STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

ERI/ MED-BH-FY2019

CITY OF SANDUSKY
CITY OF HURON
MARGARETTA TOWNSHIP
PERKINS TOWNSHIP
VILLAGE OF SEVILLE

ERIE COUNTY
MEDINA COUNTY

SEE SHEET 2 FOR LOCATION MAPS.

LOCATION MAP

DESIGN DESIGNATION: SEE SHEET 2

DESIGN EXCEPTIONS

NONE REQUIRED

INDEX OF SHEETS:

PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE MISCELLANEOUS REPAIRS ON 19 BRIDGES THROUGHOUT ODOT DISTRICT THREE. THESE REPAIRS INCLUDE DECK OVERLAYS, CONCRETE REPAIRS, DECK SEALING, AND JOINT SEALING.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)

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 5111.02 OF THE OHIO REVISED CODE.

2016 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, EXCEPT AS NOTED ON SHEETS 6 & 7, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED _____ DISTRICT DEPUTY DIRECTOR

DATE 10/11/18

APPROVED _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

DATE 10/22/18

ENGINEERS SEAL:

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

SIGNED: Karla R. Bohmer

DATE: 10/11/18

PLANS PREPARED BY:

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT THREE ENGINEERING

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	7/18/14	MT-95.30	7/21/17	TC-41.20	10/18/13						
		MT-95.50	7/21/17	TC-42.20	10/18/13						
		MT-98.20	7/18/14	TC-52.10	10/18/13						
DM-4.3	1/15/16	MT-98.22	1/20/17	TC-52.20	7/20/18						
DM-4.4	1/15/16	MT-98.28	1/20/17	TC-71.10	1/19/18						
		MT-98.29	1/20/17	TC-72.20	7/20/18						
		MT-99.20	7/20/18								
		MT-101.60	1/20/17								
		MT-105.10	7/19/13								

SUPPLEMENTAL SPECIFICATIONS

800	10/19/18
821	4/20/18
832	1/17/14
858	4/20/18

SPECIAL PROVISIONS

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

OHIO Utilities Protection SERVICE — Call Before You Dig 1-800-362-2764

(Non-members must be called directly)

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE 1-800-925-0988

FEDERAL PROJECT NO. E180124

PID NO. 94444

CONSTRUCTION PROJECT NO. -----

RAILROAD INVOLVEMENT CSX & NORFOLK SOUTHERN

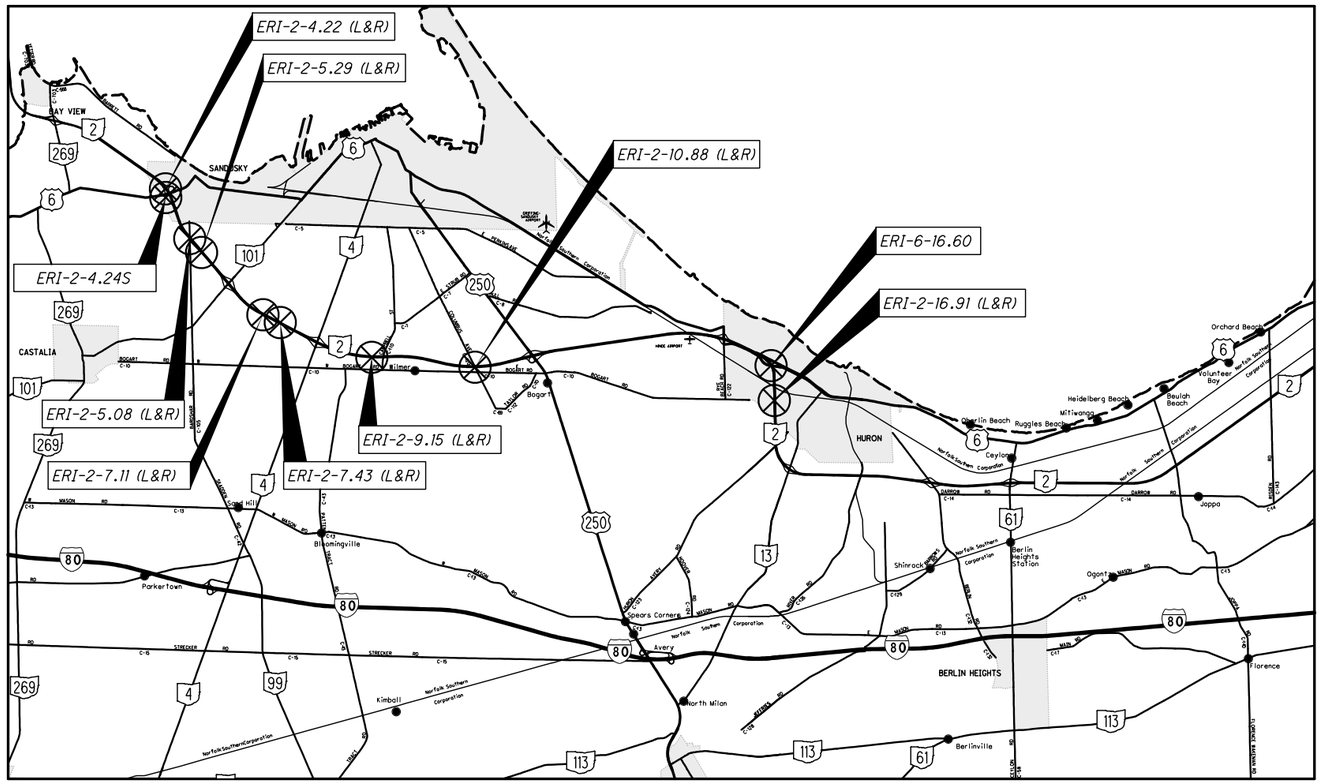
ERI/ MED-BH-FY2019

1/21

ERI - /MED BH FY2019 - Con
194001 PID - 94444
Dist 3 1/10/2019

Contract Proposal Available @
www.contracts.dot.state.oh.us/home

I:\ProjectData\94444\Design\Roadway\She



ERI-6-16.60: LATITUDE: 41°23'52" LONGITUDE: 82°34'30"
ERI-2-5.08L&R: LATITUDE: 41°25'50" LONGITUDE: 82°46'22"
ERI-2-5.29L&R: LATITUDE: 41°25'41" LONGITUDE: 82°46'13"
ERI-2-7.11L&R: LATITUDE: 41°24'35" LONGITUDE: 82°44'44"
ERI-2-7.43L&R: LATITUDE: 41°24'28" LONGITUDE: 82°44'24"
ERI-2-9.15L&R: LATITUDE: 41°23'59" LONGITUDE: 82°42'33"
ERI-2-10.88L&R: LATITUDE: 41°23'50" LONGITUDE: 82°40'34"
ERI-2-16.91L&R: LATITUDE: 41°23'21" LONGITUDE: 82°34'27"

DESIGN DESIGNATION ERI-6-16.60

CURRENT ADT (2019) _____ 6,800
DESIGN YEAR ADT (2039) _____ 7,100
DESIGN HOURLY VOLUME (2039) ___ 710
DIRECTIONAL DISTRIBUTION _____ 56%
TRUCKS (24 HOUR B&C) _____ 4%
DESIGN SPEED _____ 55 MPH
LEGAL SPEED _____ 55 MPH
FUNCTIONAL CLASSIFICATION:
URBAN OTHER PRINCIPAL ARTERIAL
NHS PROJECT _____ YES

DESIGN DESIGNATION ERI-2-4.22L&R, 4.24S

CURRENT ADT (2019) _____ 23,000
DESIGN YEAR ADT (2039) _____ 30,000
DESIGN HOURLY VOLUME (2039) ___ 3,600
DIRECTIONAL DISTRIBUTION _____ 56%
TRUCKS (24 HOUR B&C) _____ 10%
DESIGN SPEED _____ 70 MPH
LEGAL SPEED _____ 70 MPH
FUNCTIONAL CLASSIFICATION:
URBAN FREEWAYS & EXPRESSWAYS
NHS PROJECT _____ YES

DESIGN DESIGNATION ERI-2-5.08L&R, 5.29L&R

CURRENT ADT (2019) _____ 23,000
DESIGN YEAR ADT (2039) _____ 30,000
DESIGN HOURLY VOLUME (2039) ___ 2,700
DIRECTIONAL DISTRIBUTION _____ 56%
TRUCKS (24 HOUR B&C) _____ 11%
DESIGN SPEED _____ 70 MPH
LEGAL SPEED _____ 70 MPH
FUNCTIONAL CLASSIFICATION:
URBAN FREEWAYS & EXPRESSWAYS
NHS PROJECT _____ YES

DESIGN DESIGNATION ERI-2-7.11L&R, 7.43L&R

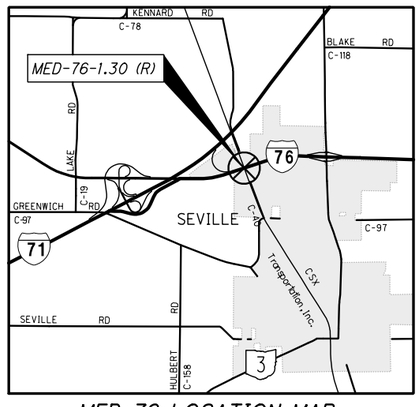
CURRENT ADT (2019) _____ 26,000
DESIGN YEAR ADT (2039) _____ 33,000
DESIGN HOURLY VOLUME (2039) ___ 3,000
DIRECTIONAL DISTRIBUTION _____ 52%
TRUCKS (24 HOUR B&C) _____ 9%
DESIGN SPEED _____ 70 MPH
LEGAL SPEED _____ 70 MPH
FUNCTIONAL CLASSIFICATION:
URBAN FREEWAYS & EXPRESSWAYS
NHS PROJECT _____ YES

DESIGN DESIGNATION ERI-2-9.15L&R, 10.88L&R

CURRENT ADT (2019) _____ 26,000
DESIGN YEAR ADT (2039) _____ 30,000
DESIGN HOURLY VOLUME (2039) ___ 2,700
DIRECTIONAL DISTRIBUTION _____ 50%
TRUCKS (24 HOUR B&C) _____ 10%
DESIGN SPEED _____ 70 MPH
LEGAL SPEED _____ 70 MPH
FUNCTIONAL CLASSIFICATION:
URBAN FREEWAYS & EXPRESSWAYS
NHS PROJECT _____ YES

DESIGN DESIGNATION ERI-2-16.91L&R

CURRENT ADT (2019) _____ 24,000
DESIGN YEAR ADT (2039) _____ 36,000
DESIGN HOURLY VOLUME (2039) ___ 2,600
DIRECTIONAL DISTRIBUTION _____ 51%
TRUCKS (24 HOUR B&C) _____ 14%
DESIGN SPEED _____ 70 MPH
LEGAL SPEED _____ 70 MPH
FUNCTIONAL CLASSIFICATION:
URBAN FREEWAYS & EXPRESSWAYS
NHS PROJECT _____ YES



MED-76 LOCATION MAP

SCALE IN MILES
0 1 2 3 4

PORTION TO BE IMPROVED _____

DESIGN DESIGNATION MED-76-1.30R

CURRENT ADT (2019) _____ 44,000
DESIGN YEAR ADT (2039) _____ 68,000
DESIGN HOURLY VOLUME (2039) ___ 6,800
DIRECTIONAL DISTRIBUTION _____ 51%
TRUCKS (24 HOUR B&C) _____ 31%
DESIGN SPEED _____ 65 MPH
LEGAL SPEED _____ 65 MPH
FUNCTIONAL CLASSIFICATION:
URBAN FREEWAYS & EXPRESSWAYS
NHS PROJECT _____ YES

MED-76-1.30R: LATITUDE: 41°23'52" LONGITUDE: 82°34'30"

CALCULATED ACM
CHECKED KRB

LOCATION MAPS AND DESIGN DESIGNATIONS

ERI/ MED-BH-FY2019

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ERI-2

CABLE
CHARTER COMMUNICATIONS
5520 WHIPPLE AVENUE NW
NORTH CANTON, OHIO 44720
330-494-9200

CABLE
BUCKEYE CABLE SYSTEMS
4818 ANGOLA ROAD
TOLEDO, OHIO 43615
419-724-3768

CITY
CITY OF HURON
417 MAIN STREET
HURON, OHIO 44839
419-433-5000

CITY
CITY OF SANDUSKY
222 MEIGS STREET
SANDUSKY, OHIO 44870
419-627-5844

COMMUNICATION
FRONTIER COM
83 TOWNSEND AVENUE
NORWALK, OHIO 44857
419-744-3613

COMMUNICATION
EVERSTREAM SOLUTIONS
800 W ST CLAIR, 2ND FLOOR
CLEVELAND, OHIO 44113
216-581-7972

COMMUNICATION
AT&T OHIO
130 N ERIE STREET
TOLEDO, OHIO 43604
419-245-7244

COUNTY
ERIE COUNTY ENGINEERS
2700 COLUMBUS AVENUE
SANDUSKY, OHIO 44870
419-627-7710

COUNTY
ERIE COUNTY SEWER
554 RIVER ROAD
HURON, OHIO 44839
419-433-7303

ELECTRIC
OHIO EDISON
1717 ASHLAND ROAD
MANSFIELD, OHIO 44905
419-521-6213

GAS
COLUMBIA GAS OF OHIO
1800 BROAD AVENUE
FINDLAY, OHIO 45840
419-427-3225

WATER
ERIE COUNTY WATER
2614 COLUMBUS AVENUE
SANDUSKY, OHIO 44870
419-627-7666

MED-76

VILLAGE
VILLAGE OF SEVILLE
120 ROYAL CREST DRIVE
SEVILLE, OHIO 44273
330-769-3510

GAS
ASPIRE ENERGY
300 TRACY BRIDGE ROAD
ORRVILLE, OHIO 44667
330-682-7726

GAS
COLUMBIA GAS OF OHIO
780 FRY ROAD
MIDDLEBURG HEIGHTS, OHIO 44130
440-891-2428

COMMUNICATION
FRONTIER COM
83 TOWNSEND AVENUE
NORWALK, OHIO 44857
419-744-3613

COMMUNICATION
VERIZON BUSINESS
120 RAVINE STREET
AKRON, OHIO 44303
330-253-8267

TRAFFIC
ODOT DISTRICT THREE
906 CLARK AVENUE
ASHLAND, OHIO 44805
419-207-7045

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

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.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICE (PIO) BY EMAIL AT D03.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION BY FAX AT (614) 887-4318 OR EMAIL AT LOUIS.TUMBLIN@DOT.OHIO.GOV

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES.

EXISTING PLANS

EXISTING PLANS ENTITLED MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND:

PLAN NAME	DATE
ERI-2-2.866	1999
ERI-2-12.558	2000
ERI-2-16.13	1986
ERI-2-16.13	2006
MED-76-0.61	1994

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.

