

THIS PROJECT INVOLVES THE FULL RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 212 (RIGGS ROAD) AND SARGENT ROAD IN PRINCE GEORGE'S COUNTY, IN ORDER TO ACCOMMODATE THE PEDESTRIAN MODIFICATIONS. IN ADDITION, THE SOUTHBOUND LEFT TURN LANE WILL BE MODIFIED TO A DOUBLE LEFT TURN LANE. ALL PRESENCE LOOP DETECTORS WILL BE REPLACED WITH VIDEO DETECTION. MD 212 IS ASSUMED TO RUN IN AN NORTH - SOUTH DIRECTION.

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH NEW EXCLUSIVE DOUBLE LEFT TURN PHASING FOR THE SOUTHBOUND APPROACH. THE CONCURRENT MAINLINE AND ALTERNATE SIDE STREET PEDESTRIAN PHASES WILL REMAIN. THE EASTBOUND RIGHT TURN OVERLAP PHASE WILL REMAIN.

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER, AMPLIFIERS, AND ASSOCIATED HARNESSES IN A NEMA SIZE "6" BASE MOUNTED CABINET. INSTALL ONE (1) VIDEO DETECTION INTERFACE FOR 1-4 CAMERAS AND ONE (1) CENTRAL CONTROL UNIT.

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7650 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

Mr. Brian Young
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
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Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7650

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

<u>ITEM NO</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
900000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
971017	1 EA	EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT
973023	100 SF	SHEET ALUMINUM SIGNS: 2 EA - R10-4(1)MOD, (9 IN. X 15 IN.) POLE MOUNT, *PUSH BUTTON TO CROSS RIGGS ROAD* 2 EA - R10-4(1)MOD, (9 IN. X 15 IN.) POLE MOUNT, *PUSH BUTTON TO CROSS SARGENT ROAD* 2 EA - D-3(2), (96 IN. X 16 IN.) MAST ARM MOUNT, *SARGENT ROAD* DUAL FACED 1 EA - D-3(2), (96 IN. X 16 IN.) MAST ARM MOUNT, *RIGGS ROAD* 2 EA - R3-5L, (30 IN. X 36 IN.) MAST ARM MOUNT, *LEFT TURN ONLY* 1 EA - ASSOCIATED SHIELD ASSEMBLY: POLE MOUNT, (30 IN. X 51 IN.), *EAST, MD 212, RIGHT ARROW* 1 EA - ASSOCIATED SHILED ASSEMBLY: POLE MOUNT, (48 IN. X 75 IN.), *WEST, MD 212, LEFT ARROW*

<u>CATEGORY CODE</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	5 CY	TEST PIT EXCAVATION
585612	510 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585624	140 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
655105	100 SF	5 INCH CONCRETE SIDEWALK
800000	1 EA	2-WIRE CENTRAL CONTROL UNIT
800000	3 EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000	4 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	125 LF	ELECTRICAL CABLE - 1 CONDUCTOR, 250 KCMIL, CU, USE
800000	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1 LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
800000	1 EA	16 FT. SPECIAL "T" STEEL POLE WITH A TWIN 70 FT./38 FT. MAST ARMS
800000	1 EA	16 FT. SPECIAL "T" STEEL POLE WITH A SINGLE 38 FT. MAST ARM
800000	1 EA	16 FT. SPECIAL "T" STEEL POLE WITH A SINGLE 50 FT. MAST ARM
801004	13 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	480 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805115	140 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
805125	35 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805135	310 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805140	35 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805155	315 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED
807202	1 EA	200A METERED SERVICE PEDESTAL
810605	6 EA	NON-INVASIVE DETECTOR - 1000 FOOT LEAD IN CABLE
811001	9 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	100 SF	INSTALL OVERHEAD SIGN
816001	2 EA	VIDEO DETECTION CAMERA
816005	2 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
818004	1 EA	10 FOOT BREAKAWAY PEDESTAL POLE
837001	14 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
860284	34 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	730 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
861107	880 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
861108	1485 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
871202	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

