

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES UPDATING THE SIGNAL DISPLAY ALONG US 1 WITH BLACKFACED LED SIGNAL HEADS, AND THE INSTALLATION OF AN ADDITIONAL SIGNAL HEAD ON THE NORTHBOUND US 1 APPROACH. US 1 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX (6) PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE LEFT TURN PHASING FOR BOTH THE NORTH AND SOUTHBOUND MOVEMENTS OF US 1. THE US 1 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE HOWARD STREET/CORRIDOR ROAD MOVEMENTS OPERATE CONCURRENTLY. PRE-EMPTION IS PROVIDED FOR THE EASTBOUND APPROACH.

THE EXISTING CABINET/CONTROLLER, AND PHASING WILL BE UTILIZED.

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

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

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

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

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

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

The Power Company Representative is:  
Baltimore Gas & Electric Company  
7317 Parkway Drive South  
Hanover, MD 21076  
Phone: 410-859-9062

**EQUIPMENT LIST 'A'**  
US 1 AT HOWARD ST/CORRIDOR RD

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

**EQUIPMENT LIST 'B'**  
US 1 AT HOWARD ST/CORRIDOR RD

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8001	51 EA	12 INCH (R,Y,G) LED SIGNAL HEAD SECTION
8015	3 EA	LED SIGNAL HEAD MODULE (ANY SIZE)
8017	1 EA	REMOVE & DISPOSE OF EQUIPMENT
8060	25 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)

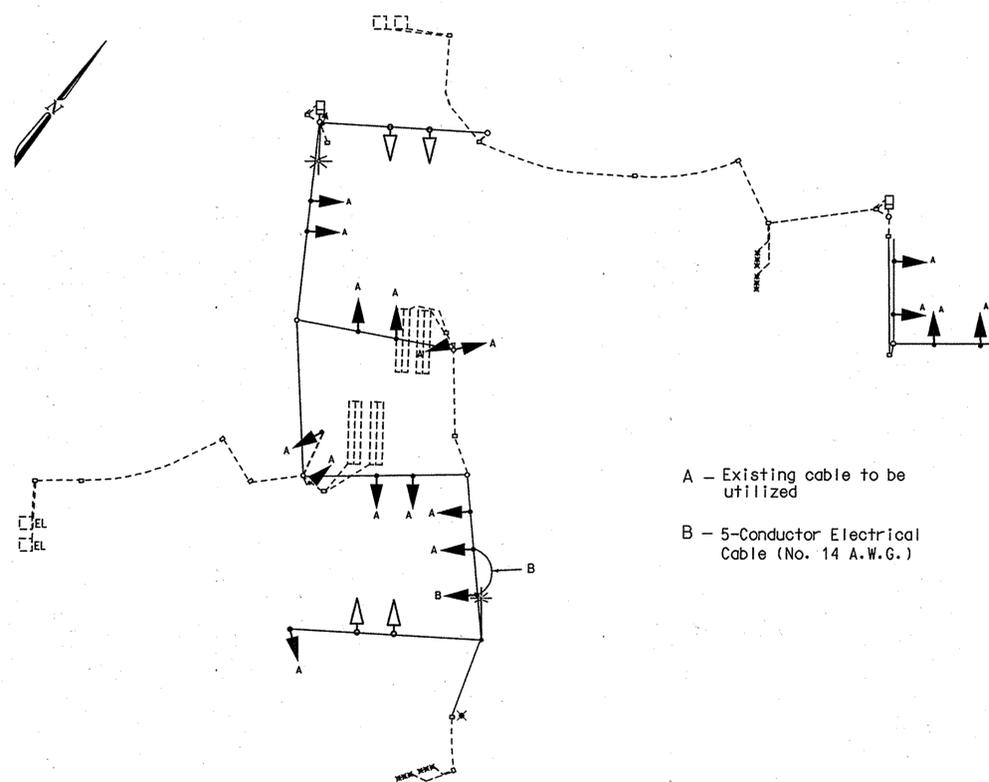
**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

**WIRING DIAGRAM**



A - Existing cable to be utilized  
B - 5-Conductor Electrical Cable (No. 14 A.W.G.)

**PHASE CHART**

	1	2	3	4	5	8	9	10	11	14	15	16	17	18	19	20	21	22	
PHASE 1 & 5	G	G	R	R	R	G	G	R	R	R	R	G	G	R	R	R	G	G	
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO: 1 & 6, 2 & 5, OR 2 & 6																		
PHASE 1 & 6	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	G	G	
1 CHANGE	Y	Y	G	G	G	R	R	R	R	R	R	R	R	R	R	R	Y	Y	
PHASE 2 & 5	R	R	R	R	R	G	G	G	R	R	R	G	G	R	R	R	R	R	
5 CHANGE	R	R	R	R	R	Y	Y	G	G	R	R	Y	Y	R	R	R	R	R	
PHASE 2 & 6	R	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	
2 & 6 CHANGE	R	R	Y	Y	Y	R	R	Y	Y	R	R	R	R	R	R	R	R	R	
PHASE 4 & 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	
4 & 8 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R									
FIRE HOUSE PRE-EMPTION																			
FIREHOUSE PRE-EMPTION PHASE 4	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	R	R	
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	R	R	R	R	R	
PHASE 2 & 6	R	R	G	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	
NORMAL OPERATION																			

BY: phil



RJM ENGINEERING, INC.  
CONSULTING ENGINEERS  
COLUMBIA, MARYLAND  
410-730-1001

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 1 (WASHINGTON BOULEVARD) AT  
HOWARD STREET /CORRIDOR ROAD

**GENERAL INFORMATION**

SCALE	NONE	DATE	JANUARY 2007	CONTRACT NO.	AT9255185
DESIGNED BY	PFW	COUNTY	HOWARD		
DRAWN BY	PFW	LOGMILE	13000102.60		
CHECKED BY	BAB	T.I.M.S. NO.	G375		
F.A.P. NO.		TOD NO.			
DRAWING NO.	TS-1685F-GI			SHEET NO.	02 OF 02