

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**D04-BH-FY2017**

**PROJECT DESCRIPTION**

SEALING AND DECK PATCHING OF ALL MAJOR BRIDGES WITHIN DISTRICT 4. DIAMOND GRINDING OF MAH IR76 STRUCTURES OVER LAKE MILTON (SFN# 5002737 AND SFN# 5002702).

PROJECT EDA: N/A (MAINTANENCE PROJECT)  
ESTIMATED CONTRACTOR EDA: N/A (MAINTANENCE PROJECT)  
NOTICE OF INTENT EDA: N/A (MAINTANENCE PROJECT)

**LIMITED ACCESS**

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

**2016 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DE-TOURS WILL BE PROVIDED AS INDICATED ON SHEET 4.

CITY OF AKRON  
CITY OF ASHTABULA  
CITY OF BRECKSVILLE  
CITY OF CANTON  
CITY OF CONNEAUT  
CITY OF YOUNGSTOWN

ASHTABULA COUNTY  
MAHONING COUNTY  
STARK COUNTY  
SUMMIT COUNTY

**INDEX OF SHEETS:**

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LOCATION MAP

**DESIGN DESIGNATION**

**DESIGN FUNCTIONAL CLASSIFICATION:**

- ATB-020-1276: PRINCIPAL ARTERIAL - OTHER
- ATB-020-2592: PRINCIPAL ARTERIAL - OTHER
- ATB-011-2515R: PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS
- ATB-011-2515L: PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS
- MAH-076-0092R: INTERSTATE
- MAH-076-0092L: INTERSTATE
- MAH-080-0124R: INTERSTATE
- MAH-080-0124L: INTERSTATE
- MAH-193-0031: PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS
- MAH-711-0067: PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS
- STA-043-1239: PRINCIPAL ARTERIAL - OTHER
- SUM-271-0800R: INTERSTATE
- SUM-271-0801L: INTERSTATE
- SUM-082-0000: MINOR ARTERIAL
- SUM-0261D-0000: PRINCIPAL ARTERIAL - OTHER
- SUM-261-1025R: PRINCIPAL ARTERIAL - OTHER

NHS PROJECT \_\_\_\_\_ YES  
ATB-20-1276 ATB-20-2592 ATB-11-2515R ATB-11-2515L  
MAH-193-0031 MAH-711-0067 STA-43-1238 SUM-261-1025R  
SUM-261-1025L

NHS PROJECT \_\_\_\_\_ NO  
MAH-76-0092R MAH-76-0092L MAH-80-0124R MAH-80-0124L  
SUM-271-0800R SUM-271-0801L SUM-82-0000

**DESIGN EXCEPTIONS**

NONE

UNDERGROUND UTILITIES	
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.	
	Call Before You Dig <b>1-800-362-2764</b>
(Non-members must be called directly)	
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE <b>1-800-925-0988</b>	

PLAN PREPARED BY:  
ODOT --- DISTRICT 4 PLANNING AND ENGINEERING  
2088 S. ARLINGTON RD  
AKRON, OH 44306

ENGINEERS SEAL:

SIGNED: *Nicholas R. Chaney*  
DATE: 2.22.2017

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	7/18/14	TC-41.20	10/18/13	800-2016	1/20/17
		TC-42.20	10/18/13	821	04/20/12
DM-4.3	1/15/16	TC-52.10	10/18/13	921	04/20/12
DM-4.4	1/15/16	TC-52.20	7/15/16		
		TC-71.10	1/20/17		
MT-95.30	7/15/16				
MT-95.31	1/20/17				
MT-95.32	1/20/17				
MT-95.50	10/16/15				
MT-97.10	7/18/14				
MT-98.10	1/20/17				
MT-98.11	1/20/17				
MT-98.20	7/18/14				
MT-98.29	1/20/17				
MT-101.60	1/20/17				
MT-105.10	7/19/13				

APPROVED: *[Signature]*  
DATE: 2.22.17 DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