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

WIRING DIAGRAM

The diagram illustrates a complex electrical or communication network. Key components and labels include:

- Top Section:** Labeled with "A,B,C,D,E,F,ZAA,BB", "G,H,J,K,L,M,O,Q,S,T,U,V,W,X,Y,Z,CC", "T", "T,BB", "T,Y,BB", "T,Y,Z,BB". It features several star-like symbols and connection points.
- Middle Left Section:** Includes "O,W,X,ZAA", "O,W,XAA", "X,AA", "AA", "X", "N", "P", "J,S", "PPS", "PEPCO 804413 3473", "PTS". It shows a vertical cable with multiple taps and a central processing unit.
- Bottom Left Section:** Labeled "A,B,C,G,K,L,Q,Z", "NML", "K,Q", "L", "G,I,Z", "A,B,C". It depicts another vertical cable with taps and a small circular component.
- Right Section:** Features a large vertical cable with many taps labeled "D,H,M,U,V,Z,CC", "U", "V", "R", "U,V", "H", "M", "H,M,U,V,Z,CC". It also includes "NML" labels at the top and bottom right.
- Connections:** Various dashed and solid lines represent different types of cables or signal paths connecting the different sections.

ABCDEF

NON-INVASIVE MICROLOOP PROBE
LEAD IN CABLE - 1000 FOOT

A	NON-INVASIVE MICROLOOP PROBE LEAD IN CABLE - 1000 FOOT
B	
C	
D	
E	
F	
G	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
H	
K	
L	
M	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
N	
O	
P	
R	
S	
T	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
U	
V	
W	
X	
Y	
CC	

