEM 614 - OBJECT MARKER, ONE WAY	
LOR-20-1533R	15 EACH
LOR-10-0010L	19 EACH
LOR-20-1587R	19 EACH

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE ABOVE ITEMS PER EACH.

ITEM 622 - PORTABLE BARRIER PLACEMENT AND REMOVAL

DURING THE PLACEMENT AND REMOVAL OF PORTABLE BARRIER, TRAFFIC WILL BE PROHIBITED FROM OCCUPYING THE TRAVEL LANE ADJACENT TO THE BARRIER. THE BARRIER WILL BE PLACED IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE MAP. THE CLOSURE OF THE ADJACENT LANE WILL BE PER THE STANDARD CONSTRUCTION DRAWING MT-95.30.

THE CONTRACTOR WILL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF THE PLANNED LANE CLOSURE. WORK WILL NOT BEGIN UNTIL APPROVAL OF THE PLAN HAS BEEN GRANTED.

THE TANGENT WORK ZONE PORTION OF THE BARRIER SHALL EXTEND ALONG THE ENTIRE STRUCTURE DECK LENGTH AND THE TAPER IS TO BEGIN BEYOND THE STRUCTURE. NO PORTABLE BARRIER OR CRASH ATTENUATORS ARE TO BE ANCHORED THROUGH THE CONCRETE BRIDGE DECKS OR APPROACH SLABS. ALL COSTS INVOLVED IN PLACEMENT AND REMOVAL OF THE PORTABLE CONCRETE BARRIER WILL BE INCLUDED ON THE CONTRACT PRICE PER LINEAR FOOT FOR ITEM 622 - PORTABLE BARRIER, UNANCHORED.

LOR-20-1533R:	700 FT
LOR-10-0010L:	900 FT
LOR-20-1587R:	900 FT

NOTIFICATIONS 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.

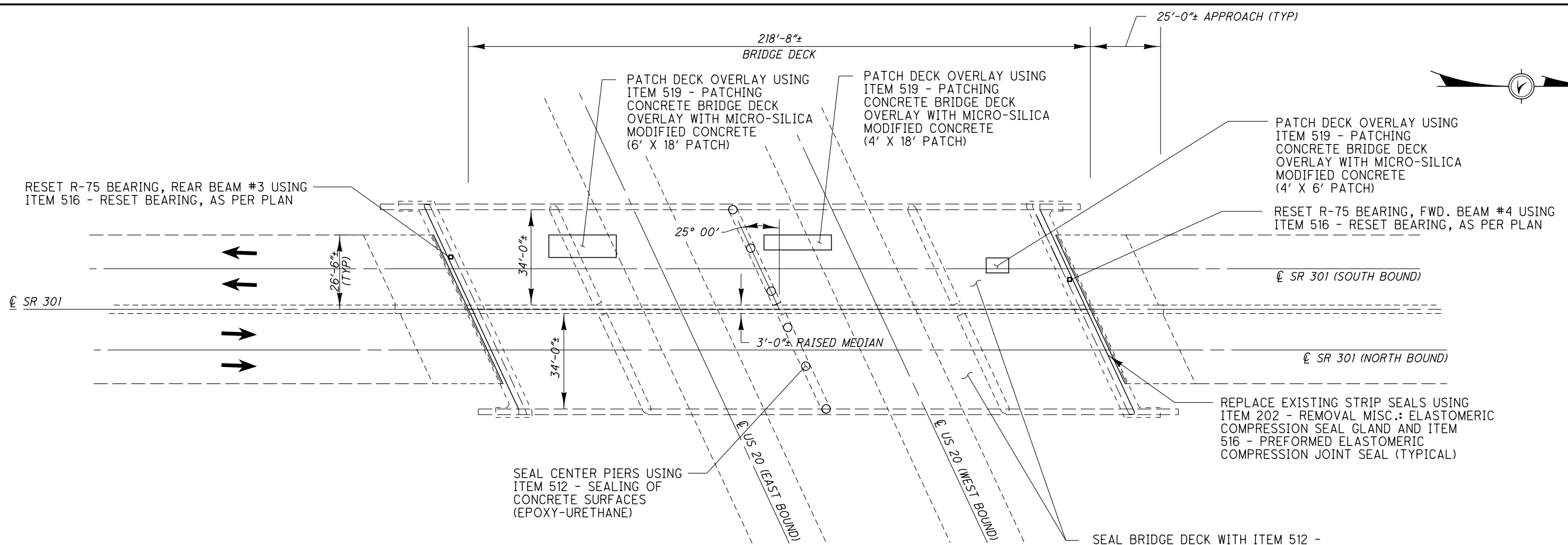
INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL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

