

ITEM 614, MAINTAINING TRAFFIC

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

- 1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED 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.
4. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE [1] MILE URBAN.
5. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS.
6. A QUANTITY OF 10 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. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION.
8. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE WORK ZONE MARKING SIGNS AND THEIR SUPPORTS WITHIN THE WORK LIMITS.
9. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS.
10. TO ENSURE THAT WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND AND MOVING TRAFFIC, ALL WEIGHTED CHANNELIZERS UTILIZED ON INTERSTATES AND FREEWAYS SHALL BE FROM MANUFACTURERS ON THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF MATERIAL MANAGEMENT'S QUALIFIED PRODUCTS LIST (QPL) WHICH UTILIZE A MINIMUM OF A 30 POUND BALLAST.

11. DRUMS UTILIZED ON THE HIGH SIDE OF A SUPERELEVATED INTERSTATE OR FREEWAYS SHALL BE FROM MANUFACTURERS ON THE OFFICE OF MATERIAL MANAGEMENT'S QUALIFIED PRODUCTS LIST (QPL) WITH A MINIMUM BALLAST WEIGHT OF 30 POUNDS. ALL BALLASTS USED SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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

- PHASE 1 - MILLED SURFACE
614, WORK ZONE LANE LINE, CLASS I, 8.15 MILES
614, WORK ZONE STOP LINE, CLASS I, 78 FT
614, WORK ZONE CHANNELIZING LINE, CLASS I, 11860 FT
614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, 6515 FT
614, WORK ZONE MARKING SIGN,(ALL PHASES) 6 EACH
PHASE 2 - SURFACE COURSE
614, WORK ZONE LANE LINE, CLASS III, 642 PAINT 8.15 MILE
614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 78 FT
614, WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT, 11860 FT
614, WORK ZONE DOTTED LINE, CLASS III, 642 PAINT, 6515 FT

TO BE USED AS DIRECTED BY THE ENGINEER
614, WORK ZONE EDGE LINE, CLASS III, 37.80 MILES

FOR OVERHEAD BRIDGES TREATED WITH GRAVITY FED RESIN
614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT, 0.13 MILE
614, WORK ZONE DOTTED LINE, CLASS III, 642 PAINT, 399 FT
614, WORK ZONE EDGE LINE, CLASS III, 0.27 MILES

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 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.

DROPOFFS AT SIDE STREETS AND DRIVEWAYS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE MILLED SURFACES AND THE SURFACE COURSE OF SIDE STREET APPROACHES/DRIVEWAYS GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.

PAINTING STRUCTURAL STEEL (MAH-680-13.427)

THE CONTRACTOR SHALL CLOSE A LANE TO PERFORM PAINTING OPERATIONS AS PER SCD MT-95.30. ALL WORK ZONES AND PAINTING EQUIPMENT AT THIS LOCATION SHALL BE REMOVED FROM THE ROADWAY WHEN THE CONTRACTOR IS NOT WORKING.

MOT NOTE ADDED FOR REPAIR PAINTING OF STRUCTURE MAH-680-13.427

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 SPECIAL EVENTS:

- NEW YEAR'S (OBSERVED)
THANKSGIVING
MEMORIAL DAY CHRISTMAS (OBSERVED)
FOURTH OF JULY (OBSERVED)
LABOR DAY

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

DAY OF HOLIDAY TIME ALL LANES
OR SPECIAL EVENT 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
TUESDAY (GEN./REG. ELECTION)
5:00 AM TUESDAY THROUGH 12:00 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

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

Table with 4 columns: DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED, RESTRICTED TIME PERIOD, TIME UNIT, DISINCENTIVE \$ PER TIME UNIT. Row 1: IR-680 (SLM 12.12 TO SLM 16.51), AS PER THE 'MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)' NOTE ABOVE, PER MINUTE/PER LANE, \$110

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$2000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

ASPHALT PAVING LIMITATION

THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT CONCRETE BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL BAR CHART PROGRESS SCHEDULE TO THE DISTRICT CONSTRUCTION ENGINEER (DCE) AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE
ITEM DURATION OF NOTICE DUE TO CLOSURE PERMITS & PIO

