PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 119 (GREAT SENECA HIGHWAY) AND QUEENSTOWN LANE /COTTAGE GARDEN DRIVE IN MONTGOMERY COUNTY.

MD 119 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE TRAFFIC SIGNAL WILL CONTINUE TO OPERATE IN A SEMI ACTUATED MODE USING FOUR (4) NEMA PHASES.

MAINLINE MD 119 OPERATES CONCURRENTLY.
A PEDESTRIAN MOVEMENT FOR QUEENSTOWN LANE/COTTAGE GARDEN DRIVE IS ON RECALL DURING MAINLINE OPERATION.
QUEENSTOWN LANE /COTTAGE GARDEN DRIVE OPERATE CONCURRENTLY.
AN ACTUATED PEDESTRIAN MOVEMENT ACROSS BOTH LEGS OF MD 119 IS PROVIDED DURING THIS PHASE.
THIS INTERSECTION IS PART OF THE MD 119 INTERCONNECT SIGNAL SYSTEM.

PEDESTRIAN FACILITIES WILL BE UPGRADED INCLUDING ADA RAMPS APS/CPS SIGNALS AND A NEW 2-WIRE CENTRAL CONTROL UNIT WILL BE INSTALLED IN THE EXISTING CABINET.

AUDIBLE PUSHBUTTON FUNCTION SHALL BE AS FOLLOWS:

1. WHEN A PEDESTRIAN PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

FOR NORTH AND SOUTH LEG RAMPS, "WAIT TO CROSS GREAT SENECA HIGHWAY AT QUEENSTOWN AND COTTAGE GARDEN, WAIT."
FOR EAST LEG RAMPS, "WAIT TO CROSS QUEENSTOWN AT GREAT SENECA HIGHWAY, WAIT"
FOR WEST LEG RAMPS, "WAIT TO CROSS COTTAGE GARDEN AT GREAT SENECA HIGHWAY, WAIT"

2. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL CONTINUE FOR THE DURATION OF THE "WALK" PHASE.

PROJECT CONTACTS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MISS ANYESHA MOOKHERJEE
ASST. DISTRICT ENGINEER (MO) –TRAFFIC
PHONE: 301-513-7498

MR. EDWARD RODENHIZER
CHIEF-SIGNAL OPERATIONS SECT.
PHONE: 410-787-7650

MR. TOM FOUNTAIN
ASST. DISTRICT ENGINEER-MAINTENANCE
PHONE: 301-513-7304

MR. SONNY BAILEY
CHIEF-SIGN SHOP
PHONE: 410-787-7670

MR. VICTOR GRAFTON
UTILITY ENGINEER
PHONE: 301-513-7350

MR. MIKE STOCKER
OOTS, SIGNAL WAREHOUSE
PHONE: 410-787-7668

MS. CORREN JOHNSON
CHIEF-TRAFFIC OPERATIONS DIV.
PHONE: 410-787-7630

MR. BOB RICKETTS
SUPERVISOR, MONTGOMERY TECHNICAL CENTER
MONTGOMERY COUNTY DOT
DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS
PHONE: 240-876-3681

MR. KAMAL HAMUD
TEAM LEADER, TRAFFIC SIGNALS
MONTGOMERY COUNTY DOT
DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS
PHONE: 240-777-8761

POWER COMPANY REPRESENTATIVE – PEPCO:
MR. RICHARD CHILCOAT, SERVICE ASSOCIATE
PEPCO ENGINEERING
8300 OLD MARLBORO PIKE
UPPER MARLBORO MARYLAND 20772
PHONE: 301-967-5805, FAX: 301-967-5820
EMAIL RACHILCOAT@PEPCO.COM

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR USING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE SHA BOOK OF STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