170113 Conformed Set  
Dist 4

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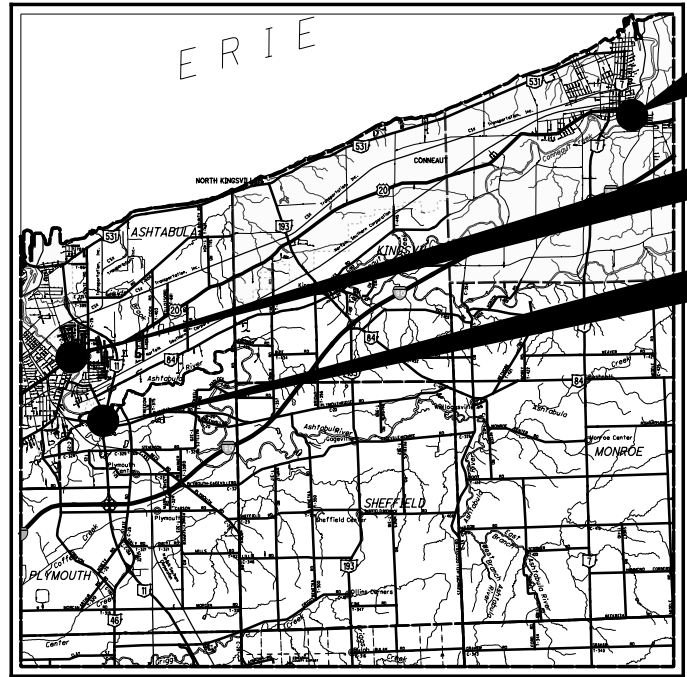
FEDERAL PROJECT NO.  
**NON-FEDERAL**

PID NO.  
**100004**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

**D04-BH-FY2017**

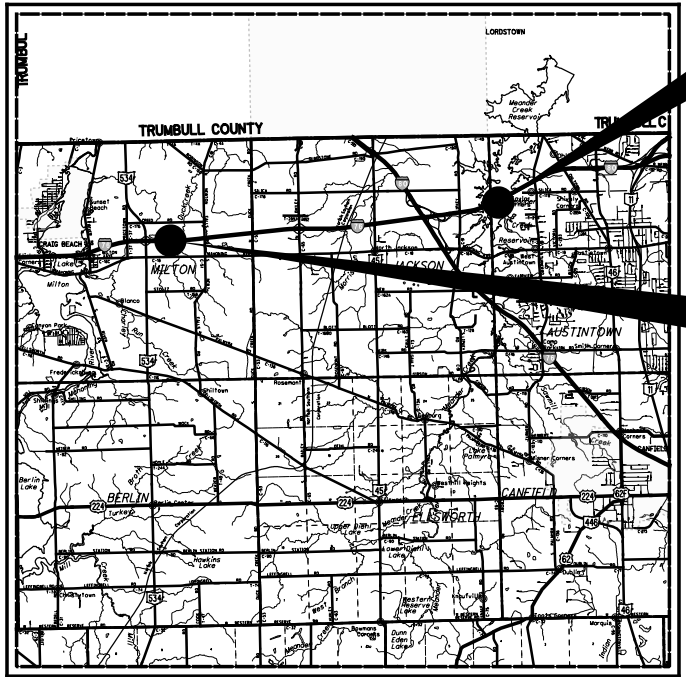


STRUCTURE:  
ATB-020-2592

STRUCTURE:  
ATB-020-1276

STRUCTURES:  
ATB-020-2515L&R

LOCATION MAP ATB-11-2515L&R, ATB-20-1276, ATB-20-2592  
LATITUDE: N41°52'17" LONGITUDE: W80°40'12"



