

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic signal to provide Emergency Vehicle Pre-emption at the intersection of MD 5 (Branch Avenue) and Brandywine Road in Brandywine, Maryland. MD 5 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with exclusive left turn phasing for the MD 5 approaches and exclusive-permissive left turn phasing for the Brandywine Road approaches.
- The existing NEMA full-traffic-actuated, eight (8) phase controller housed in a NEMA 6 base mounted cabinet will be 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 THREE

MR. BRIAN YOUNG
DISTRICT ENGINEER
301-513-7311

MR. VENU NEMANI
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7358

MR. VICTOR GRAFTON
UTILITY ENGINEER
301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7385

MR. TOM FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

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

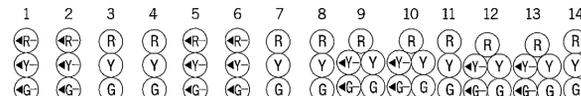
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

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

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8036	4 CONDUCTOR OPTICOM CABLE	LF	500
8052	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764	EA	1
8054	OPTICOM NO. 721 DETECTOR EYE	EA	2

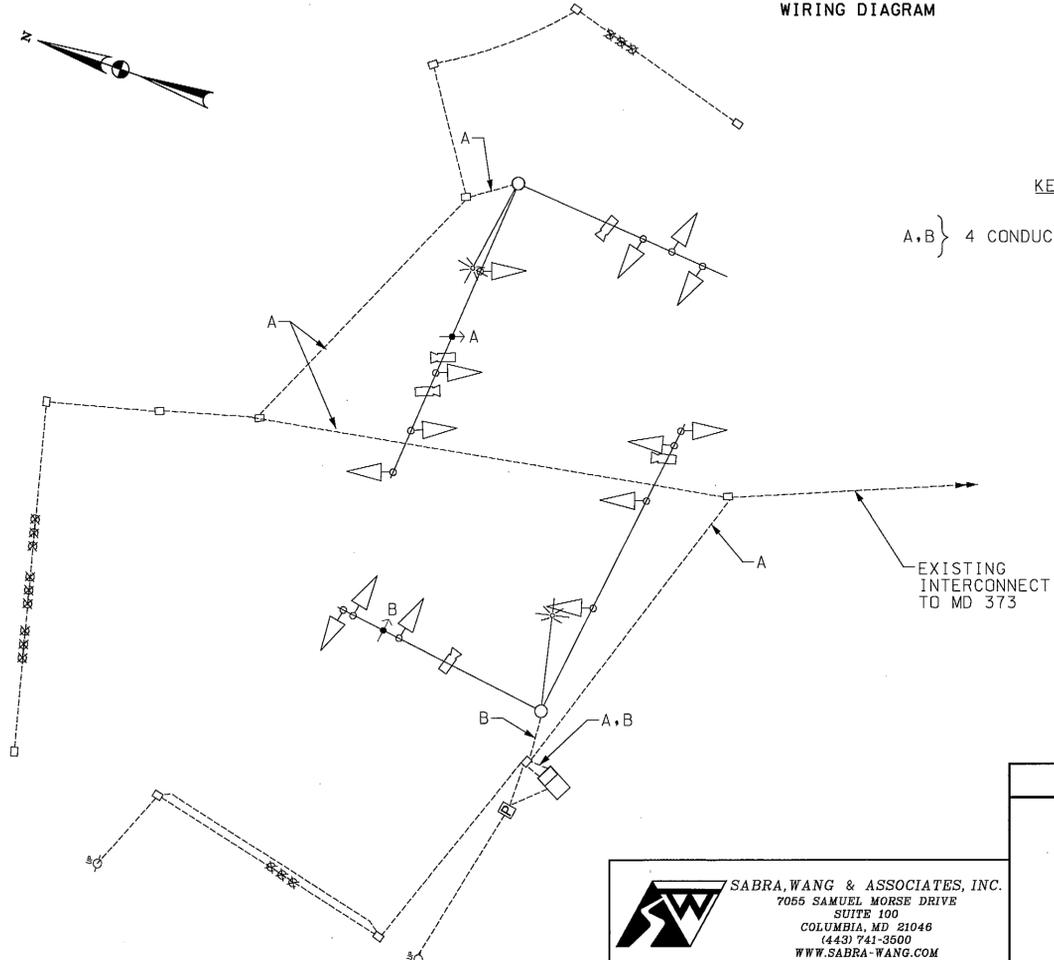
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART



PHASE 1 AND 5	←G- ←G- R R ←G- ←G- R R R R R R R R R R	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6		
PHASE 1 AND 6	←R- ←R- R R ←G- ←G- G G R R R R R R R R	
1 CHANGE	←R- ←R- R R ←Y- ←Y- Y Y R R R R R R R R	
PHASE 2 AND 5	←G- ←G- G G ←R- ←R- R R R R R R R R R R	
5 CHANGE	←Y- ←Y- Y Y ←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	
2 AND 6 CHANGE	←R- ←R- Y Y ←R- ←R- Y Y R R R R R R R R	
PHASE 3 AND 7	←R- ←R- R R ←R- ←R- R R ←GR ←GR R ←GR ←GR R	
3 AND 7 MAY CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8		
PHASE 3 AND 8	←R- ←R- R R ←R- ←R- R R ←GG ←GG G R R R R	
3 CHANGE	←R- ←R- R R ←R- ←R- R R ←YG ←YG G R R R R	
PHASE 4 AND 7	←R- ←R- R R ←R- ←R- R R R R R R ←GG ←GG G	
7 CHANGE	←R- ←R- R R ←R- ←R- R R R R R R ←YG ←YG G	
PHASE 4 AND 8	←R- ←R- R R ←R- ←R- R R 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	
FLASHING OPERATION	FL/ ←R- FL/ ←R- FLY FLY FL/ ←R- FL/ ←R- FLY FLY FL/ R FL/ R FL/ R FL/ R FL/ R	
PRE-EMPTION A	←G- ←G- G G ←R- ←R- R R R R R R R R R	
PRE-EMPTION B	←R- ←R- R R ←R- ←R- R R R R R R ←GG ←GG G	

WIRING DIAGRAM



KEY

A,B } 4 CONDUCTOR OPTICOM CABLE

TOD NO: XY132-11
SHA NO: PG440B54
MD 5 @ MD 381/MD 5 @ MD 373

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 5 (BRANCH AVENUE) AT BRANDYWINE ROAD
BRANDYWINE, MD

REVISIONS		GENERAL INFORMATION SHEET	
SCALE	N.T.S.	DATE	JAN. 2013
CONTRACT NO.	XY1325185	DESIGNED BY	K. HENSON
COUNTY	PRINCE GEORGE'S	DRAWN BY	K. HENSON
LOGMILE	16000503.11	CHECKED BY	A. GRIFFIN
T.I.M.S. NO.	1632	F.A.P. NO.	
TOD NO.		TS NO. 1526 ©	DRAWING NO. pSG OF N001
SHEET NO.	2 OF 2		

SABRA, WANG & ASSOCIATES, INC.
7055 SAMUEL MORSE DRIVE
SUITE 100
COLUMBIA, MD 21046
(443) 741-3500
WWW.SABRA-WANG.COM

BY: khenson