NOTIFICATION TIME TABLE

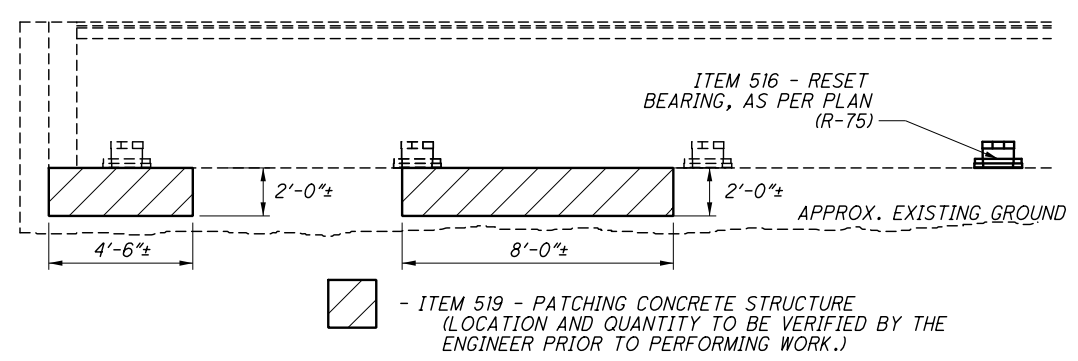
ITEM	DURATION OF CLOSURE	NOTICE LEAD TIME REQUIRED*
RAMP AND/OR ROAD CLOSURES	TWO WEEKS OR GREATER	21 CALENDAR DAYS
	12 HOURS TO TWO WEEKS	14 CALENDAR DAYS
	12 HOURS OR LESS	4 BUSINESS DAYS
LANE CLOSURES AND RESTRICTIONS	TWO WEEKS OR GREATER	14 CALENDAR DAYS
	LESS THAN TWO WEEKS	5 BUSINESS DAYS
START OF CONSTRUCTION AND TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

* - PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

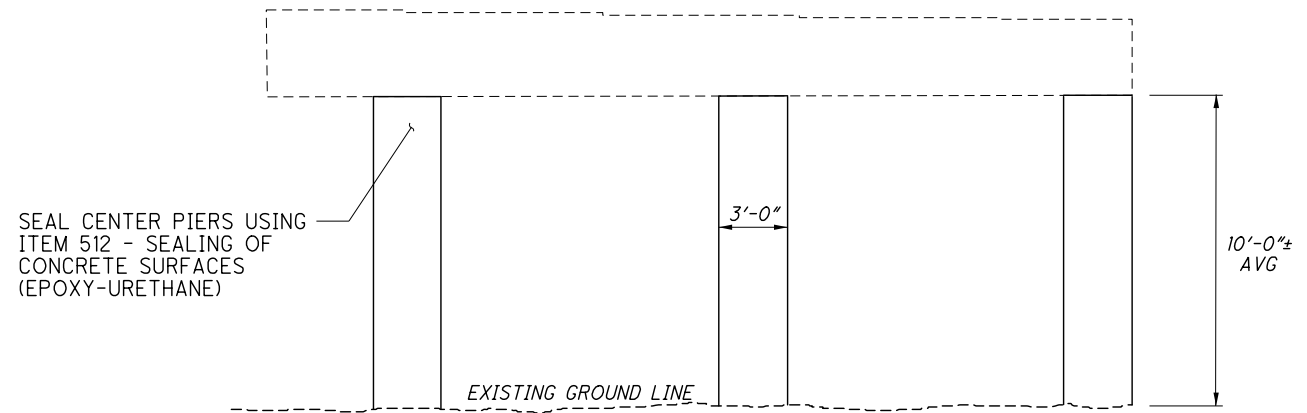
ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.