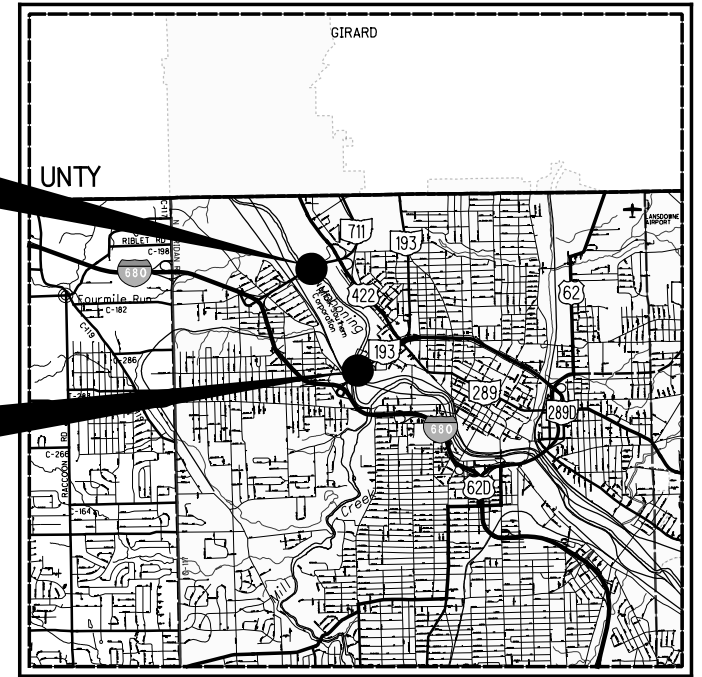
STRUCTURES:  
MAH-080-0124L&R

STRUCTURE:  
MAH-711-0067

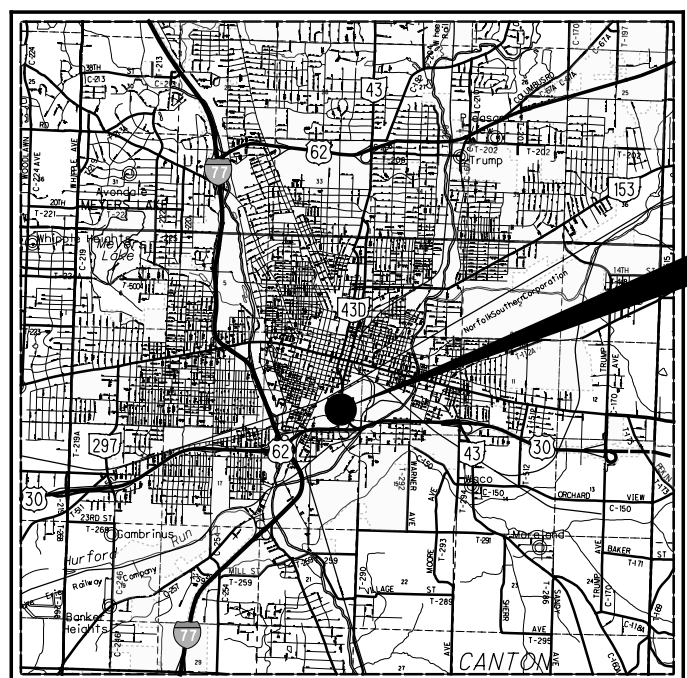
STRUCTURES:  
MAH-076-0092L&R

STRUCTURE:  
MAH-193-0031

LOCATION MAP MAH-76-0092L&R, MAH-80-0123L&R  
LATITUDE: N41°04'17" LONGITUDE: W80°51'05"



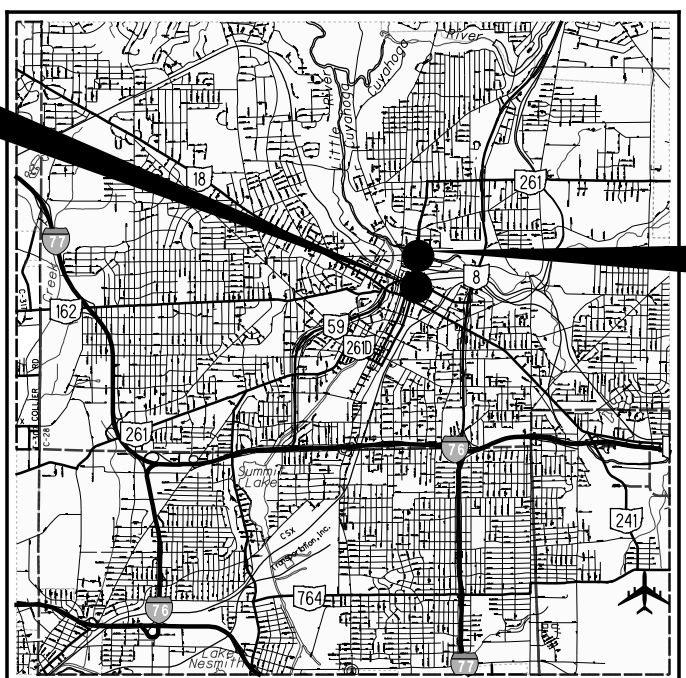
LOCATION MAP MAH-193-0031, MAH-711-0067  
LATITUDE: N41°06'16" LONGITUDE: W80°40'27"



STRUCTURE:  
SUM-261-1025R

STRUCTURE:  
STA-043-1238

LOCATION MAP STA-43-1238  
LATITUDE: N40°47'56" LONGITUDE: W81°22'19"

