

PROJECT DESCRIPTION

GENERAL
THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS AND COUNTDOWN PEDESTRIAN SIGNALS AT THE INTERSECTION OF MD 355 (WISCONSIN AVE.) AND BATTERY LANE / ROSEDALE AVENUE IN MONTGOMERY COUNTY, MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, FULL TRAFFIC-ACTUATED MODE. THE MAINLINE LAG LEFT TURN AND SIDE STREET SPLIT PHASING WILL REMAIN. THE EXISTING SOUTH LEG PEDESTRIAN CROSSING WILL REMAIN AND OPERATE DURING PHASE 4 ONLY.

CONTROLLER REQUIREMENTS
THE EXISTING BASE MOUNTED CABINET, CONTROLLER AND ASSOCIATED HARNESSES SHALL REMAIN. THE MONTGOMERY COUNTY SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

- TO CROSS WISCONSIN AVE:
- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS WISCONSIN AT BATTERY AND ROSEDALE, CROSSWALK ANGLES LEFT, WAIT".
 - WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.
- TO CROSS ROSEDALE AVE:
- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS ROSEDALE AT WISCONSIN, WAIT".
 - WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.
- TO CROSS BATTERY LANE:
- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS BATTERY AT WISCONSIN, WAIT".
 - WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

- SPECIAL NOTES**
- MONTGOMERY COUNTY SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE APS PUSH BUTTONS SHALL BE PROGRAMMED BY THE MANUFACTURER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
 - ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT MR. KAMAL HAMUD AT (240) 777-8761 72 HOURS IN ADVANCE OF INTENDED WORK.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Cedric Ward
Assistant District Engineer - Traffic
Phone: 301-513-7498

Mr. Victor Grafton
District Utility Engineer
Phone: 301-513-7350

Mr. Vernon Stinnett
Assistant District Engineer - Maintenance
Phone: 301-513-7304

OFFICE OF TRAFFIC AND 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
Chief Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Chief Sign Operations
410-787-7670

MONTGOMERY COUNTY:

Mr. Kamal Hamud
Traffic Engineering
240-777-8761

Mr. Bob Ricketts
Signal Shop
301-279-1975

The Power Company Is:
Pepco
8300 Old Marlboro Pike
Upper Marlboro, MD 20442
Phone: 301-961-5325

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

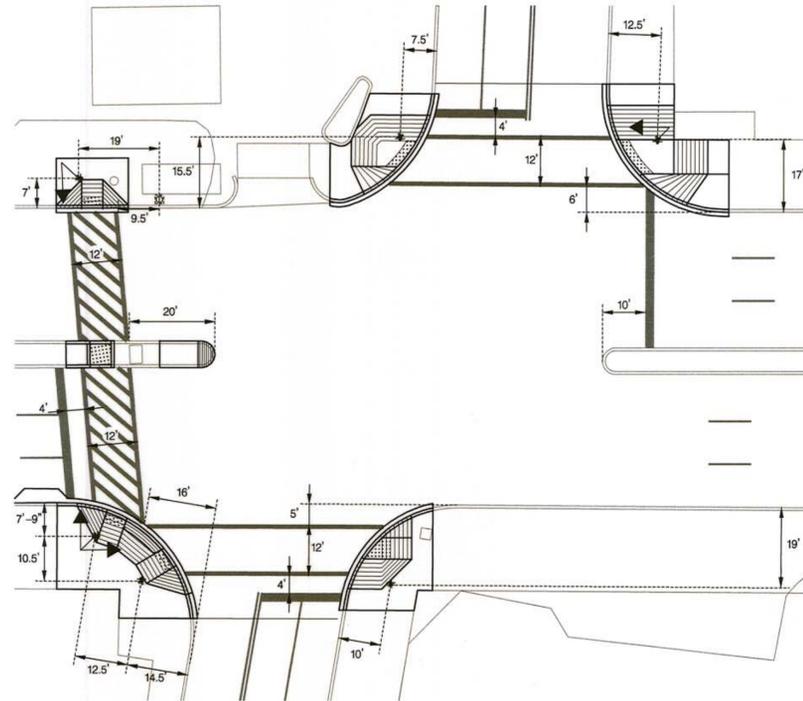
CATEGORY CODE	QUANTITY	DESCRIPTION
973023	35 SF	SHEET ALUMINUM SIGNS:
		2 EA - R10-3(I) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS WISCONSIN AVE."
		2 EA - R10-3(I) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS BATTERY LN."
		2 EA - R10-3(I) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS ROSEDALE AVE."
		2 EA - W11-2 (30 IN. X 30 IN.)
		2 EA - W16-7p(R) (24 IN. X 12 IN.)
		2 EA - W16-7p(L) (24 IN. X 12 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	4 CY	TEST PIT EXCAVATION
600000	300 SF	REMOVE AND RESET BRICK SIDEWALK
800000	1 EA	2-WIRE CENTRAL CONTROL UNIT
800000	1 EA	4 INCH SCHEDULE 80 RIGID PVC BEND IN EXISTING FOUNDATION
800000	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	6 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1 EA	REMOVE & DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
800000	6 EA	10 FOOT BREAKAWAY PEDESTAL POLE, PAINTED
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
801106	48 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
802145	2 EA	ADJUST EXISTING HANDHOLE
802501	620 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	225 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	15 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805155	265 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
811001	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	29 SF	INSTALL GROUND MOUNTED SIGN
813015	6 SF	INSTALL OVERHEAD SIGN
837001	5 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860292	3 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	1,100 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	625 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PROPOSED SIGNAL EQUIPMENT AND PAVEMENT MARKING LAYOUT NOT TO SCALE