PLAN VIEW
STRUCTURE LOR-301-1241
CARRYING SR 301 OVER US 20



FORWARD ABUTMENT ELEVATION
BEAMS, JOINT SEAL, AND DECK NOT SHOWN FOR CLARITY



HALF ELEVATION PIER 2
FOOTING, BEARINGS, & BEAMS NOT SHOWN FOR CLARITY (SYMMETRIC ABOUT CENTERLINE)

NOTES

ITEM 519 - PATCHING CONCRETE STRUCTURE
PATCHING CONCRETE STRUCTURE WORK AT THE FORWARD ABUTMENT SHALL BE COMPLETED WHEN THE STRUCTURE IS TEMPORARILY SUPPORTED FOR THE BEARING RESET DUE TO THE PROXIMITY OF THE PATCHES TO THE BEARINGS. THE EXISTING REINFORCING STEEL LOCATED WITHIN THE AREAS AFFECTED BY THESE ITEMS IS TO REMAIN IN PLACE AT ALL TIMES. TAKE CARE WHEN PERFORMING THIS WORK TO NOT DAMAGE THE EXISTING REINFORCING STEEL. SHOULD ANY REINFORCING STEEL BE DAMAGED IN THE COURSE OF COMPLETING THIS WORK, REPAIR OR REPLACE THE DAMAGED REINFORCING STEEL AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. REPLACE ANY REINFORCING STEEL FOUND TO NOT BE SALVAGEABLE DUE TO EXTENSIVE CORROSION OR PREEXISTING DAMAGE AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. COAT ANY NEW AND ALL EXPOSED REINFORCING STEEL WITH AN APPROVED EPOXY MATERIAL AND ALLOW A FULL CURE OF THE EPOXY PRIOR TO PLACING ANY CONCRETE OVER THE STEEL. ALL LISTED WORK SHALL BE CONSIDERED INCIDENTAL TO THE ABOVE LISTED ITEMS IN THEIR RESPECTIVE WORK AREAS AS SHOWN ON THIS SHEET.

DO NOT BLOCK WEEP HOLES IN THE EXISTING ABUTMENT FACE AT ANY TIME. MAINTAIN THE FLOWABILITY OF THE EXISTING WEEP HOLES.

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	150	FT	REMOVAL MISC.: ELASTOMERIC COMPRESSION SEAL GLAND
512	62.8	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	1652	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS
516	150	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL
516	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE
516	2	EACH	RESET BEARING, AS PER PLAN
519	24.7	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE
519	25	SF	PATCHING CONCRETE STRUCTURE