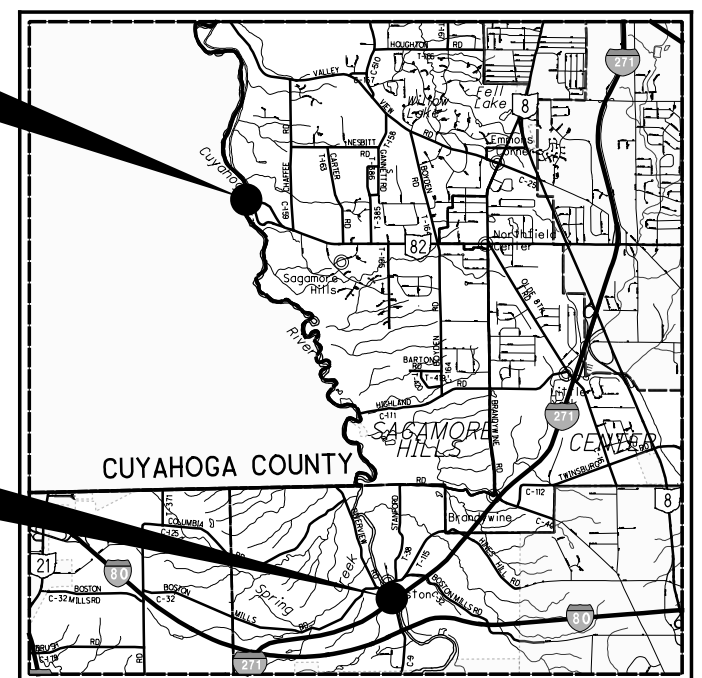


STRUCTURE:  
SUM-082-0000

STRUCTURE:  
SUM-261D-0000

STRUCTURES:  
SUM-271-0800R  
SUM-271-0801L

LOCATION MAP SUM-261D-0000 SUM-261-1025R  
LATITUDE: N41°04'06" LONGITUDE: W81°28'28"



LOCATION MAP SUM-81-0000, SUM-271-0800L&R  
LATITUDE: N41°17'12" LONGITUDE: W81°33'26"



- PORTION TO BE IMPROVED -----
- INTERSTATE HIGHWAY -----
- FEDERAL ROUTES -----
- STATE ROUTES -----
- COUNTY & TOWNSHIP ROADS -----
- OTHER ROADS -----

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**MAINTENANCE OF TRAFFIC**

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMP IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

ALL STRUCTURES EXCEPT ATB-20-2592 & SUM-82-0000:  
1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT DURING CONSTRUCTION OF THE WORK.

ATB-20-2592 & SUM-82-0000:  
1. A MINIMUM OF ONE BIDIRECTIONAL TEN FOOT LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT DURING CONSTRUCTION OF THE WORK.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

4. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

5. ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

6. A QUANTITY OF 5 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

7. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGN HAS BEEN INCLUDED IN THE PLAN. THIS QUANTITY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING SIGNS: W8-1 [BUMP] W6-3 [TWO-WAY TRAFFIC], W8-H13 [NO EDGE LINES], R4-1 [DO NOT PASS], R4-2 [PASS WITH CARE], W8-11 [UNEVEN LANES]. THESE QUANTITIES SHALL BE PER 614.04.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

614, WORK ZONE MARKING SIGN 80 EACH

**TRAFFIC CONTROL INSPECTOR**

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

**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
HALL OF FAME 2017 (STA-43-1238)	

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

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$4500 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

**LANE CLOSURES [ATB-11, MAH-193, MAH-711, MAH-76, MAH-80 AND SUM-271]**

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:  
<http://plcm.dot.state.oh.us>

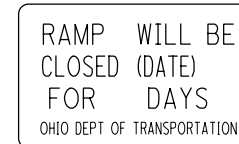
SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$5000 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

**DETOUR NOTIFICATION [MAHONING COUNTY ENGINEERS OFFICE]**

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND THE MAHONING COUNING COUNTY ENGINEERS OFFICE (330-799-1581) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMP AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMP, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.



W20-H14-60

**ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR) (RAMP CLOSURES FOR BRIDGE SEALING)**

TRAFFIC ON THE RAMP LISTED IN THE CHART "BRIDGE SEALING RAMP CLOSURES" SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED THE DURATIONS PROVIDED IN THE CHART.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE ABOVE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2000 PER DAY THAT THE RAMP REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

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

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

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

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/ DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

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

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 300 HOURS

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

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

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MAINTENANCE OF TRAFFIC & GENERAL NOTES

D04-BH - FY 2017

**ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN,  
AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A PORTABLE CHANGEABLE MESSAGE SIGN, THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCE OF 650 FEET AND 475 FEET RESPECTIVELY.

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

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 PCMS SHOULD NOT BE LOCATED IN THE MEDIAN OF THE HIGHWAY UNLESS IT IS PROTECTED FROM BOTH DIRECTIONS OF TRAFFIC. 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 THE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS WILL BE 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 TYPE G YELLOW REFLECTIVE 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 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 CONTRACTOR. A LIST OF ALL PROPOSED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE LINE PRESENTATION FORMATS WITH UP TO OF 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, DE-ACTIVATED 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 AREAS] ALLOW REMOTE SIGN ACTIVATION, DEACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614. 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 AND. THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THEIR USE. THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 614.02.

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.

