DRILL HOLES
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BORDER REV: DATE: June 1, 2004
BY: SHARPSB

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM PRE-EMPTION FOR THE WESTBOUND DIRECTION AT THE INTERSECTION OF MD 253 AND LONDONTOWN ROAD/STEPNEYS LANE IN ANNE ARUNDEL COUNTY. ALL BLACK FACED VEHICULAR TRAFFIC SIGNAL HEADS ON THE MAIN LINE APPROACHES WILL BE UPGRADED TO LED. ALL YELLOW FACED VEHICULAR TRAFFIC SIGNAL HEADS ON THE SIDE STREET APPROACHES WILL BE UPGRADED TO BLACK FACED LED. MD 253 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE PROVIDED ACROSS THE NORTH AND SOUTH LEGS OF MD 253 AND A CONCURRENT PEDESTRIAN PHASE ACROSS THE EAST AND WEST LEGS.
THIS OPERATION WILL REMAIN AND A NORTHBOUND PRE-EMPTION PHASE WILL BE ADDED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS AND ASSOCIATED VIDEO DETECTION CAMERA INTERFACE SHALL REMAIN. INSTALL A DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764 IN EXISTING CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1003

Mr. John Mays
District Utility Engineer
Phone: 410-841-1005

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: 410-841-1002

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

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

The Power Company Representative is:
BALTIMORE GAS & ELECTRIC COMPANY
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
NONE	NONE	NONE

EQUIPMENT LIST 'C'

EQUIPMENT TO BE SALVAGED AND RETURNED TO SHA

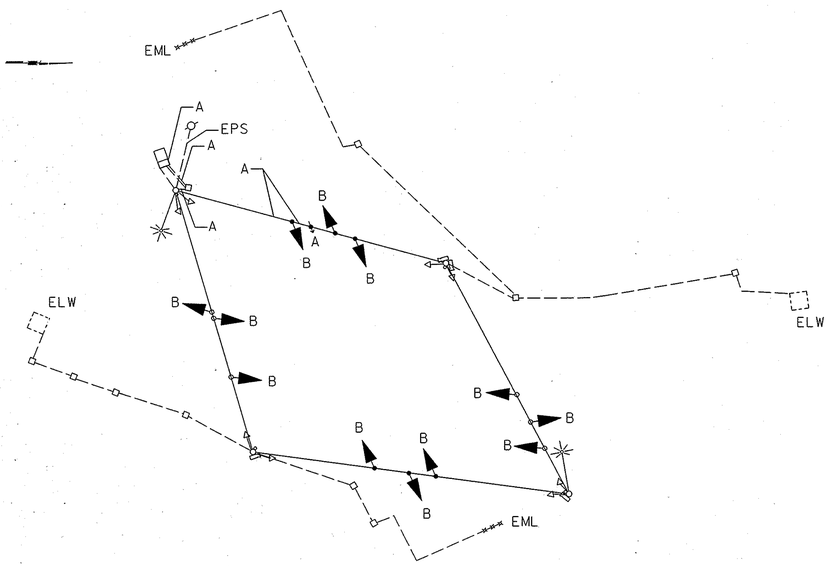
ITEM NO.	QUANTITY	DESCRIPTION

ALL REMOVED EQUIPMENT SHALL BECOME PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

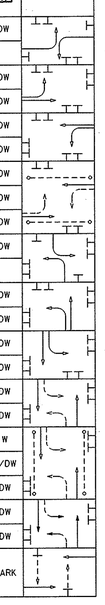
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5008	1 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
8002	12 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	8 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8008	1 EA	3M OPTICOM #764 DISCRIMINATOR MODULE
8009	1 EA	3M OPTICOM EMITTER SYSTEM 700 SERIES, VISIBLE LIGHT FILTER AND HARDWARE
8011	6 EA	8 INCH LED SIGNAL (R,Y,G) HEAD SECTION
8025	26 EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8033	100 LF	4 CONDUCTOR OPTICOM DETECTOR CABLE
8066	1 EA	OPTICOM NO. 721 DETECTOR EYE



A — 4 CONDUCTOR OPTICOM CABLE
B — USE EXISTING ELECTRICAL CABLE
ELW — EXISTING LOOP DETECTOR WIRE
EML — EXISTING MICRO-LOOP PROBE
EPS — EXISTING POWER SOURCE
OPTICOM NO. 721 DETECTOR EYE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 AND 5	~~G~~/R	~~G~~/R	R	~~G~~/R	~~G~~/R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 AND 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 AND 6, 2 AND 5, OR 2 AND 6																			
PHASE 1 AND 6	~~G~~/G	~~G~~/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 CHANGE	~~Y~~/G	~~Y~~/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	~~G~~/G	~~G~~/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 5 CHANGE	R	R	R	~~Y~~/G	~~Y~~/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	W	W	W	W	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	F/DW	F/DW	F/DW	F/DW	DW	DW	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	R	R	R	R	R	R	~~G~~/R	~~G~~/R	R	~~G~~/R	~~G~~/R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 3 AND 8, 4 AND 7, OR 4 AND 8																			
PHASE 3 AND 8	R	R	R	R	R	R	R	R	R	~~G~~/G	~~G~~/G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	R	R	R	R	~~Y~~/G	~~Y~~/G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	~~G~~/G	~~G~~/G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 7 CHANGE	R	R	R	R	R	R	~~Y~~/G	~~Y~~/G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W	W	W	W
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	F/DW	F/DW	F/DW	F/DW
PHASE 4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPT PHASE 4+8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPT PHASE 4+8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



TOD No: AT782-14
SHA: AA445A51/B51

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 253 (MAYO ROAD) AND
LONDONTOWN ROAD/STEPNEYS LANE

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE 10/2005 CONTRACT NO. AT7825185

DESIGNED BY MWR
DRAWN BY MWR
CHECKED BY BAB
F.A.P. NO. N/A
COUNTY ANNE ARUNDEL
LOGMILE 02025300.50
T.I.M.S. NO. G931
TOD NO.

DRAWING NO. TS-2305 H
SHEET NO. 2 OF 2

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7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

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