DESIGN DATA

-CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4,500 PSI
-REINFORCED STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI.

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE 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.

DECK PROTECTION METHOD

ERI-2-16.91L&R, ERI-6-16.60, MED-76-1.30R:

THIN POLYMER EPOXY OVERLAY. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

NO DECK PROTECTION METHOD ON ALL OTHER STRUCTURES.

PLACEMENT OF ADJACENT CONCRETE POURS

DO NOT PLACE ADJACENT CONCRETE POURS SIMULTANEOUSLY. ALLOW SUFFICIENT TIME FOR THE FIRST POUR TO CURE BEFORE 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.

ITEM 519 - 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.

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 202 - REMOVAL MISC.: JOINT SEAL

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 511 - CLASS QC2 CONCRETE, MISC.: BACKWALL REPAIR
ITEM 511 - CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR

USE EACH ITEM AT THE LOCATIONS INDICATED IN THE PLANS.

USE LIMESTONE AS THE COARSE AGGREGATE.

CLEAN ALL EXISTING SURFACES TO WHICH THE CONCRETE IS TO BOND TO USING ABRASIVE BLASTING. ENSURE THESE SURFACES ARE FREE OF SPALLS, LAITANCE, AND OTHER CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

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

ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN

THIS ITEM SHALL BE USED TO SEAL CRACKS ON CONCRETE APPROACH SLABS AT THE LOCATIONS INDICATED IN THE PLANS.

FIELD VERIFY THE LOCATION OF ALL CRACKS AND OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO BEGINNING WORK. AN ESTIMATED LENGTH HAS BEEN USED FOR ESTIMATING PURPOSES ONLY.

PREPARE THE AREA TO BE TREATED WITH GRAVITY FED RESIN AS PER C&MS 512. PREPARE A SECTION SIX INCHES OUTSIDE OF THE AREAS TO BE TREATED ON ALL SIDES. THE AREAS TO BE TREATED WITH GRAVITY FED RESIN ARE VARIOUS CRACKS ON THE APPROACH SLAB OF VARYING LENGTH. TREAT EACH CRACK USING GRAVITY FED RESIN WITH A TWELVE INCH STRIP OF MATERIAL, CENTERED ON THE CRACK.

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.

ITEM 858 - THIN POLYMER EPOXY OVERLAY

USE THIS ITEM AT THE LOCATIONS INDICATED IN THE PLANS. THIS ITEM SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 858 FOR THIN POLYMER EPOXY OVERLAY.

USE LIMESTONE AS THE COARSE AGGREGATE.

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.

CALCULATED ACM
CHECKED KRB

GENERAL NOTES

ERI/MED-BH-FY2019

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 BANK; SHELVING; CHANGES IN THE CHARACTER OF THE SOIL; DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPROPRIATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

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

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

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 - MAINTAINING TRAFFIC

ONE 11' LANE OF TRAFFIC IN EACH DIRECTION 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 AND MATERIALS 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.

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PAVEMENT THROUGHOUT THE PROJECT UNDER ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC DURING THE PERIOD FROM THE START OF WORK TO THE COMPLETION OF ALL WORK.

ITEM 614 - MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ERI-2-4.24 - ON U.S. 6 JUST WEST OF RAMP D
ERI-6-16.60 - AT BEGINNING OF EASTBOUND OFF RAMP

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.

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.

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.

WORKING HOURS RESTRICTION

STATE ROUTE 2 AND INTERSTATE ROUTE 76 ARE RESTRICTED LANE CLOSURE ROUTES DUE TO HIGH TRAFFIC VOLUMES. DURING THE PROJECT DURATION, LANE CLOSURES SHALL BE PERMITTED AS LISTED ON THE ODOT PLCM WEB SITE AT http://plcm.dot.state.oh.us.

COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. ERI-6-0.00 IS A RESURFACING PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2019 CONSTRUCTION SEASON. MED-76-0.73 IS A RESURFACING PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2019 CONSTRUCTION SEASON. D03-BH-FY2019(A) IS A BRIDGE REPAIR PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2019 CONSTRUCTION SEASON. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

BUTT JOINTS

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS SHALL BE ERECTED AND MAINTAINED DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. THESE SIGNS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 - REPLACEMENT SIGN

FLAT SHEET 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 SIGN, AND PROVIDING AND MAINTAINING THE REPLACEMENT SIGN IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL SIGN.

ITEM 614 - REPLACEMENT DRUM

DRUMS 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 DRUMS SHALL BE NEW.

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 DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

TEMPORARY WEDGES AT END OF RAMPS, PAVEMENT LAYER ENDS, APPROACH SLABS OR BRIDGE DECKS ARE TO BE CONSTRUCTED AS PER STANDARD DRAWING BP-3.1.

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.

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.

CALCULATED ACM CHECKED KRB

GENERAL NOTES

ERI/MED-BH-FY2019

ITEM 614 - 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/BR)

ITEM 614 - WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).

2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703- 235-0528.

3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-614-599-7915.

4. OHIO LABORERS TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS, PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTS'S CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7) THE CONTRACTOR MAY DESIGNATE AN ALTERNATE WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY. EACH WTS SHALL HAVE A CURRENT WTS CERTIFICATION (WITH AN EXPIRATION DATE NO MORE THAN 5 YEARS FROM THE DATE OF ISSUE) FROM ANY OF THE APPROVED ORGANIZATIONS.

THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES.

2. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.

3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.

4. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.

5. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). A WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEO'S WHILE THEY ARE ON THE PROJECT.

6. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEO'S AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.

7. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.

8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.

9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, A WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

A. INITIAL TRAFFIC CONTROL SETUP (DAY AND NIGHT REVIEW).
B. DAILY TRAFFIC CONTROL SETUP AND REMOVAL.
C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TRAFFIC CONTROL SETUP.
D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA.
E. REMOVAL OF TRAFFIC CONTROL DEVICES AT THE END OF A PHASE OR PROJECT.
F. ALL OTHER EMERGENCY TRAFFIC CONTROL NEEDS.

10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN # 9 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC CONTROL MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THIS DOCUMENT CAN BE FOUND IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.

11. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ITEM 614 - WORKSITE TRAFFIC SUPERVISOR (CONT.)

12. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL NOT PAY THE UNIT PRICE BID FOR THE WTS FOR ANY DAY ON WHICH THE CONTRACTOR FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTOR'S NEXT SCHEDULED ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR, THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR THE WORKSITE TRAFFIC SUPERVISOR:

ITEM 614 - WORKSITE TRAFFIC SUPERVISOR
3 MONTHS 01/NHS/BR
1 MONTH 02/IMS/BR

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

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 (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S 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.

LEO'S 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:

STATE HIGHWAY PATROL
ERIE COUNTY POST
511 FREMONT AVENUE
SANDUSKY, OH 44870
419-625-6565

STATE HIGHWAY PATROL
MEDINA COUNTY POST
3149 FRANTZ ROAD
MEDINA, OH 44256
330-725-4921

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
80 HOURS 01/NHS/BR
32 HOURS 02/IMS/BR

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

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S 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(S) ON SITE FOR THE DURATION OF THE PROJECT. THE SIGN(S) 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 WEB SITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT AND 475 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(S) 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, OPERATIONS, MAINTENANCE, AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AD 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 TO FACE AWAY FROM TRAFFIC AND SHALL DISPLAY A MINIMUM OF ONE YELLOW RETROREFLECTIVE SHEETING SURFACE, A MINIMUM OF 9 INCHES BY 15 INCHES IN 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.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED 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 SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL, IN ACTIVE CELLULAR PHONE AREAS, ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS, AND REVISION TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA LINK INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

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

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

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. 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
5 SIGN-MONTH 01/NHS/BR
1 SIGN-MONTH 02/IMS/BR

CALCULATED ACM CHECKED KRB

GENERAL NOTES

ERI/ MED-BH-FY2019

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. NOTIFICATIONS SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS. UPON RECEIPT OF NOTIFICATION BY THE CONTRACTOR, THE PROJECT ENGINEER WILL ARRANGE NOTIFICATION OF THE FOLLOWING ORGANIZATIONS, IN WRITING, IN ACCORDANCE WITH THE BELOW TABLE:

ERIE COUNTY ENGINEER'S OFFICE
CITY OF SANDUSKY
MARGARETTA TOWNSHIP TRUSTEES
LOCAL POLICE, FIRE, AND EMERGENCY MEDICAL SERVICES
LOCAL SCHOOL DISTRICTS
ERIE COUNTY SHERIFF'S OFFICE
ODOT DISTRICT THREE OFFICE OF ROADWAY SERVICES
ODOT DISTRICT THREE PUBLIC INFORMATION OFFICE
SPECIAL HAULING PERMITS SECTION (Hauling.Permits@dot.ohio.gov)

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.

ITEM 614 - MAINTENANCE OF TRAFFIC (NOTICE OF CLOSURE SIGNS)

NOTICE OF CLOSURE SIGNS (W20-H13) 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 FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN ONE WEEK.

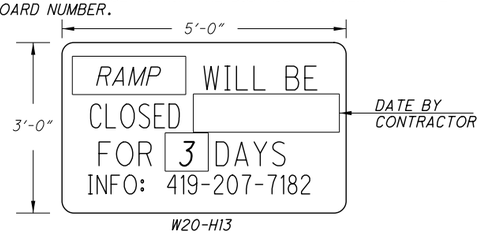
THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THR ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG 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/OR ROAD CLOSURES	TWO WEEKS OR GREATER	14 CALENDAR DAYS
	12 HOURS TO TWO WEEKS	7 CALENDAR DAYS
	12 HOURS OR LESS	2 BUSINESS DAYS

* - PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

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-H13 SIGN LISTS A PHONE NUMBER WHICH MOTORISTS MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.



ITEM 614 - MAINTAINING TRAFFIC

DETOUR LIMITATION:
TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED THREE (3) CONSECUTIVE CALENDAR DAYS. THROUGH TRAFFIC WILL BE DETOURED AS SHOWN ON THIS SHEET.

THE CONTRACTOR WILL INSTALL, MAINTAIN, AND SUBSEQUENTLY REMOVE THE DETOUR SIGNING.

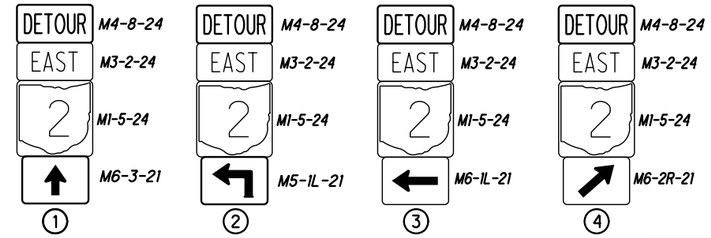
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE APPROXIMATE WORK LIMITS OF THE PROJECT, AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

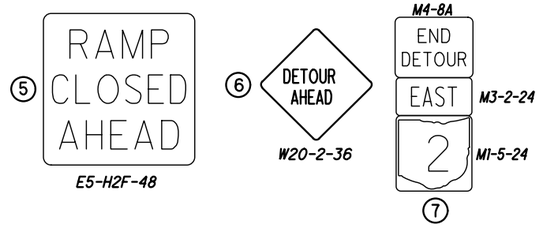
INTERIM COMPLETION DATE:
THE THREE (3) CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AN INTERIM COMPLETION DATE, AND FOR EACH CALENDAR DAY BEYOND THE THREE (3) CONSECUTIVE CALENDAR DAYS THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH THE TRAFFIC ENGINEERING MANUAL.

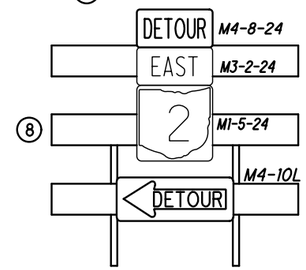
ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, AS PER SECTION 614.02 (A).

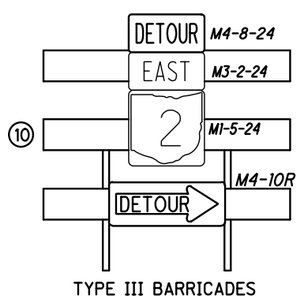
ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATION, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING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

SIGN LEGEND

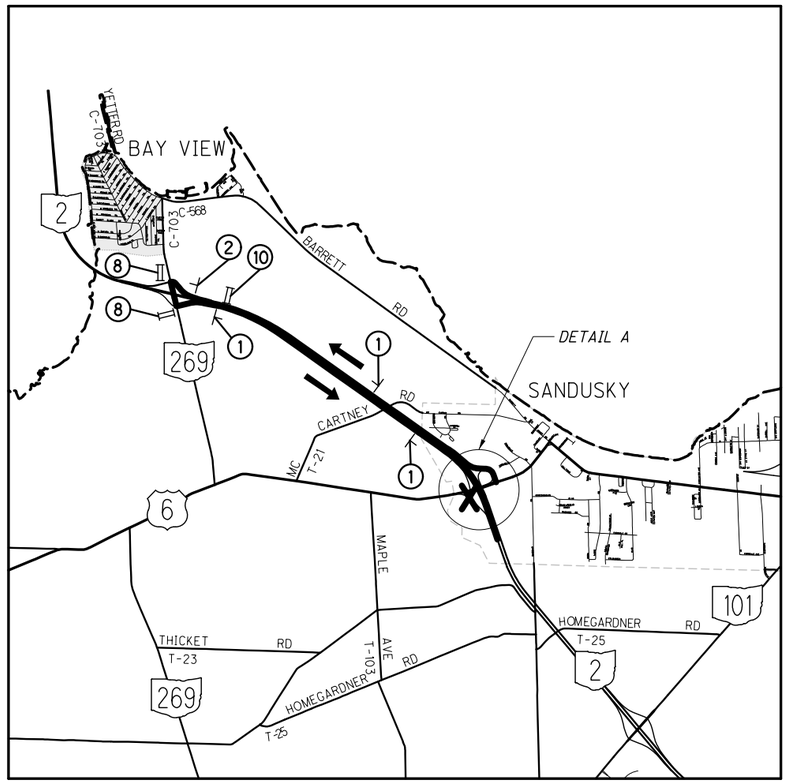








ERI-2 & ERI-6 INTERCHANGE RAMP D DETOUR MAP

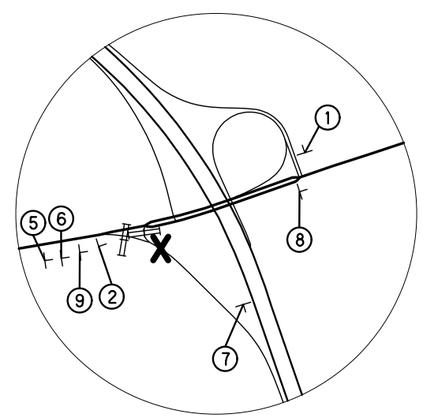


MAP LEGEND

X - PROJECT LOCATION
⇄ - OFFICIAL STATE SIGNED DETOUR
‖ - GATES AND BARRICADES, AS PER MT-101.60

SCALE IN MILES
0 ½ 1 1½ 2

N



DETAIL A

CALCULATED ACM
CHECKED KRB

DETOUR PLAN
ERI-2 & ERI-6 INTERCHANGE RAMP D
ERI/ MED-BH-FY2019

6
21

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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. NOTIFICATIONS SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS. UPON RECEIPT OF NOTIFICATION BY THE CONTRACTOR, THE PROJECT ENGINEER WILL ARRANGE NOTIFICATION OF THE FOLLOWING ORGANIZATIONS, IN WRITING, IN ACCORDANCE WITH THE BELOW TABLE:

ERIE COUNTY ENGINEER'S OFFICE
CITY OF HURON
HURON TOWNSHIP TRUSTEES
LOCAL POLICE, FIRE, AND EMERGENCY MEDICAL SERVICES
LOCAL SCHOOL DISTRICTS
ERIE COUNTY SHERIFF'S OFFICE
ODOT DISTRICT THREE OFFICE OF ROADWAY SERVICES
ODOT DISTRICT THREE PUBLIC INFORMATION OFFICE
SPECIAL HAULING PERMITS SECTION (Hauling.Permits@dot.ohio.gov)

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.

