PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 117 (CLOPPER ROAD) AND MD 118 (GERMANTOWN ROAD) IN MONTGOMERY COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE REPLACEMENT OF EXISTING MD 117 FIVE SECTION LEFT TURN SIGNAL HEADS WITH THREE SECTION FLASHING ARROW SIGNAL HEADS AND THE CONVERSION OF ALL OTHER SIGNAL HEADS AT THE INTERSECTION TO LED HEADS. MD 117 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA EIGHT-PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH THE MD 117 APPROACHES OPERATING CONCURRENTLY AND THE MD 118 APPROACHES OPERATING CONCURRENTLY. PROTECTED/PERMITTED LEFT-TURN MOVEMENTS UTILIZING FLASHING RED ARROWS ARE PROVIDED FOR EASTBOUND AND WESTBOUND MD 117 AND EXCLUSIVE LEFT-TURNS ARE PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 118.

INTERCONNECT NOTE

THE EXISTING INTERCONNECT CABLE ALONG THE NORTH SIDE OF WESTBOUND MD 117 AND ALONG THE MEDIAN OF MD 118 SOUTH OF THE INTERSECTION WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER WITH TELEMETRY CABLE AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JEFFERY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. ED RODENHIZER
SUPERVISOR - SIGNAL SHOP
PHONE: (410) 787-7650

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (301) 513-7350

MR. RICHARD L. DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. KAMUL HAMUD
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
PHONE: (240) 777-8761

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9572	24	SF	SHEET ALUMINUM SPAN MOUNTED SIGN - 2 EACH R10-2(2) (48"x36") (WITH BOTTOM TETHER HARDWARE)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
8001	51	EA	F & I 12" (R.Y.G) LED SIGNAL HEAD SECTION
8008	4	EA	ADJUST AND RE-RING EXISTING SPAN WIRE (EACH SPAN)
8016	1	EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8046	24	SF	INSTALL OVERHEAD SIGN
8058	500	LF	F&I ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

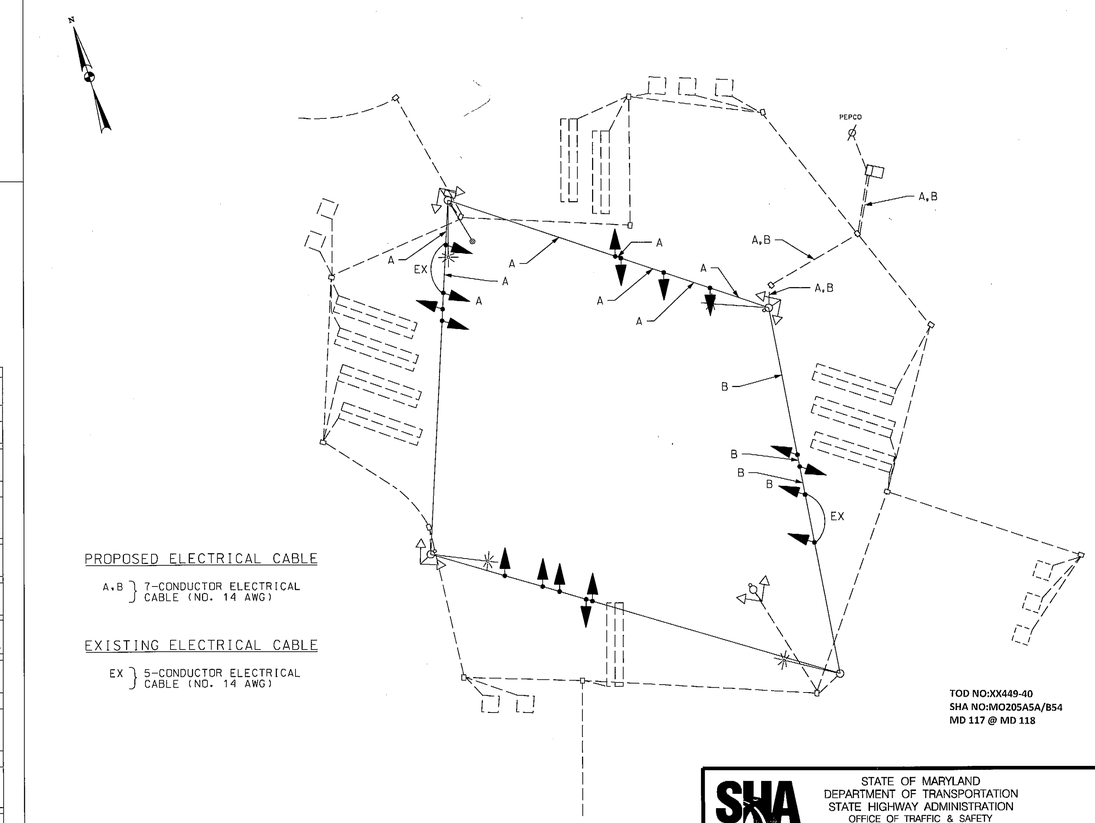
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE.

