

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES ADDING EXCLUSIVE/PERMISSIVE PHASING FOR THE EASTBOUND AND WESTBOUND APPROACHES AND UPGRADING THE EXISTING TRAFFIC SIGNAL HEADS TO LED AT THE INTERSECTION OF MD 99 (OLD FREDERICK ROAD) AND MARRIOTTSVILLE ROAD IN HOWARD COUNTY. THE EXISTING BLACK FACED SIGNAL HEADS WILL REMAIN AND BE UPGRADED TO LED SIGNAL HEAD MODULES. THE EXISTING YELLOW FACED SIGNAL HEADS WILL BE REPLACED WITH NEW BLACK FACED LED SIGNAL HEADS. EXISTING LOOP DETECTOR WILL REMAIN. NEW SHIELD ASSEMBLY SIGNS FOR MD 99 WILL REPLACE THE EXISTING SIGNS ALONG MARRIOTTSVILLE ROAD. MARRIOTTSVILLE ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. MAINLINE SPLIT PHASING WILL REMAIN AND SIDE STREET EXCLUSIVE/PERMISSIVE PHASING IS PROPOSED.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CONTROLLER, SETBACK LOOPS, AMPLIFIERS, AND ASSOCIATED HARNESSES SHALL REMAIN.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140

Mrs. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8115

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8105

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.

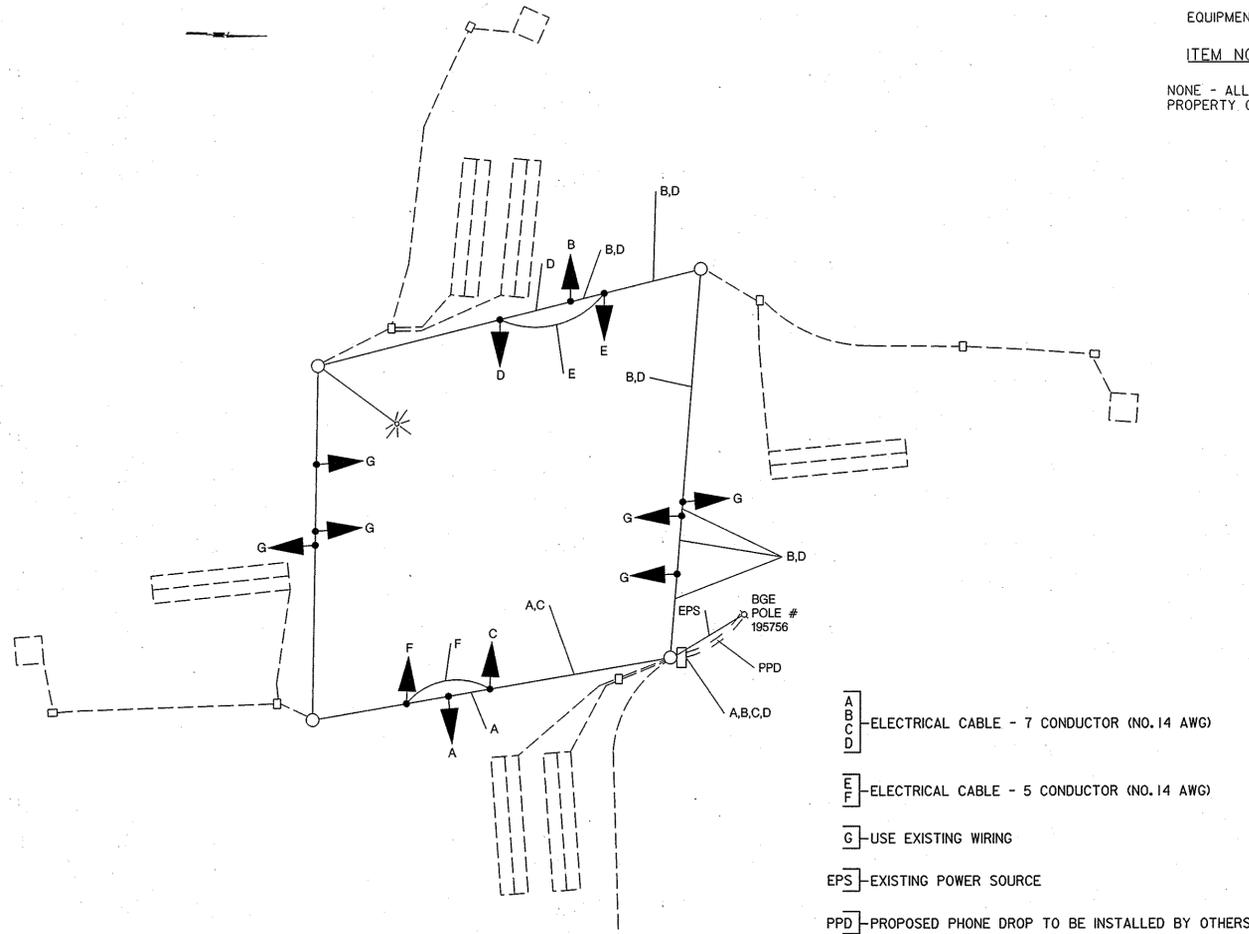
ITEM NO	QUANTITY	DESCRIPTION
9571	71 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
1 EA		- ASSOCIATED SHIELD ASSEMBLY *WEST, MD 99, LEFT ARROW* (36 IN. X 75 IN.)
1 EA		- ASSOCIATED SHIELD ASSEMBLY *EAST, MD 99, LEFT ARROW* (36 IN. X 75 IN.)
1 EA		- ASSOCIATED SHIELD ASSEMBLY *WEST, MD 99, RIGHT ARROW* (24 IN. X 51 IN.)
1 EA		- ASSOCIATED SHIELD ASSEMBLY *EAST, MD 99, RIGHT ARROW* (24 IN. X 51 IN.)
2 EA		- D-301 *OLD FREDERICK ROAD* (16 IN. X 72 IN.)
2 EA		- D-301 *MARRIOTTSVILLE ROAD* (16 IN. X 72 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8000	1 EA	2 INCH PVC CONDUIT BEND IN EXISTING FOUNDATION
8001	20 EA	12 INCH LED SIGNAL HEAD SECTION
8004	6 EA	8 INCH LED SIGNAL HEAD SECTION
8015	22 EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8022	1 EA	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT
8035	20 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8039	71 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8056	50 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
8057	420 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)

