DRILL HOLES

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BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 24 and MD 924 in Harford County. Opticom detection shall be installed for the westbound approach of MD924. MD 24 is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 24 approaches running concurrently. Exclusive left turn phases shall be maintained for both approaches of MD 24. MD 924 shall continue to operate as a side street split phase. A new emergency pre emption phase shall be provided for the westbound approach of MD 924.

2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.

3. 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.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
8005	Furnish and install 3M opticom #76 discrimination module-4 channel.	1 EA
8018	Furnish and install 4-conductor opticom detector cable.	210 L.F.
8051	Furnish and install 3M opticom #721 detector eye	1 EA
8068	Furnish and install steel span wire, 1/4" diameter.	145 L.F.

C. EQUIPMENT TO BE REMOVED

THERE IS NO EQUIPMENT TO BE REMOVED BY THE CONTRACTOR.

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
Phone: (410) 321-2781

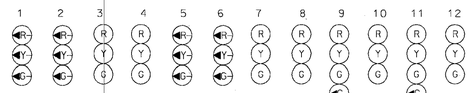
Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Suenette Pope
Assistant District Engineer - Utility
Phone: (410) 321-2841

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

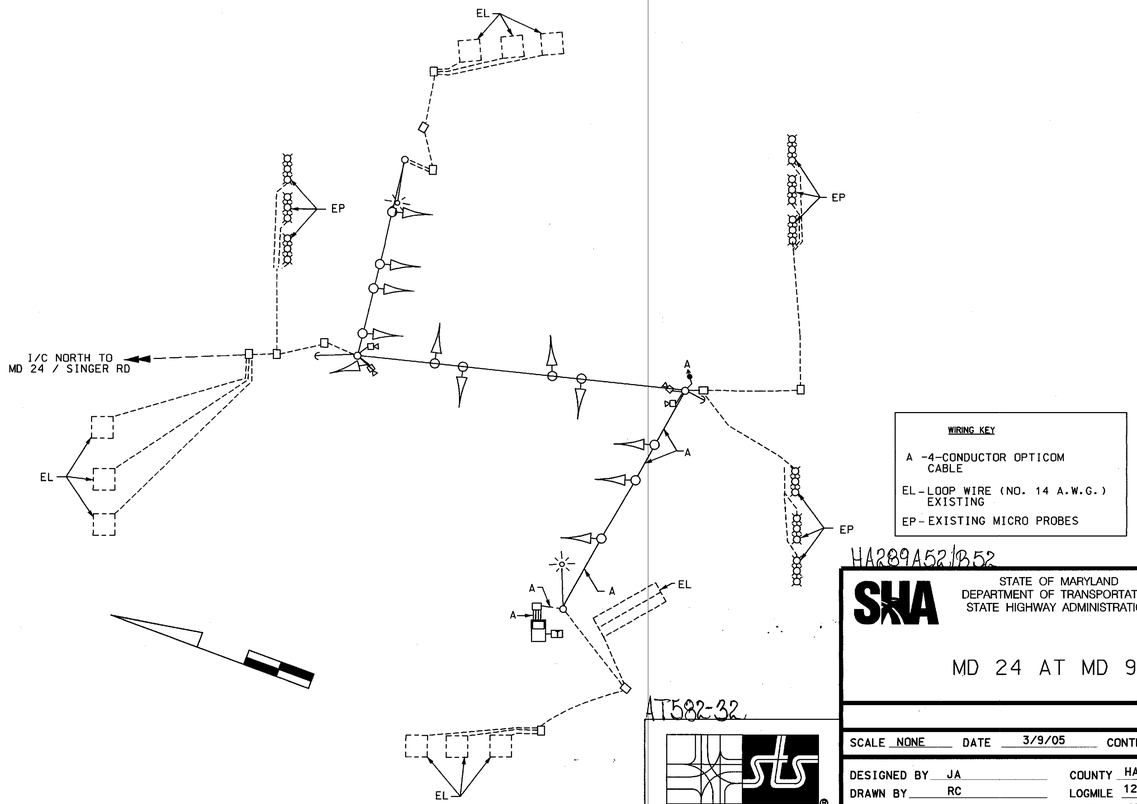
Mr. Ed Rodenhizer
Signal Shop
410-787-7652

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 1 & 5	◄G–	◄G–	R	R	◄G–	◄G–	R	R	R	R	R	R	
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6													
PHASE 1 & 6	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	
1 & 6 CHANGE	◄Y–	◄Y–	G	G	◄R–	◄R–	R	R	R	R	R	R	
PHASE 2 & 5	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	
2 & 5 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	G	G	R	R	R	R	
PHASE 2 & 6	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	
2 & 6 CHANGE	◄R–	◄R–	Y	Y	◄R–	◄R–	Y	Y	R	R	R	R	
PHASE 3	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	G ◄G–	G	
3 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	Y	Y	
PHASE 4	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G ◄G–	G	R	R	
4 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	R	R	
PRE EMPT 1	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	G ◄G–	G	
PRE EMPT 1 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	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/R	FL/R	

WIRING DIAGRAM



WIRING KEY

A -4-CONDUCTOR OPTICOM CABLE

EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING

EP - EXISTING MICRO PROBES

HA289A52/B52

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 24 AT MD 924

AT582-32.

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6627

4757GI.dgn D6-21

SCALE NONE DATE 3/9/05 CONTRACT NO. AT5825185

DESIGNED BY JA COUNTY HARFORD
DRAWN BY RC LOGMILE 12002404.18
CHECKED BY TIMS G7602
F.A.P. NO.

DRAWING NO. 1948 - OF SHEET NO. 2 OF 2

PLOTTED: $DATETIME$
FILE: $FILE$

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