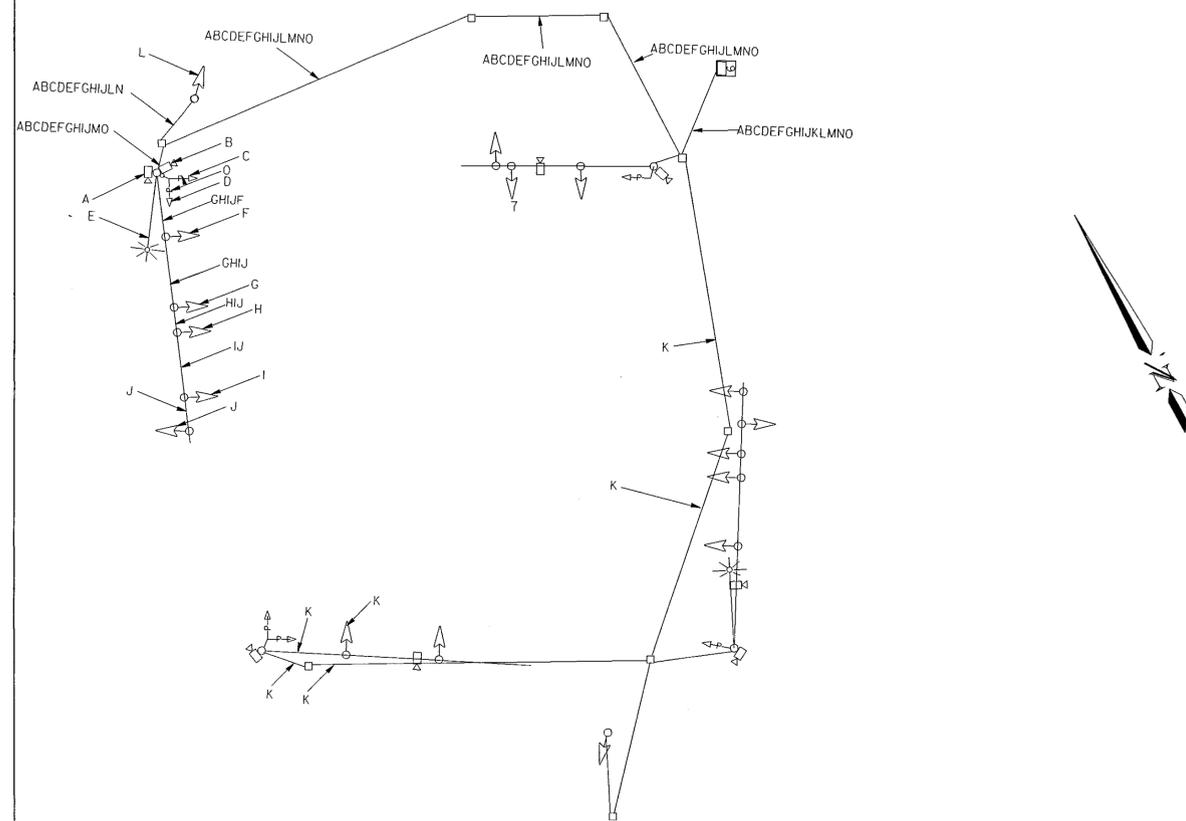


WIRING KEY

- A } 2-CONDUCTOR #12 CABLE FOR OVERHEAD LIGHTING
- B } 5-CONDUCTOR ELECTRICAL CABLE FOR PEDESTRIAN HEADS 24 & 25 (NO. 14 A.W.G.)
- C }
- D } USE EXISTING VIDEO DETECTOR WIRES FOR DETECTORS 32 & 33
- E }
- F } 7-CONDUCTOR ELECTRICAL CABLE (SIGNAL HEADS 4,5,6,11,12,18,36) (NO. 14 A.W.G.)
- G }
- H }
- I }
- J }
- K }
- L }
- M } GROUND WIRE
- N }
- O } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- P }
- Q } 3/4 IN. 10 FT. GROUND ROD (PUSH BUTTONS FOR PED HEADS 24 & 25)

