

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE COMPETITION OF THE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 191 (BRADLEY BOULEVARD) AND ARLINGTON ROAD IN MONTGOMERY COUNTY. MD 191 IS ASSUMED TO RUN IN AN EAST- WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTIVATED MODE. SPLIT PHASING WILL BE INSTALLED FOR THE SIDE STREET. THE EXISTING WESTBOUND EXCLUSIVE/PERMISSIVE PHASING WILL REMAIN. THE EASTBOUND EXCLUSIVE PHASING WILL BE REPLACED BY EXCLUSIVE/PERMISSIVE PHASING. THE EXISTING MAINLINE AND ALTERNATE SIDE STREET PEDESTRIAN PHASES WILL REMAIN. THE EXISTING WB CONCURRENT RIGHT TURN W/ PHASE 3 WILL REMAIN.

CONTROLLER REQUIREMENTS

ALL PROPOSED SIGNAL EQUIPMENT IS INSTALLED.

APS WILL FUNCTION AS FOLLOWS:

FOR BRADLEY BOULEVARD

A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS BRADLEY BOULEVARD AT ARLINGTON ROAD, WAIT."

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

FOR ARLINGTON ROAD, NORTH LEG

A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS ARLINGTON ROAD AT BRADLEY BOULEVARD, WAIT."

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

FOR ARLINGTON ROAD, SOUTH LEG

A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS ARLINGTON ROAD AT BRADLEY BOULEVARD, CROSSWALK ANGLES LEFT, WAIT."

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

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

District #3

Ms. Felecia Murphy
Assistant District Engineer - Traffic
Phone: 301-513-7358

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

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

Mr. Kevin Nowak
Assistant District Engineer - Construction
Phone: 301-513-7385

Mr. Kamal Hamud
Montgomery County Traffic Engineering
Phone: 240-777-8761

Office Of Traffic & Safety

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

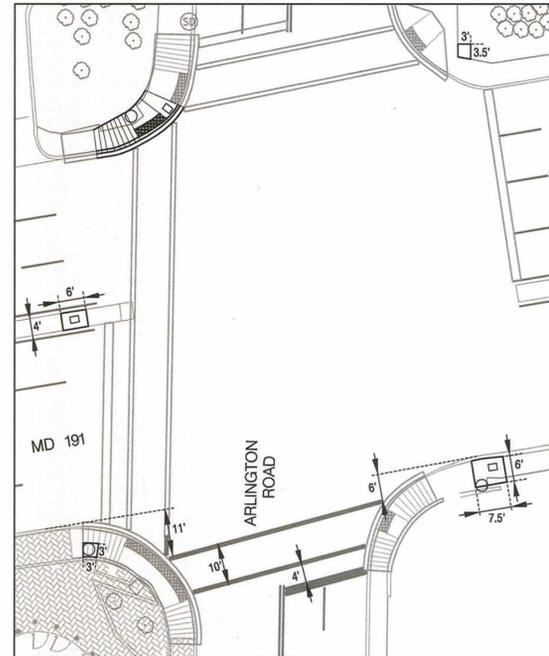
Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

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

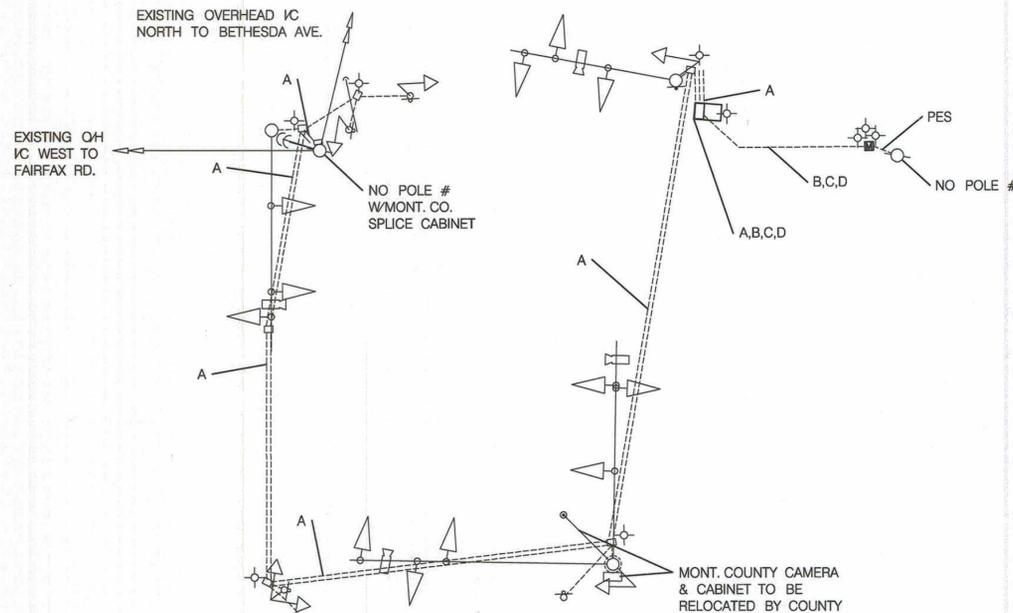
Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

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

PROPOSED SIDEWALK REPLACEMENT AND PAVEMENT MARKING DETAIL
NOT TO SCALE



WIRING DIAGRAM



PHASE CHART	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 1 CHANGE	←YG	←YG	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	←GG	←GG	G	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	RG→	R	R	R	←GG	←GG	G	DW	DW	DW	DW	DW	DW
PHASE 4 CHANGE	R	R	R	R	R	RY→	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	RG→	R	R	R	←GG	←GG	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	RG→	R	R	R	←GG	←GG	G	DW	DW	DW	DW	FL/DW	FL/DW
PHASE 4 ALT. CHANGE	R	R	R	R	R	RY→	R	R	R	Y	Y	Y	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

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO. QUANTITY DESCRIPTION

NONE

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO. QUANTITY DESCRIPTION

1001	1 EA	MAINTENANCE OF TRAFFIC
5001	125 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	110 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5006	25 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	35 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	315 SF	5 INCH CONCRETE SIDEWALK
8009	1 EA	CONDUIT BEND IN EXISTING BASE
8013	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8018	30 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8019	15 SF	DETECTABLE WARNING SURFACES
8030	1 EA	RELOCATE EXISTING OVERHEAD SIGN
8039	66 LF	FURNISH AND INSTALL CONDUCTOR NO. 4 AWG THHN/THWN
NEG.	1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
NEG.	495 LF	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO. QUANTITY DESCRIPTION

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

TOD NO: XX427-26
SHA NO: MO22885A
MD 191 @ Arlington Road

GREENLINE REVISION NO.1 FEBRUARY 2012
COMPLETION OF SIGNAL RECONSTRUCTION
TIMS # L226

REDLINE REVISION NO.1 JUNE 2010
ORIGINAL ON FILE
TEDD APPROVAL
SHA NO. XX4448185

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 191 (BRADLEY BOULEVARD)
AT ARLINGTON ROAD

GENERAL INFORMATION

SCALE	NONE	ADVERTISED DATE	02/2012	CONTRACT NO.	XX4275185
DESIGNED BY	KXT	COUNTY	MONTGOMERY		
DRAWN BY	KXT	LOGMILE	15019105.97		
CHECKED BY	BAB	TIMS NO.	L226		
F.A.P. NO.		TOD NO.			
TS NO.	4385C-GI	DRAWING	SG-02	OF 02	SHEET NO. 2 OF 2

STV
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