ITEM 614 - MAINTENANCE OF TRAFFIC (NOTICE OF CLOSURE SIGNS)

NOTICE OF CLOSURE SIGNS (W20-H13) 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 FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN ONE WEEK.

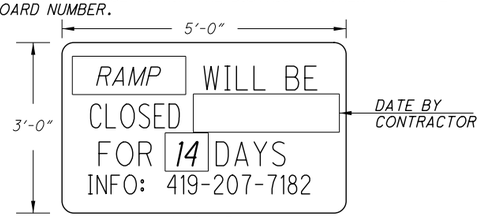
THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THR ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG 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/OR ROAD CLOSURES	TWO WEEKS OR GREATER	14 CALENDAR DAYS
	12 HOURS TO TWO WEEKS	7 CALENDAR DAYS
	12 HOURS OR LESS	2 BUSINESS DAYS

* - PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

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-H13 SIGN LISTS A PHONE NUMBER WHICH MOTORISTS MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.



W20-H13

ITEM 614 - MAINTAINING TRAFFIC

DETOUR LIMITATION:
TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED FOURTEEN (14) CONSECUTIVE CALENDAR DAYS. THROUGH TRAFFIC WILL BE DETOURED AS SHOWN ON THIS SHEET.

THE ERI-6 EASTBOUND OFF RAMP CLOSURE SHALL NOT TAKE PLACE DURING THE HURON RIVER FEST (JULY 12-14, 2019).

THE CONTRACTOR WILL INSTALL, MAINTAIN, AND SUBSEQUENTLY REMOVE THE DETOUR SIGNING.

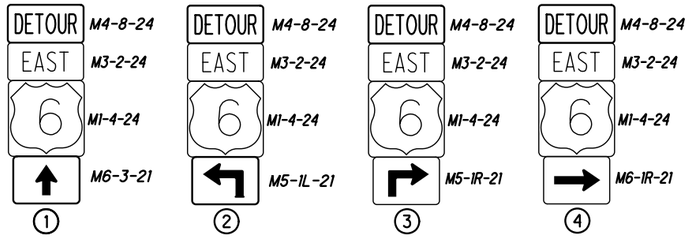
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE APPROXIMATE WORK LIMITS OF THE PROJECT, AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

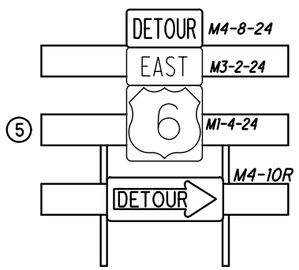
INTERIM COMPLETION DATE:
THE FOURTEEN (14) CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AN INTERIM COMPLETION DATE, AND FOR EACH CALENDAR DAY BEYOND THE FOURTEEN (14) CONSECUTIVE CALENDAR DAYS THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH THE TRAFFIC ENGINEERING MANUAL.

ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, AS PER SECTION 614.02 (A).

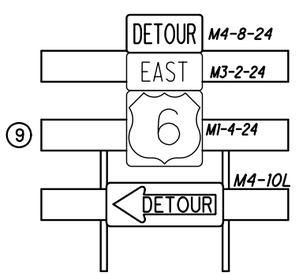
ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATION, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING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

SIGN LEGEND

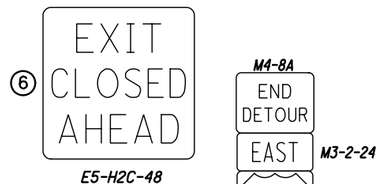


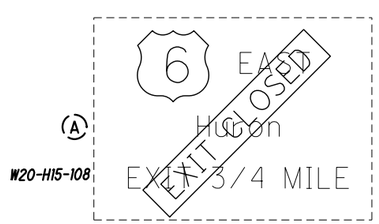


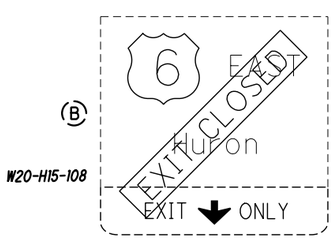
TYPE III BARRICADES

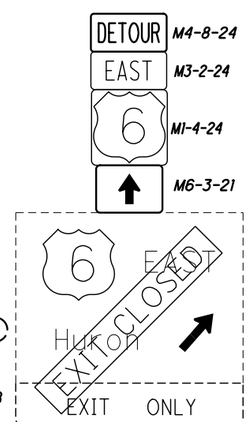


TYPE III BARRICADES

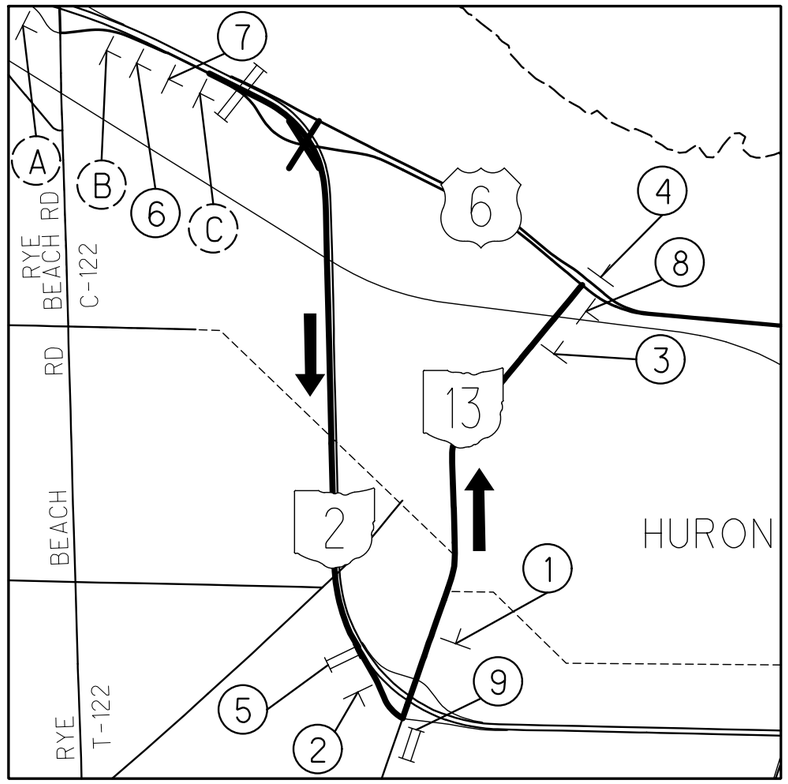








ERI-2 & ERI-6 EASTBOUND OFF RAMP DETOUR MAP



MAP LEGEND

- PROJECT LOCATION
- OFFICIAL STATE SIGNED DETOUR
- GATES AND BARRICADES, AS PER MT-101.60

SCALE IN MILES
0 1/4 1/2 3/4 1

N

CALCULATED ACM
CHECKED KRB

DETOUR PLAN
ERI-2 & ERI-6 EASTBOUND OFF RAMP
ERI/ MED-BH-FY2019

7
21

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	11	12	13	14	15	16	17	18	19	20	21	01/NHS/BR	02/IMS/BR						
																		TRAFFIC CONTROL	
	0.22	0.03	0.2	0.26	0.44	0.14	0.1	0.18	0.18	0.14	0.09	1.89	0.09	646	10010	1.98	MILE	EDGE LINE, 6"	
	0.13		0.1	0.12	0.22	0.06	0.04	0.1	0.1		0.05	0.87	0.05	646	10110	0.92	MILE	LANE LINE, 6"	
	480											480		646	10310	480	FT	CHANNELIZING LINE, 12"	
	168											168		646	10600	168	FT	TRANSVERSE/DIAGONAL LINE	
																		STRUCTURE REPAIR (ERI-2-0422L SFN 2200244)	
	213											213		202	98200	213	FT	REMOVAL MISC.: JOINT SEAL	3
	1,642											1,642		512	73500	1,642	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
	6											6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
	213											213		516	31000	213	FT	JOINT SEALER	
	1											1		519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (ERI-2-0422R SFN 2200279)	
	151											151		202	98200	151	FT	REMOVAL MISC.: JOINT SEAL	3
	1,225											1,225		512	73500	1,225	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
	6											6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
	151											151		516	31000	151	FT	JOINT SEALER	
																		STRUCTURE REPAIR ERI-2-0424S SFN 2200309)	
		68										68		202	98200	68	FT	REMOVAL MISC.: JOINT SEAL	3
		283										283		512	73500	283	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
		68										68		516	31000	68	FT	JOINT SEALER	
		2										2		519	12300	2	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (ERI-2-0508L SFN 2200333)	
			260									260		202	98200	260	FT	REMOVAL MISC.: JOINT SEAL	3
			1,003									1,003		512	73500	1,003	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
			6									6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
			260									260		516	31000	260	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-0508R SFN 2200368)	
			260									260		202	98200	260	FT	REMOVAL MISC.: JOINT SEAL	3
			1,003									1,003		512	73500	1,003	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
			6									6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
			260									260		516	31000	260	FT	JOINT SEALER	
				163								163		202	98200	163	FT	REMOVAL MISC.: JOINT SEAL	3
				1,386								1,386		512	73500	1,386	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
				6								6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
				163								163		516	31000	163	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-0529R SFN 2200422)	
				163								163		202	98200	163	FT	REMOVAL MISC.: JOINT SEAL	3
				1,386								1,386		512	73500	1,386	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
				6								6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
				163								163		516	31000	163	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-0711L SFN 2200481)	
					157							157		202	98200	157	FT	REMOVAL MISC.: JOINT SEAL	3
					2,477							2,477		512	73500	2,477	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
					6							6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
					157							157		516	31000	157	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-0711R SFN 2200511)	
					157							157		202	98200	157	FT	REMOVAL MISC.: JOINT SEAL	3
					2,477							2,477		512	73500	2,477	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
					6							6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
					157							157		516	31000	157	FT	JOINT SEALER	
					4							4		519	12300	4	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (ERI-2-0743L SFN 2200546)	
							161					161		202	98200	161	FT	REMOVAL MISC.: JOINT SEAL	3
							658					658		512	73500	658	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
							6					6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
							161					161		516	31000	161	FT	JOINT SEALER	

CALCULATED ACM
CHECKED KRB

GENERAL SUMMARY

ERI/ MED-BH-FY2019

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	11	12	13	14	15	16	17	18	19	20	21	01/NHS/BR	02/IMS/BR						
																		STRUCTURE REPAIR (ERI-2-0743R SFN 2200570)	
						161						161		202	98200	161	FT	REMOVAL MISC.: JOINT SEAL	3
						658						658		512	73500	658	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
						6						6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
						161						161		516	31000	161	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-0915L SFN 2200635)	
							83					83		202	98200	83	FT	REMOVAL MISC.: JOINT SEAL	3
							355					355		512	73500	355	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
							8					8		512	73501	8	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
							83					83		516	31000	83	FT	JOINT SEALER	
							1					1		519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
																		STRUCTURE REPAIR (ERI-2-0915R SFN 2200694)	
							83					83		202	98200	83	FT	REMOVAL MISC.: JOINT SEAL	3
							355					355		512	73500	355	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
							6					6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
							83					83		516	31000	83	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-1088L SFN 2200848)	
								90				90		202	98200	90	FT	REMOVAL MISC.: JOINT SEAL	3
								956				956		512	73500	956	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								8				8		512	73501	8	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
								90				90		516	31000	90	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-1088R SFN 2200872)	
								5				5		202	11301	5	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	3
								90				90		202	98200	90	FT	REMOVAL MISC.: JOINT SEAL	3
								5				5		511	53012	5	CY	CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR	3
								956				956		512	73500	956	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								6				6		512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN	3
								90				90		516	31000	90	FT	JOINT SEALER	
																		STRUCTURE REPAIR (ERI-2-1691L SFN 2201208)	
									80			80		202	98200	80	FT	REMOVAL MISC.: JOINT SEAL	3
									50			50		512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION	
									80			80		516	31000	80	FT	JOINT SEALER	
									1			1		519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
									660			660		858	10000	660	SY	THIN POLYMER EPOXY OVERLAY	
																		STRUCTURE REPAIR (ERI-2-1691R SFN 2201216)	
									1			1		202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	3
									80			80		202	98200	80	FT	REMOVAL MISC.: JOINT SEAL	3
									1			1		511	53012	1	CY	CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR	3
									50			50		512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION	
									80			80		516	31000	80	FT	JOINT SEALER	
									1			1		519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
									660			660		858	10000	660	SY	THIN POLYMER EPOXY OVERLAY	
																		STRUCTURE REPAIR (ERI-6-1660 SFN 2201860)	
										2		2		202	11301	2	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	3
										143		143		202	98200	143	FT	REMOVAL MISC.: JOINT SEAL	3
										1		1		511	53012	1	CY	CLASS QC2 CONCRETE, MISC.: BACKWALL REPAIR	3
										1		1		511	53012	1	CY	CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR	3
										50		50		512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION	
										143		143		516	31000	143	FT	JOINT SEALER	
										1,147		1,147		858	10000	1,147	SY	THIN POLYMER EPOXY OVERLAY	
																		STRUCTURE REPAIR (MED-76-0130R SFN 5204437)	
											80		80	202	98200	80	FT	REMOVAL MISC.: JOINT SEAL	3
											50		50	512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION	
											80		80	516	31000	80	FT	JOINT SEALER	
											19		19	519	12300	19	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
											1,042		1,042	858	10000	1,042	SY	THIN POLYMER EPOXY OVERLAY	