614 PORTABLE CHANGEABLE MESSAGE SIGN,  
AS PER PLAN, 1 SIGN MONTH

**COOPERATION BETWEEN CONTRACTORS [MAH-80-0124L&R]**

THE CONTRACTOR SHALL BE ADVISED THAT PROJECT:  
MAH-80-4.50/0.00 [PID: 77260] PROJECT NUMBER 126-15

MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

**PAVEMENT MARKINGS**

THIS WORK WILL CONSIST OF REPACING THE EXISTING PAVEMENT MARKINGS THAT ARE REMOVED DURING THE SURFACE PREPARATION OF ITEM 512, TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

- ITEM 642, EDGE LINE, 6" 11.94 MILE
- ITEM 642, LANE LINE, 6" 7.35 MILE
- ITEM 642, CENTER LINE 0.95 MILE
- ITEM 642, CHANNELIZING LINE 383 FT
- ITEM 642, TRANSVERSE/DIAGONAL LINE 33 FT
- ITEM 642, LANE ARROW 2 EACH
- ITEM 642, DOTTED LINE, 6" 200 FT
- ITEM 642, BIKE LANE SYMBOL MARKING 2 EACH

**UTILITIES**

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

- OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
- OGPUPS 1-800-925-0988
- ODOT 330-786-3145 KEN GREENE

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

**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.

**ENDANGERED BAT HABITAT NO TREE REMOVAL PERMITTED**

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. TREE TRIMMING IS PERMITTED AS DIRECTED BY THE PROJECT ENGINEER. NO TREES SHALL BE REMOVED UNDER THIS PROJECT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

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MAINTENANCE OF TRAFFIC & GENERAL NOTES

D04-BH - FY 2017

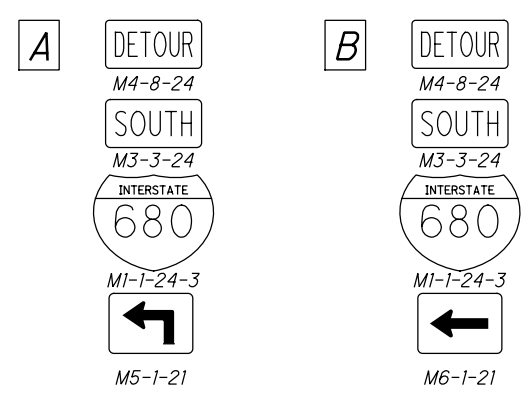
**BRIDGE SEALING RAMP CLOSURES**

**ADDITIONAL DETOUR SIGNING:**

DURING THE CLOSURE OF RAMPS C, B-3, B, AND J THE CONTRACTOR SHALL PLACE THE ADDITIONAL SIGNING AS SHOWN IN THE DETAILS FOR EACH RAMP ON SHEET 4. ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED FOR THE ADDITIONAL SIGNING SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

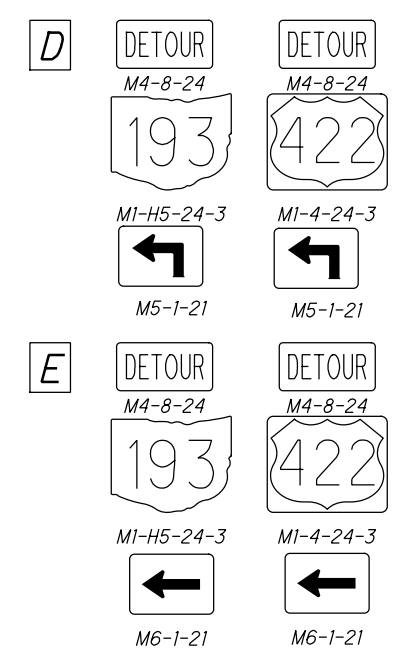
STRUCTURES TO SEAL	RAMP	PERMITTED CLOSURE TIMES	DURATION	DETOUR ROUTE	APPROX. NUMBER OF PCMS	ADDITIONAL RESTRICTIONS
MAH-193-0031	RAMP A-3 SR 193 TO I-680 NORTH	7PM-5AM MON-FRI 6PM-6AM SAT-SUN	1 NIGHT	I-680S / MARKET ST / WOODKAND AVE	2	RAMP A SHALL NOT BE CLOSED CONCURRENTLY WITH RAMPS C AND C-3
MAH-193-0031	RAMP C SR 193 TO I-680 SOUTH	7PM-5AM MON-FRI 6PM-6AM SAT-SUN	1 NIGHT	I-680N / WELLINGTON AVE / N BELLE VISTA AVE / OAKWOOD AVE	1	ONLY THE STRAIGHT SECTION OF RAMP C FROM STRUCTURE MAH-193-0031 SHALL BE CLOSED. RAMP C FROM STILLMAN ST AND FRANK SINKWHICH ST SHALL REMAIN OPEN. RAMP C SHALL NOT BE CLOSED CONCURRENTLY WITH RAMPS A-3 AND B-3
MAH-193-0031	RAMP C-3 I-680 S TO SR193	7PM-5AM MON-FRI 6PM-6AM SAT-SUN	1 NIGHT	I-680S / MARKET ST / WOODKAND AVE	2	RAMP C-3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMPS B-3 AND A-3
MAH-193-0031	RAMP B-3 I-680 N TO SR193	7PM-5AM MON-FRI 6PM-6AM SAT-SUN	1 NIGHT	I-680N / WELLINGTON AVE / N BELLE VISTA AVE / OAKWOOD AVE	1	RAMP B-3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMPS C AND C-3
MAH-711-0067	RAMP B SR-711 TO STEPHENS ST	7PM-5AM MON-FRI 6PM-6AM SAT-SUN	1 NIGHT	I-680N / N MERIDIAN RD / SALT SPRING RD	1	NONE
MAH-711-0067	RAMP J ELBEREN ST TO SR 711	7PM-5AM MON-FRI 6PM-6AM SAT-SUN	1 NIGHT	SALT SPRING RD / N MERIDIAN RD	0	NONE

