

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNALS AT THE INTERSECTIONS OF MD 201 (KENILWORTH AVENUE) AND LAWRENCE STREET AND MD 201 (KENILWORTH AVENUE) AND LLOYD STREET IN PRINCE GEORGE'S COUNTY, MARYLAND. MD 201 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

MD 201 & LAWRENCE STREET

THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 201 APPROACHES OPERATING CONCURRENTLY AND THE LAWRENCE STREET APPROACHES OPERATING CONCURRENTLY.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF MD 201 AND PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS THE EAST LEG OF LAWRENCE STREET.

MD 201 & LLOYD STREET

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 201 (KENILWORTH AVENUE) AND LAWRENCE STREET - NORTH LEG

STREETS AT 90 DEGREES

- WAIT: "WAIT TO CROSS KENILWORTH AT LAWRENCE, WAIT." *
- WALK: RAPID TICK

LAWRENCE STREET AND MD 201 (KENILWORTH AVENUE) - EAST LEG

INTERSECTION WITH ANGLED CROSSING

- WAIT: "WAIT TO CROSS LAWRENCE AT KENILWORTH, CROSSWALK ANGLES LEFT, WAIT." **
- WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
 ** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

MD 201 & LAWRENCE STREET

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

MD 201 & LLOYD STREET

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

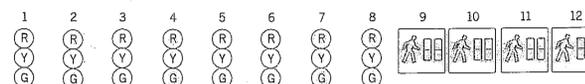
MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

- STANDARD NO. MD-104.04-01 (SHOULDER WORK)
- STANDARD NO. MD-104.02-09 (FLAGGING OPERATION)
- STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
- STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)
- STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
- STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)

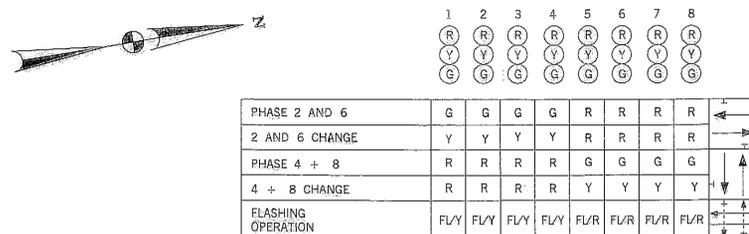
PHASE CHART

MD 201 & LAWRENCE STREET



PHASE 2 + 6	G	G	G	G	R	R	R	R	WK	WK	DW	DW
PED. CLEARANCE	G	G	G	G	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	G	G	G	G	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	G	G	G	G	DW	DW	WK	WK
PED. CLEARANCE	R	R	R	R	G	G	G	G	DW	DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK

MD 201 & LLOYD STREET



PHASE 2 AND 6	G	G	G	G	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R
PHASE 4 + 8	R	R	R	R	G	G	G	G
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. FELECIA MURPHY
 PHONE: (301) 513-7318
 ASSISTANT DISTRICT ENGINEER - TRAFFIC
 PRINCE GEORGES COUNTY

MR. AUGIE REBISH
 DISTRICT UTILITY ENGINEER
 PHONE: (301) 513-7350

MR. VERNON STINNETT
 ASSISTANT DISTRICT ENGINEER - MAINTENANCE
 PHONE: (301) 513-7305

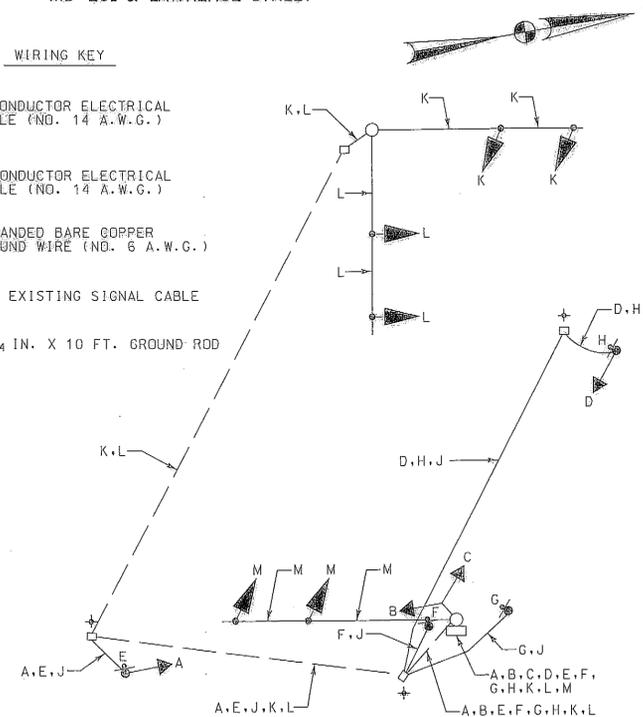
MR. RICHARD L. DAFF, SR.
 CHIEF, TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7630