ALL QUANTITIES CARRIED TO GENERAL SUMMARY

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DESIGN AGENCY
ODOT DISTRICT THREE
OFFICE OF ENGINEERING

DATE
10/2020

REVIEWED
KCK

STRUCTURE FILE NUMBER
4706609

DRAWN
NRF

CHECKED
KAK

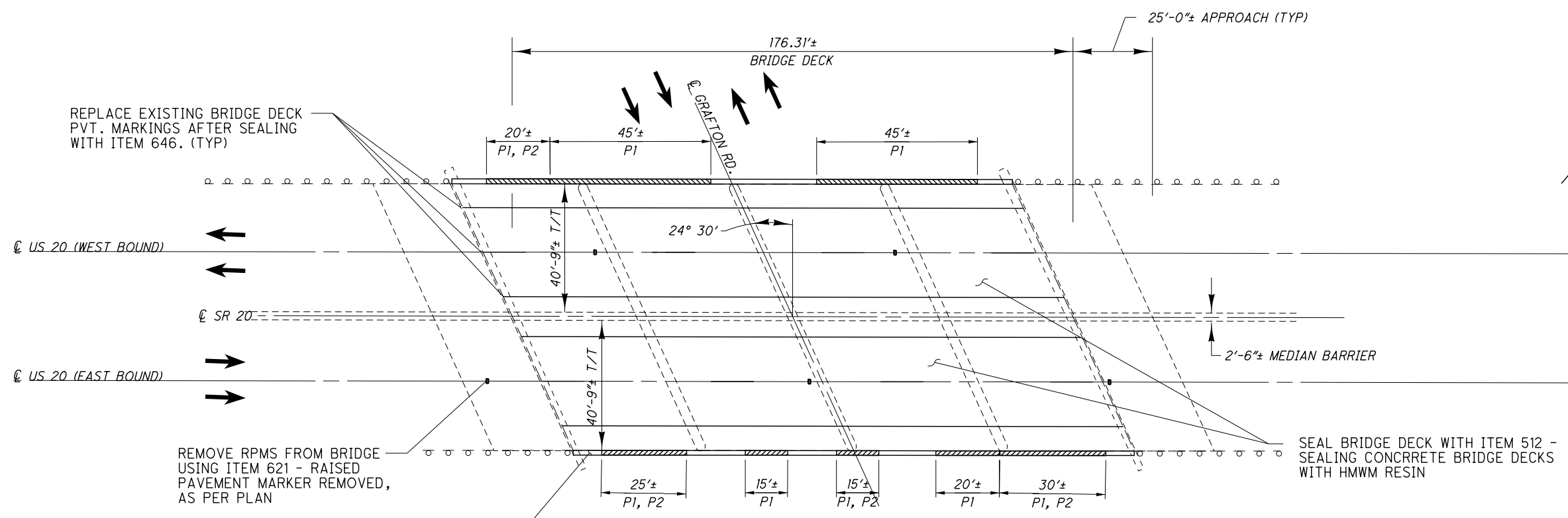
DESIGNED
NRF

REVISED

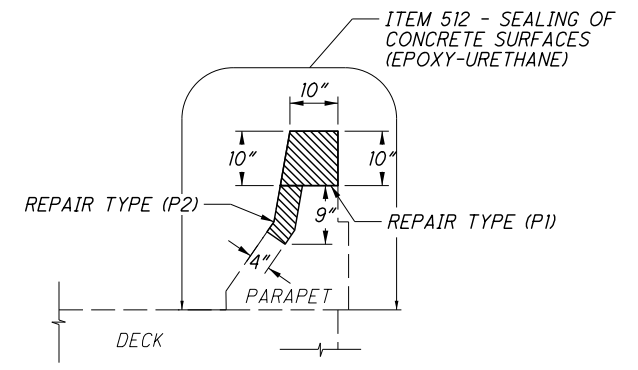
STRUCTURE DETAILS
STRUCTURE LOR-301-1241 (LOR-20-1303)
CARRYING SR 301 OVER US 20

D03-BH-FY2021(A)
PID No. 100077

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PLAN VIEW
 STRUCTURE LOR-20-1533R
 CARRYING US 20 OVER GRAFTON RD.



TYPICAL PARAPET REPAIR
 REINFORCING STEEL NOT SHOWN FOR CLARITY

LEGEND

- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
- ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
- (LOCATION AND QUANTITY TO BE VERIFIED BY THE ENGINEER PRIOR TO PERFORMING WORK.)

NOTES

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
 ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
 THE EXISTING REINFORCING STEEL LOCATED WITHIN THE AREAS AFFECTED BY THESE ITEMS IS TO REMAIN IN PLACE AT ALL TIMES. TAKE CARE WHEN PERFORMING THIS WORK TO NOT DAMAGE THE EXISTING REINFORCING STEEL. SHOULD ANY REINFORCING STEEL BE DAMAGED IN THE COURSE OF COMPLETING THIS WORK, REPAIR OR REPLACE THE DAMAGED REINFORCING STEEL AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. REPLACE ANY REINFORCING STEEL FOUND TO NOT BE SALVAGEABLE DUE TO EXTENSIVE CORROSION OR PREEXISTING DAMAGE AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. COAT ANY NEW AND ALL EXPOSED REINFORCING STEEL WITH AN APPROVED EPOXY MATERIAL AND ALLOW A FULL CURE OF THE EPOXY PRIOR TO PLACING ANY CONCRETE OVER THE STEEL. ALL LISTED WORK SHALL BE CONSIDERED INCIDENTAL TO THE ABOVE LISTED ITEMS IN THEIR RESPECTIVE WORK AREAS AS SHOWN ON THIS SHEET.

ALL SEALING SHALL BE PERFORMED AFTER ALL REPAIRS ARE MADE AS DETAILED ABOVE.

