



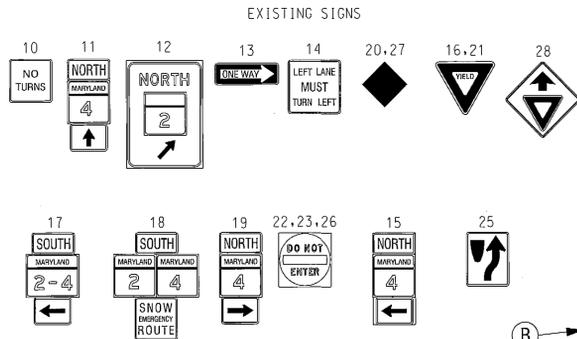
MD 4 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

**PROJECT DESCRIPTION**

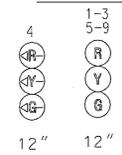
THIS PROJECT INVOLVES THE INSTALLATION OF AN OPTICOM DETECTOR EYE FOR THE NB DIRECTION OF MD 2-4 IN CALVERT COUNTY. THE EXISTING SIGNAL HEADS WILL ALSO BE UPGRADED TO LED'S.

**CONSTRUCTION DETAILS**

- A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM
- B. INSTALL DISCRIMINATOR MODULE IN EXISTING CABINET
- C. USE EXISTING HANDHOLE
- D. USE EXISTING CONDUIT
- E. REMOVE EXISTING SIGNAL HEAD, INSTALL PROPOSED SIGNAL HEAD



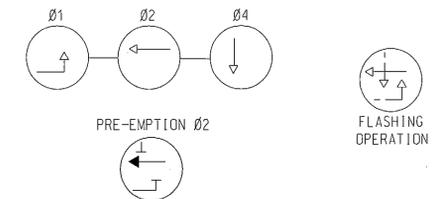
**EXISTING SIGNALS**



**PROPOSED OPTICOM**

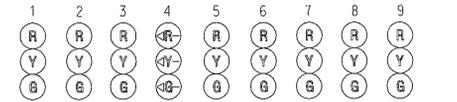
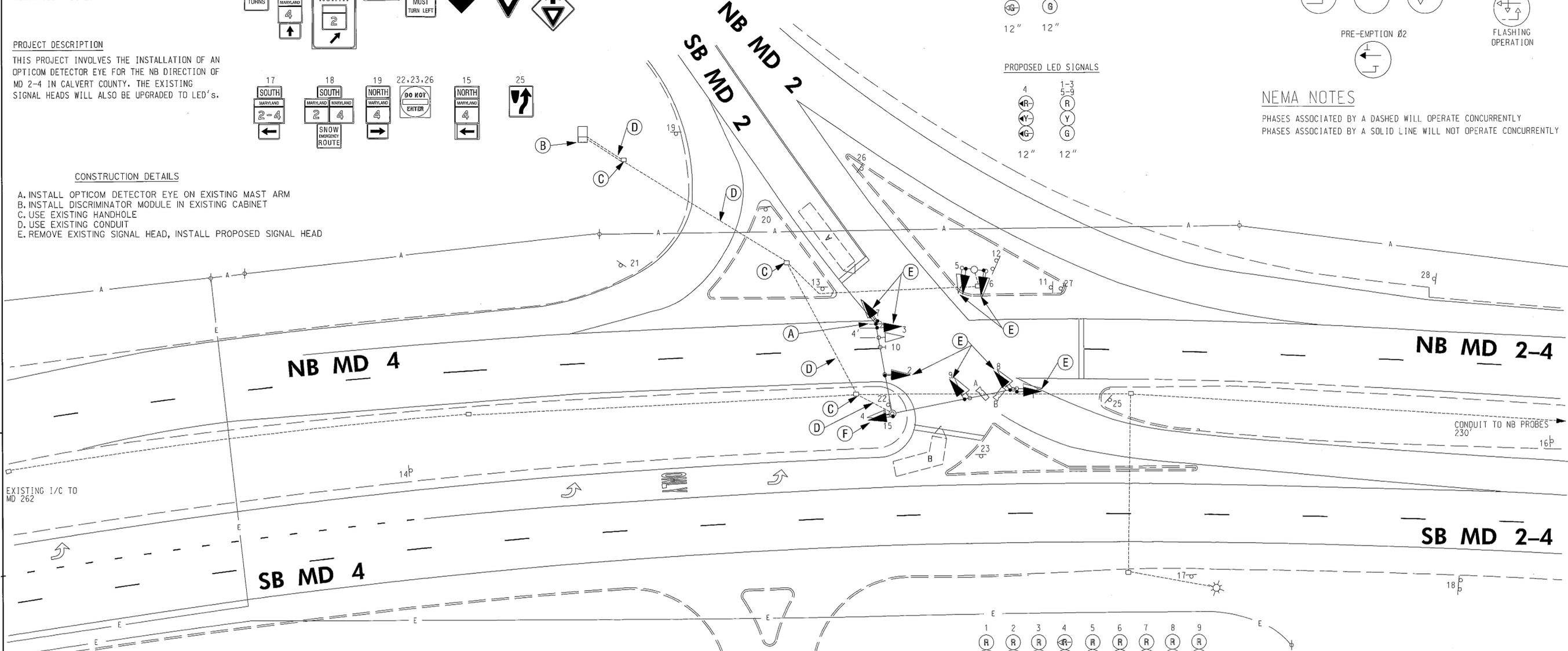


