

ITEM 614, MAINTAINING TRAFFIC

TWO-WAY TRAFFIC WITH A MINIMUM OF ONE 11 FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT ON S. R. 7.

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.

ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES AND DRIVE CLOSURES SHALL BE LIMITED TO ONLY TIMES OF WORK FOR CURB, SIDEWALK, AND SEEDING AND MULCHING ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH TRUE NORTH FOR FUEL DELIVERY SCHEDULES AND LIMIT THIS WORK TO DAYS FUEL IS NOT BEING DELIVERED.

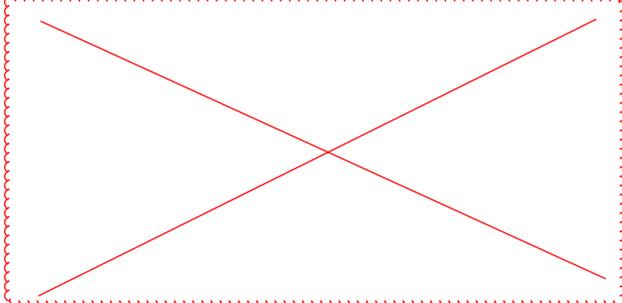
THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208 EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.

IF IT IS NECESSARY TO STOP ALL TRAFFIC FOR THE ERECTION OF TRAFFIC SIGNAL SUPPORTS OR MAST ARMS THE WORK SHALL BE SO ARRANGED THAT THE STOPPAGE IS LESS THAN TEN (10) MINUTES IN ANY ONE (1) THIRTY (30) MINUTE PERIOD. NO STOPPAGE OF TRAFFIC SHALL OCCUR FOR THE ERECTION OF SIGNAL SUPPORTS, MAST ARMS, WIRING, OR SIGNAL HEADS WITHOUT A LAW ENFORCEMENT OFFICER WITH A PATROL CAR AT THE SITE FOR ASSISTANCE IN CONTROLLING TRAFFIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE SERVICES AND SCHEDULING OF SAID LAW ENFORCEMENT OFFICER WITH PATROL CAR.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL FLAGS, FLAGGERS, WATCHERS, BARRICADES, SIGNS, SIGN SUPPORTS, AND INCIDENTALS RELATED TO TRAFFIC CONTROL.

SIGNS FURNISHED SHALL BE IN NEW OR LIKE NEW CONDITIONS. LIKE NEW SIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PROVIDING AND MAINTAINING LIGHTS, SIGNS, AND BARRICADES FOR THE MAINTENANCE OF TRAFFIC AND SAFETY OF HIS/HER WORK AT THE LOCATIONS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.



IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND THE 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 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.

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)	GENERAL/REGULAR ELECTION DAY (NOV)
MEMORIAL DAY	THANKSGIVING
FOURTH OF JULY (OBSERVED)	CHRISTMAS (OBSERVED)
LABOR DAY	CANFIELD FAIR

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 PEDESTRIAN 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).

LANE VALUE CONTRACT TABLE			
DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
S. R. 7, SHIELDS ROAD, INDIANOLA ROAD	AS LISTED IN ITEM 614, MAINTAINING TRAFFIC NOTE	MIN/LANE	\$95

INTERIM COMPLETION DATE

ALL ITEMS OF WORK, WITH THE EXCEPTION OF PROPOSED SIGNAL WORK, SHALL BE COMPLETED BY 9/30/2025.

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 CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS 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.

ITEM 614, MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

- ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL) 2 EACH
- ITEM 614, BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL 6 EACH
- ITEM 614, OBJECT MARKER, TWO WAY 6 EACH
- ITEM 622, PORTABLE BARRIER, UNANCHORED 250 FT

ITEM SPECIAL, WORK ZONE TRAFFIC SIGNAL

THIS ITEM SHALL BE AS PER C&MS 614.10 AND INCLUDES PROVIDING TEMPORARY SIGNAL MODIFICATIONS TO KEEP THE EXISTING TRAFFIC IN OPERATION WHILE CONSTRUCTING THE PROPOSED TRAFFIC SIGNAL. THE TEMPORARY MODIFICATIONS SHALL BE COMPLETE AND OPERATIONAL PRIOR TO BEGINNING CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNAL.