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	6.8	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	6.8	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
512	284	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	1597	SY	SEALING OF CONCRETE BRIDGE DECKS WITH HMWM RESIN
621	5	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
646	0.07	MILE	EDGE LINE, 6" (WHITE)
646	0.07	MILE	EDGE LINE, 6" (YELLOW)
646	0.07	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY

DESIGN AGENCY
 ODOT DISTRICT THREE
 OFFICE OF ENGINEERING

DATE
 10/2020

REVIEWED
 KCK

DRAWN
 NRF

DESIGNED
 NRF

STRUCTURE FILE NUMBER
 4701267

REVISER

CHECKED
 KAK

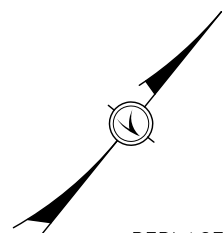
STRUCTURE DETAILS
 STRUCTURE LOR-20-1533R
 CARRYING US 20 OVER GRAFTON RD

D03-BH-FY2021(A)
 PID No. 100077

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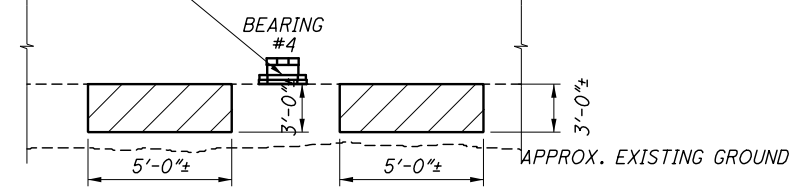


REPLACE EXISTING BRIDGE DECK PVT. MARKINGS AFTER SEALING WITH ITEM 646. (TYP)

REMOVE RPMS FROM BRIDGE USING ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN

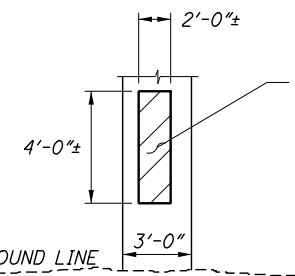
RESET R-75 BEARING, REAR BEAM #5 USING ITEM 516 - RESET BEARING, AS PER PLAN

ITEM 516 - RESET BEARING, AS PER PLAN (R-75)

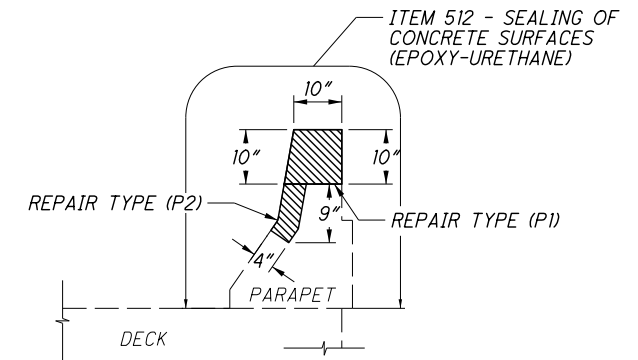


FORWARD ABUTMENT ELEVATION
BEAMS, JOINT SEAL, AND DECK NOT SHOWN FOR CLARITY

PLAN VIEW
STRUCTURES LOR-10-0010 L CARRYING US 20 OVER SR 57



ELEVATION PIER 3, COLUMN 2
FOOTING, BEARINGS, & BEAMS NOT SHOWN FOR CLARITY



TYPICAL PARAPET REPAIR
REINFORCING STEEL NOT SHOWN FOR CLARITY

LEGEND

- ITEM 519 - PATCHING CONCRETE STRUCTURE (LOCATION AND QUANTITY TO BE VERIFIED BY THE ENGINEER PRIOR TO PERFORMING WORK.)
- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
- ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET) (LOCATION AND QUANTITY TO BE VERIFIED BY THE ENGINEER PRIOR TO PERFORMING WORK.)

NOTES

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
 ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
 ITEM 519 - PATCHING CONCRETE STRUCTURE
 THE EXISTING REINFORCING STEEL LOCATED WITHIN THE AREAS AFFECTED BY THESE ITEMS IS TO REMAIN IN PLACE AT ALL TIMES. TAKE CARE WHEN PERFORMING THIS WORK TO NOT DAMAGE THE EXISTING REINFORCING STEEL. SHOULD ANY REINFORCING STEEL BE DAMAGED IN THE COURSE OF COMPLETING THIS WORK, REPAIR OR REPLACE THE DAMAGED REINFORCING STEEL AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. REPLACE ANY REINFORCING STEEL FOUND TO NOT BE SALVAGEABLE DUE TO EXTENSIVE CORROSION OR PREEXISTING DAMAGE AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. COAT ANY NEW AND ALL EXPOSED REINFORCING STEEL WITH AN APPROVED EPOXY MATERIAL AND ALLOW A FULL CURE OF THE EPOXY PRIOR TO PLACING ANY CONCRETE OVER THE STEEL. ALL LISTED WORK SHALL BE CONSIDERED INCIDENTAL TO THE ABOVE LISTED ITEMS IN THEIR RESPECTIVE WORK AREAS AS SHOWN ON THIS SHEET.

