

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF U.S. 29 AND MD 193 (UNIVERSITY BLVD.) IN MONTGOMERY COUNTY. 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.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH A PERMISSIVE TURN PHASE FOR WESTBOUND MD 193, ALTERNATE PEDESTRIAN PHASES FOR CROSSING THE NORTH AND SOUTH LEGS OF THE INTERSECTION, AND CONCURRENT PEDESTRIAN PHASES FOR CROSSING THE EAST AND WEST LEGS 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:

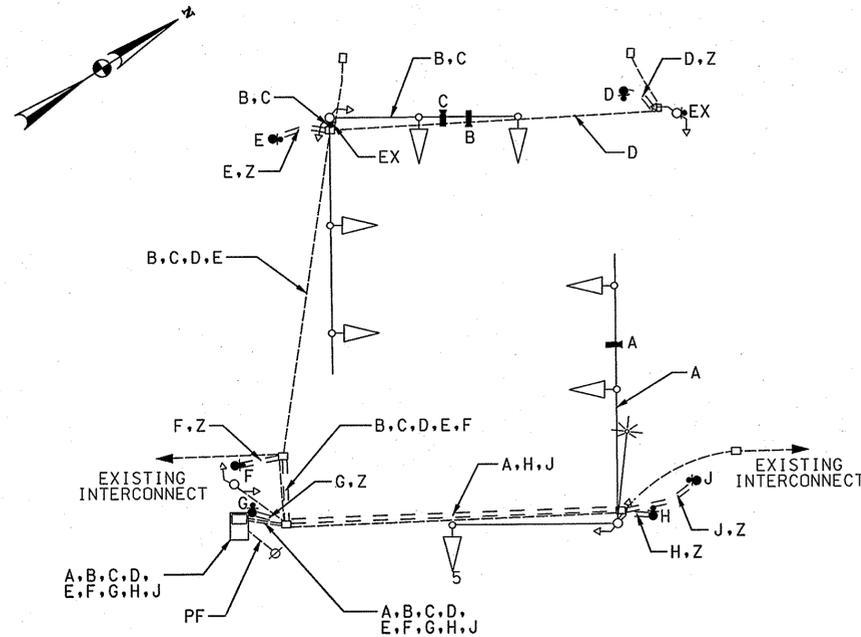
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|--|--|---|
| MR. RICHARD DAFF, SR.
CHIEF TRAFFIC OPERATIONS
(410) 787-7630 | MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
(410)787-7630 | MS. DARLENE EIDE
SIGNAL SHOP WAREHOUSE
(410) 787-7696 |
| MR. ROBERT SNYDER
ASSISTANT DIVISION, CHIEF
TRAFFIC OPERATIONS
(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 |
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NO PHASE CHANGE

WIRING DIAGRAM



WIRING KEY	
A,B,C	CONTROL CABLE 250 FT. LENGTH
D,E,F, G,H,J	ELECTRICAL CABLE 2-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

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	89
	8 EACH S1-1 (30" X 30") FYG GROUND MOUNT		
	2 EACH S1-1 (30" X 30") FYG SIGNAL POLE MOUNT		
	3 EACH W16-7P (L) (24" X 12") FYG GROUND MOUNT		
	5 EACH W16-7P (R) (24" X 12") FYG GROUND MOUNT		
	2 EACH W16-7P (L) (24" X 12") FYG SIGNAL POLE MOUNT		
	4 EACH R10-4(1) (9" X 12") "Colesville Road" - POLE MOUNT		
	4 EACH R10-4(1) (9" X 12") "University Blvd West" - 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	6
800000	F&I APS PUSHBUTTON AND ASSY.	EA	8
800000	FURNISH & DELIVER APS CENTRAL CONTROL UNIT	EA	1
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	*
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	6
801104	WOOD SIGN SUPPORTS 4 INCH X 4 INCH	LF	100
802145	ADJUST EXISTING HANDHOLE	EA	2
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	80
805105	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	75
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	90
813014	INSTALL GROUND MOUNTED SIGN	SF	66
813015	INSTALL OVERHEAD SIGN	SF	23
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	6
860292	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	6
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	775

* - 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.

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

**U.S. 29 (COLESVILLE RD) AND
MD 193 (UNIVERSITY BLVD WEST)**

GENERAL INFORMATION SHEET

SCALE 1" = 20'	DATE 02/2006	CONTRACT NO. M03755177
DESIGNED BY TC/MRB	COUNTY MONTGOMERY	
DRAWN BY TC/MRB	LOGMILE 10552902.72	
CHECKED BY DAE	TIMS NO. H053	
FAP NO.	TOD NO. M45502370	
TS NO. 487E-03	DRAWING - OF	SHEET NO. 2 OF 10

ADDENDUM NO. 1
NEW SHEET



**RUMMEL, KLEPPER
& KAHL, LLP**
CONSULTING ENGINEERS

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PLOTTED: \$DATE/TIME\$
FILE: \$FILES\$

BY: \$USER/NAME\$