900000	176 SF	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF:
	16 EA	W16-7p(L) LEFT DIAGONAL ARROW (24"X 12") GROUND MOUNT
	8 EA	W16-7p(R) RIGHT DIAGONAL ARROW (24"X 12") GROUND MOUNT
	8 EA	S1-1 SCHOOL CROSSING (36"X 36") GROUND MOUNT
900000	4 SF	SHEET ALUMINUM MAST ARM /POLE MOUNTED SIGNS CONSISTING OF:
	2 EA	R10-3(1) PUSHBUTTON SIGN (9"X 15") POLE MOUNT "TO CROSS GREAT SENECA HWY"
	2 EA	R10-3(1) PUSHBUTTON SIGN (9"X 15") POLE MOUNT "TO CROSS QUEENSTOWN LANE"
	EA	R10-3(1) PUSHBUTTON SIGN (9"X 15") POLE MOUNT "TO CROSS COTTAGE GARDEN DRIVE"

EQUIPMENT LIST "B"

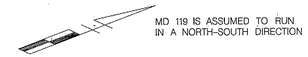
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
100000	1 EA	MAINTENANCE OF TRAFFIC (PER INTERSECTION)
201032	2 CY	CLASS 2 EXCAVATION
203030	2 CY	TEST PIT EXCAVATION
504150	0.3 TON	HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG76-22, LEVEL-3
520109	3 SY	3 INCH GRADED AGGREGATE BASE COURSE
585621	1360 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	110 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	1200 LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES ANY WIDTH
600000	180 LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
655105	1250 SF	5 INCH CONCRETE SIDEWALK
655120	80 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	12 SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
708220	12 SY	TURFGRASS SOD ESTABLISHMENT
800000	1 EA	2-WIRE CENTRAL CONTROL UNIT
800000	8 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	7 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
800000	1 EA	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
800000	140 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT – TRENCHED
800000	192 LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
800000	8 EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION AND GROUND ROD
800000	180 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1 EA	THIRD PARTY CONCRETE TESTING (PER INTERSECTION)
802501	180 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	1300 LF	ELECTRICAL CABLE– 2 CONDUCTOR (NO. 14 AWG)
861107	1350 LF	ELECTRICAL CABLE– 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST "C"