**RAMP C**

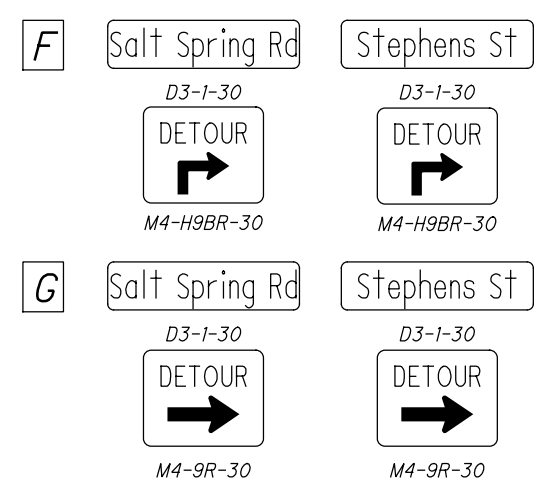
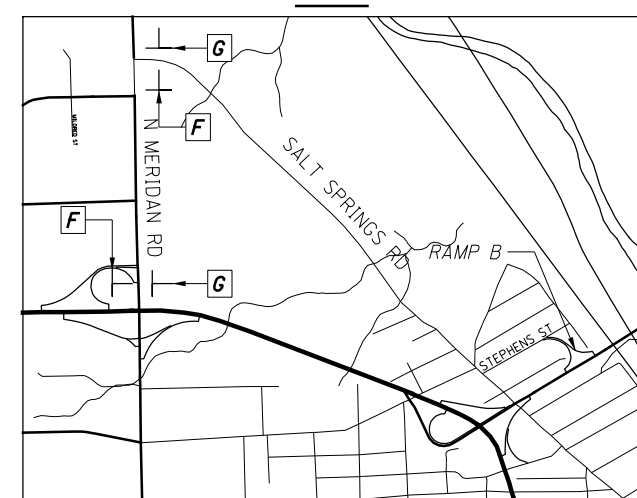


**C** PORTABLE CHANGEABLE MESSAGE SIGN  
MESSAGES: 1) RAMP TO 680S CLOSED

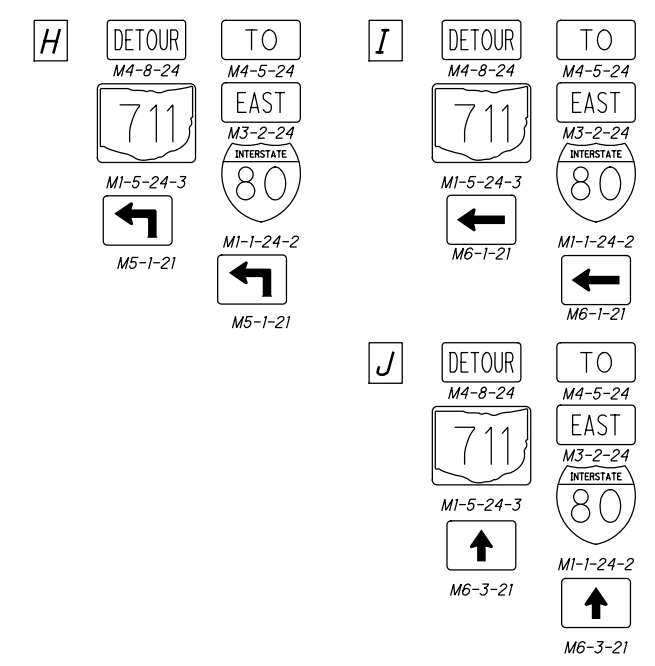
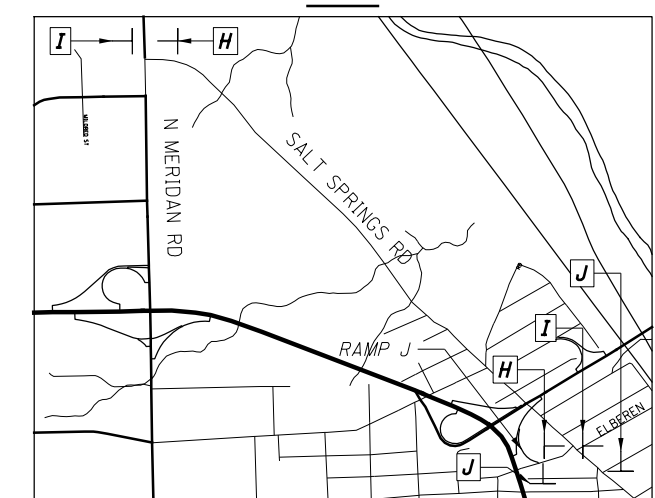
**RAMP B-3**