CALCULATED ACM
CHECKED KRB

GENERAL SUMMARY

ERI/ MED-BH-FY2019

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	11	12	13	14	15	16	17	18	19	20	21	01/NHS/BR	02/IMS/BR						
																		MAINTENANCE OF TRAFFIC	
112												80	32	614	11110	112	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
4												3	1	614	11500	4	MNTH	WORKSITE TRAFFIC SUPERVISOR	
LS												LS		614	12420	LS		DETOUR SIGNING	
6												5	1	614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	5
																		INCIDENTALS	
												LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
												3	1	619	16010	4	MNTH	FIELD OFFICE, TYPE B	
												LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	LS	624	10000	LS		MOBILIZATION	

CALCULATED ACM
CHECKED KRB

GENERAL SUMMARY

ERI/ MED-BH-FY2019

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EXISTING STRUCTURES

TYPE: 4 SPAN CONTINUOUS STEEL BEAMS

SPANS: 56'-0"±, 80'-0"±, 65'-0"±, 45'-0"± C/C BEARINGS (BOTH STRUCTURES)

ROADWAY: LEFT - VARIES F/F CURBS
RIGHT - 36'-0" F/F PARAPETS

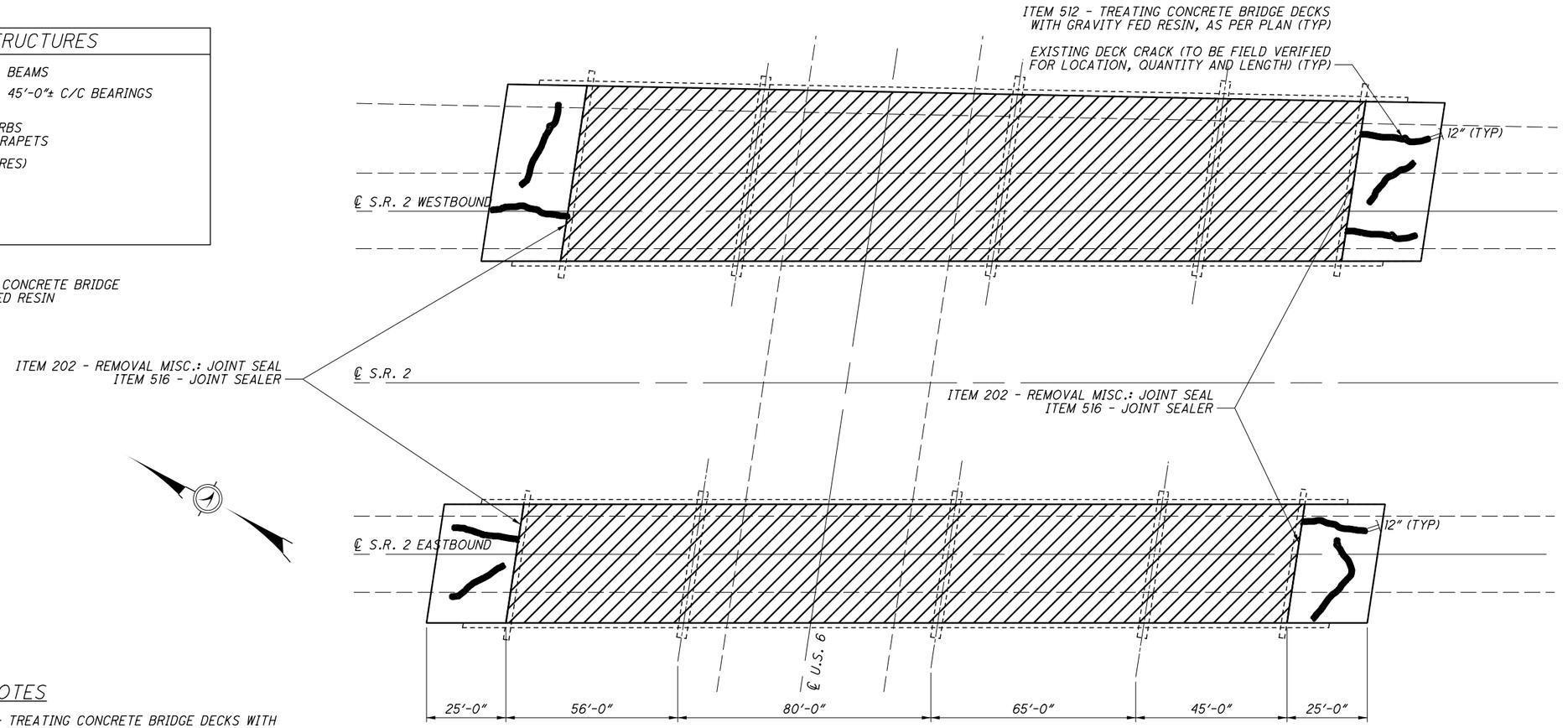
LENGTH: 250'-6"± (BOTH STRUCTURES)

SKEW: 8°36'11"± L.F.

ALIGNMENT: TANGENT

DATE BUILT: 1961

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN



NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

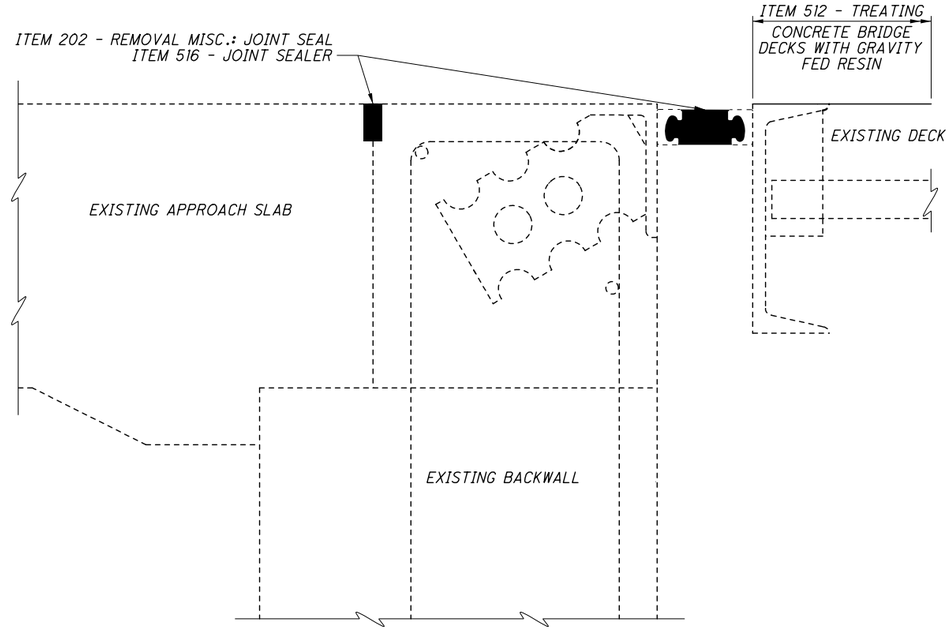
ESTIMATED QUANTITIES ERI-2-0422R (SFN: 2200279)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	151	FT	REMOVAL MISC.: JOINT SEAL
512	73500	1225	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	151	FT	JOINT SEALER
646	10010	0.11	MILE	EDGE LINE, 6"
646	10110	0.06	MILE	LANE LINE, 6"

ESTIMATED QUANTITIES ERI-2-0422L (SFN: 2200244)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	213	FT	REMOVAL MISC.: JOINT SEAL
512	73500	1642	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	213	FT	JOINT SEALER
519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.11	MILE	EDGE LINE, 6"
646	10110	0.07	MILE	LANE LINE, 6"
646	10310	480	FT	CHANNELIZING LINE, 12"
646	10600	168	FT	TRANSVERSE/DIAGONAL LINE

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		2200279/2200244	

STRUCTURE DETAILS
ERI-2-0422R & ERI-2-0423L
STATE ROUTE 2 OVER US ROUTE 6 AND COLD CREEK

ERI/MED-BH-FY2019
PID No. 94444

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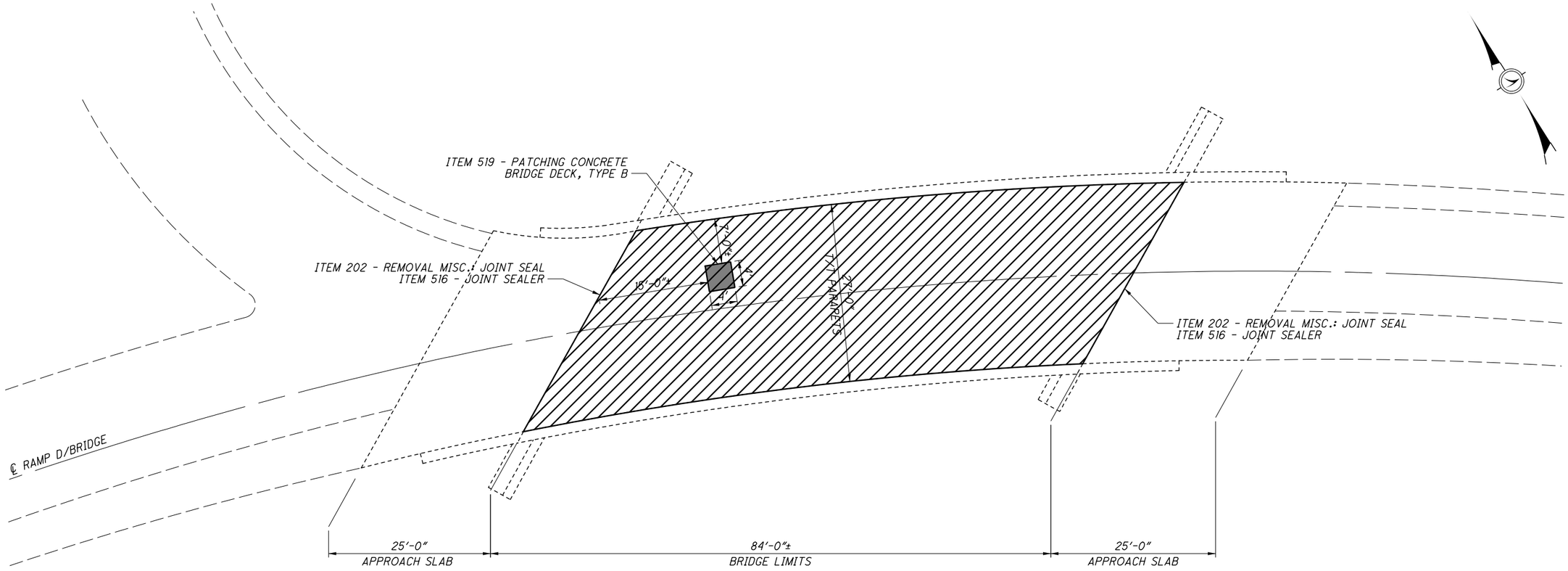


EXISTING STRUCTURE
TYPE: 3 SPAN CONTINUOUS STEEL BEAM
SPANS: 24'-0"±, 30'-0"±, 24'-0"± C/C BEARINGS
ROADWAY: 27'-0" T/T PARAPETS
LENGTH: 84'-0"±
SKEW: 35° L.F.
ALIGNMENT: TANGENT
DATE BUILT: 1962

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN

= ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B

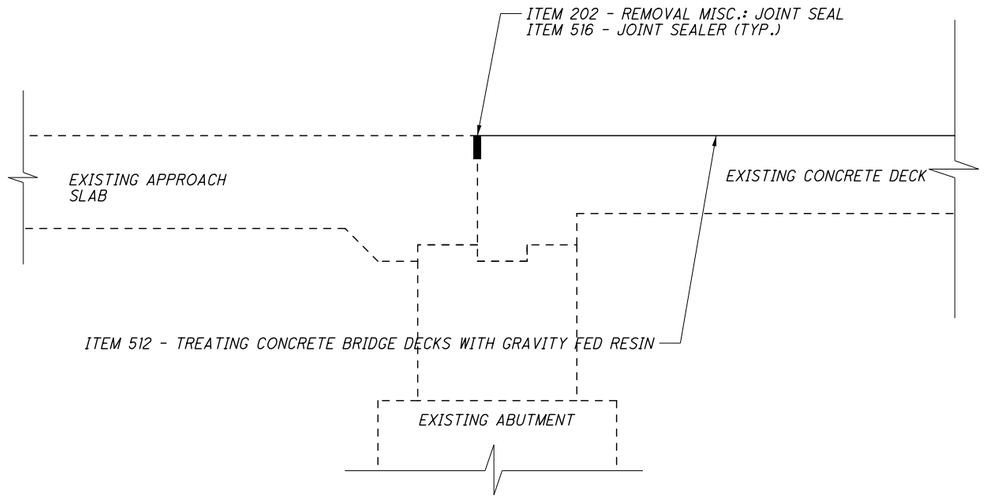
NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

ESTIMATED QUANTITIES ERI-2-0424S (SFN: 2200309)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	68	FT	REMOVAL MISC.: JOINT SEAL
512	73501	283	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
516	31000	68	FT	JOINT SEALER
519	12300	2	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.03	MILE	EDGE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		2200309	