RAMP & ROAD CLOSURES >= 2 WEEKS 21 CALENDAR DAYS PRIOR TO CLOSURE

> 12 HOURS 14 CALENDAR DAYS
& < 2 WEEKS PRIOR TO CLOSURE

<= 12 HOURS 4 CALENDAR DAYS PRIOR TO CLOSURE

LANE CLOSURES & RESTRICTIONS >= 2 WEEKS 14 CALENDAR DAYS PRIOR TO CLOSURE

< 2 WEEKS 5 BUSINESS DAYS PRIOR TO CLOSURE

START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES N/A 14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.



updated

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	7	10	11	12	13	14	15	01/IMS	02/IMS	03/IMS						
<b>ROADWAY</b>																			
52											52			202	98100	52	EACH	REMOVAL MISC.: BARRIER REFLECTOR	3
28											28			203	10000	28	CY	EXCAVATION (FOR PAVEMENT REPAIR)	
464											464			209	60200	464	STA	LINEAR GRADING	
	LS										LS			SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	4
	4										4			SPECIAL	69098000	4	EACH	VERTICAL CLEARANCE	4
<b>EROSION CONTROL</b>																			
											3,000			832	30000	3,000	EACH	EROSION CONTROL	
<b>PAVEMENT</b>																			
1,250											1,250			251	01000	1,250	SY	PARTIAL DEPTH PAVEMENT REPAIR (441) (LONGITUDINAL)	
250											250			251	01000	250	SY	PARTIAL DEPTH PAVEMENT REPAIR (441) (TRANSVERSE)	
2,250											2,250			252	01500	2,250	FT	FULL DEPTH PAVEMENT SAWING	
					102,509	102,667	13,679				218,855			254	01000	218,855	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 2")	
500											500			255	19000	500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS RS	
28											28			304	20000	28	CY	AGGREGATE BASE (FOR PAVEMENT REPAIR)	
					9,226	9,240	1,232				19,698			407	20000	19,698	GAL	NON-TRACKING TACK COAT	
					4,009	3,952	723				8,684			408	10001	8,684	GAL	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	3
					3,747	3,783	456				7,986			442	00100	7,986	CY	ANTI-SEGREGATION EQUIPMENT	
					5,695	5,704	760				12,159			442	10300	12,159	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)	
											580			617	10101	580	CY	COMPACTED AGGREGATE, AS PER PLAN	3
	7										7			618	39000	7	EACH	RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE)	
					9	9					18			618	40600	18	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
										25.37				850	10010	25.37	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
										6,515				850	10110	6,515	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
										11,860				850	10130	11,860	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
										0.14				850	20010	0.14	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
<b>TRAFFIC CONTROL</b>																			
								366			366			621	00100	366	EACH	RPM	
								574			574			621	00101	574	EACH	RPM, AS PER PLAN	4
								606			606			621	54000	606	EACH	RAISED PAVEMENT MARKER REMOVED	
8											8			626	00102	8	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
39											39			626	00102	39	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
160											160			626	00110	160	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	
										0.27	0.27			646	10010	0.27	MILE	EDGE LINE, 6"	
										0.13	0.13			646	10200	0.13	MILE	CENTER LINE	
										78	78			646	10400	78	FT	STOP LINE	
										656	20	676		646	10600	676	FT	TRANSVERSE/DIAGONAL LINE	
										16	16			646	20300	16	EACH	LANE ARROW	
										4	4			646	20320	4	EACH	WRONG WAY ARROW	
										399	399			646	20504	399	FT	DOTTED LINE, 6"	
										18.9	18.9			807	12010	18.9	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
										8.15	8.15			807	12110	8.15	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
										11,860	11,860			807	12310	11,860	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	
										6,515	6,515			807	12410	6,515	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"	
<b>STRUCTURE REPAIRS</b>																			
																		FOR MAH-164-5.269 ESTIMATED QUANTITIES	17
																		FOR MAH-680-12.488 ESTIMATED QUANTITIES	17
																		FOR MAH-680-13.427 ESTIMATED QUANTITIES	17
																		FOR MAH-680-14.415 ESTIMATED QUANTITIES	17
																		FOR MAH-680-15.495 R ESTIMATED QUANTITIES	17
																		FOR MAH-680-15.715 L ESTIMATED QUANTITIES	17