**RAMP B**



**RAMP J**



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**DESIGN SPECIFICATIONS**

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

**EXISTING STRUCTURE VERIFICATION**

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED

**PROPOSED WORK**

ATB-20-1276 (ASHTABULA VIADUCT)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

ATB-20-2592 (CONNEAUT CREEK & B&LE RR)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

ATB-11-2515R (ASHTABULA RIVER)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

ATB-11-2515L (ASHTABULA RIVER)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

MAH-76-0092L (LAKE MILTON)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-DIAMOND GRINDING OF THE CONCRETE WEARING SURFACE
-DECK GROOVING OF THE CONCRETE WEARING SURFACE
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

MAH-76-0092R (LAKE MILTON)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-DIAMOND GRINDING OF THE CONCRETE WEARING SURFACE
-DECK GROOVING OF THE CONCRETE WEARING SURFACE
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

MAH-80-0124R (MEANDER RESERVOIR)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

MAH-80-0124L (MEANDER RESERVOIR)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

MAH-193-0031 (MAHONING RIVER, SALT SPRINGS RD, RR)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

MAH-711-0067 (MAHONING RIVER, DIVISION ST, RR)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

STA-43-1238 (NORFOLK SOUTHERN RR)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

SUM-271-0800R (RIVERVIEW RD, CVS RR, CUYAHOGA RIVER)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

SUM-271-0801L (RIVERVIEW RD, CVS RR, CUYAHOGA RIVER)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

SUM-82-0000 (CUYAHOGA RIVER, B&O RR, BIKE PATH)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

SUM-261D-0000 (OVER N MAIN ST VIADUCT)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

SUM-261-1025R (OVER N MAIN ST VIADUCT)
-PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE ON THE BRIDGE DECK
-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT
-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
-NEW STRUCTURE IDENTIFICATION SIGNS

**CLEARING AND GRUBBING**

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

**ITEM 257, DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT**

THIS WORK WILL CONSIST OF DIAMOND GRINDING THE DECK WEARING SURFACE TO REMOVE EXISTING TRANSVERSE DECK GROOVING. THE DIAMOND GRINDING SHALL BE PERFORMED TO THE DEPTH OF THE EXISTING GROOVING TO PRODUCE A SMOOTH DECK SURFACE. GRINDING SHALL BE PERFORMED BY USING A MINIMUM 4 FT. WIDE GRINDING HEAD.

**ITEM 511, BRIDGE DECK GROOVING**

THIS WORK WILL CONSIST OF GROOVING OF THE CONCRETE WEARING SURFACE TO PRODUCE A LONGITUDINAL CORDUROY-TYPE TEXTURE. THIS WORK SHALL BE PERFORMED AS PER CMS 511.17.

**CORRECTING BRIDGE IDENTIFICATION SIGN NUMBERS:**

SOME OF THE EXISTING BRIDGE NUMBER SIGNS HAVE INCORRECT BRIDGE NUMBERS ON THEM. THE FOLLOWING BRIDGE NUMBERS ARE THE CORRECT ONES AND WILL BE USED ON THE NEW BRIDGE IDENTIFICATION SIGNS.

STRUCTURE ATB-20-2592 (SFN:0402273) THE EXISTING SIGN SHOWS 25.91. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 2592.

STRUCTURE MAH-76-0092L&R (SFN:5002702, 5002737) THE EXISTING SIGNS SHOW 00.91. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0092.

STRUCTURE MAH-80-0092R&L (SFN:5002303, 5002265) THE EXISTING SIGNS SHOW 01.25. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0124.

STRUCTURE MAH-193-0031 (SFN:5004438) THE EXISTING SIGN SHOWS 00.28. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0031.

STRUCTURE STA-43-1238 (SFN:5004438) THE EXISTING SIGN SHOWS 13.39. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1238.