STRUCTURE DETAILS
ERI-2-0424S
RAMP D OVER COLD CREEK

ERI/MED-BH-FY2019
PID No. 94444

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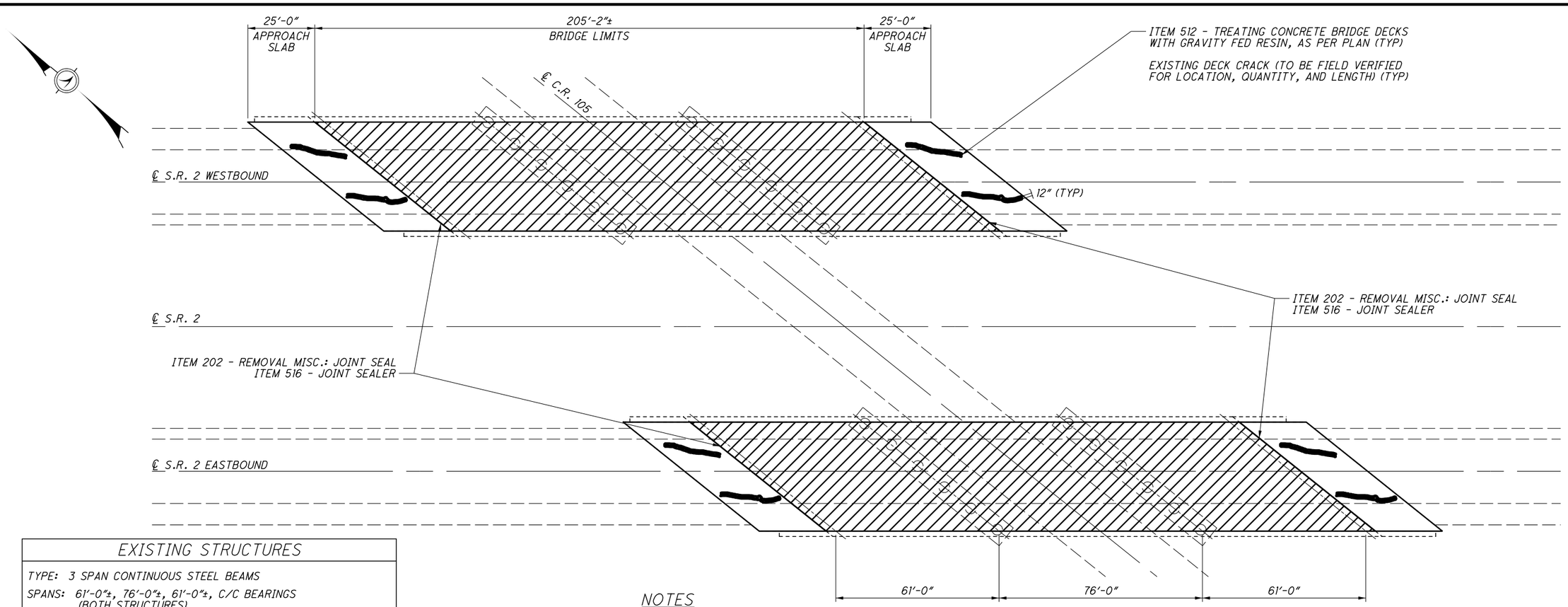


EXISTING STRUCTURES

TYPE: 3 SPAN CONTINUOUS STEEL BEAMS

SPANS: 61'-0"±, 76'-0"±, 61'-0"±, C/C BEARINGS (BOTH STRUCTURES)

ROADWAY: 40'-8" T/T PARAPETS (BOTH STRUCTURES)

LENGTH: 205'-2"± (BOTH STRUCTURES)

SKEW: 51°20'00"± R.F.

ALIGNMENT: TANGENT

DATE BUILT: 1961

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN

NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

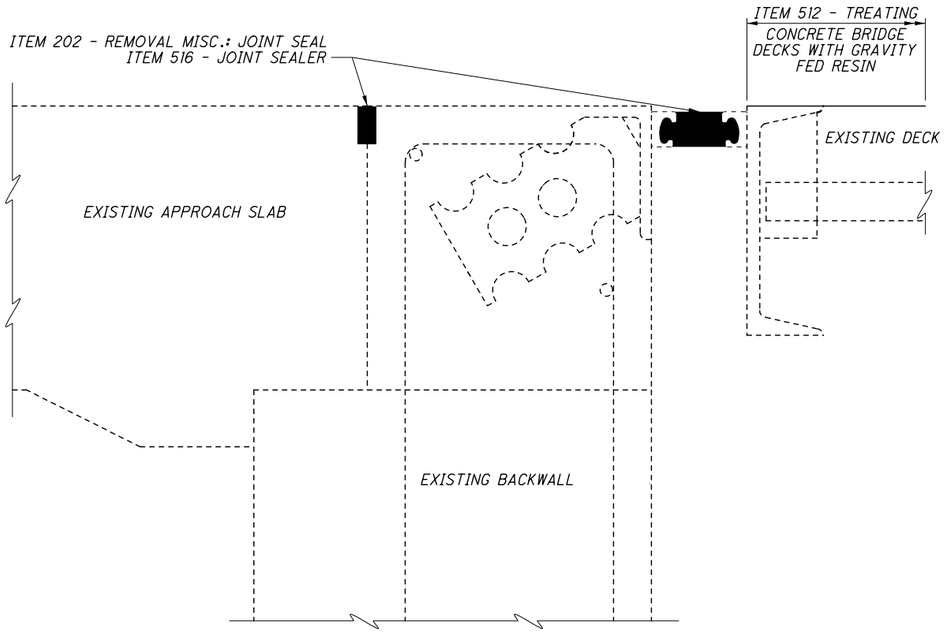
ESTIMATED QUANTITIES ERI-2-0508L (SFN: 2200333)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	260	FT	REMOVAL MISC.: JOINT SEAL
512	73500	1003	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	260	FT	JOINT SEALER
646	10010	0.10	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"

ESTIMATED QUANTITIES ERI-2-0508R (SFN: 2200368)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	260	FT	REMOVAL MISC.: JOINT SEAL
512	73500	1003	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	260	FT	JOINT SEALER
646	10010	0.10	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED ACM | DRAWN ACM | REVIEWED KRB | DATE 10/2018
CHECKED KRB | REVISED | STRUCTURE FILE NUMBER 2200333/2200368

STRUCTURE DETAILS
ERI-2-0508L & ERI-2-0508R
STATE ROUTE 2 OVER BARDSHAR ROAD (COUNTY ROAD 105)

ERI/MED-BH-FY2019
PID No. 94444

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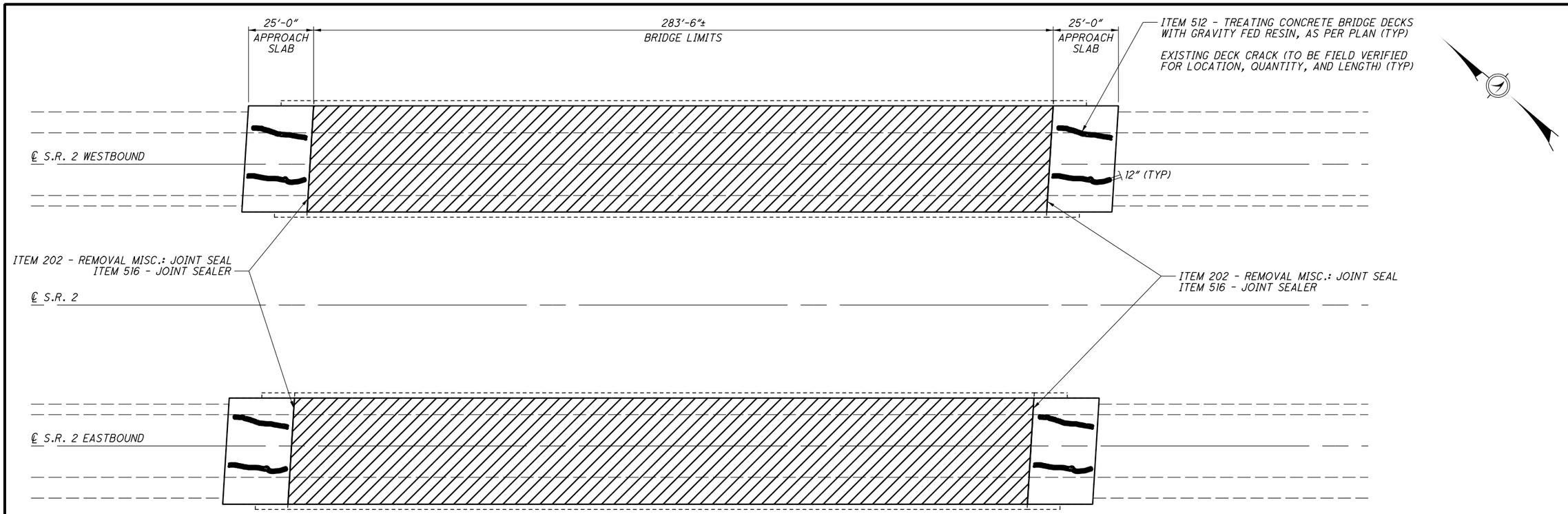


EXISTING STRUCTURES

TYPE: 5 SPAN CONTINUOUS STEEL BEAMS

SPANS: 42'-0"±, 60'-0"±, 60'-0"±, 65'-0"±, 52'-0"± C/C BEARINGS (BOTH STRUCTURES)

ROADWAY: 40'-8" T/T PARAPETS

LENGTH: 283'-6"± (BOTH STRUCTURES)

SKEW: 8°36'11"± L.F.

ALIGNMENT: TANGENT

DATE BUILT: 1961

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN

NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

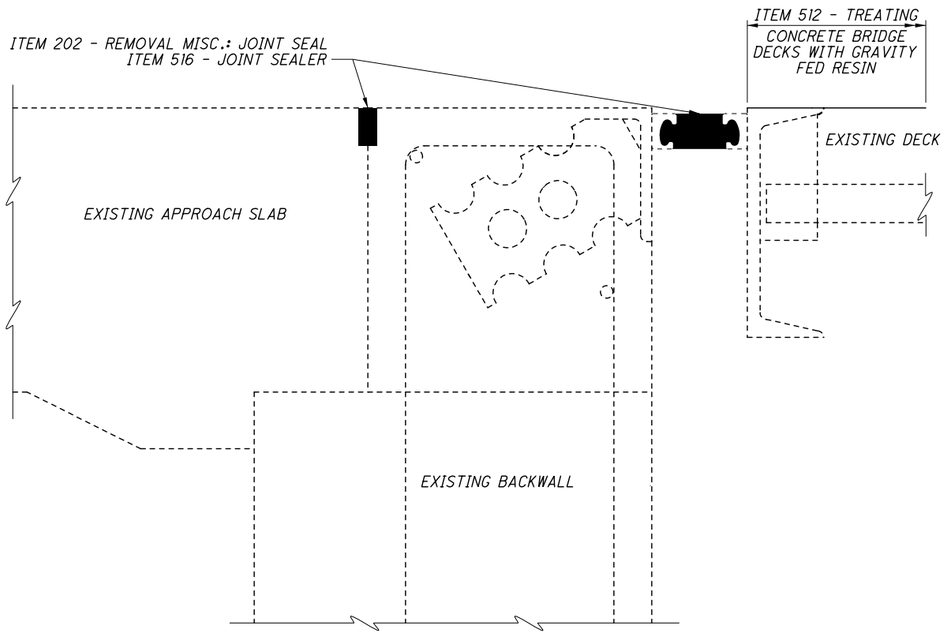
ESTIMATED QUANTITIES ERI-2-0529L (SFN: 2200392)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	163	FT	REMOVAL MISC.: JOINT SEAL
512	73500	1386	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	163	FT	JOINT SEALER
646	10010	0.13	MILE	EDGE LINE, 6"
646	10110	0.06	MILE	LANE LINE, 6"

ESTIMATED QUANTITIES ERI-2-0529R (SFN: 2200422)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	163	FT	REMOVAL MISC.: JOINT SEAL
512	73500	1386	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	163	FT	JOINT SEALER
646	10010	0.13	MILE	EDGE LINE, 6"
646	10110	0.06	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED ACM | DRAWN ACM | REVIEWED KRB | DATE 10/2018
CHECKED KRB | REVISED | STRUCTURE FILE NUMBER 2200392/2200422

STRUCTURE DETAILS
ERI-2-0529L & ERI-2-0529R
STATE ROUTE 2 OVER HOMEGARDNER ROAD (TOWNSHIP ROAD 250) & UNNAMED CREEK

ERI/MED-BH-FY2019
PID No. 94444

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NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN

ESTIMATED QUANTITIES ERI-2-0711L (SFN: 2200481)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	157	FT	REMOVAL MISC.: JOINT SEAL
512	73500	2477	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	157	FT	JOINT SEALER
646	10010	0.22	MILE	EDGE LINE, 6"
646	10110	0.11	MILE	LANE LINE, 6"

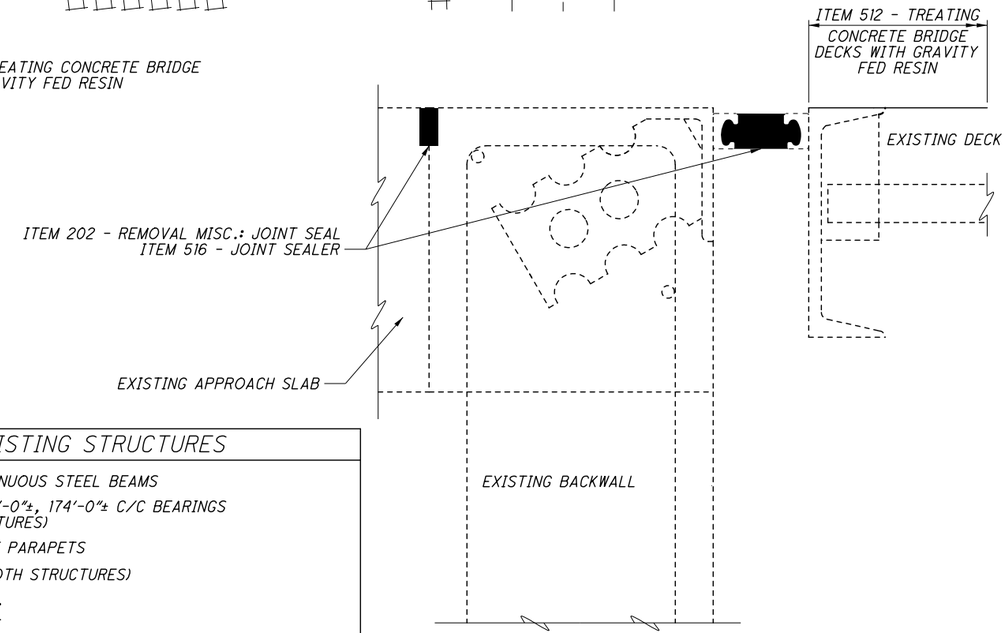
ESTIMATED QUANTITIES ERI-2-0711R (SFN: 2200511)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	157	FT	REMOVAL MISC.: JOINT SEAL
512	73500	2477	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	157	FT	JOINT SEALER
519	12300	4	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.22	MILE	EDGE LINE, 6"
646	10110	0.11	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)

EXISTING STRUCTURES

TYPE: 3 SPAN CONTINUOUS STEEL BEAMS
SPANS: 130'-0"±, 217'-0"±, 174'-0"± C/C BEARINGS (BOTH STRUCTURES)
ROADWAY: 39'-1" T/T PARAPETS
LENGTH: 526'-8"± (BOTH STRUCTURES)
SKEW: 7°00'00"± R.F.
ALIGNMENT: TANGENT
DATE BUILT: 1961



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED ACM | DRAWN ACM | REVIEWED KRB | DATE 10/2018
CHECKED KRB | REVISED | STRUCTURE FILE NUMBER 2200481/2200511