ALL SEALING SHALL BE PERFORMED AFTER ALL REPAIRS ARE MADE AS DETAILED ABOVE.

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	9.2	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	9.2	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
512	514	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	1133	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE
516	3	EACH	RESET BEARING, AS PER PLAN
519	38	SF	PATCHING CONCRETE STRUCTURE
621	3	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
646	0.05	MILE	EDGE LINE, 6" (WHITE)
646	0.05	MILE	EDGE LINE, 6" (YELLOW)
646	0.05	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY

DESIGN AGENCY
ODOT DISTRICT THREE
OFFICE OF ENGINEERING

DATE
10/2020

REVIEWED
KCK

DRAWN
NRF

DESIGNED
NRF

STRUCTURE FILE NUMBER
4701410

CHECKED
KAK

REVISOR

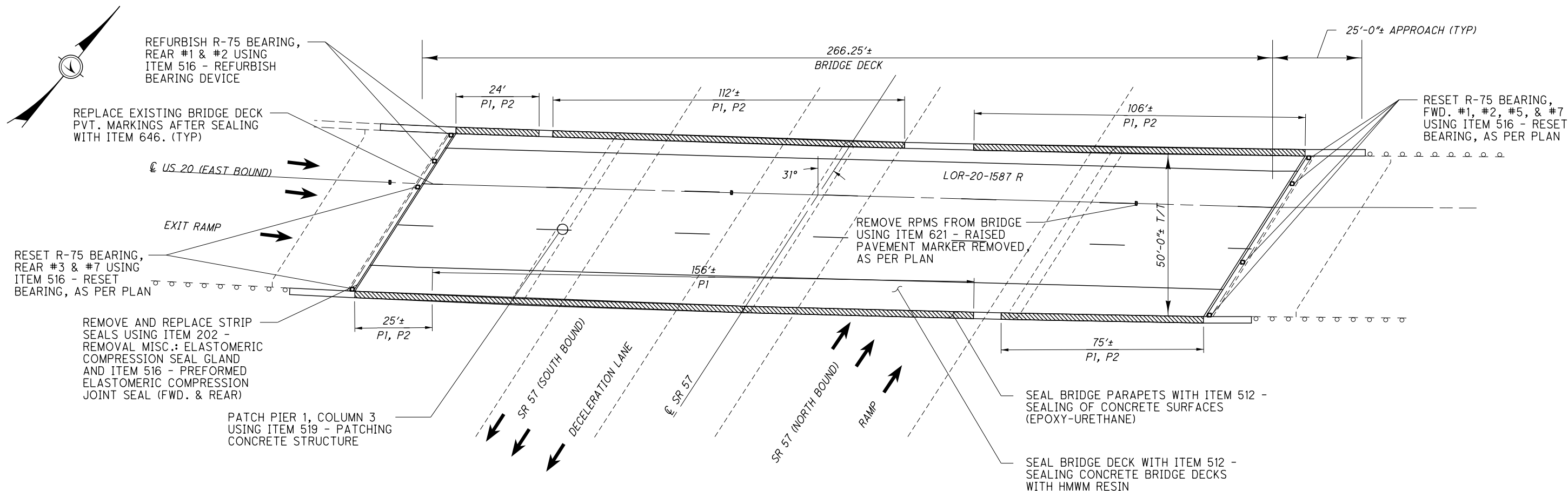
STRUCTURE DETAILS
STRUCTURE LOR-10-0010L (LOR-20-1612)
CARRYING US 20 OVER SR 57

