PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN EXCLUSIVE LEFT TURN PHASE WITH A FLASHING RED ARROW FOR THE NORTHBOUND DIRECTION AND LED MODULES FOR ALL VEHICULAR TRAFFIC SIGNAL HEADS AT THE INTERSECTION OF MD 97 (GEORGIA AVENUE) AND ARCOLA AVENUE IN MONTGOMERY COUNTY. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

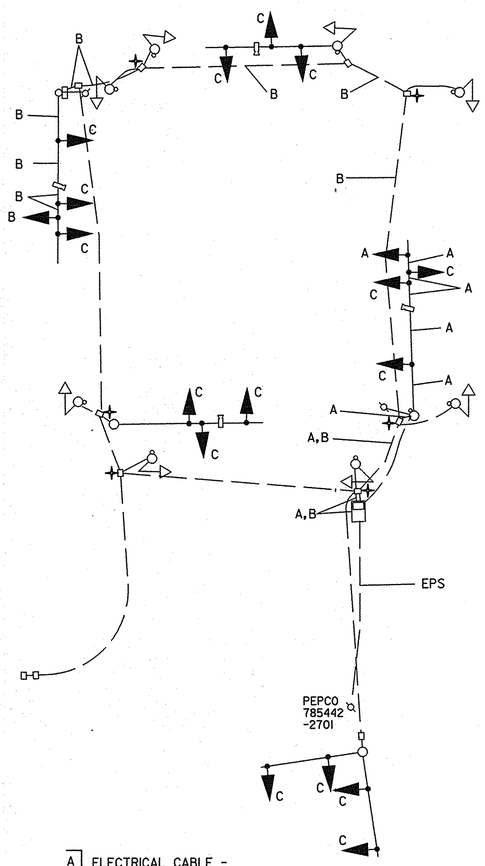
INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/FLASHING RED ARROW LEFT TURN PHASING FOR THE NORTHBOUND AND SOUTHBOUND APPROACH. THE CONCURRENT MAINLINE AND ALTERNATE SIDE STREET PEDESTRIAN PHASES WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER SHALL REMAIN.

WIRING DIAGRAM



A, B — ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)

C — USE EXISTING WIRING

EPS — EXISTING POWER SOURCE

— EXISTING GROUND ROD

THE CONTACT PERSONS FOR DISTRICT #3 / OOTS/ MONTGOMERY COUNTY ARE AS FOLLOWS:

District #3

Mr. Jeff Wentz
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Rabish
District Utility Engineer
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Kevin Nowak
Assistant District Engineer - Construction
Phone: 301-513-7336

Office Of Traffic & Safety

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

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative is:
Potomac Electric Power Company
8300 Old Marlboro Pike
Upper Marlboro, Maryland 20772
Phone: 301-961-5325