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
PHASE 1 + 5	←G—	←G—	R	R	←G—	←G—	R	R	←R—	←R—	R	R	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5, OR PHASE 2 + 6																								
PHASE 1 + 6	←G—	←G—	G	G	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 + 6 CHANGE	←Y—	←Y—	G	G	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 5	←R—	←R—	R	R	←G—	←G—	G	G	←R—	←R—	R	R	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 + 5 CHANGE	←R—	←R—	R	R	←Y—	←Y—	G	G	←R—	←R—	R	R	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	FL/←R	FL/←R	G	G	FL/←R	FL/←R	G	G	←R—	←R—	R	R	←R—	←R—	←R—	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	FL/←R	FL/←R	G	G	FL/←R	FL/←R	G	G	←R—	←R—	R	R	←R—	←R—	←R—	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 + 6 CHANGE	←R—	←R—	Y	Y	←R—	←R—	Y	Y	←R—	←R—	R	R	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 + 7	←R—	←R—	R	R	←R—	←R—	R	R	←G—	←G—	R	R	←G—	←G—	←G—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 + 7 CHANGE	3 + 7 MAY CHANGE TO PHASE 3 + 8, PHASE 4 + 7, OR PHASE 4 + 8																								
PHASE 3 + 8	←R—	←R—	R	R	←R—	←R—	R	R	←G—	←G—	G	G	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 + 8 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	←Y—	←Y—	G	G	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 7	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	R	R	←G—	←G—	←G—	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 + 7 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	R	R	←Y—	←Y—	←Y—	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 8	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	G	G	←R—	←R—	←R—	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	Y	Y	←R—	←R—	←R—	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
ALT PHASE 4	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	G	G	←R—	←R—	←R—	G	G	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEARANCE	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	G	G	←R—	←R—	←R—	G	G	DW	DW	DW	DW	FL/DW	DW	DW	FL/DW
ALT 4 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	Y	Y	←R—	←R—	←R—	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
ALT PHASE 8	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	G	G	←R—	←R—	←R—	G	G	DW	DW	DW	DW	DW	WK	WK	DW
PED CLEARANCE	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	G	G	←R—	←R—	←R—	G	G	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW
ALT 8 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	←R—	←R—	Y	Y	←R—	←R—	←R—	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPT 1	←R—	←R—	R	R	←R—	←R—	R	R	←G—	←G—	G	G	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPT 1 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	←Y—	←Y—	Y	Y	←R—	←R—	←R—	R	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/R	FL/R	FL/←R	FL/←R	FL/←R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



PROPOSED ELECTRICAL CABLE

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

EXISTING ELECTRICAL CABLE

EX } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

TOD NO:XX449-40
SHA NO:MO205A5A/B54
MD 117 @ MD 118

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: bshanover

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

MD 117 (CLOPPER ROAD) AND MD 118 (GERMANTOWN ROAD)
GERMANTOWN, MARYLAND

GENERAL INFORMATION

SCALE NO SCALE DATE 091509 CONTRACT NO. XX4495185

DESIGNED BY BSH COUNTY MONTGOMERY
DRAWN BY ADS LOGMILE 15011707.57
CHECKED BY MAS T.I.M.S. NO. J838
F.A.P. NO. T.O.D. NO.

T.S. NO. 2473EGI SG-02 OF SG-02 SHEET NO. 2 OF 2

PLOTTED: Wednesday, September 09, 2009 AT 10:24 AM
FILE: X:\Q012 - TEDD\07 - MD 118 Signal\DESIGN\Engineering\PlanSet\gSG-N001_TS2473E.dgn