MODIFIED SIGNAL WIRING DIAGRAM ONLY



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

QUANTITY	STANDARD NO.	DESCRIPTION
1 EACH	-	MAINTENANCE OF TRAFFIC
3 C.Y.	-	TEST PIT EXCAVATION
150 LF	MD 104.00-10	12 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
30 LF	MD 104.00-10	24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
3 C.Y.	MD 801.01	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
135 LF	MD 805.01	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
2 EACH	MD 811.03	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1 EACH	MD 804.01	FURNISH AND INSTALL GROUND ROD- 3/4 IN. DIAMETER X 10 FT. LENGTH
150 LF	MD 805.02	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
500 LF	MD 805.02	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
500 LF	MD 805.02	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
2 EACH	MD 814.01	FURNISH AND INSTALL 12 IN. . RIGHT TURN, FIVE-SECTION (R,Y,G,Y-ARROW,G-ARROW) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS
3 EACH	MD 814.01	FURNISH AND INSTALL 12 IN. . THREE-SECTION (R,Y,G) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS
2 EACH	MD 814.01	FURNISH AND INSTALL 12 IN. . LEFT TURN, THREE-SECTION (R ARROW,Y ARROW,G ARROW) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS
-	-	FURNISH AND INSTALL SHEET ALUMINUM SIGNS TO CONSISTS OF: - 1 EACH R3-5R SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT
2 EACH	-	RELOCATED EXISTING VIDEO CAMERAS INCLUDING ALL EXISTING WIRES
7 TOTAL	-	SIGNS TO BE RELOCATED:40,41,46,50,51,55,856 SHEET ALUMINUM SIGNS TO CONSISTS OF: R3-5L, 2 -SHIELD ASSEMBLY'S, R10-4(1),D3-2
450 LF	#6	BAR COPPER GROUND WIRE CABLE -

NOTE: TRAFFIC SIGNAL LOCATED ALONG THE NORTHWEST CORNER OF THE INTERSECTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSED OFF.

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC POLE LOCATED ALONG THE NORTHWEST CORNER OF THE INTERSECTION WITH STREET LIGHTING IN MONTGOMERY COUNTY, MARYLAND. IN ADDITION, A FIVE SECTION, OVERLAPPING, SIGNAL WILL BE INSTALLED ALONG THE SOUTHBOUND APPROACH TO MD 28

CALL MONTGOMERY COUNTY'S TRANSPORTATION MANAGEMENT SECTION (TMC) AT 240-777-2100 TO MARK ANY EXISTING UNDERGROUND SIGNAL EQUIPMENT.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE WITH A EIGHT-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THE MD 28 APPROACHES WILL OPERATE WITH LEAD LEFT TURNS, LEAD EAST AND WESTBOUND APPROACHES, AND CONCURRENTLY ALONG BOTH APPROACHES. MUDDY BRANCH WILL OPERATE WITH LEAD LEFT TURNS, LEAD NORTHBOUND AND SOUTHBOUND APPROACHES, AND CONCURRENTLY ALONG BOTH APPROACHES. THE SIGNAL WILL CONTINUE TO OPERATE AS IT IS TODAY WITH THE ADDITION OF AN OVERLAPPING SOUTHBOUND RIGHT TURN PHASE.

CONTROLLER REQUIREMENTS

THE CONTROLLER WILL REMAIN AS IT IS TODAY UNDER EXISTING CONDITIONS.

SPECIAL NOTES

CONTRACTOR WILL FURNISH AND INSTALL ALL EQUIPMENT IN ACCORDANCE TO SHA REQUIREMENTS.

SIGNAL HEADS	PHASE														FLASHING	
	PHASE															
	1	2	4	5	6	7	8	1-5	1-6	2-5	2-6	4-7	4-8			
R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W				
1	G															RED
2		G														RED
3																RED
4																RED
5																RED
6																RED
7																RED
8																RED
9																RED
11																RED
12																RED
15																RED
16																RED
17																RED
18																RED
19																RED
36																RED

NOTE: BLANK SPACES IN PHASING CHART DENOTES A RED INDICATION FOR THE SIGNAL HEADS

NOTE: UTILIZE EXISTING PHASING CHART CREATED BY KCI WITH THE ADDITION OF SOUTHBOUND RIGHT TURN OVERLAP

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
 NORTHWEST SIGNAL POLE MODIFICATION
 MD 28 (DARNESTOWN RD) AND MUDDY BRANCH ROAD

DRAWN BY: C.A.B	F.A.P. NO. BW996M82	T.S. NO. 1915 D
CHECKED BY: C.M.T	S.H.A. NO. MONTGOMERY COUNTY	T.I.M.S. NO. F 483
SCALE: 1" = 20'	LOG MILE: 15002817.77	SHEET NO. 2 OF 2
DATE: 07-11-03		