WIRING DIAGRAM



EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
OL A PHASE 1 & 6	G	G	G	R	R	R	R	R	R	R	R	R	
OL A PHASE 1 & 6 CHANGE	Y	Y	Y	R	R	R	R	R	R	R	R	R	
OL B PHASE 2 & 5	R	R	R	G	G	G	R	R	R	R	R	R	
OL B PHASE 2 & 5 CHANGE	R	R	R	Y	Y	Y	R	R	R	R	R	R	
PHASE 3 & 7	R	R	R	R	R	R	G	R	R	R	R	R	
PHASE 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASE: 3 & 8 OR 4 & 7 OR 4 & 8												
PHASE 3 & 8	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 4 & 7	R	R	R	R	R	R	G	G	G	G	R	R	
PHASE 7 CHANGE	R	R	R	R	R	R	G	G	G	G	R	R	
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	
PHASE 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	
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	

BY: THOMP SMA

STV Incorporated
engineers / architects / planners / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

TOD No.: AT783-10
SHA No.: HO377A55/B55

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 99 (OLD FREDERICK ROAD) AND MARRIOTTSVILLE ROAD

GENERAL INFORMATION

SCALE NONE DATE 6/2006 CONTRACT NO. AT783B185

DESIGNED BY SDY COUNTY HOWARD
DRAWN BY CW LOGMILE 13009902.87
CHECKED BY BAB T. I. M. S. NO. H298
F. A. P. NO. TOD NO.

DRAWING NO. **TS-1891D** SHEET NO. 2 OF 2