Montgomery County

Mr. Kamal Hamud
Montgomery County Department of Public Works
Phone: 240-777-8761

Mr. Keith Lord
Montgomery County
Phone: 301-279-1291

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	21 SF	[UPDATED] SHEET ALUMINUM MAST ARM/ POLE MOUNTED SIGNS:
		2 EA - R10-12(4) (36 IN.x 42 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1003	1 EA	MAINTENANCE OF TRAFFIC
8014	50 EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8021	1 EA	REMOVE AND DISPOSE OF MATERIALS AND EQUIPMENT PER ASSIGNMENT
8036	21 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8050	6 EA	12 INCH LED VEHICULAR SIGNAL HEAD SECTION
8057	560 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
PHASE 1 & 5	~~G~~	~~G~~	R	R	FL/R	FL/R	~~G~~	~~G~~	R	R	R	R	R	FL/Y	FL/Y	R	R	R / ~~G~~	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 AND 5 CHANGE TO 1 AND 6,2 AND 5,OR 2 AND 6																										
PHASE 1 & 6	~~G~~	~~G~~	G	G	FL/R	FL/R	~~R~~	~~R~~	R	R	R	R	R	FL/Y	FL/Y	R	R	R	DW	W	W	DW	DW	DW	DW	DW
PHASE 1 CHANGE	~~Y~~	~~Y~~	Y	Y	FL/R	FL/R	~~R~~	~~R~~	R	R	R	R	R	FL/Y	FL/Y	R	R	R	DW	W	W	DW	DW	DW	DW	DW
PHASE 2 & 5	~~R~~	~~R~~	R	R	FL/R	FL/R	~~G~~	~~G~~	G	G	R	R	R	FL/Y	FL/Y	R	R	R / ~~G~~	W	DW	DW	W	DW	DW	DW	DW
PHASE 5 CHANGE	~~R~~	~~R~~	R	R	FL/R	FL/R	~~Y~~	~~Y~~	G	G	R	R	R	FL/Y	FL/Y	R	R	R / ~~Y~~	W	DW	DW	W	DW	DW	DW	DW
PHASE 2 & 6	FL/RA	FL/RA	G	G	FL/R	FL/R	FL/RA	FL/RA	G	G	R	R	R	FL/Y	FL/Y	R	R	R	W	W	W	W	DW	DW	DW	DW
PED. CLEARANCE / COUNTDOWN	FL/RA	FL/RA	G	G	FL/R	FL/R	FL/RA	FL/RA	G	G	R	R	R	FL/Y	FL/Y	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 2 & 6 CHANGE	FL/RA	FL/RA	Y	Y	FL/R	FL/R	FL/RA	FL/RA	Y	Y	R	R	R	FL/Y	FL/Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	~~R~~	~~R~~	R	R	FL/R	FL/R	~~R~~	~~R~~	R	R	G	G	G	FL/Y	FL/Y	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 CHANGE	~~R~~	~~R~~	R	R	FL/R	FL/R	~~R~~	~~R~~	R	R	Y	Y	Y	FL/Y	FL/Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT.	~~R~~	~~R~~	R	R	FL/R	FL/R	~~R~~	~~R~~	R	R	G	G	G	FL/Y	FL/Y	G	G	G	DW	DW	DW	DW	W	W	W	W
PED. CLEARANCE / COUNTDOWN	~~R~~	~~R~~	R	R	FL/R	FL/R	~~R~~	~~R~~	R	R	G	G	G	FL/Y	FL/Y	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
PHASE 4 & 8 ALT. CHANGE	~~R~~	~~R~~	R	R	FL/R	FL/R	~~R~~	~~R~~	R	R	Y	Y	Y	FL/Y	FL/Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPTION	~~R~~	~~R~~	R	R	Y	Y	~~R~~	~~R~~	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	~~R~~	~~R~~	R	R	FL/Y	FL/Y	~~R~~	~~R~~	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6 POST PRE-EMPTION	FL/RA	FL/RA	G	G	FL/R	FL/R	FL/RA	FL/RA	G	G	R	R	R	FL/Y	FL/Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6 POST PRE-EMPTION CHANGE	FL/RA	FL/RA	Y	Y	FL/R	FL/R	FL/RA	FL/RA	Y	Y	R	R	R	FL/Y	FL/Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	DARK	DARK	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

TOD NO: XX4455-04
SHA NO:M0206A51/B51
MD 97@ ARCOLA AVE

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

MD 97 (GEORGIA AVENUE) AND ARCOLA AVENUE

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 9/2008 CONTRACT NO. XX4455185

DESIGNED BY KSK COUNTY MONTGOMERY
DRAWN BY KSK LOGMILE 15009703.27
CHECKED BY BAB TIMS NO. J197
F.A.P. NO. TOD NO.

TS NO. 211E-GI | DRAWING SG - 02 OF 02 | SHEET NO. 2 OF 2

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

BY: thompsma

PLOTTED: Thursday, September 04, 2008 AT 11:37 AM
FILE: I:\PROJECTS\0312513\0312513_0051\Drawings\TRA\pSG-P001_Arcola.dgn