

**PROJECT DESCRIPTION**

**I. GENERAL**

This project involves the modification of the existing traffic signal to change the existing exclusive-permissive left turn phasing to exclusive left turn phasing along southbound MD 279 in Elkton, Maryland. MD 279 is assumed to run in a north-south direction.

**II. INTERSECTION OPERATION**

- The intersection is to operate in a NEMA 6-phase, semi-actuated mode, with exclusive left turn phasing for the northbound and southbound MD 279 approaches.
- The existing NEMA full-traffic-actuated, eight (8) phase controller housed in a NEMA 6 base mounted cabinet is utilized at this location.

**NOTES**

- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling 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.

**CONTACTS**

**DISTRICT 2**

MR. TERRY O. WRIGHT  
DISTRICT ENGINEER  
410-810-3210

MR. JEFFERY WENTZ  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-810-3240

MR. BARRY CLOTHIER  
UTILITY ENGINEER  
410-810-3275

MR. WM NORRIS EMBERT  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-810-3270

MR. HENRY TEETS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-810-3250

**OFFICE OF TRAFFIC AND SAFETY**

MR. AVIJIT MAJI  
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

MR. MIKE STOCKER  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

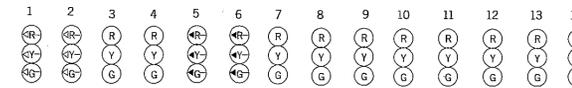
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9570	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF:	SF	29
	M3-4 (30" X 15")	EA	1
	M1-5 (48" X 36")	EA	1
	M6-1 (L) (21" X 15")	EA	1
	DM1-3 (18" X 18")	EA	1
	M1-5 (30" X 24")	EA	1
	M3-3 (24" X 12")	EA	1
	M6-1 (R) (21" X 15")	EA	1
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF:	SF	77
	D-3(1) (VAR. X 16")	EA	4
	M1-5(6) (30" X 48")	EA	1
	M1-5(6) (48" X 72")	EA	1

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

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8001	12 INCH LED SIGNAL HEAD SECTION	EA	9
8005	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER	EA	1
8009	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EA	1
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	20
8039	WOOD SIGN SUPPORTS UP TO 4' X 6'	LF	59
8040	INSTALL OVERHEAD OR GROUND MOUNT SIGN (INCLUDING ALL HARDWARE)	SF	117
8055	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	160

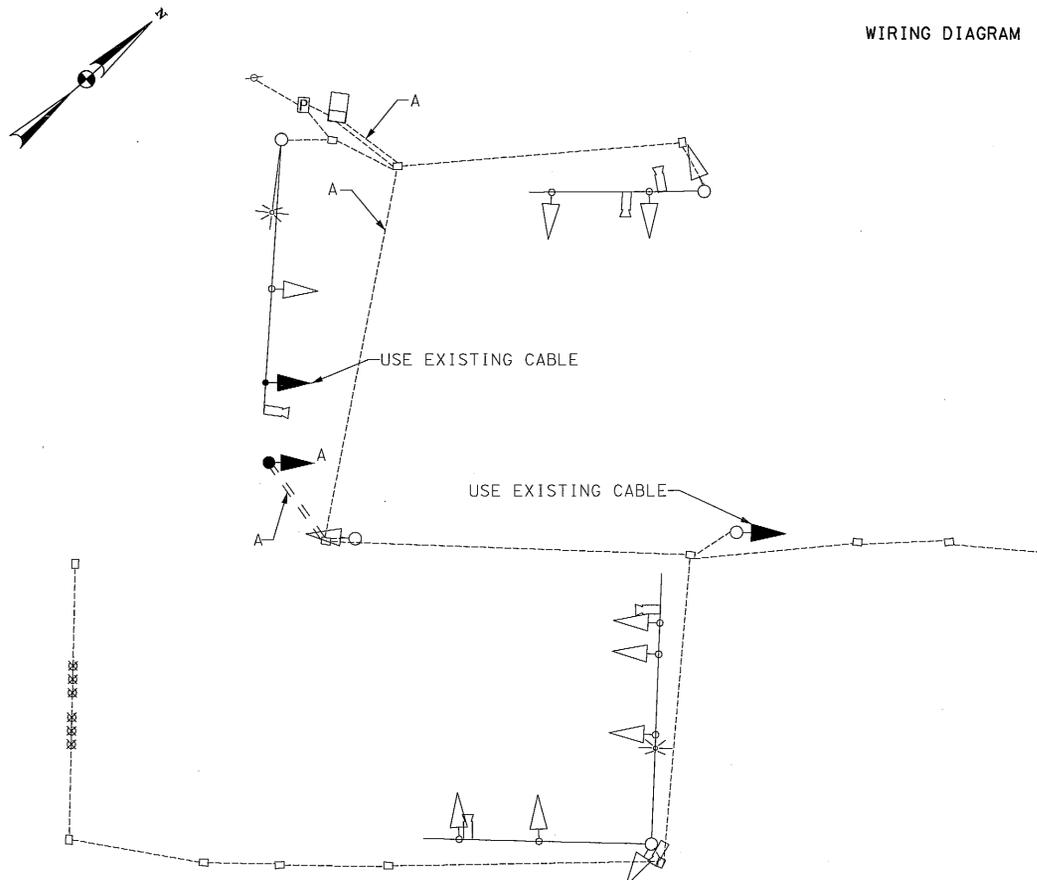
**C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR**