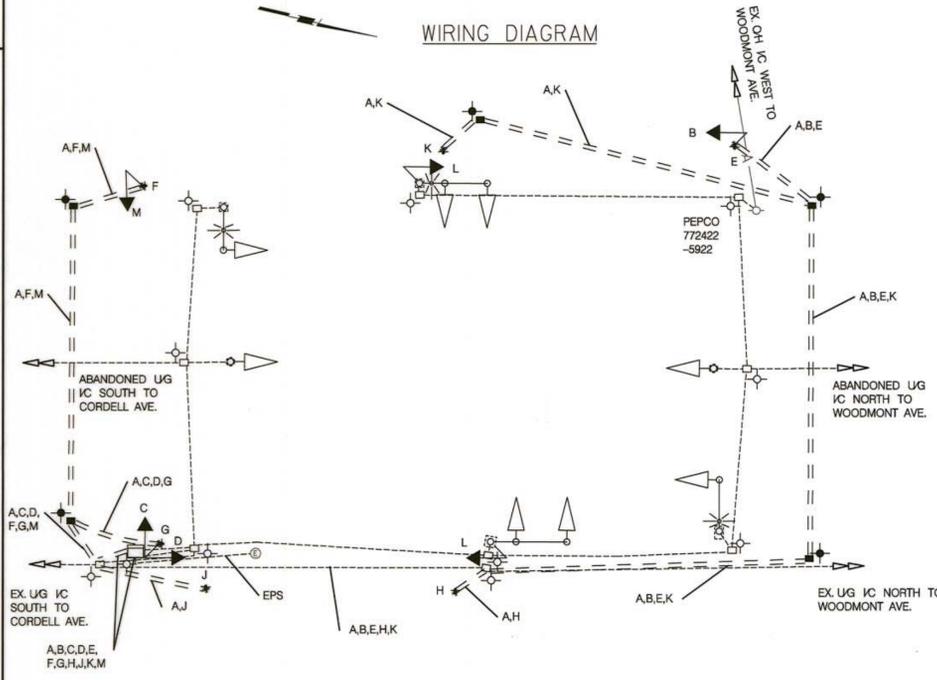


EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
NONE		ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	(R) (Y) (G)													
PHASE 2 & 5	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	R	R	R	R	FL/DW	WK	WK	FL/DW	DW	DW
PHASE 5 CHANGE	Y	Y	G	G	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 & 6	R	R	G	G	R	R	R	R	DW	WK	WK	DW	DW	DW
PED CLEARANCE	R	R	G	G	R	R	R	R	DW	FL/DW	FL/DW	DW	DW	DW
PHASE 2 & 6 CHANGE	R	R	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	R	R	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	G	G	R	R	DW	DW	DW	DW	FL/DW	FL/DW
PHASE 4 CHANGE	R	R	R	R	Y	Y	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

BY: tartnovk

STV Incorporated
7125 Ambassador Road, Suite 200
Baltimore, MD 21244
www.stvinc.com

- A - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- B - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- C - ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
- D - USE EXISTING WIRING
- EPS - EXISTING POWER SERVICE
- E - EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
- F - PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

ADDED SHEET
REDLINE REVISION NO. 1
09/2011

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (WISCONSIN AVENUE) AT
BATTERY LANE / ROSEDALE AVENUE
BETHESDA, MARYLAND

GENERAL INFORMATION SHEET

SCALE: 1" = 20'. ADVERTISED DATE: 09/2011. CONTRACT NO.: MO2195177

DESIGNED BY: MCG. COUNTY: MONTGOMERY
DRAWN BY: MCG. LOGMILE:
CHECKED BY: MTS. TMS NO.:
F.A.P. NO.: TOD NO.:

TS NO. 2034B-GI. DRAWING: 5G-02 OF 02. SHEET NO. 02 OF 02