PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING PEDESTRIAN ACTUATED HAZARD IDENTIFICATION BEACON TO A FULL TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 547 (STRATHMORE AVENUE) AND KENILWORTH AVENUE IN MONTGOMERY COUNTY. MARYLAND. MD 547 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE. FULL-TRAFFIC-ACTUATED MODE WITH THE MD 547 APPROACHES OPERATING CONCURRENTLY AND THE KENILWORTH AVENUE APPROACHES OPERATING CONCURRENTLY.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS BOTH LEGS OF KENILWORTH AVENUE AND ACROSS THE WEST LEG OF MD 547.

CONTROLLER REQUIREMENTS

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 MAYBE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-10 (FLAGGING OPERATION)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JEFF WENTZ, MONTGOMERY
PHONE: (301) 513-7318
ASSISTANT DISTRICT ENGINEER - TRAFFIC

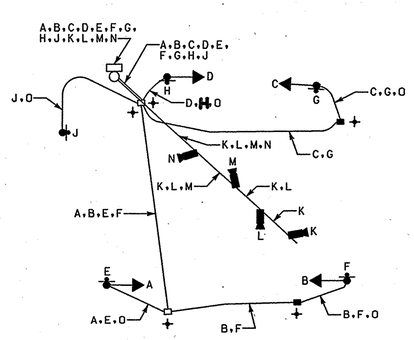
MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7305

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

MR. KAMAL HAMUD
MONTGOMERY COUNTY TMC
PHONE: (240) 777-8761

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

WIRING DIAGRAM



WIRING KEY

A B C D	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E F G H J	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
K L M N	VIDEO CAMERA DETECTION LEAD-IN CABLE
O	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

+ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	26 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 4 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 STRATHMORE AVENUE"
	- 2 EACH	R10-11b SIGN (24 IN. x 24 IN.) - MAST ARM MOUNT
	- 2 EACH	R3-2 SIGN (24 IN. x 24 IN.) - MAST ARM MOUNT
	- 2 EACH	"7 AM-7 PM" SIGN (24 IN. x 8 IN.) - MAST ARM MOUNT

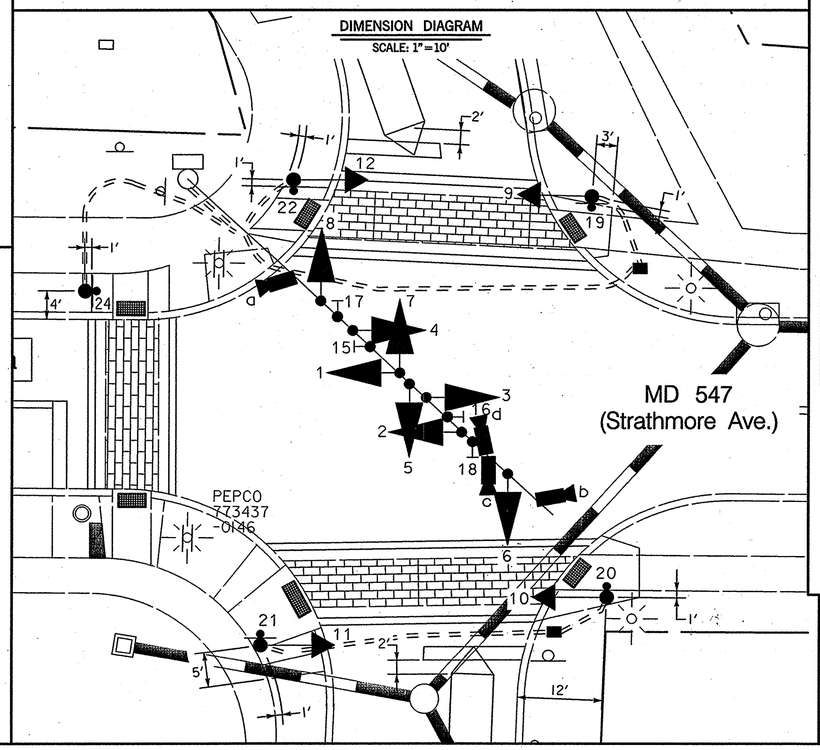
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

DIMENSION DIAGRAM

SCALE: 1"=10'

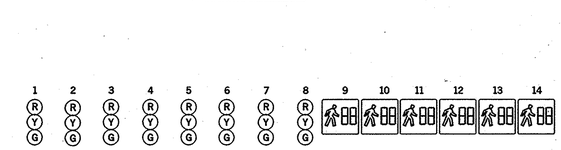


EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	5 C.Y.	TEST PIT EXCAVATION
6002	130 S.F.	4 INCH CONCRETE SIDEWALK
8001	24 EACH	12 INCH (R,Y,G) LED SIGNAL HEAD SECTION
8004	1 EACH	3/4 INCH TO 3 INCH BLIND COUPLING FOR TRAFFIC SIGNAL STRUCT. WELDED & GALV
8010	5 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8011	5 EACH	BREAKWAY PEDESTAL POLE (ANY SIZE)
8014	4 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL
8017	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8025	85 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8026	100 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	5 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8033	115 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8044	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8046	26 S.F.	INSTALL OVERHEAD SIGN
8047	4 EACH	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT.
8052	5 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8056	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8058	550 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
8060	485 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)

PHASE CHART



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

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 547 (Strathmore Avenue) and
Kenilworth Avenue

WR&A

Whitman, Requardt and Associates, LLP
Engineers, Architects and Planners

801 South Caroline Street
Baltimore, Maryland 21231
410-235-3450

GENERAL INFORMATION SHEET

SCALE NONE DATE 3/6/2007 CONTRACT NO. AT9255185

DESIGNED BY S. Bloss COUNTY Montgomery
DRAWN BY S. Bloss LOGMILE 15054700.67
CHECKED BY N. Leary TIMS NO. 1420
FAP NO. TOD NO.

TS NO. 3723D | DRAWING - OF | SHEET NO. 2 OF 2

PLOTTED: Thursday, March 08, 2007 AT 02:22 PM
FILE: n:\31555-102\cadd\pSG-N002_md547.dgn

BY: sbloss