**PHASE CHART**



PHASE 1 AND 5	←G- ←G-	R R	←G- ←G-	R R	R R	R R	R R	R R	R R	R R	R R	R R	R R
PHASE 1 AND 5 MAY CHANGE TO PHASE 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	←G- ←G-	G G	←R- ←R-	R R	R R	R R	R R	R R	R R	R R	R R	R R	R R
1 AND 6 CHANGE	←Y- ←Y-	G G	←R- ←R-	R R	R R	R R	R R	R R	R R	R R	R R	R R	R R
PHASE 2 AND 5	←R- ←R-	R R	←G- ←G-	G G	R R	R R	R R	R R	R R	R R	R R	R R	R R
2 AND 5 CHANGE	←R- ←R-	R R	←Y- ←Y-	G G	R R	R R	R R	R R	R R	R R	R R	R R	R R
PHASE 2 AND 6	←R- ←R-	G G	←R- ←R-	G G	R R	R R	R R	R R	R R	R R	R R	R R	R R
2 AND 6 CHANGE	←R- ←R-	Y Y	←R- ←R-	Y Y	R R	R R	R R	R R	R R	R R	R R	R R	R R
PHASE 4 AND 8	←R- ←R-	R R	←R- ←R-	R R	G G	G G	G G	G G	G G	G G	G G	G G	G G
4 AND 8 CHANGE	←R- ←R-	R R	←R- ←R-	R R	Y Y	Y Y	Y Y	Y Y	Y Y	Y Y	Y Y	Y Y	Y Y
FLASHING OPERATION	FL /R FL /R	FL /Y FL /Y	FL /R FL /R	FL /Y FL /Y	FL /R FL /R	FL /Y FL /Y	FL /R FL /R	FL /Y FL /Y	FL /R FL /R	FL /Y FL /Y	FL /R FL /R	FL /Y FL /Y	FL /R FL /R

**WIRING DIAGRAM**



**KEY**

A } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

TOD NO: XX661-40  
SHA NO: CE401B5C  
MD 277 @ MD 279

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 279 (ELKTON ROAD) AT MD 277 (FLETCHWOOD ROAD)  
ELKTON, MARYLAND

**GENERAL INFORMATION SHEET**

SCALE N.T.S. DATE JAN. 2013 CONTRACT NO. XX6615185  
DESIGNED BY K. HENSON COUNTY CECIL  
DRAWN BY K. HENSON LOGMILE 07027904.91  
CHECKED BY A. GRIFFIN T.I.M.S. NO. 1635  
F.A.P. NO. TOD NO.

TS NO. 1541(1) DRAWING NO. pSG OF N001 SHEET NO. 2 OF 2

**SABRA, WANG & ASSOCIATES, INC.**  
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BY: khenson -