GENERAL SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
**SBD**  
 REVIEWER  
**MJA 12-13-24**  
 PROJECT ID  
**101046**  
 SHEET TOTAL  
**P.8 18**

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	7	10	11	12	13	14	15	01/IMS	02/IMS	03/IMS						
			200								200			614	11110	200	HOUR	MAINTENANCE OF TRAFFIC LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		6									6			614	12460	6	EACH	WORK ZONE MARKING SIGN	
				16							16			614	12484	16	EACH	WORK ZONE INCREASED PENALTIES SIGN	
		10									10			614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			12								12			614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6
		8.15									8.15			614	20010	8.15	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
		8.15									8.15			614	20560	8.15	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
		0.13										0.13		614	21550	0.13	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
		38.07									37.8	0.27		614	22360	38.07	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
		11,860									11,860			614	23010	11,860	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"	
											11,860			614	23690	11,860	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
		6,515									6,515			614	24202	6,515	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
		6,914									6,515	399		614	24612	6,914	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
		78									78			614	26000	78	FT	WORK ZONE STOP LINE, CLASS I	
		78									78			614	26610	78	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
										24	24			808	18700	24	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
											LS			614	11000	LS		INCIDENTALS MAINTAINING TRAFFIC	
											12			619	16010	12	MNTH	FIELD OFFICE, TYPE B	
											LS			623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS			624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER  
SBD

REVIEWER  
MJA 12-13-24

PROJECT ID  
101046

SHEET TOTAL  
P.9 18

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS**

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

844 REVISED 1/17/25

**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 C&MS, 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 THAT HAVE BEEN VERIFIED IN THE FIELD.

**PROPOSED WORK**

MAH-680-12.488 (SFN 5007747), OVER BRANCH OF YELLOW CREEK  
 -CLEARING AND GRUBBING 15' AROUND STRUCTURE.

MAH-680-13.427 (SFN 5007828), OVER MAH-IR-680  
 -SEAL THE CONCRETE WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN  
 -RESURFACE 50' OF APPROACH PAVEMENT AT FORWARD AND REAR APPROACHES TO SMOOTH OUT TRANSITION  
 -PATCH ALL UNSOUND AREAS OF THE PIERS WITH 519, ADD GALVANIC ANODES AS PER SS 844, SEAL ALL PATCHES WITH EPOXY-URETHANE SEALER (MATCH EXISTING COLOR)  
 -CLEARING AND GRUBBING 15' AROUND STRUCTURE.

MAH-680-14.415 (SFN 5003253), OVER MAH-IR-680  
 -PATCH ALL UNSOUND AREAS OF THE PIERS WITH 519, ADD GALVANIC ANODES AS PER SS 844, SEAL ALL PATCHES WITH EPOXY-URETHANE SEALER (MATCH EXISTING COLOR)  
 -CLEARING AND GRUBBING 15' AROUND STRUCTURE.

MAH-680-15.495R (SFN 5007879), OVER CALLA RD  
 -SEAL THE CONCRETE WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN  
 -CLEARING AND GRUBBING 15' AROUND STRUCTURE.

MAH-680-15.715L (SFN 5007860), OVER CALLA RD  
 -SEAL THE CONCRETE WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN  
 -CLEARING AND GRUBBING 15' AROUND STRUCTURE.

MAH-164-5.269 (SFN 5003230), OVER MAH-IR-680  
 -SEAL THE CONCRETE WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN  
 -CLEARING AND GRUBBING 15' AROUND STRUCTURE.

**ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS**

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

**ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN**

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

MAH-680-13.427 (PIERS)  
 ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN, 85 SF

MAH-680-14.415 (PIERS)  
 ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN, 40 SF

**ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION**

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH AN ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON- CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND-GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 20 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 200 GRAMS OF ZINC. SEE THIS SHEET FOR DISTRIBUTION.

THE FOLLOWING QUANTITIES AND ANODE SPACINGS HAVE BEEN PROVIDED FOR EACH STRUCTURE.

MAH-680-13.427 (SFN 5007828)  
 PIERS: ANODE SPACING @ 12 IN C/C  
 ITEM 844, GALVANIC ANODE PROTECTION, 204 EACH

MAH-680-14.415 (SFN 5003253)  
 PIERS: ANODE SPACING @ 12 IN C/C  
 ITEM 844, GALVANIC ANODE PROTECTION, 96 EACH

**ITEM 514 - PAINTING OF STRUCTURAL STEEL**

THE COLOR FOR THE FINISHED COAT OF STRUCTURE MAH-680-13.427 WILL CONFORM TO FEDERAL COLOR NUMBER 15526 (BLUE). THIS WORK IS TO BE COMPLETED IN CALENDAR YEAR 2025.

LOCATIONS TO BE PAINTED WILL INCLUDE:

- SPAN 3
- BEAMS 1 - 3: REPAIRED PORTION OVER RIGHT LANE OF ROADWAY
- BEAMS 4 - 5: REPAIRED PORTION OVER BOTH LANES OF ROADWAY

NOTE ADDED FOR REPAIR PAINTING OF MAH-680-13.427 STRUCTURE

STRUCTURE NOTES

MAH-680-12.488, MAH-680-13.427, MAH-680-14.415,  
 MAH-680-15.495R, MAH-680-15.715L, & MAH-164-5.269

SFN  
 VARIOUS  
 DESIGN AGENCY



DESIGNER	CHECKER
SBD	JF

REVIEWER  
 MJA 12-13-24

PROJECT ID  
 101046

SUBSET	TOTAL
1	3

SHEET	TOTAL
P.16	18

2ND COLUMN  
ADDED FOR  
PAINTING  
QUANTITIES

CALC:	SBD	DATE:	8/23/2024
CHECKED:	MJA	DATE:	12/17/2024

ESTIMATED QUANTITIES											
BRIDGE NO. / STRUCTURE FILE NO.							ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
MAH-680-12.488 5007747 03/IMS	MAH-680-13.427 5007828 02/IMS	MAH-680-13.427 5007828 02/IMS	MAH-680-14.415 5003253 02/IMS	MAH-680-15.495 R 5007879 02/IMS	MAH-680-15.715 L 5007860 02/IMS	MAH-164-5.269 5003230 02/IMS					
LS	LS	LS	LS	LS	LS		201	11001		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS	1 / 3
	356						254	01000	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 1 1/2")	
	32						407	20000	GAL	NON-TRACKING TACK COAT	
	14						441	70100	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M	
	10		5				512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	1113			726	726	2527	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
	937			466	468	1616	512	74500	FT	REMOVAL OF EXISTING PAVEMENT MARKING	
		LS					514	00100		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
		LS					514	00200		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
		LS					514	00300		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
		LS					514	00400		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
		2					514	00504	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
		1					514	10000	EACH	FINAL INSPECTION REPAIR	
	85		40				519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 / 3
	204		96				844	20000	EACH	GALVANIC ANODE PROTECTION	
	LS		LS				844	21000		GALVANIC ANODE SYSTEM	

PAINTING ITEMS  
AND QUANTITIES  
ADDED

STRUCTURE ESTIMATED QUANTITIES  
 MAH-680-12.488, MAH-680-13.427, MAH-680-14.415,  
 MAH-680-15.495R, MAH-680-15.715L, MAH-164-5.269

SFN  
 VARIOUS  
 DESIGN AGENCY



DESIGNER: SBD  
 CHECKER: JF  
 REVIEWER: MJA 12-13-24  
 PROJECT ID: 101046  
 SUBSET: 2 | TOTAL: 3  
 SHEET: P.17 | TOTAL: 18