

**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 OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, 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.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED 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 FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
- THE ACTIVE WORK AREA Laterally CLOSEST TO THE OPEN TRAVELED LANE; OR
- OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

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

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

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 CONTRACTOR. 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.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

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. 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 THAT 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 500 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 A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

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 PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 - WORK ZONE MARKINGS

THE CONTRACTOR SHALL PLACE WORK ZONE PAVEMENT MARKINGS UPON COMPLETION OF THE ASPHALT SURFACE COURSE PRIOR TO OPENING THE ROADWAY TO TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

ITEM 614 WORK ZONE EDGE LINE 6", CLASS I, 807 PAINT	3.60 MILE
ITEM 614 WORK ZONE LANE LINE 6", CLASS I, 807 PAINT	1.67 MILE
ITEM 614 WORK ZONE CHANNELIZING LINE, 12", CLASS I, 807 PAINT	4,635 FT
ITEM 614 WORK ZONE DOTTED LINE, 6", CLASS I, 807 PAINT	2,011 FT
ITEM 614 WORK ZONE EDGE LINE 6", CLASS III, 642 PAINT	2.80 MILE
ITEM 614 WORK ZONE LANE LINE 6", CLASS III, 642 PAINT	0.05 MILE
ITEM 614 WORK ZONE CENTER LINE, CLASS III, 642 PAINT	2.66 MILE
ITEM 614 WORK ZONE CHANNELIZING LINE, 12", CLASS III, 642 PAINT	775 FT
ITEM 614 WORK ZONE STOP LINE, CLASS III, 642 PAINT	50 FT
ITEM 614 WORK ZONE ARROW, CLASS III, 642 PAINT	27 EACH

SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.015	P.016	P.018	P.019	P.020	P.023	P.091				01/NHS/13	02/S>2/13	03/S>2/05						
						LS 476					LS 476		202 SPECIAL	11201 53051020	LS 476	SF	RETAINING WALLS (001) PORTIONS OF STRUCTURE REMOVED, AS PER PLAN RETAINING WALL, TIMBER LAGGING	P.091 P.091
											LS						STRUCTURE OVER 20 FOOT SPAN (HAM-00050-29.100)	P.115
											LS						STRUCTURE OVER 20 FOOT SPAN (HAM-00050-29.280)	P.165
				500						200	200	100	614	11110	500	HOUR	MAINTENANCE OF TRAFFIC LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	1,620									551	1,069		614	11630	1,620	FT	INCREASED BARRIER DELINEATION	
					16					10	6		614	12380	16	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
8			LS							LS			614	12420	LS		DETOUR SIGNING	
										4	4		614	12484	8	EACH	WORK ZONE INCREASED PENALTIES SIGN	
4										2	2		614	12756	4	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
	192									65	127		614	12801	192	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.016
		30								30			614	13000	30	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
					426					183	243		614	13310	426	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
					15					7	8		614	13312	15	EACH	BARRIER REFLECTOR, TYPE 2 (ONE WAY)	
					109					42	67		614	13350	109	EACH	OBJECT MARKER, ONE WAY	
					161					68	93		614	13360	161	EACH	OBJECT MARKER, TWO WAY	
			48							24	12	12	614	18601	48	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.019
					0.2					0.2			614	20010	0.2	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
				1.67						0.77	0.9		614	20056	1.67	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
				0.05								0.05	614	20560	0.05	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
				2.66								2.66	614	21550	2.66	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
					5.8					2.4	3.4		614	22010	5.8	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
				3.6						1.91	1.69		614	22056	3.6	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
				2.8								2.8	614	22360	2.8	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
					1,453					1,453			614	23010	1,453	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"	
				4,635						4,635			614	23110	4,635	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
				775								775	614	23690	775	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
					2,708					971	1,737		614	24000	2,708	FT	WORK ZONE DOTTED LINE, CLASS I	
				2,011						1,415	596		614	24102	2,011	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
				50								50	614	26610	50	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
				27								27	614	30650	27	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
		LS								LS	LS		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
										210	214		615	20000	424	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
			20							6	6	8	616	10000	20	MGAL	WATER	
					7,560					3,046	4,514		622	41100	7,560	FT	PORTABLE BARRIER, UNANCHORED	
					3,592					1,096	2,496		622	41110	3,592	FT	PORTABLE BARRIER, ANCHORED	
					10					5	5		630	83000	10	SF	COVERING OF SIGN	
	24									12	12		829	00100	24	SNMT	WORK ZONE EGRESS WARNING SYSTEM	
	60,000										60,000		900	00100	60,000	EACH	RAILROAD FLAGGING SERVICES	
										LS	LS	LS	108	10000	LS		INCIDENTALS CPM PROGRESS SCHEDULE	
		LS								LS	LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
										2	4	2	619	16020	8	MNTH	FIELD OFFICE, TYPE C	
										LS	LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS	LS	LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY
TRANSYSYSTEMS
 1100 SUPERIOR AVE. E. STE 1000
 CLEVELAND, OHIO 44114

DESIGNER
MSW

REVIEWER
GHM 08/22/23

PROJECT ID
110570

SHEET TOTAL
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