PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING SIGNAL TO ADD FOURTH LEG AND PEDESTRIAN HEADS, SIGNAGE AND PAVEMENT MARKING.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL CHANGE TO FEATURE CONCURRENT PHASING FOR THE SIDE STREET.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

PROJECT CONTACTS:

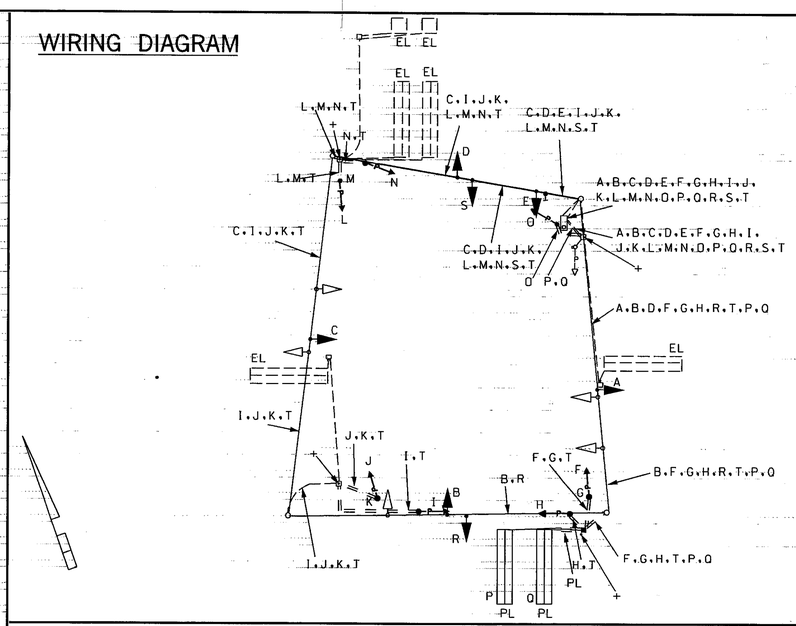
MR. MAJID SHAJIB, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358
MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 513-7300
MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (301) 513-7300
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ROBERT SNYDER, ASSISTANT CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631
MR. ED RODENHIZER, CHIEF OF SIGNAL SHOP
PHONE: (410) 787-7650

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING STANDARD PROCEDURES FOR TRAFFIC CONTROL.

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

SPEC. SECTION	CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
104	120500	MAINTENANCE OF TRAFFIC.	LS	1
553	585426	FURNISH AND INSTALL LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING LETTER.	EACH	4
553	585428	FURNISH AND INSTALL LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING ARROW.	EACH	2
556	585620	FURNISH AND INSTALL 12'' HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).	LF	730
556	585624	FURNISH AND INSTALL 24'' HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP BAR).	LF	73
556	585616	FURNISH AND INSTALL 5'' HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC. PAVEMENT MARKING (LANE MARKING).	LF	50
556	585618	FURNISH AND INSTALL 5'' HEAT APPLIED YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CENTER LINE).	LF	100
805	805011	FURNISH AND INSTALL 1'' ELECTRICAL CONDUIT - GALVANIZED SLEEVE.	LF	30
805	805125	FURNISH AND INSTALL 2'' SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.	LF	125
804	837001	FURNISH AND INSTALL GROUND ROD - 3/4'' DIAMETER X 10' LENGTH.	EACH	7
810	861104	FURNISH AND INSTALL 2 CONDUCTOR (ALUMINUM SHIELDED).	LF	100
805	805135	FURNISH AND INSTALL 3'' SCHEDULE RIGID PVC CONDUIT - TRENCHED.	LF	30
810	861105	FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR (NO. 14 AWG).	LF	1,300
810	861106	FURNISH AND INSTALL ELECTRICAL CABLE 3 CONDUCTOR (NO. 14 AWG).	LF	1,300
810	861107	FURNISH AND INSTALL ELECTRICAL CABLE 5 CONDUCTOR (NO. 14 AWG).	LF	450
810	861108	FURNISH AND INSTALL ELECTRICAL CABLE 7 CONDUCTOR (NO. 14 AWG).	LF	650
810	862101	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG).	LF	1,700
810	818004	FURNISH AND INSTALL 10' BREAKAWAY PEDESTAL POLE.	EACH	7
811	811002	REMOVE ELECTRICAL HANDHOLE.	LS	1
811	811001	FURNISH AND INSTALL ELECTRICAL HAND HOLE.	EACH	1
812	801106	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4'' X 6''.	LF	20
813	813014	FURNISH AND INSTALL GROUND MOUNTED SIGN.	SF	65
813	813015	FURNISH AND INSTALL OVERHEAD SIGN.	SF	32
814	860264	FURNISH AND INSTALL 12'' PEDESTRIAN SIGNAL HEAD SECTION - PEDESTAL MOUNT.	EACH	14
814	860272	FURNISH AND INSTALL 12'' VEHICULAR TRAFFIC SIGNAL HEAD SECTION.	EACH	16
814	860270	FURNISH AND INSTALL 8'' VEHICULAR TRAFFIC SIGNAL HEAD SECTION.	EACH	9
815	862102	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR).	LF	400
817	865201	FURNISH AND INSTALL PUSH BUTTON AND SIGN.	EACH	2
819	869101	FURNISH AND INSTALL TETHER WIRE - 1/4'' DIAMETER.	LF	125
819	869102	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8'' DIAMETER.	LF	125
818	867105	FURNISH AND INSTALL CAMERA12'' X 32' STRAIN POLE.	EACH	1

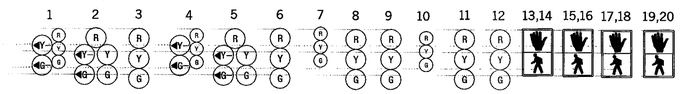
WIRING DIAGRAM



KEY

A, B, D, R, S	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG).
C	USE EXISTING 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG).
F, H, I, J, L, N, O	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG).
G, K, M	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG).
T	BARE STRANDED GROUND WIRE (NO. 14 AWG)
P, Q	2 CONDUCTOR ALUMINUM SHIELDED CABLE (NO. 14 AWG).
+	3/4'' DIAMETER X 10' LENGTH GROUND ROD.
EL	EXISTING LOOP.
PL	PROPOSED LOOP WIRE (NO.14 AWG) 1/4' IN FLEXIBLE TUBING.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13,14	15,16	17,18	19,20
PHASE 1 AND 5	◀G-/R	◀G-/R	R	◀G-/R	◀G-/R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 MAY CHANGE TO 1 AND 6,2 AND 5,OR 2 AND 6																
PHASE 1 AND 6	R	R	R	◀G-/G	◀G-/G	G	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 6 CHANGE	R	R	R	◀Y-/Y	◀Y-/Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	◀G-/G	◀G-/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
2 AND 5 CHANGE	◀Y-/G	◀Y-/G	Y	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	DW	WK	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	DW	FL/DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 AND 8CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	WK	DW	WK
PED CLEAR	R	R	R	R	R	R	G	G	G	G	G	G	DW	FL/DW	DW	FL/DW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	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

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN

MD 193 AT 15TH AVENUE.

O.R. GEORGE & ASSOCIATES, INC.
Traffic Engineers - Transportation Planners
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(301) 794-7700

DRAWN BY: KC/CW	F.A.P. NO.		TS NO. 405D	SHEET NO. 2 OF 2
CHECKED BY: ORG	S.H.A. NO.	BW996M82		
SCALE: NTS	COUNTY:	PRINCE GEORGES	T.I.M.S. NO. G227X	
DATE: August, 2004	LOG MILE:	16019300.74		