 Z NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

 AA/BB CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER

 NML NON-INVASIVE MICROLOOP PROBE SET

 PTS PROPOSED UNDERGROUND TELEPHONE SERVICE TO BE INSTALLED BY OTHERS

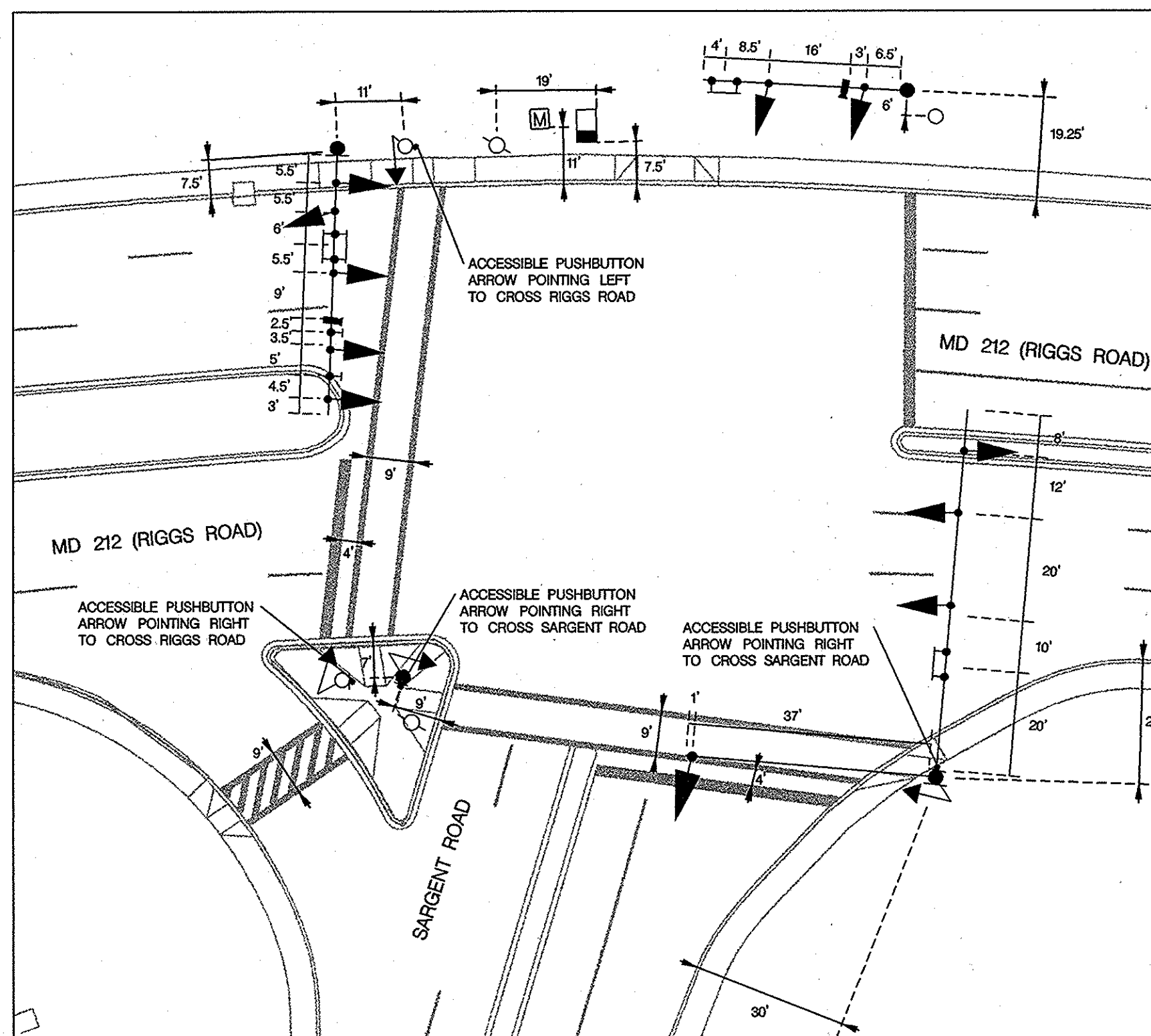
 PPS PROPOSED UNDERGROUND POWER SERVICE (ELECTRICAL CABLE 1 - CONDUCTOR, 250 KCMIL, CU, USE 3 RUNS WITH 3-30' COILS OF SLACK CABLE AT UTILITY POLE, FINAL SERVICE CONNECTION TO BE MADE BY PEPCO)

 EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

 PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

 M 200A METERED SERVICE PEDESTAL

(NOT TO SCALE)



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
PHASE 2 & 5	R	R	R				G	G		R	R	DW	DW	DW	DW	
PHASE 5 CHANGE	R	R	R				G	G		R	R	DW	DW	DW	DW	
PHASE 2 & 6	G	G	G				G	G	R	R	R	W	W	DW	DW	
PHASE 2 & 6 PED. CLEARANCE	G	G	G				G	G	R	R	R	FL/DW	FL/DW	DW	DW	
PHASE 2 & 6 CHANGE	Y	Y	Y				Y	Y	R	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R				R	R	G	G		DW	DW	DW	DW	
PHASE 4 CHANGE	R	R	R				R	R	Y	Y		DW	DW	DW	DW	
PHASE 4 ALT.	R	R	R				R	R	G	G		DW	DW	W	W	
PHASE 4 ALT. PED. CLEARANCE	R	R	R				R	R	G	G		DW	DW	FL/DW	FL/DW	
PHASE 4 ALT. CHANGE	R	R	R				R	R	Y	Y		DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

SHIA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
212 (RIGGS ROAD) AT SARGENT ROAD

SCALE NONE DATE 11/2006 CONTRACT NO. PG6775177

DESIGNED BY _____ MCG _____ COUNTY PRINCE GEORGE'S
DRAWN BY _____ MCG _____ LOGMILE 16021200.93
CHECKED BY _____ BAB _____ T.I.M.S. NO. H65
F.A.P. NO. _____ TOD NO. _____

DRAWING NO. TS-1779C OF	SHEET NO. 17 OF
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