PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 223 (MELWOOD RD) AND MD 4 WB OFF RAMP AND OLD MARLBORO PIKE IN PRINCE GEORGE'S COUNTY. THE TEMPORY SIGNAL WILL BE USE FOR MOT DURING PHASE 2.3A & 3B OF BRIDGE NO. 16181 ON MD 4 CONSTRUCTION. MD 223 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION SHALL OPERATE IN A NEMA SIX (6) PHASE, SEMI-ACTUATED MODE. A PROPOSED NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER IN A NEMA SIZE "5" POLE MOUNTED CABINET, WITH VIDEO DETECTION SHALL BE INSTALLED AT THIS LOCATION.

CONTACTS

DISTRICT (DISTRICT 3 - PRINCE GEORGE'S)

MR. BRIAN YOUNG
DISTRICT ENGINEER
301-513-7311

MR. VENU NENAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7404

MR. VICTOR GRAFTON
DISTRICT UTILITY ENGINEER
301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7336

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

OFFICE OF TRAFFIC AND SAFETY

MRS. COREEN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

VACANT
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS SECTION
410-787-7670

MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7696

UTILITY CONTACT

PEPCO
MR. RICHARD CHILCOAT
(301)967-5820
8300 OLD MARLBORO PIKE
UPPER MARLBORO, MD 20772-0772

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

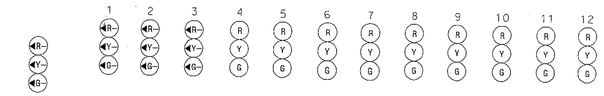
ITEM NO.	QUANTITY		DESCRIPTION
9043	1	EA	[UPDATED] CONTROLLER CABINET, SIZE 5
9115	1	EA	CONTROLLER ASC III WITH TELEMETRY
9570	22	SF	SHEET ALUMINUM GROUND MOUNT SIGN
	2	EA	W3-3 (36"x36"); 'TEMP PANEL' (24"x12")
9572	15	SF	SHEET ALUMINUM SPAN MOUNT SIGN
	2	EA	R3-5(L) 'LEFT ONLY' (30"x36")
	1	EA	R10-11(1) 'NO TURN ON RED' (24"x30")

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

ITEM NO.	QUANTITY		DESCRIPTION
203030	4	CY	TEST PIT EXCAVATION
655105	25	SF	5 INCH CONCRETE SIDEWALK
800000	5	EA	40' CLASS II WOOD POLE
800000	10	LF	2 INCH ELECTRICAL CONDUIT PVC RISERS
800000	1	EA	2-WIRE CONTROL UNIT
800000	100	LF	ELECTRICAL CABLE 1-CONDUCTOR, 250 KCMIL, CU, USE 600V
800000	1	EA	REMOVE AND DISPOSE OF EQUIPMENT
800000	3	EA	VIDEO DETECTION CAMERA AND CABLE
800000	3	EA	VIDEO DETECTION ARM - 15' LENGTH
800000	1	EA	WEATHER HEAD, 2 INCH
801106	36	LF	WOOD SIGN SUPPORTS 4 INCH x 6 INCH
805118	90	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805125	10	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	20	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807202	1	EA	METERED SERVICE PEDESTAL
810022	45	LF	ELECTRICAL CABLE - 1 CONDUCTOR NO. 8 AWG - THHN/THWN
811001	2	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	22	SF	INSTALL GROUND MOUNTED SIGN
813015	20	SF	INSTALL OVERHEAD SIGN
833060	30	LF	3 INCH PVC SCHEDULE 80 PVC CONDUIT RISER
860284	36	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	75	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1190	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
869102	435	LF	STEEL SPAN WIRE - 3/8 INCH DIAMETER
871201	1	EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

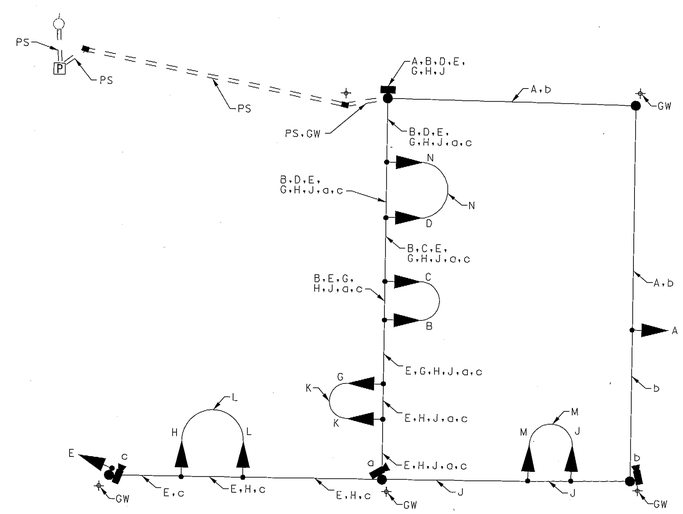
C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE [NEW SIGNAL / SIGNAL MODIFICATIONS].

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 6	G	G	G	G	G	R	R	R	R	R	R	R
1 & 6 CHANGE	Y	Y	Y	G	G	R	R	R	R	R	R	R
PHASE 2 & 6	R	R	R	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	R	R	R	Y	Y	Y	Y	Y	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	G	G
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y
PHASE 4	R	R	R	R	R	R	R	R	G	G	R	R
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	R	R
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

A,B,D,E, G,H,J	- 7- CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C,K,L,M, N	- 5- CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
a,b,c	- VIDEO DETECTION CABLE
PS	- 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 250 KCMIL)
GW	- NO.6 AWG STRANDED BARE COPPER GROUND WIRE
+	- 3/4 IN. x 10 FT. GROUND ROD

2 ADDENDUM 2
REPLACE SHEETS

PARSONS BRINCKERHOFF
100 S. Charles Street
Tower 1, 10th Floor
Baltimore, MD 21201
(Ph) 410-787-5050
(Fax) 410-727-4808
http://www.pbworld.com

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

MD 4 OVER 223
BRIDGE REPLACEMENT
UPPER MARLBORO, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE 11/16/2012 CONTRACT NO. PG6645180

DESIGNED BY MAW
DRAWN BY MAW
CHECKED BY KMP
F.A.P. NO. SEE TITLE SHEET
COUNTY PRINCE GEORGE'S
LOGMILE 16022312.62
TIMS NO. 1159
TOD NO.

TS NO. | DRAWING SG-02 OF 02 | SHEET NO. 197 OF 228

PLOTTED: Wednesday, November 14, 2012 AT 09:10 AM
FILE: T:\173124A-TrafficDesignServices\TIR\43\plans\pSG-N001_MDrte4MD223.dgn

BY: Kurgansky