STRUCTURE DETAILS
ERI-2-0711L & ERI-2-0711R
STATE ROUTE 2 OVER NORFOLK SOUTHERN RAILROAD & OLD RAILROAD RD

ERI/MED-BH-FY2019
PID No. 94444

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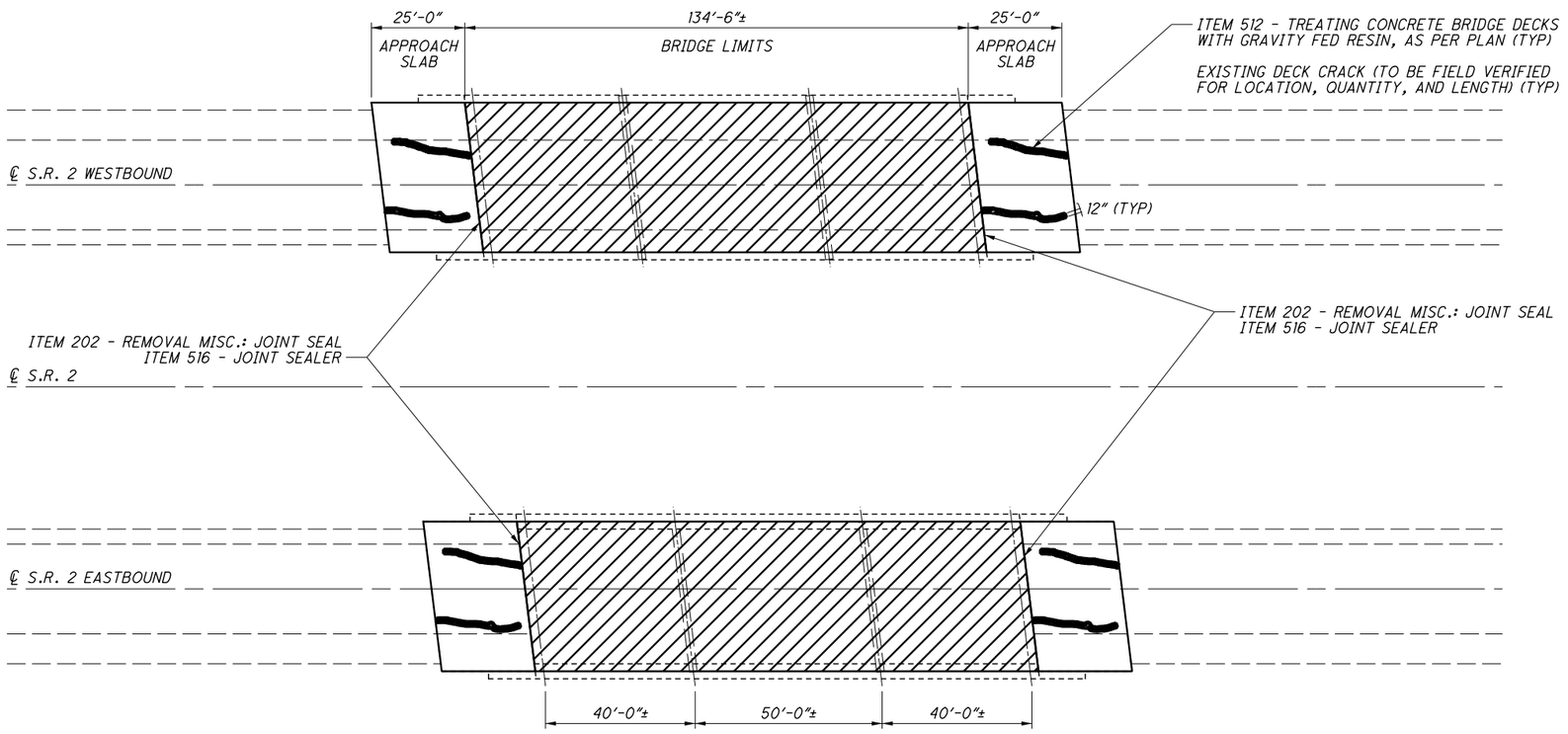
EXISTING STRUCTURES

TYPE: 3 SPAN CONTINUOUS STEEL BEAMS
SPANS: 40'-0"±, 50'-0"±, 40'-0"± C/C BEARINGS (BOTH STRUCTURES)
ROADWAY: 40'-8" T/T PARAPETS
LENGTH: 134'-6"± (BOTH STRUCTURES)
SKEW: 7°00'00"± R.F.
ALIGNMENT: TANGENT
DATE BUILT: 1961

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN



NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

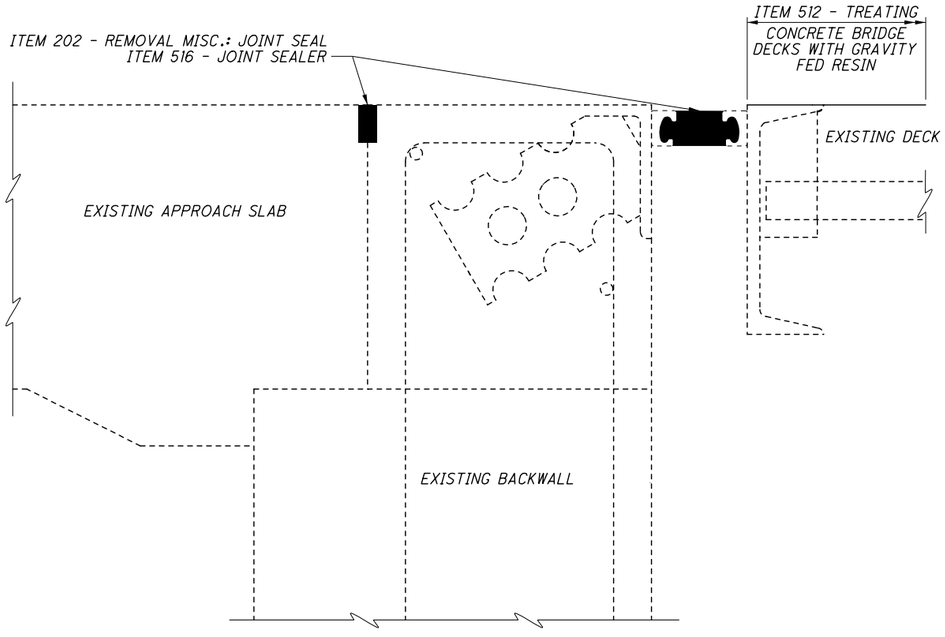
ESTIMATED QUANTITIES ERI-2-0743L (SFN: 2200546)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	161	FT	REMOVAL MISC.: JOINT SEAL
512	73500	658	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	161	FT	JOINT SEALER
646	10010	0.07	MILE	EDGE LINE, 6"
646	10110	0.03	MILE	LANE LINE, 6"

ESTIMATED QUANTITIES ERI-2-0743R (SFN: 2200570)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	161	FT	REMOVAL MISC.: JOINT SEAL
512	73500	658	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	161	FT	JOINT SEALER
646	10010	0.07	MILE	EDGE LINE, 6"
646	10110	0.03	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		2200546/2200570	

STRUCTURE DETAILS
ERI-2-0743L & ERI-2-0743R
STATE ROUTE 2 OVER MILLS CREEK

ERI/MED-BH-FY2019
PID No. 94444

1 / 1

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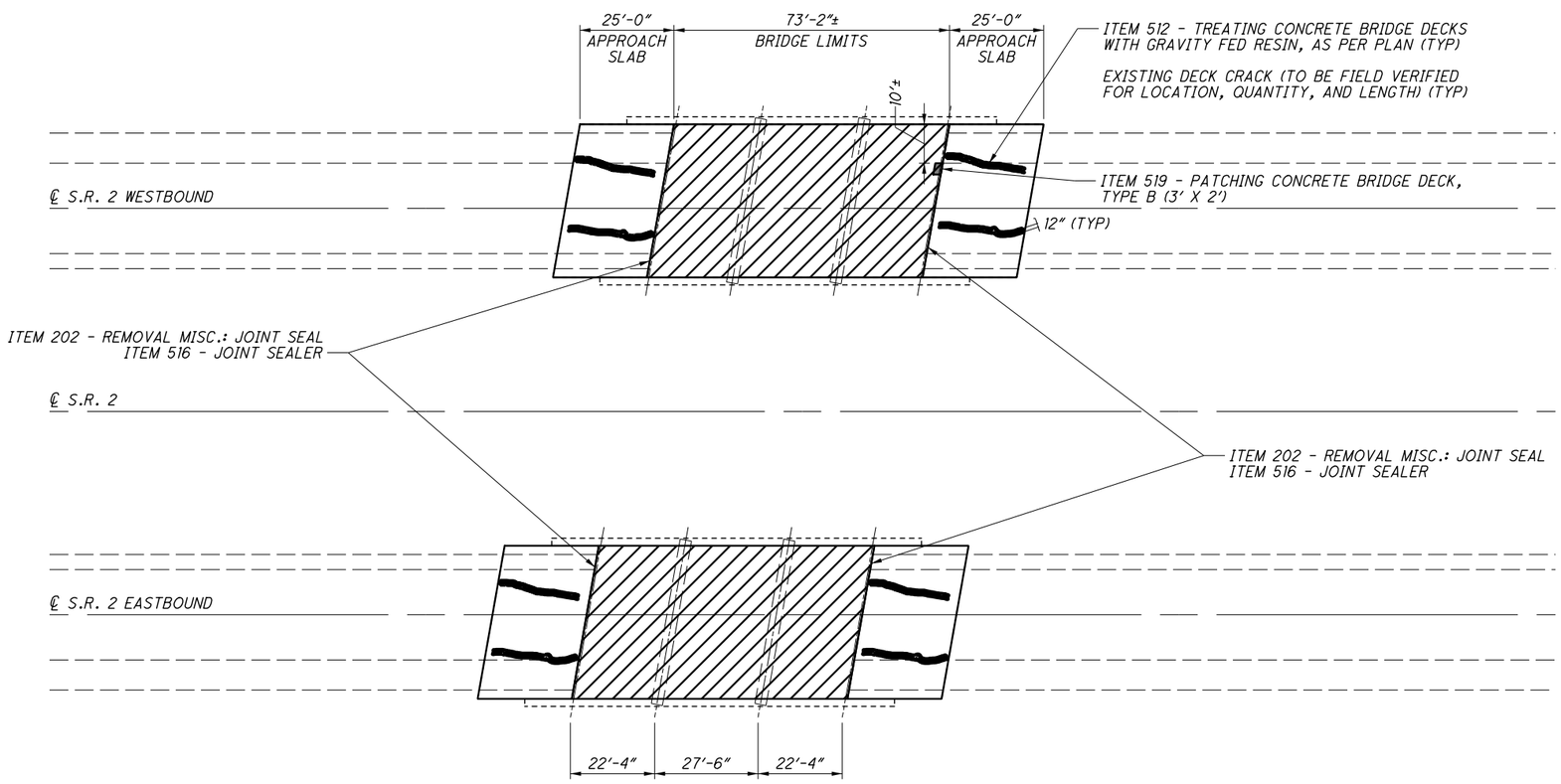
EXISTING STRUCTURES

TYPE: 3 SPAN CONTINUOUS CONCRETE SLAB
SPANS: 22'-4"±, 27'-6"±, 22'-4"± C/C BEARINGS (BOTH STRUCTURES)
ROADWAY: 40'-8" T/T PARAPETS
LENGTH: 73'-2"± (BOTH STRUCTURES)
SKEW: 10°00'00"± L.F.
ALIGNMENT: TANGENT
DATE BUILT: 1961

= ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN

= ITEM 519 - PATCHING CONCRETE STRUCTURE



NOTES

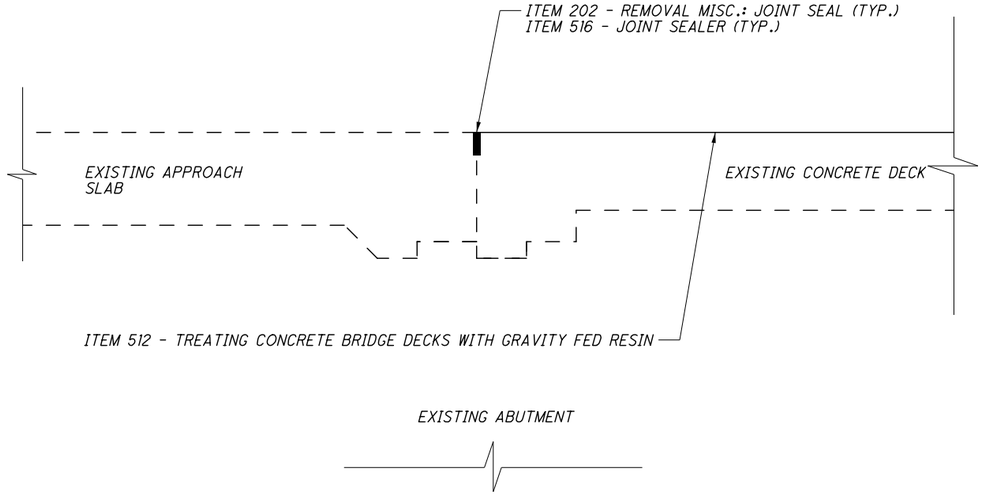
1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

ESTIMATED QUANTITIES ERI-2-0915L (SFN: 2200635)				
ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	83	FT	REMOVAL MISC.: JOINT SEAL
512	73500	355	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	8	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	83	FT	JOINT SEALER
519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.05	MILE	EDGE LINE, 6"
646	10110	0.02	MILE	LANE LINE, 6"

ESTIMATED QUANTITIES ERI-2-0915R (SFN: 2200694)				
ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	83	FT	REMOVAL MISC.: JOINT SEAL
512	73500	355	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	83	FT	JOINT SEALER
646	10010	0.05	MILE	EDGE LINE, 6"
646	10110	0.02	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		2200635/2200694	