WIRING DIAGRAM

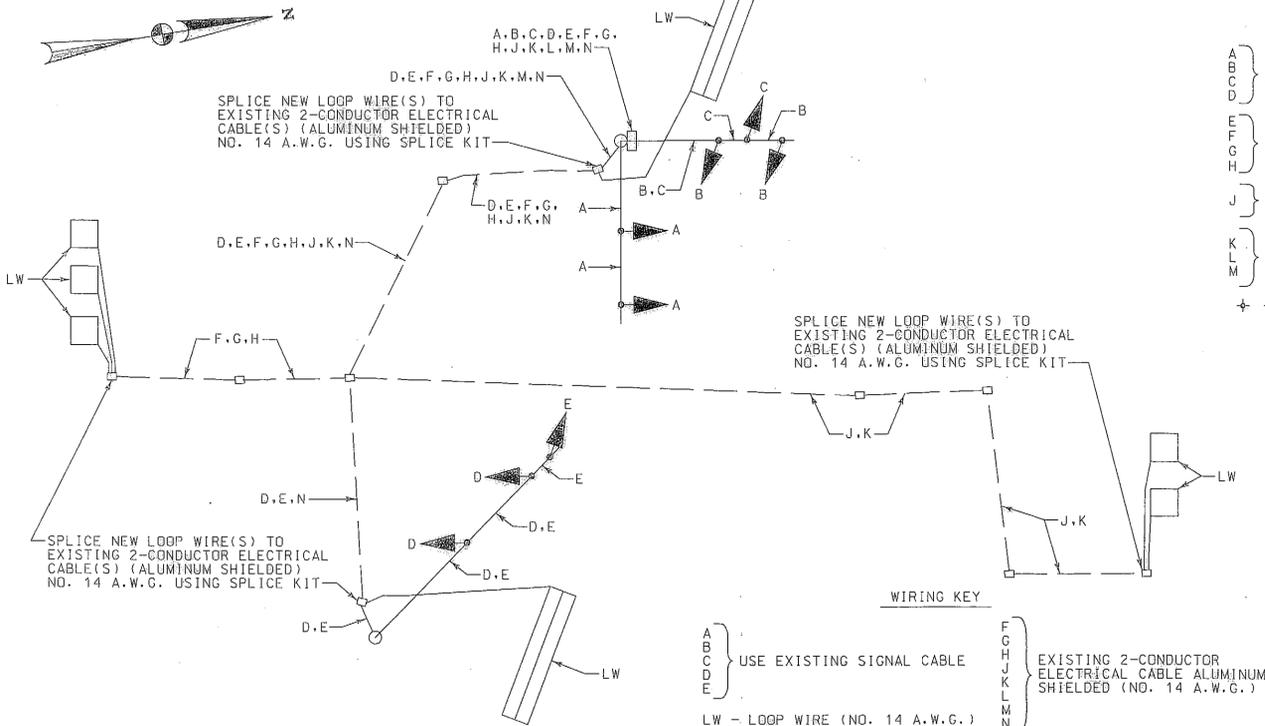
MD 201 & LAWRENCE STREET

WIRING KEY

- A, B, C, D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E, F, G, H } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- K, L, M } USE EXISTING SIGNAL CABLE
- + } 3/4 IN. X 10 FT. GROUND ROD



MD 201 & LLOYD STREET



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODES	QUANTITY	DESCRIPTION
973023	4 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) :
	- 2 EACH	R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS KENILWORTH AVENUE"
	- 2 EACH	R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS LAWRENCE STREET"

EQUIPMENT LIST "B"

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

CATEGORY CODES	QUANTITY	DESCRIPTION
120500	1 EACH	MAINTENANCE OF TRAFFIC
203030	2 C.Y.	TEST PIT EXCAVATION
585621	135 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	125 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585700	10 L.F.	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
801004	2 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	295 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	85 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	25 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805155	110 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805160	40 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
813015	4 S.F.	INSTALL OVERHEAD SIGN
818004	4 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
837001	3 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	42 EACH	12 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860290	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	465 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	365 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
862101	1710 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	490 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	4 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	4 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1 EACH	2 WIRE CENTRAL CONTROL UNIT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 201 (Kenilworth Avenue) Signals
 Bladensburg, Maryland

GENERAL INFORMATION SHEET

SCALE	NONE	ADVERTISED DATE	4/13/2011	CONTRACT NO.	PG8275177
DESIGNED BY	S. Bloss	COUNTY	Prince George's		
DRAWN BY	S. Bloss	LOGMILE			
CHECKED BY	N. Leary	TMS NO.	K259		
F.A.P. NO.		TOD NO.			
TS NO.		DRAWING	TSP-3	OF	3
		SHEET NO.			3 OF 3



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