D03-BH-FY2021(A)
PID No. 100077

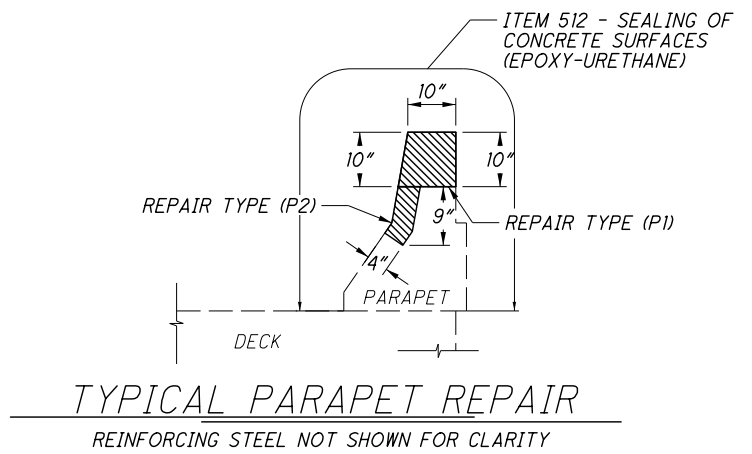
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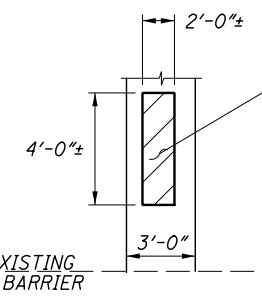
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PLAN VIEW
 STRUCTURE LOR-20-1587 R
 CARRYING US 20 OVER SR 57



TYPICAL PARAPET REPAIR
 REINFORCING STEEL NOT SHOWN FOR CLARITY



ELEVATION PIER 1, COLUMN 3
 FOOTING, BEARINGS, & BEAMS NOT SHOWN FOR CLARITY

LEGEND

- ITEM 519 - PATCHING CONCRETE STRUCTURE (LOCATION AND QUANTITY TO BE VERIFIED BY THE ENGINEER PRIOR TO PERFORMING WORK.)
- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
- ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET) (LOCATION AND QUANTITY TO BE VERIFIED BY THE ENGINEER PRIOR TO PERFORMING WORK.)

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ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
 ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
 ITEM 519 - PATCHING CONCRETE STRUCTURE
 THE EXISTING REINFORCING STEEL LOCATED WITHIN THE AREAS AFFECTED BY THESE ITEMS IS TO REMAIN IN PLACE AT ALL TIMES. TAKE CARE WHEN PERFORMING THIS WORK TO NOT DAMAGE THE EXISTING REINFORCING STEEL. SHOULD ANY REINFORCING STEEL BE DAMAGED IN THE COURSE OF COMPLETING THIS WORK, REPAIR OR REPLACE THE DAMAGED REINFORCING STEEL AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. REPLACE ANY REINFORCING STEEL FOUND TO NOT BE SALVAGEABLE DUE TO EXTENSIVE CORROSION OR PREEXISTING DAMAGE AT THE DIRECTION AND TO THE SATISFACTION OF THE ENGINEER. COAT ANY NEW AND ALL EXPOSED REINFORCING STEEL WITH AN APPROVED EPOXY MATERIAL AND ALLOW A FULL CURE OF THE EPOXY PRIOR TO PLACING ANY CONCRETE OVER THE STEEL. ALL LISTED WORK SHALL BE CONSIDERED INCIDENTAL TO THE ABOVE LISTED ITEMS IN THEIR RESPECTIVE WORK AREAS AS SHOWN ON THIS SHEET.

ALL SEALING SHALL BE PERFORMED AFTER ALL REPAIRS ARE MADE AS DETAILED ABOVE.

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	17	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	116	FT	REMOVAL MISC.: ELASTOMERIC COMPRESSION SEAL GLAND
511	17	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
512	511	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	1481	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	116	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL
516	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE
516	6	EACH	RESET BEARING, AS PER PLAN
516	2	EACH	REFURBISH BEARING DEVICE
519	8	SF	PATCHING CONCRETE STRUCTURE
621	3	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
646	0.05	MILE	EDGE LINE, 6" (WHITE)
646	0.05	MILE	EDGE LINE, 6" (YELLOW)
646	0.1	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY

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DESIGN AGENCY
 ODOT DISTRICT THREE
 OFFICE OF ENGINEERING

DATE
 10/2020

REVIEWED
 KCK

DRAWN
 NRF

DESIGNED
 NRF

STRUCTURE FILE NUMBER
 4703456

CHECKED
 KAK

REVISER

STRUCTURE DETAILS
 STRUCTURE LOR-20-1587 R (LOR-57-1299)
 CARRYING US 20 OVER SR 57

D03-BH-FY2021(A)
 PID No. 100077

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