STRUCTURE DETAILS
ERI-2-0915L & ERI-2-0915R
STATE ROUTE 2 OVER PIPE CREEK

ERI/MED-BH-FY2019
PID No. 94444

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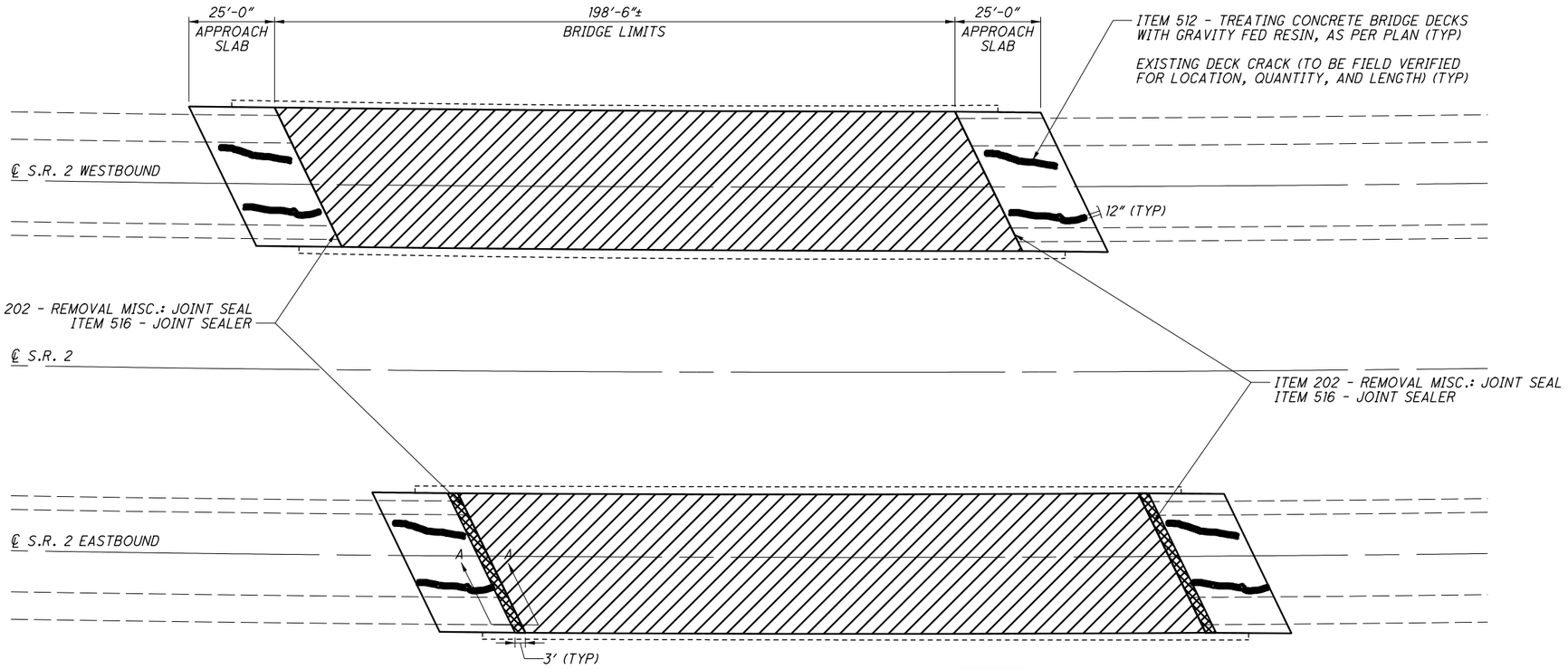


EXISTING STRUCTURES

TYPE: 3 SPAN CONTINUOUS STEEL BEAMS

SPANS: 56'-0"±, 80'-0"±, 56'-0"± C/C BEARINGS (BOTH STRUCTURES)

ROADWAY: 40'-8" T/T PARAPETS

LENGTH: 198'-6"± (BOTH STRUCTURES)

SKEW: 25°48'00"± R.F. - LEFT
25°32'00"± R.F. - RIGHT

ALIGNMENT: TANGENT

DATE BUILT: 1961

NOTES

1) CONCRETE BRIDGE DECKS: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
SEAL THE ENTIRE BRIDGE DECK WITH GRAVITY FED RESIN.

2) APPROACH SLAB TREATMENT: ITEM 512 - TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
LOCATION OF CRACKS ON THIS PLAN SHEET ARE NOT ACCURATE AND ARE FOR REPRESENTATION ONLY. SEE DETAILED NOTES ON SHEET 3.

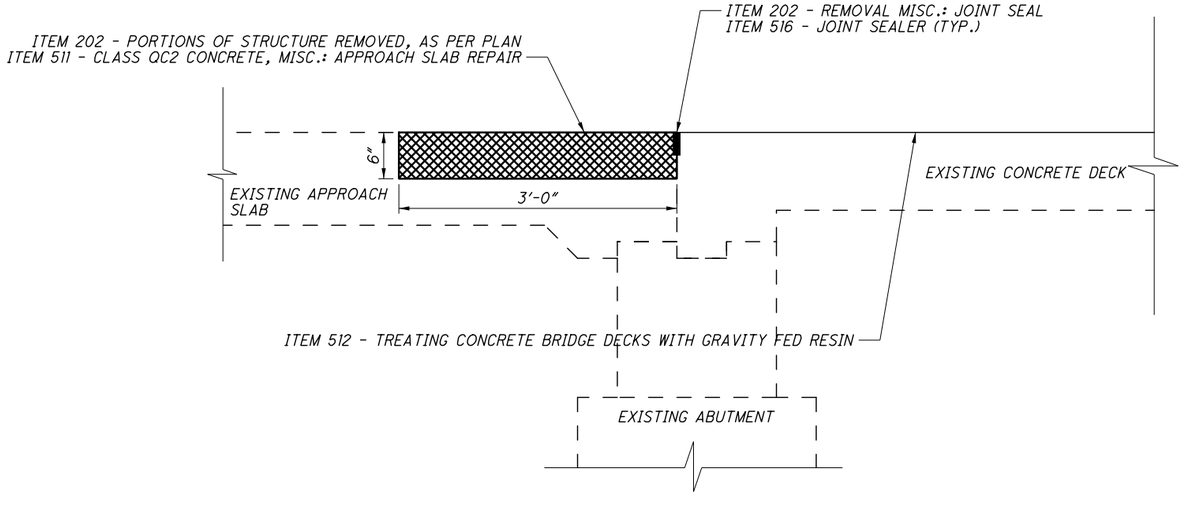
ESTIMATED QUANTITIES ERI-2-1088L (SFN: 2200848)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	90	FT	REMOVAL MISC.: JOINT SEAL
512	73500	956	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	8	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	90	FT	JOINT SEALER
646	10010	0.09	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"

ESTIMATED QUANTITIES ERI-2-1088R (SFN: 2200872)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	11301	5	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	98200	90	FT	REMOVAL MISC.: JOINT SEAL
511	53012	5	CY	CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR
512	73500	956	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
512	73501	6	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN, AS PER PLAN
516	31000	90	FT	JOINT SEALER
646	10010	0.09	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



SECTION A-A

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		2200848/2200872	

STRUCTURE DETAILS
ERI-2-1088L & ERI-2-1088R
STATE ROUTE 2 OVER COLUMBUS AVE (COUNTY ROAD 120)

ERI/MED-BH-FY2019
PID No. 94444

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EXISTING STRUCTURES

TYPE: 3 SPAN CONTINUOUS STEEL BEAMS

SPANS: 35'-0"±, 69'-6"±, 35'-0"± C/C BEARINGS (BOTH STRUCTURES)

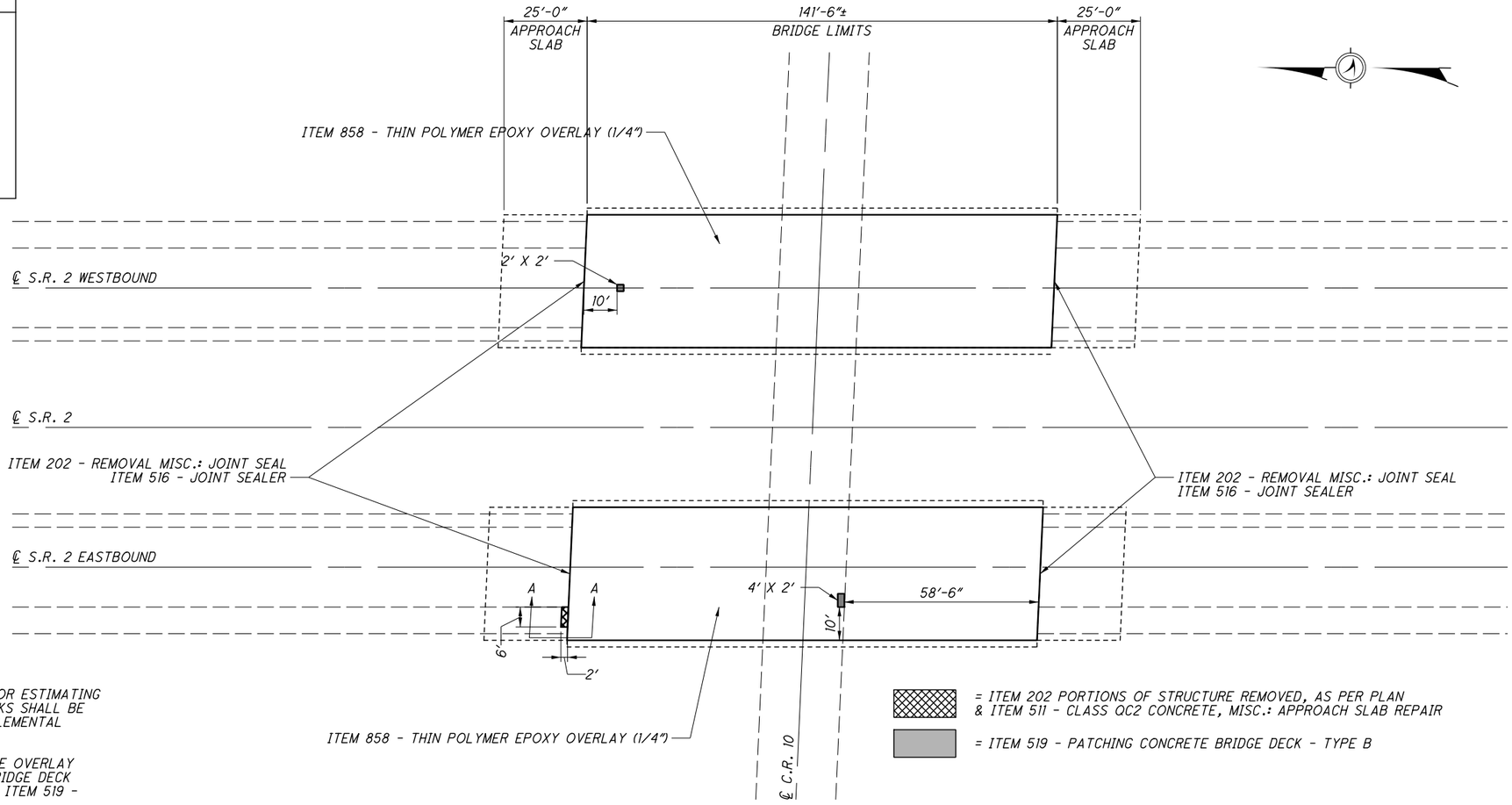
ROADWAY: 40'-0" T/T PARAPETS

LENGTH: 141'-6"± (BOTH STRUCTURES)

SKEW: 2°34'37"± L.F.

ALIGNMENT: TANGENT

DATE BUILT: 1987



NOTES

1) ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION
A QUANTITY OF 50 FT PER STRUCTURE HAS BEEN USED FOR ESTIMATING PURPOSES ONLY. EXACT DIMENSIONS AND LOCATIONS OF CRACKS SHALL BE DETERMINED BY THE ENGINEER AND IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 858.

2) SEE SUPPLEMENTAL SPECIFICATION 858 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET. OVERLAY THE ENTIRE BRIDGE DECK AFTER ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION AND ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B ARE APPLIED.

3) DO NOT DISTURB EXISTING REINFORCING STEEL IN THE APPROACH SLABS.

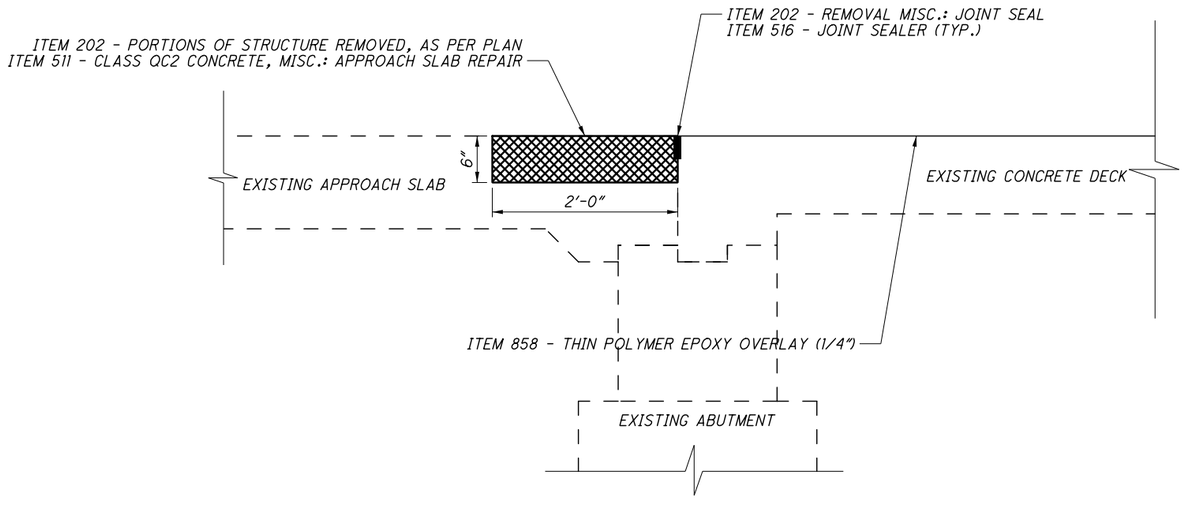
ESTIMATED QUANTITIES ERI-2-1691L (SFN: 2201208)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	80	FT	REMOVAL MISC.: JOINT SEAL
512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION
516	31000	80	FT	JOINT SEALER
519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.09	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"
858	10000	660	SY	THIN POLYMER EPOXY OVERLAY (1/4")

ESTIMATED QUANTITIES ERI-2-1691R (SFN: 2201216)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	98200	80	FT	REMOVAL MISC.: JOINT SEAL
511	53012	1	CY	CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR
512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTON
516	31000	80	FT	JOINT SEALER
519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.09	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"
858	10000	660	SY	THIN POLYMER EPOXY OVERLAY (1/4")

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



SECTION A-A

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		2201208/2201216	

STRUCTURE DETAILS
ERI-2-1691L & ERI-2-1691R
STATE ROUTE 2 OVER BOGART RD (COUNTY ROAD 10)