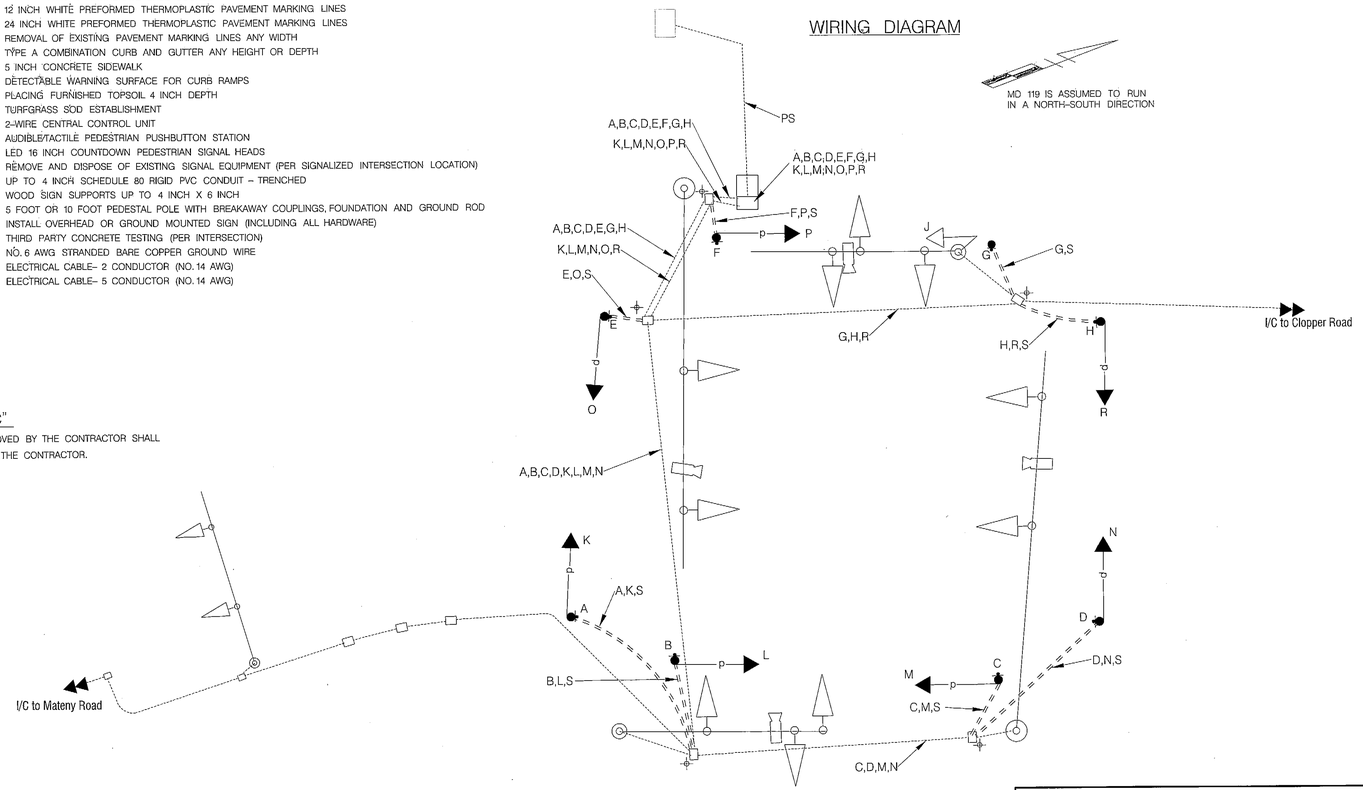
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Y	Y	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G								
PHASE 2 + 6	DARK	DARK	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEAR & COUNTDOWN	DARK	DARK	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
PHASE 2 + 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	FL/Y	FL/Y	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 CHANGE	FL/Y	FL/Y	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT	FL/Y	FL/Y	R	R	R	R	G	G	G	G	G	G	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR & COUNTDOWN	FL/Y	FL/Y	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 4 & 8 ALT CHANGE	FL/Y	FL/Y	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
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	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A,B,C,D, E,F,G,H — 2 CONDUCTOR NO. 14 AWG ELECTRICAL CABLE
J — EXISTING 5 CONDUCTOR NO. 14 AWG ELECTRICAL CABLE TO CABINET
K,L,M,N, O,P,R — 5 CONDUCTOR NO. 14 AWG ELECTRICAL CABLE
S — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
— EXISTING GROUND ROD
PS — EXISTING SERVICE FEED

SHA

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

MD 119 (GREAT SENECA HIGHWAY)
AND QUEENSTOWN LANE /COTTAGE GARDEN DRIVE
GERMANTOWN, MARYLAND

GENERAL INFORMATION PLAN

SCALE NONE ADVERTISED DATE APRIL 2013 CONTRACT NO. XY1515185

DESIGNED BY PMH
DRAWN BY PMH
CHECKED BY W5
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15011906.11
TIMS NO. L803
TOD NO.

TS NO. 4164 B | DRAWING SG – 3 OF 3 | SHEET NO. 3 OF 3

WAE Williams Associates Engineers
Williams Associates-Engineers, P.A.
777 State Route 3 N, Suite D
Gambrills, Maryland 21054
Phone: 410-729-1004
Facsimile: 410-729-1009

BY: mhusselbee –

PLOTTED: Thursday, May 02, 2013 AT 10:45 AM
FILE: \\Server02\wae files\01_Project\001_TEDD-BA\01_Task Work\061_0100_Task09 – MD119-2lnl\061_010902_Analysis\MD 119 at Cottage Garden\CADD\pSG-P003_MD119_Cottage_Garden.dgn