

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF U.S. 29 AND SOUTHWOOD AVENUE IN MONTGOMERY COUNTY. L.E.D. COUNTDOWN PEDESTRIAN SIGNALS, VIDEO DETECTION CAMERAS, AND APS PEDESTRIAN PUSHBUTTONS AND SIGNS WILL BE INSTALLED AT THIS LOCATION. IT IS ASSUMED THAT U.S. 29 RUNS IN A NORTH-SOUTH DIRECTION.

NO PHASE CHANGE

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND U.S. 29, AN ALTERNATE PEDESTRIAN PHASE FOR CROSSING THE SOUTH LEG OF THE INTERSECTION AND A CONCURRENT PEDESTRIAN PHASE FOR CROSSING THE WEST LEG OF THE INTERSECTION.

CONTROLLER REQUIRMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. INSTALLATION OF THE VIDEO DETECTION INTERFACE EQUIPMENT AND RETROFITTING OF THE DETECTOR RACK WILL BE PERFORMED BY MONTGOMERY COUNTY. AN APS CENTRAL CONTROL UNIT WILL BE INSTALLED BY THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. JEFF WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 513-7316

MR. KEVIN NOWAK
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
(301) 513-7385

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

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

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

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

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
(410) 787-7630

MS. DARLENE EIDE
SIGNAL SHOP WAREHOUSE
(410) 787-7696

MR. ROBERT SNYDER
ASSISTANT DIVISION, CHIEF
TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY,
CHIEF, SIGN OPERATIONS
(410) 787-7676

CONTACT PERSONS FOR MONTGOMERY COUNTY ARE AS FOLLOWS:

MR. KAMAL HAMUD
MONTGOMERY COUNTY DPW&T
(240) 777-8761

MR. KEITH LORD
MONTGOMERY COUNTY DPW&T
301-279-1291

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA/MONT. CO.

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
900000	VIDEO INTERFACE EQUIPMENT 1-4 CAMERAS	EA	1
900000	DETECTION RACK RETROFIT	EA	1
973023	SHEET ALUMINUM SIGNS	SF	36
	4 EACH W11-2 (30" X 30") FY GROUND MOUNT		
	2 EACH W16-7P (L) (24" X 12") FY GROUND MOUNT		
	2 EACH W16-7P (R) (24" X 12") FY GROUND MOUNT		
	2 EACH R10-4(1) (9" X 12") "COLESVILLE ROAD" POLE MOUNT		
	2 EACH R10-4(1) (9" X 12") "SOUTHWOOD AVE" POLE MOUNT		

EQUIPMENT LIST "B"

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

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
655104	4 INCH CONCRETE SIDEWALK	SF	25
800000	FURNISH AND INSTALL APS PUSHBUTTON & ASSY.	EA	4
800000	16 INCH LED COUNTDOWN SIGNAL HEAD	EA	4
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	*
800000	FURNISH AND DELIVER APS CENTRAL CONTROL UNIT	EA	1
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	1
801104	WOOD SIGN SUPPORTS 4 INCH X 4 INCH	LF	37
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	45
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	40
813014	INSTALL GROUND MOUNTED SIGN	SF	33
813015	INSTALL OVERHEAD SIGN	SF	3
816001	VIDEO DETECTION CAMERA	EA	3
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	3
818004	10 FOOT BREAKAWAY PEDESTAL POLE	EA	1
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	465
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	680

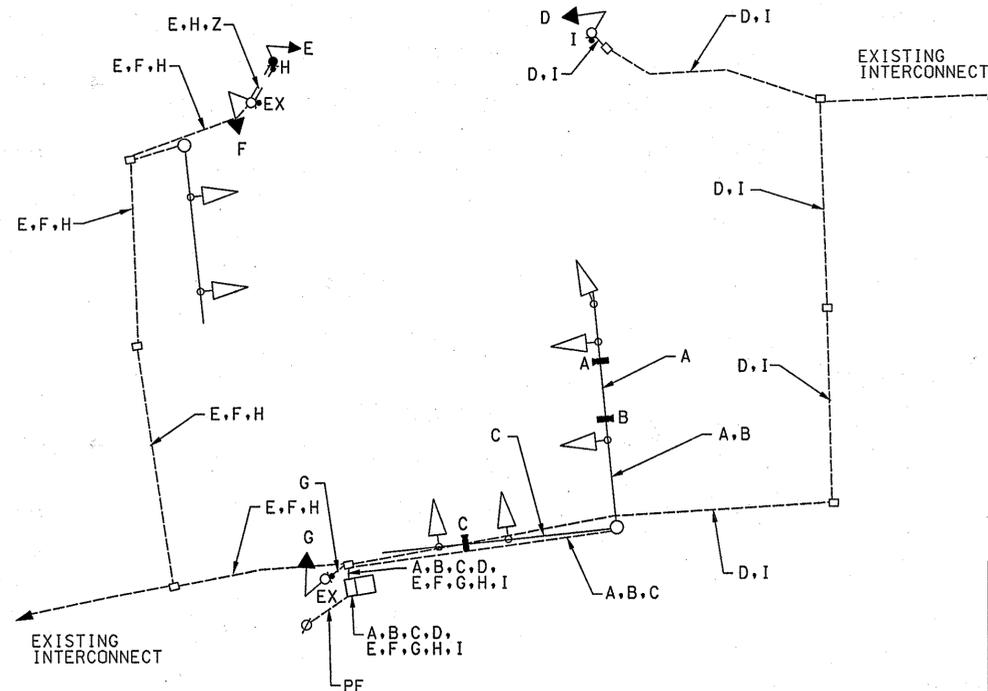
* - REMOVE AND DISPOSE QUANTITIES ARE SHOWN ON THE LAST GI SHEET

EQUIPMENT LIST "C"

C. EXISTING LOOP DETECTOR AMPLIFIERS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO MONTGOMERY COUNTY.

ALL OTHER UNUSED EQUIPMENT AND MATERIAL REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



WIRING KEY	
A,B,C	CONTROL CABLE 250 FT. LENGTH
H,I	ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)
D,E,F,G	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EX	USE EXISTING CABLE
PF	EXISTING POWER FEED

BY: \$USER\$

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
U.S. 29 (COLESVILLE RD) AND SOUTHWOOD AVENUE

GENERAL INFORMATION SHEET

SCALE NONE DATE 2/2006 CONTRACT NO. M03755177

DESIGNED BY TC/MRB COUNTY MONTGOMERY
DRAWN BY TC/MRB LOGMILE 15002903.16
CHECKED BY DAE TMS NO. H053
FAP NO. TOD NO. M578509385

TS NO. 2188C-01 DRAWING - OF SHEET NO. 4 OF 10

ADDENDUM NO. 1
NEW SHEET

RK & K
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE: (410) 728-2900 FAX: (410) 383-3270

PLOTTED: \$DATE\$
FILE: \$FILE\$