THIS ITEM SHALL INCLUDE PROVIDING ALL EQUIPMENT, MATERIALS, LABOR, AND INCIDENTALS TO COMPLETE TEMPORARY TRAFFIC SIGNAL MODIFICATIONS.

REMOVAL OF ALL TEMPORARY ITEMS SHALL BE INCIDENTAL TO THIS ITEM.

ITEM SPECIAL, WORK ZONE TRAFFIC SIGNAL 1 EACH

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 1 M GAL.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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

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

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

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

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

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.4	P.5	P.14	P.17	P.18	P.24	01/SAF/21	02/S>2/04											
TRAFFIC SIGNALS CONTINUED																		
			96			96		625	29400	96	FT	TRENCH IN PAVED AREA						
			5			5		625	30700	5	EACH	PULL BOX, 725.08, 18"						
			1			1		625	30706	1	EACH	PULL BOX, 725.08, 24"						
			3			3		625	31510	3	EACH	PULL BOX REMOVED						
			8			8		625	32000	8	EACH	GROUND ROD						
			262			262		625	36011	262	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.13					
		1				1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (SR-7 & SHIELDS ROAD)	P.14					
			6			6		632	05006	6	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK						
			4			4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK						
			8			8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.14					
			6			6		632	20750	6	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON						
			2			2		632	20751	2	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.14					
			10			10		632	25000	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD	P.14					
			8			8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD						
			1,313			1,313		632	40500	1,313	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG						
			1,239			1,239		632	40700	1,239	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG						
			3			3		632	64010	3	EACH	SIGNAL SUPPORT FOUNDATION	P.14					
			3			3		632	64020	3	EACH	PEDESTAL FOUNDATION						
			1,281			1,281		632	65300	1,281	FT	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG						
						107		632	68200	107	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG						
						81		632	69800	81	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG						
						1		632	70000	1	EACH	POWER SERVICE						
						1		632	71372	1	EACH	SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 13 AND DESIGN 13						
						1		632	72110	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4						
						1		632	72150	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14						
						3		632	89900	3	EACH	PEDESTAL, 8', TRANSFORMER BASE						
						1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	P.14					
						1		632	90104	1	EACH	REUSE OF TRAFFIC CONTROL ITEM: MODEM	P.15					
						1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.14					
						1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.15					
						1		633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	P.15					
						1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.15					
						2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.15					
						4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.15					
						1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.14					
MISCELLANEOUS STRUCTURE																		
					LS		LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	P.24					
					11		11	503	21101	11	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	P.24					
					138		138	509	10000	138	LB	EPOXY COATED STEEL REINFORCEMENT						
					16		16	510	10000	16	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT						
					1		1	511	47010	1	CY	CLASS QC1 CONCRETE, CULVERT						
					6		6	512	33000	6	SY	TYPE 2 WATERPROOFING						
					1		1	611	99651	1	EACH	MANHOLE FRAME AND COVER, AS PER PLAN	P.24					
					8		8	611	99690	8	EACH	MANHOLE, MISC.: MANHOLE STEPS	P.24					
MAINTENANCE OF TRAFFIC																		
		40				16	24	614	11110	40	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE						
		1				1		SPECIAL	61411300	1	EACH	WORK ZONE TRAFFIC SIGNAL	P.4					
		2				2		614	12384	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)						
		6				6		614	13310	6	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL						
		6				6		614	13360	6	EACH	OBJECT MARKER, TWO WAY						
		1				1		616	10000	1	MGAL	WATER						
		250				250		622	41100	250	FT	PORTABLE BARRIER, UNANCHORED						
INCIDENTALS																		
						LS		614	11000	LS		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
KDW
 REVIEWER
TWG 10-01-24
 PROJECT ID
114736
 SHEET TOTAL
 P:8 | 25