

PROJECT DESCRIPTION

I. GENERAL

This project involves the upgrading to video detection at the intersection of MD 140 at Old Baltimore/Market Street and lane assignment at MD 140 at Old Baltimore/Market Street in Carroll County. MD 140 is assumed to run in an East-West direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA six-phase, full-actuated mode, with the side street split phasing for the Old Baltimore and Market Street approach.

NOTES

- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- Contractor shall contact Carroll County Department of Public Works prior to construction to coordinate pavement marking modifications to be performed by the County.

CONTACTS

DISTRICT

MR. DAVE COTNE
DISTRICT ENGINEER
301-624-8101

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-624-8140

MS. ANDREA ABEND
DISTRICT ENGINEER - UTILITIES
301-624-8115

MR. JOHN HUCHRIWSKI
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-624-8200

MR. RAYMOND F. JOHNSON
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-624-8105

CARROLL COUNTY

MR. CHRIS LETNAUDRYN
CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS
410-386-2035

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	7.5 SF	[UPDATED] SHEET ALUMINUM MAST ARM /POLE MOUNTED SIGN

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

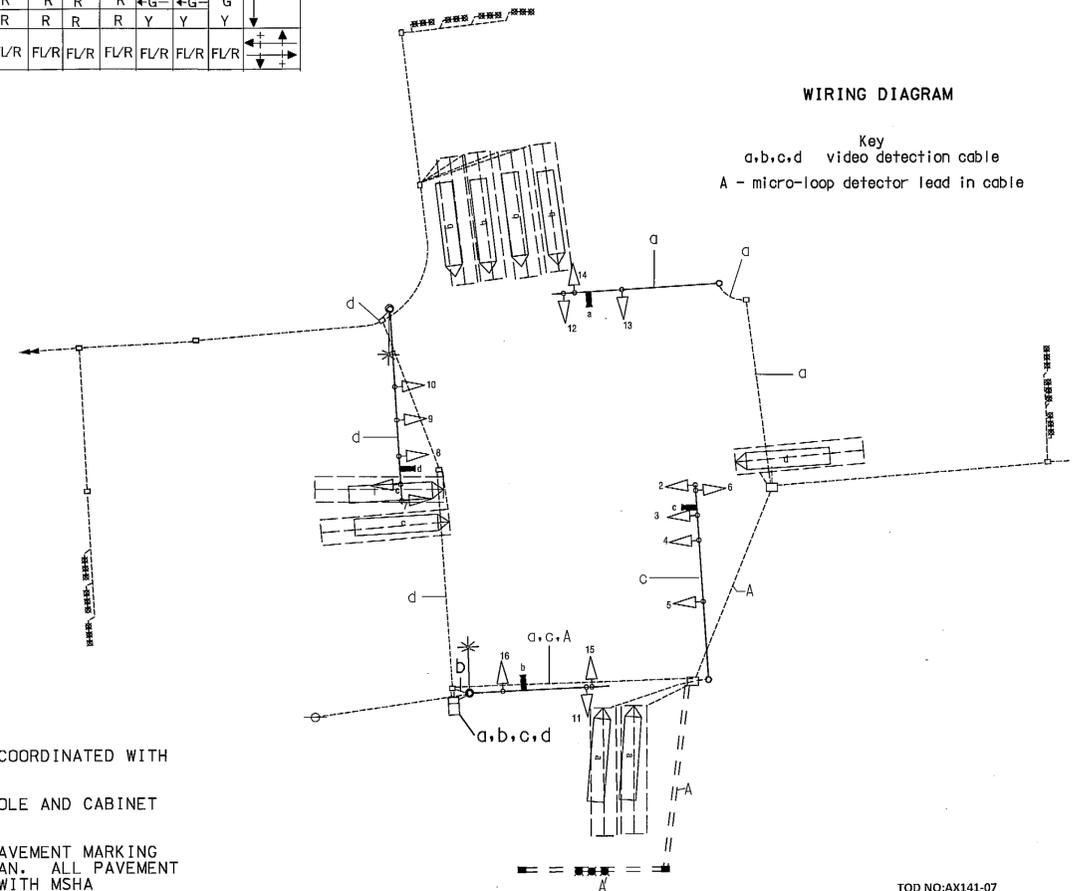
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8003	4 EA	CLAMP ON VIDEO CAMERA ARM
8007	4 EA	VIDEO DETECTION CAMERA & CABLE
8010	54 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8012	119 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8016	1 EA	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
8018	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

NEMA PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 5	←G-	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6, OR 2 & 5, OR 2 & 6																
PHASE 1 & 6	←G-	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R	R
1 CHANGE	←Y-	←Y-	←Y-	Y	Y	←R-	←R-	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	←R-	←R-	←R-	R	R	←G-	←G-	G	G	G	R	R	R	R	R	R	R
5 CHANGE	R	R	R	R	R	←Y-	←Y-	G	G	G	R	R	R	R	R	R	R
PHASE 2 & 6	←R-	←R-	←R-	G	G	←R-	←R-	G	G	G	R	R	R	R	R	R	R
2 & 6 CHANGE	←R-	←R-	←R-	Y	Y	←R-	←R-	Y	Y	Y	R	R	R	R	R	R	R
PHASE 3	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	←G-	G	←G-	G	R	R	R
PHASE 3 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	Y	Y	Y	R	R	R	R
PHASE 4	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	←G-	←G-	G
PHASE 4 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	Y	Y	Y
FLASHING																	
OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/R						

WIRING DIAGRAM

Key
a,b,c,d video detection cable
A - micro-loop detector lead in cable



GENERAL NOTES

- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

TOD NO: AX141-07
SHA NO: CL448A51/CS1
MD 140@OLD BALTIMORE/MARKET ST

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 140 AT OLD BALTIMORE/MARKET STREET
SIGNAL MODIFICATION

GENERAL INFORMATION	
SCALE 1"=20'	ADVERTISED DATE 12/01/08 CONTRACT NO. AX1415185
DESIGNED BY _____	COUNTY CARROLL
DRAWN BY JANAY SMITH	LOGMILE 06014007.59
CHECKED BY _____	TMS NO. J328
F.A.P. NO. AC-STPG-NHG-000A(217)E	TOD NO. _____
TS NO. 4050A-G1	DRAWING G1 -- 1 OF 1 SHEET NO. 2 OF 2

BY: jsmith21