

PROJECT DESCRIPTION

I. GENERAL
THIS PROJECT INVOLVES UPGRADING THE INTERSECTION WITH LED SIGNAL HEADS.

II. INTERSECTION OPERATION
1. THE INTERSECTION IS TO OPERATE IN A NEMA 6-PHASE, SEMI-ACTUATED MODE.

NOTES

- FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLANS, AS APPLICABLE; OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE HIGHWAY ADMINISTRATION STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
- FOR THE EXISTING CONDUITS THAT ARE TO BE USED, THE CONTRACTOR SHALL REMOVE ALL INOPERABLE/UNUSED WIRES/CABLES. IF NECESSARY, THESE WIRES/CABLES SHALL BE REMOVED FROM CONDUITS NOT LABELED "USE EXISTING CONDUIT" IN ORDER TO COMPLETELY REMOVE THEM FROM THE CONDUIT SYSTEM HANDBOXES AND SIGNAL CABINET. NOTE THAT THIS WORK SHALL BE INCIDENTAL TO THE "REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT" ITEM.

CONTACTS

DISTRICT (THREE)

MR. JEFFREY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7318

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

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

MR. AUGIE REBISH
UTILITY ENGINEER
301-513-7350

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7650

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

MONTGOMERY COUNTY

MR. KEITH LORD
301-279-1971

MR. KAMAL HAMUD
TRAFFIC ENGINEER - MCTMC
240-777-8761

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CAT CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: SHIELD ASSEMBLY (30"x51") SHIELD ASSEMBLY (48"x75")	SF EA EA	35.6 1 1

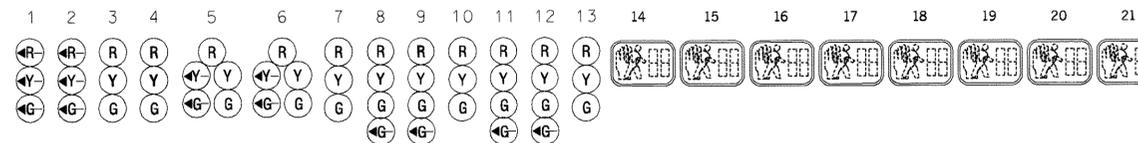
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CAT CODE	UNITS	QUANTITY	DESCRIPTION
585621	LF	920	12 INCH WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING
585625	LF	220	24 INCH WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING
800000	LS	1	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT
801106	LF	117	WOOD SIGN SUPPORT 4 INCH X 6 INCH
813014	SF	86	INSTALL GROUND MOUNTED SIGN
860284	EA	47	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

NOTE:

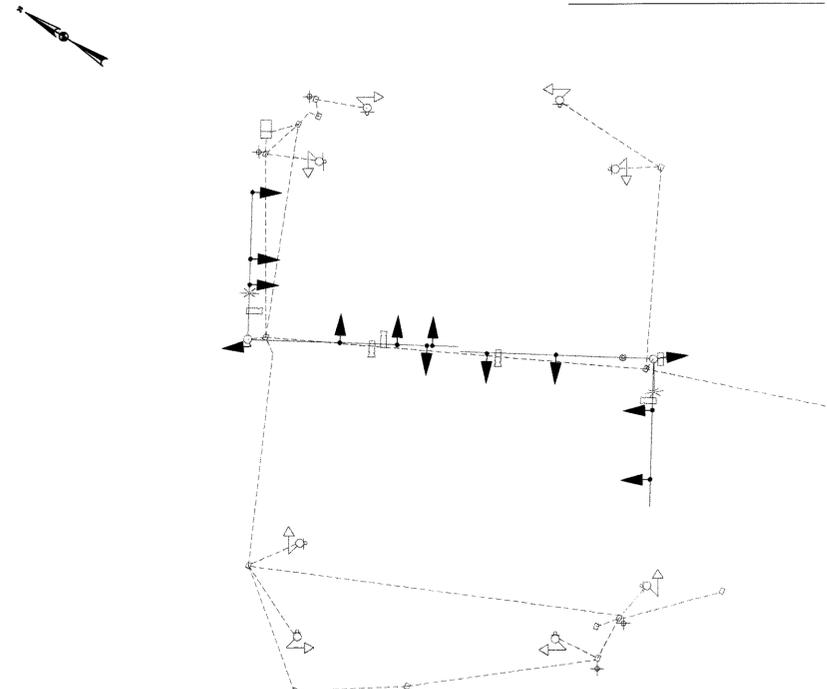
THE CONTRACTOR SHALL CONTACT KEITH LORD AT MONTGOMERY COUNTY SIGNAL SHOP 48 HOURS IN ADVANCE TO LOCATE ALL EXISTING SIGNAL EQUIPMENT.

PHASE CHART



PHASE 1 AND 5	← G	← G	R	R	←GR	←GR	R	R	R	R	R	R	R	R	DW							
1 AND 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6																					
PHASE 1 AND 6	← G	← G	G	G	R	R	R	R	R	R	R	R	R	R	DW							
1 AND 6 CHANGE	← Y	← Y	G	G	R	R	R	R	R	R	R	R	R	R	DW							
PHASE 2 AND 5	← R	← R	R	R	←GG	←GG	G	R	R	R	R	R	R	R	DW							
2 AND 5 CHANGE	← R	← R	R	R	←YG	←YG	G	R	R	R	R	R	R	R	DW							
PHASE 2 AND 6	← R	← R	G	G	G	G	G	R	R	R	R	R	R	R	W	W	W	W	DW	DW	DW	DW
PED CLEARANCE	← R	← R	G	G	G	G	G	R	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW	DW	DW
2 AND 6 CHANGE	← R	← R	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	DW							
PHASE 3	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW							
3 CHANGE	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW							
PHASE 3 ALT.	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW	DW	DW	DW	DW	W	W	DW
PED CLEARANCE	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW	DW	DW	DW	DW	FLDW	FLDW	DW
3 ALT. CHANGE	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW							
PHASE 4	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW							
4 CHANGE	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW							
PHASE 4 ALT.	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW	DW	DW	DW	W	DW	DW	W
PED. CLEARANCE	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW	DW	DW	DW	FLDW	DW	DW	FLDW
4 ALT. CHANGE	← R	← R	R	R	R	R	R	←G	←G	G	R	R	R	R	DW							
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	DARK													

WIRING DIAGRAM



ALL SIGNAL HEADS SHALL BE WIRED USING EXISTING SIGNAL CABLES.

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

MD 97 (GEORGIA AVENUE)
AND MD 185 (CONNECTICUT)
MONTGOMERY, MARYLAND

GENERAL INFORMATION PLAN

SCALE NOT TO SCALE DATE JANUARY 2009 CONTRACT NO. MO 5755186

DESIGNED BY J. PALADJUGU COUNTY MONTGOMERY
DRAWN BY J. PALADJUGU LOGMILE 15009707.00
CHECKED BY K. RINKER T.M.S. NO. J203
F.A.P. NO. TOD NO.

TS NO. 311 DRAWING pSG OF N001 SHEET NO. 34B OF 56F

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