PROJECT DESCRIPTION

GENERAL

THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 212 (RIGGS ROAD) AND POWDER MILL ROAD VIA AREAWIDE FORCES TO INCLUDE NORTHBOUND EXCLUSIVE/PERMISSIVE PHASING. MD 212 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN NEMA FOUR PHASE, SEMI-TRAFFIC-ACTUATED MODE. THE EXISTING NORTHBOUND PERMISSIVE LEFT TURN PHASE WILL BE MODIFIED TO AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER, LOOP DETECTOR AMPLIFIER AND ASSOCIATED HARNESSES WILL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL THE NEW FOUR-CHANNEL LOOP DETECTOR AMPLIFIER.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: 301-513-7358

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

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

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:
Potomac Electric Power Company
Mr. Richard Chilcoat
4061 Powder Mill Road
Suite 600
Calverton, Maryland 20705
Phone: 301-931-2880

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NUMBER	QUANTITY	DESCRIPTION
9016	1 EA	(UPDATED) FOUR-CHANNEL DETECTOR AMPLIFIER
9570	19 SF	(UPDATED) SHEET ALUMINUM GROUND MOUNTED SIGN: 1 EACH - SHIELD ASSEMBLY (36 IN X 75 IN)
9571	19 SF	(UPDATED) SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 1 EACH - R10-12 SIGN (36 IN X 42 IN) 1 EACH - SHIELD ASSEMBLY (24 IN X 51 IN)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

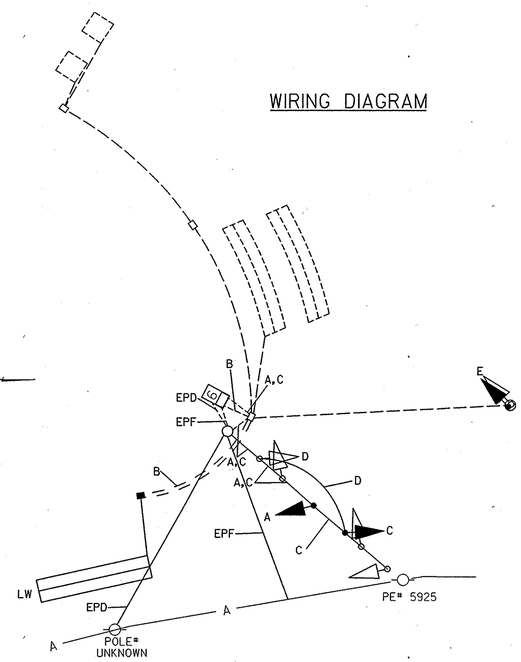
ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8013	1 EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT
8025	40 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8032	35 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8037	10 LF	1 INCH LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8045	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8046	19 SF	INSTALL GROUND MOUNTED SIGN
8047	19 SF	INSTALL OVERHEAD SIGN
8054	1 EA	RELOCATE EXISTING SIGNAL HEAD
8056	8 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8058	50 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8061	125 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8062	100 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8063	500 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8064	125 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE SALVAGED AND RETURNED TO SHA

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

WIRING DIAGRAM



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

ELCTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)

E — USE EXISTING WIRING

LW — LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)

EPD — EXISTING PHONE DROP

EPF — EXISTING POWER FEED

PHASE CHART

	1	2	3	4	5	6	7	
	R Y G RF GF	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	
PHASE 1 + 6	G / G	G	R	R	R	R	R	
PHASE 1 + 6 CHANGE	Y / G	G	R	R	R	R	R	
PHASE 2 + 6	G	G	G	G	R	R	R	
PHASE 2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	
PHASE 4	R	R	R	R	G	G	G	
PHASE 4 CHANGE	R	R	R	R	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	

STV Incorporated
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BY: THOMPSMA

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

MD 212 (RIGGS ROAD) AND POWDER MILL ROAD

GENERAL INFORMATION

SCALE NONE DATE JUNE 2005 CONTRACT NO. AT5825185

DESIGNED BY MRK
DRAWN BY AMT
CHECKED BY BAB
F.A.P. NO.

COUNTY PRINCE GEORGE'S
LOGMILE 16021205.41
T.I.M.S. NO. G806
TOD NO.

DRAWING NO. **TS-483E** OF SHEET NO. 2 OF 2

PLOTTED: MONDAY, MAY 16, 2005 AT 02:31 PM
FILE: I:\PROJECTS\11103\54\MD 212 @ POWDER MILL\PSG-P002_MD212.DGN