

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

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE WHEN NO LONGER NEEDED, CHANGEABLE MESSAGE SIGNS, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR. ONLY CLASS I OR II SIGNS WILL BE PERMITTED.

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 TROUBLE SHOOT 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 RETRO REFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

A PCMS SHALL BE PLACED "AS DIRECTED BY THE PROJECT ENGINEER" IN CONJUNCTION WITH LANE CLOSURES. THE MESSAGES SHALL BE AS DIRECTED BY THE ENGINEER. THE 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 CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS WILL BE OFF, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE HIGH INTENSITY YELLOW REFLECTIVE SHEETING SURFACES OF 9" BY 15" MINIMUM, 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 TROUBLE SHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NEEDED.

THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LAST 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 SHOULD BE SUPPORTED, BUT NORMALLY, NOT MORE THAN TWO MESSAGE PHASES SHOULD BE EMPLOYED, ALTHOUGH THREE PHASES MAY BE USED IN UNUSUAL CONDITIONS. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST ONCE. 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 FOR DIFFERENT DAYS OF THE WEEK.

THE CONTRACTOR, IN ACCORDANCE WITH THE PROVISIONS OF 614.03, SHALL MAINTAIN THE PCMS UNIT IN GOOD WORKING ORDER. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ENSURE PROMPT SERVICE IN THE EVENT OF A FAILURE. ANY FAILURE SHALL NOT 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 TO THE CONTRACTOR ON THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOUR PER DAY OPERATIONS AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES 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 ITS RESPONSIBILITIES AS OUTLINED IN 104.04.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT BID PRICE PER MONTH FOR EACH ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
 2 SIGNS X 3 MONTHS = 6 SNMT

ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT:
 WORK ZONE CENTER LINE SHALL BE PLACED TO REFLECT THE PROPOSED CENTER LINE AS DETERMINED FROM THE PROPOSED MARKINGS WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE, AND TYPE OF WORK ZONE MARKINGS NEEDED MEETING THE REQUIREMENTS OF ITEM 614 BEFORE THE REMOVAL OR RESURFACING OBLITERATES THE EXISTING.

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

WORK ZONE CENTER LINE					
ROUTE	BEG STA.	END STA.	APPLICATIONS	QUANTITY	UNIT
MAR-739	0+00.00	191+79.59	2	7.26	MILE
MAR-47	451+79.56	480+83.40	2	1.16	MILE
TOTAL				8.42	MILE

ITEM 614 - WORK ZONE MARKING SIGN, AS PER PLAN:
 "DO NOT PASS" AND "PASS WITH CARE" SIGNS SHALL BE PLACED TO REFLECT THE EXISTING PASSING AND NO PASSING ZONES. THESE SIGNS SHALL BE COVERED OR REMOVED WITHIN 24 HOURS OF THE PLACEMENT OF THE PERMANENT CENTERLINE MARKINGS.

ROUTE	R4-2-18	W8-H12A-36
	DO NOT PASS	PASS WITH CARE
	EACH	EACH
MAR-739	7	7

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - WORK ZONE MARKING SIGN, AS PER PLAN =14 EACH

ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT:
 WORK ZONE EDGE LINE SHALL BE PLACED TO REFLECT THE PROPOSED EDGE LINE AS DETERMINED FROM THE PROPOSED MARKINGS WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE, AND TYPE OF WORK ZONE MARKINGS NEEDED MEETING THE REQUIREMENTS OF ITEM 614 BEFORE THE REMOVAL OR RESURFACING OBLITERATES THE EXISTING.

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

WORK ZONE EDGE LINE					
ROUTE	BEG STA.	END STA.	APPLICATIONS	QUANTITY	UNIT
MAR-739	0+00.00	191+79.59	2	14.52	MILE
TOTAL				14.52	MILE

ITEM 614 - MAINTENANCE OF TRAFFIC: PAYMENT
 NO ADDITIONAL COMPENSATION SHALL BE MADE BEYOND THE QUANTITIES LISTED ABOVE. ANY OTHER WORK SHALL BE PAID UNDER THE LUMP SUM PAY ITEM FOR ITEM 614, MAINTAINING TRAFFIC.

DESIGN AGENCY



DESIGNER

AMH

REVIEWER

VP 06/30/23

PROJECT ID


112876

SHEET TOTAL

P.13 P.53

SHEET NUMBER														PARTICIPATION		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
														01/STR/05	02/STR/05						
P.9-P.10	P.11-P.13	P.16	P.17	P.18	P.19	P.20	P.21	P.39	P.49	P.51	P.52	P.53									
									286					286	621	00100	286	EACH	TRAFFIC CONTROL RPM		
									286					286	621	54000	286	EACH	RAISED PAVEMENT MARKER REMOVED		
						26								26	626	00110	26	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL		
									50					50	630	02100	50	FT	GROUND MOUNTED SUPPORT, NO. 2 POST		
									100					100	630	03100	100	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		
														41.4	630	80100	41.4	SF	SIGN, FLAT SHEET		
						1			1					2	630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
									7.36					7.36	642	00104	7.36	MILE	EDGE LINE, 6", TYPE 1		
									4.24					4.24	642	00300	4.24	MILE	CENTER LINE, TYPE 1		
									166					166	644	00500	166	FT	STOP LINE		
									348					348	644	00630	348	FT	CROSSWALK LINE, 24"		
										129				129	SPECIAL	51631200	129	FT	STRUCTURE OVER 20 FOOT SPAN (MAR-739-0118, SFN: 5103673) SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	P.50	
											10			10	519	12300	10	SY	STRUCTURE OVER 20 FOOT SPAN (MAR-739-0351, SFN: 5103762) PATCHING CONCRETE BRIDGE DECK - TYPE B		
												112		112	SPECIAL	51631200	112	FT	STRUCTURE OVER 20 FOOT SPAN (MAR-739-0358, SFN: 5103789) SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	P.50	
																			MAINTENANCE OF TRAFFIC		
	40													40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
	14													14	614	12461	14	EACH	WORK ZONE MARKING SIGN, AS PER PLAN	P.13	
	6													6	614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.13	
	8.42													8.42	614	21550	8.42	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		
	14.52													14.52	614	22360	14.52	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		
																			INCIDENTALS		
														LS	614	11000	LS		MAINTAINING TRAFFIC		
														LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	P.10	
														LS	624	10000	LS		MOBILIZATION		

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER: AMH
 REVIEWER: DR 07/20/23
 PROJECT ID: 112876
 SHEET: P.15 | TOTAL: P.53