STRUCTURE SUM-271-0800R (SFN:7709021) THE EXISTING SIGN SHOWS 0802. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0800.

STRUCTURE SUM-271-0801L (SFN:7709013) THE EXISTING SIGN SHOWS 0802. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0801.

STRUCTURE SUM-261D-0000 (SFN:7708645) THE EXISTING SIGN SHOWS 10.22. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0000.

STRUCTURE SUM-261-10.25R (SFN:7708653) THE EXISTING SIGN SHOWS 10.22. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1025.

**STRUCTURE/CULVERT IDENTIFICATION SIGNS**

STRUCTURE IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES: ATB-20-1276, ATB-20-2592, ATB-11-2515R, ATB-11-2515L, MAH-76-0092L, MAH-76-0092R, MAH-80-0124R, MAH-80-0124L, MAH-193-0031, MAH-711-0067, STA-43-1238, SUM-271-0800R, SUM-271-0801L, SUM-82-0000, SUM-261D-0000, SUM-261-1025R,

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:
ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT
ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 1 EACH
ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 1 EACH

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DESIGN AGENCY: ODOT --- DISTRICT 4 PLANNING AND ENGINEERING
DATE: 12-4-15
REVIEWED: NRC
STRUCTURE FILE NUMBER:
DRAWN: BFR
REVISED:
DESIGNED: BFR
CHECKED:
STRUCTURE GENERAL NOTES:
ATB-20-1276, ATB-20-2592, ATB-11-2515R, ATB-11-2515L, MAH-76-0092L, MAH-76-0092R, MAH-80-0124R, MAH-80-0124L, MAH-193-0031, MAH-711-0067, STA-43-1238, SUM-271-0800R, SUM-271-0801L, SUM-82-0000, SUM-261D-0000, SUM-261-1025R
D04-BH-FY2017
PID No. 100004
1/3
7/9



CALC:	BFR	DATE:	11/24/2015
CHECKED:	NRC	DATE:	12/4/2015

**ESTIMATED QUANTITIES**

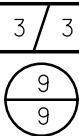
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
ATB-20-1276 SFN 0402206 01/IMS/BR	ATB-20-2592 SFN 0402273 01/IMS/BR	ATB-11-2515R SFN 0401714 01/IMS/BR	ATB-11-2515L SFN 0401684 01/IMS/BR	MAH-76-0092L SFN 5002702 01/IMS/BR	MAH-76-0092R SFN 5002737 01/IMS/BR	MAH-80-0124R SFN 5002303 01/IMS/BR	MAH-80-0124L SFN 5002265 01/IMS/BR					
LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	201	11000		CLEARING AND GRUBBING	
				13109	13109			257	10000	SY	DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT	1/3
				13109	13109			SPEC	51160000	SY	BRIDGE DECK GROOVING	1/3
10761	6129	5938	5938	13109	13109	17468	17468	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
52	30	29	29	65	65	86	86	SPEC	51912304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
15	15	15	15	15	15	15	15	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
2	2	2	2	2	2	2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20	
2	2	2	2	2	2	2	2	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
2	2	2	2	2	2	2	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	



CALC:	BFR	DATE:	11/24/2015
CHECKED:	NRC	DATE:	12/4/2015

**ESTIMATED QUANTITIES**

BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
MAH-193-0031 SFN 5004438 01/IMS/BR	MAH-711-0067 SFN 5008255 01/IMS/BR	STA-43-1238 SFN 7601379 01/IMS/BR	SUM-271-0800R SFN 7709021 01/IMS/BR	SUM-271-0801L SFN 7709013 01/IMS/BR	SUM-82-0000 SFN 7706871 01/IMS/BR	SUM-261D-0000 SFN 7708645 01/IMS/BR	SUM-261-1025R SFN 7708653 01/IMS/BR					
LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	201	11000		CLEARING AND GRUBBING	
9793	17827	10178	9231	9140	5477	15489	14609	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
47	88	50	45	46	28	78	72	SPEC	51912304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
15	15	15	15	15	15	15	15	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
2	2	2	2	2	2	2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20	
2	2	2	2	2	2	2	2	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
2	2	2	2	2	2	2	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	

<p><b>D04-BH-FY2017</b> PID No. 100004</p> 	<p><b>STRUCTURE ESTIMATED QUANTITIES</b></p> <p>MAH-193-0031, MAH-711-0067, STA-43-1238, SUM-271-0800R, SUM-271-0801L, SUM-82-0000, SUM-261D-0000, SUM-261-1025R</p>	DESIGNED	DRAWN	REVIEWED	DATE	DESIGN AGENCY
		BFR	BFR	NRC	12-4-15	ODOT - DISTRICT 4
		CHECKED	REVISED	STRUCTURE FILE NUMBER		PLANNING AND ENGINEERING