ERI/MED-BH-FY2019
PID No. 94444

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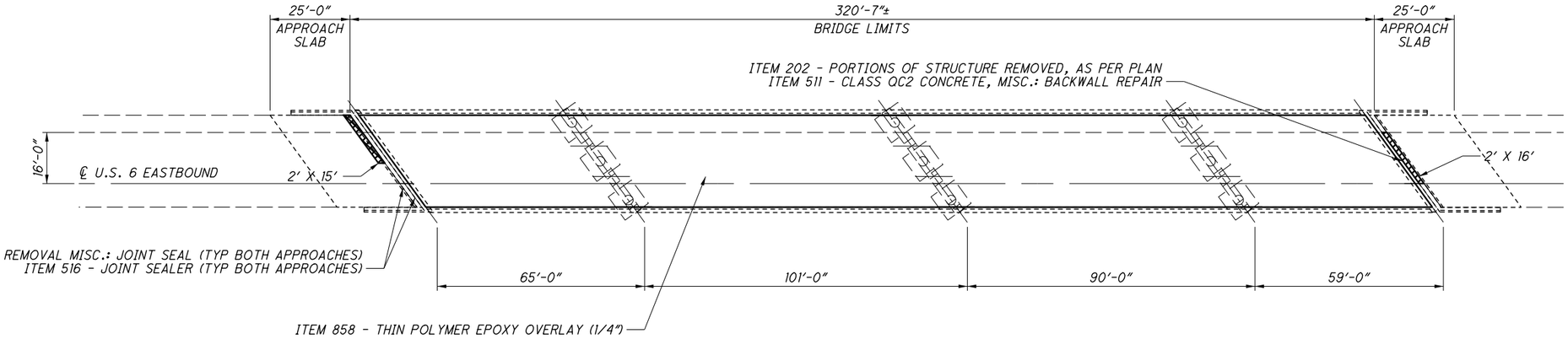
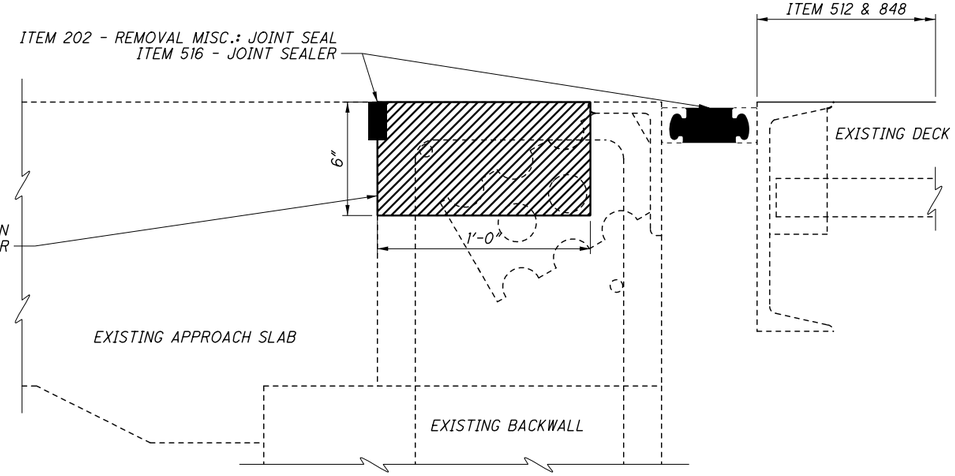


= ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN & ITEM 511 - CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR

= ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN & ITEM 511 - CLASS QC2 CONCRETE, MISC.: BACKWALL REPAIR



FORWARD EXPANSION JOINT DETAIL

EXISTING STRUCTURE

TYPE: 4 SPAN CONTINUOUS STEEL BEAM
SPANS: 65'-0"±, 101'-0"±, 90'-0"±, 59'-0"± C/C BEARINGS
ROADWAY: 28'-10"± T/T PARAPETS
LENGTH: 250'-6"± (BOTH STRUCTURES)
SKEW: 3°02'03"± L.F.
ALIGNMENT: TANGENT
DATE BUILT: 1987

NOTES

1) ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION
A QUANTITY OF 50 FT HAS BEEN USED FOR ESTIMATING PURPOSES ONLY. EXACT DIMENSIONS AND LOCATIONS OF CRACKS SHALL BE DETERMINED BY THE ENGINEER AND IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 858.

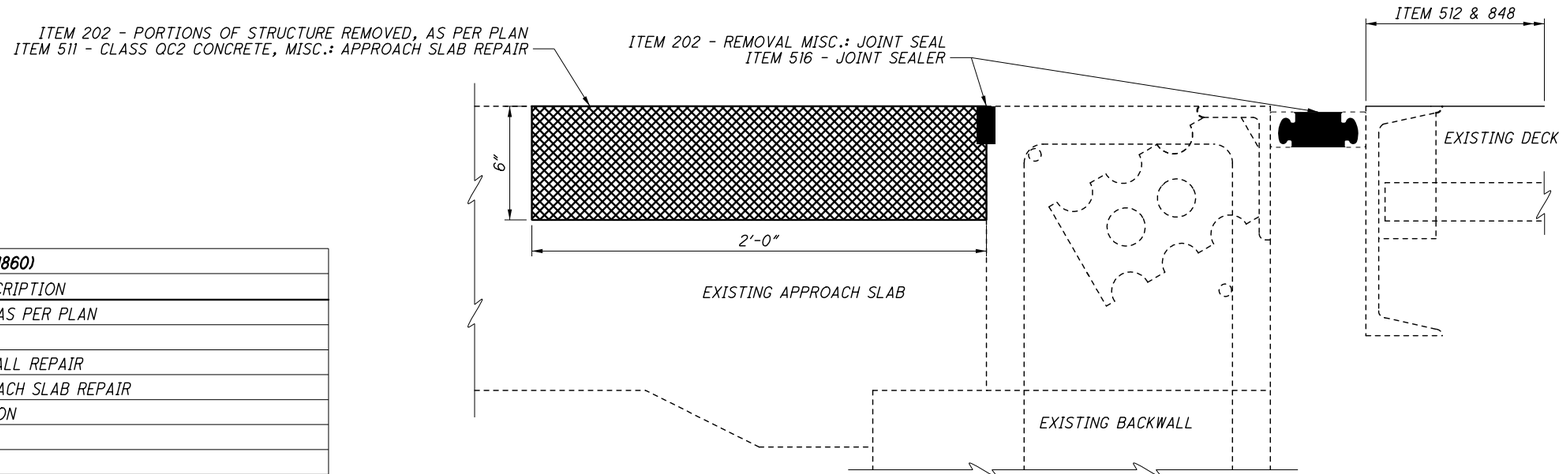
2) SEE SUPPLEMENTAL SPECIFICATION 858 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET. OVERLAY THE ENTIRE BRIDGE DECK AFTER ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION AND ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B ARE APPLIED.

3) DO NOT DISTURB EXISTING REINFORCING STEEL IN THE BACKWALL OR APPROACH SLABS.

ESTIMATED QUANTITIES ERI-6-1660 (SFN: 2201860)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	11301	2	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	98200	143	FT	REMOVAL MISC.: JOINT SEAL
511	53012	1	CY	CLASS QC2 CONCRETE, MISC.: BACKWALL REPAIR
511	53012	1	CY	CLASS QC2 CONCRETE, MISC.: APPROACH SLAB REPAIR
512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION
516	31000	143	FT	JOINT SEALER
646	10010	0.14	MILE	EDGE LINE, 6"
858	10000	1147	SY	THIN POLYMER EPOXY OVERLAY (1/4")

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (01/NHS/BR)



REAR EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED ACM | DRAWN ACM | REVIEWED KRB | DATE 10/2018
CHECKED KRB | REVISED | STRUCTURE FILE NUMBER 2201860

STRUCTURE DETAILS
ERI-6-1660
US ROUTE 6 OVER STATE ROUTE 2

ERI/MED-BH-FY2019
PID No. 94444

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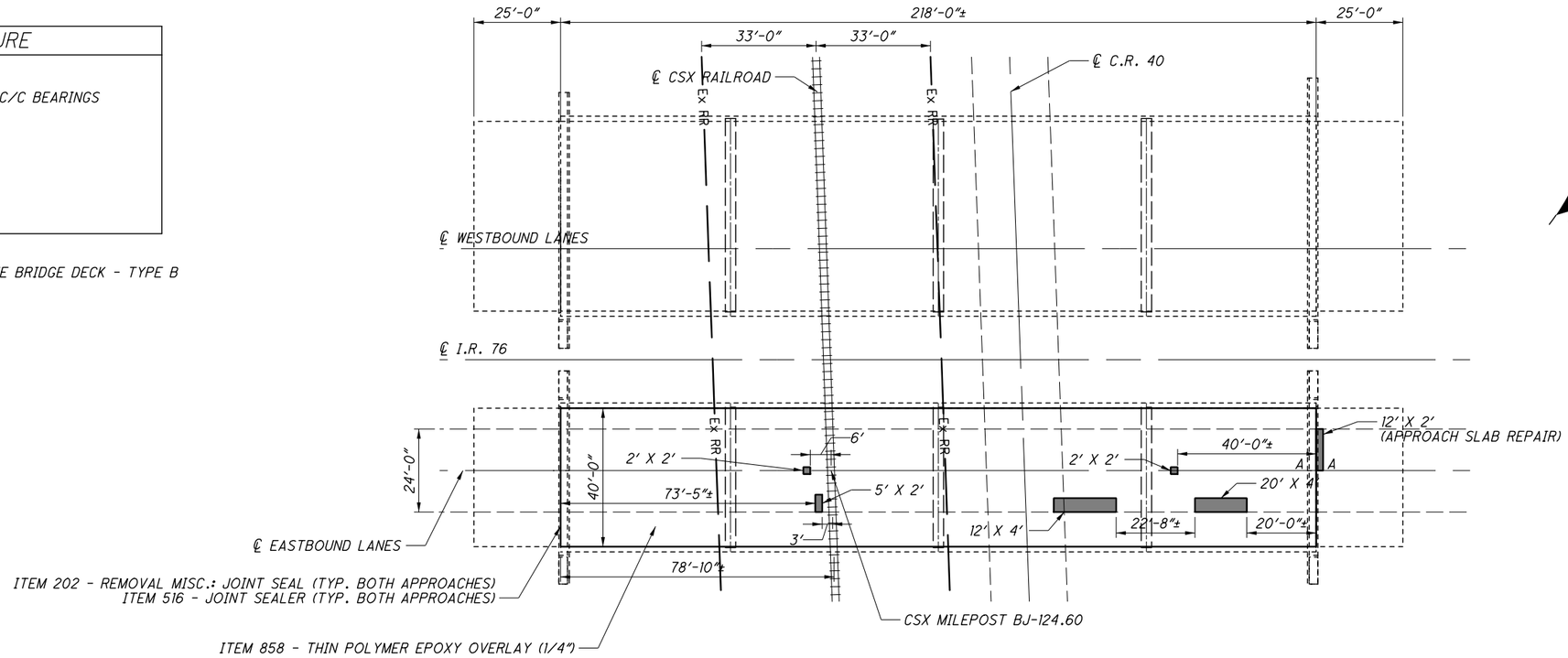
EXISTING STRUCTURE

TYPE: 4 SPAN CONTINUOUS STEEL BEAM
SPANS: 48'-0"±, 60'-0"±, 60'-0"±, 48'-0"± C/C BEARINGS
ROADWAY: 40'-0" T/T PARAPETS
LENGTH: 218'-0"±
SKEW: 0°
ALIGNMENT: TANGENT
DATE BUILT: 1994

= ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B



NOTES

1) ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION
A QUANTITY OF 50 FT HAS BEEN USED FOR ESTIMATING PURPOSES ONLY. EXACT DIMENSIONS AND LOCATIONS OF CRACKS SHALL BE DETERMINED BY THE ENGINEER AND IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 858.

2) SEE SUPPLEMENTAL SPECIFICATION 858 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET. OVERLAY THE ENTIRE BRIDGE DECK AFTER ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION AND ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B ARE APPLIED.

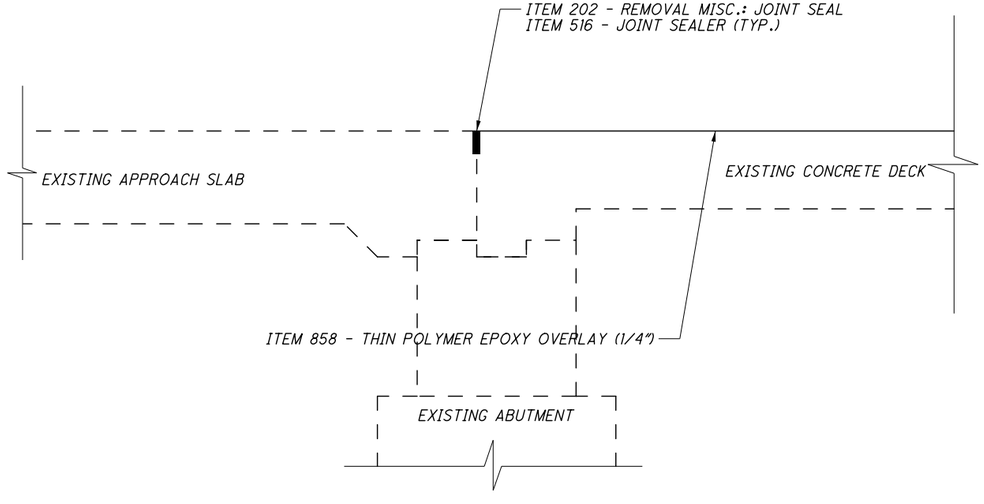
3) DO NOT DISTURB EXISTING REINFORCING STEEL IN THE BACKWALL OR APPROACH SLABS.

4) EXISTING VERTICAL CLEARANCES SHALL BE MAINTAINED UNDER STRUCTURE MED-76-0130R. THE EXISTING MINIMUM VERTICAL CLEARANCE DIMENSION IS 21.5'.

ESTIMATED QUANTITIES MED-76-0130R (SFN: 5204437)

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98200	80	FT	REMOVAL MISC.: JOINT SEAL
512	10600	50	FT	CONCRETE REPAIR BY EPOXY INJECTION
516	31000	80	FT	JOINT SEALER
519	12300	19	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
646	10010	0.09	MILE	EDGE LINE, 6"
646	10110	0.05	MILE	LANE LINE, 6"
858	10000	1042	SY	THIN POLYMER EPOXY OVERLAY (1/4")

ALL QUANTITIES CARRIED TO GENERAL SUMMARY (02/IMS/BR)



EXPANSION JOINT DETAIL

ODOT DISTRICT THREE
OFFICE OF ENGINEERING
ASHLAND, OHIO

DESIGNED	DRAWN	REVIEWED	DATE
ACM	ACM	KRB	10/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
KRB		5204437	

STRUCTURE DETAILS
MED-76-0130R
INTERSTATE ROUTE 76 OVER CSX RAILROAD AND RYAN RD (COUNTY ROAD 40)

ERI/ MED-BH-FY2019
PID No. 94444

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