**NEMA PHASING**



**NEMA NOTES**

PHASES ASSOCIATED BY A DASHED WILL OPERATE CONCURRENTLY  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



PHASE 01	R	R	R	<G	G	G	R	R	R	↓
PHASE 01 CHANGE	R	R	R	<Y	Y	Y	R	R	R	↑
PHASE 02	G	G	G	<R	R	R	R	R	R	←
PHASE 02 CHANGE	Y	Y	Y	<R	R	R	R	R	R	→
PHASE 04	R	R	R	<R	R	R	G	G	G	↓
PHASE 04 CHANGE	R	R	R	<R	R	R	Y	Y	Y	↑
PRE-EMPTION 04	G	G	G	<R	R	R	R	R	R	←
PRE-EMPT CHANGE	Y	Y	Y	<R	R	R	R	R	R	→
FLASHING OPERATION	FL	Y	FL	Y	FL	FL	FL	Y	FL	←

TOD No: XX347-03  
SHA No: CA309A52/B52  
MD 2 @ MD 4

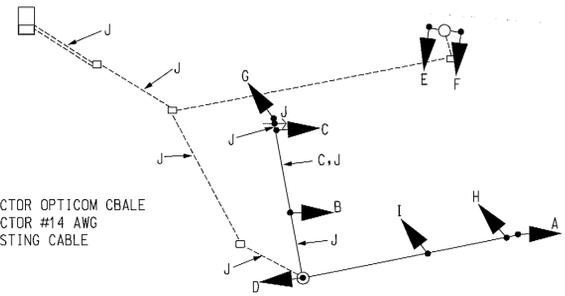
**A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION**

ITEM #	QUANTITY	ITEM DESCRIPTION
NONE		

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

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8047	1 EA	F&I DISCRIMINATOR MODULE, 4 CHANNEL, NO 764
8049	1 EA	F&I OPTICOM NO 721 DETECTOR EYE
8050	27 EA	F&I 12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8051	275 LF	F&I 4 CONDUCTOR OPTICOM CABLE
8056	25 LF	F&I ELECTRICAL CABLE-5 CONDUCTOR #14AWG

J 4-CONDUCTOR OPTICOM CBALE  
C 5-CONDUCTOR #14 AWG  
A,B,D-I USE EXISTING CABLE



**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 2 @ MD 4

APPROVALS		REVISIONS		SIGNALIZATION PLAN SHEET	
TEAM LEADER		① INSTALL OPTICOM FOR NB MD 2-4 UPGRADE HEADS TO LED	XX3475185	SCALE 1"=20'	ADVERTISED DATE
ASST. DIV. CHIEF		C UPGRADE DETECTION WITH VIDEO AND NON-INVASIVE PROBES	11/11/2009	DESIGNED BY	COUNTY CALVERT
DIVISION MANAGER		B 12/2002 SIGNAL RECONSTRUCTION CA4085176		DRAWN BY MB	LOGMILE 04000228.94
OFFICE DIRECTOR				CHECKED BY PDU	TMS NO.
				F.A.P. NO. SEE TITLE SHEET	TOD NO. <TOD NO>
				TS NO. 353ID	DRAWING SG-1 OF 1 SHEET NO. 1 OF 1

PLOTTED: Friday, August 27, 2010 at 11:45:55 PM  
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BY: cstrain