

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF NEW OPTICOM DETECTORS WITH APPROPRIATE PHASING CHANGES AT THE INTERSECTION OF MD 276 AND BARNES CORNER ROAD/LIBERTY GROVE ROAD IN CECIL COUNTY. MD 276 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, FULL-ACTUATED MODE. THE MD 276 APPROACHES SHALL OPERATE CONCURRENTLY AND THE BARNES CORNER ROAD AND LIBERTY GROVE ROAD APPROACHES SHALL OPERATE CONCURRENTLY. DURING PRE-EMPTION FOR MD 276 PHASES 2 & 6 SHALL OPERATE CONCURRENTLY. PRE-EMPTION FOR BARNES CORNER ROAD SHALL OPERATE PHASES 3 & 8. NOTE THIS WILL BE THE ONLY TIME THAT PHASE 3 WILL BE OPERATIONAL.

**CONTACTS**

The contact persons for this project are as follows:

MR. Jeffrey Wentz  
Assistant District Engineer - Traffic  
Phone: (410) 810-1019

Mr. Terry Wright  
Assistant District Engineer - Maintenance  
Phone: (410) 810-3250

Mr. Barry Clothier  
Utility Engineer  
Phone: (410) 810-3275

Mr. Richard Daff  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Supervisor, Signal Operations  
Phone: 410-787-7650

**PHASE CHART**

1	2	3	4	5	6	7	8
(R)							
(Y)							
(G)							

PHASE 2 & 6	G	G	G	G	R	R	R	R	
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	
PHASE 4 & 8	R	R	R	R	G	G	G	G	
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

**EMERGENCY VEHICLE PRE-EMPTION**

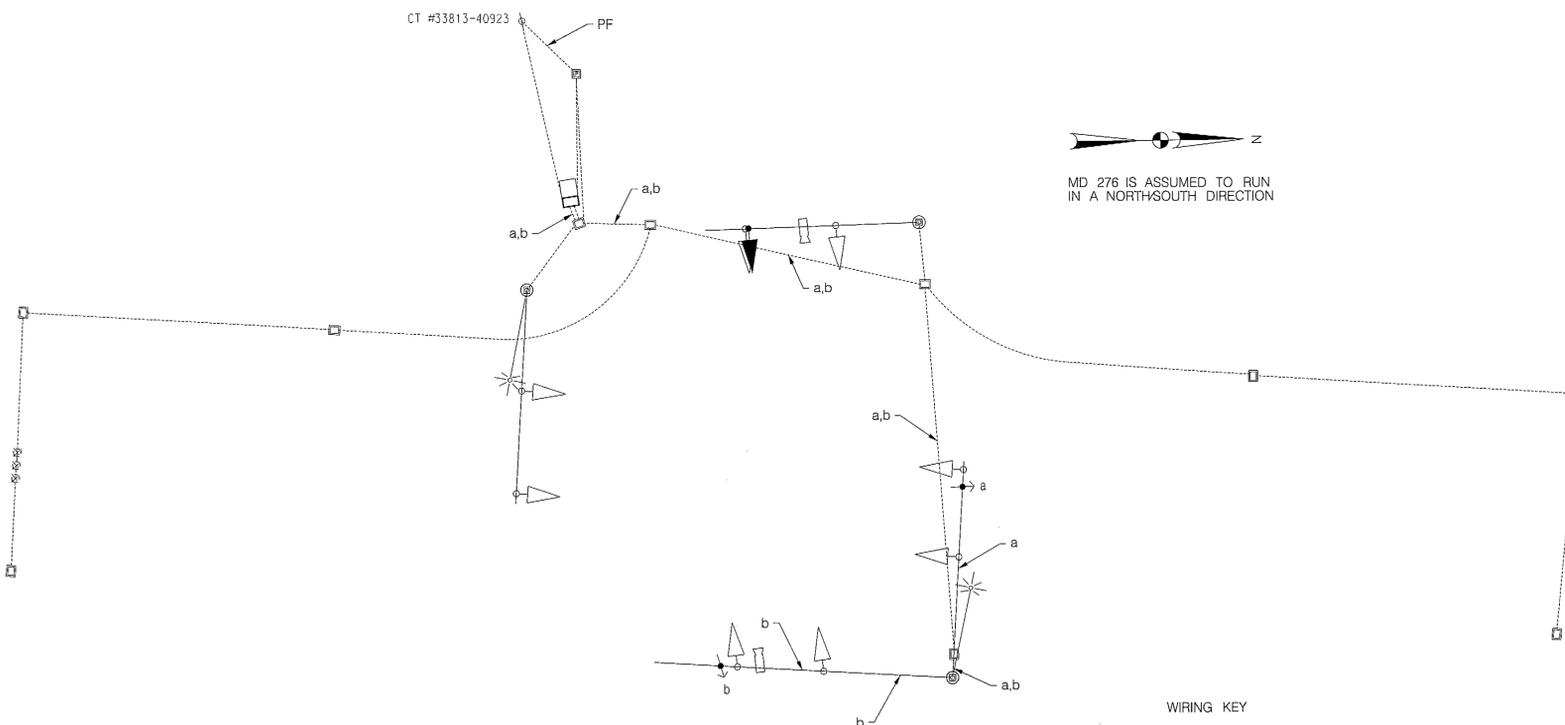
PHASE 2 & 6	G	G	G	G	R	R	R	R	
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	
PHASE 3 & 8	R	R	R	R	G	G	R	R	
3 & 8 CHANGE	R	R	R	R	Y	Y	R	R	

NOTE: PHASE 3 WILL ONLY OPERATE DURING EMERGENCY VEHICLE PRE-EMPTION

**EQUIPMENT LIST FOR CONTRACT NO. XX6615185**

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

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
8001	4	EA	12" LED TRAFFIC SIGNAL HEAD SECTION
8023	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8032	600	LF	4 CONDUCTOR OPTICOM CABLE
8047	1	EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8049	2	EA	OPTICOM NO. 721 DETECTOR EYE



MD 276 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

**WIRING KEY**  
a,b } 4 CONDUCTOR OPTICOM CABLE  
PF } POWER FEED

NOTE: EXISTING SIGNAL CABLE SHALL BE REUTILIZED FOR THE NEW TRAFFIC SIGNAL HEAD.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 276 (JACOB TOME MEMORIAL HWY) AND  
BARNES CORNER RD /LIBERTY GROVE RD  
RISING SUN, MD

**GENERAL INFORMATION PLAN SHEET**

SCALE	NONE	ADVERTISED DATE	05/25/11	CONTRACT NO.	XX6615185
DESIGNED BY	CW	COUNTY	CECIL		
DRAWN BY	CW	LOGMILE	07027605.82		
CHECKED BY	JB	TMS NO.	K956		
F.A.P. NO.		TOD NO.			

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BY: john