PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF AN EXISTING HAZARD IDENTIFICATION BEACON (HIB) LOCATED APPROXIMATELY 1500' NORTH OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 5 (BRANCH AVE.) AND BEECH ROAD/ OXFORD DRIVE IN PRINCE GEORGE'S COUNTY. INSTALLATION OF A STREET LIGHTING ARM AND LUMINAIRE, AND INSTALLATION OF VIDEO DETECTION. MD 5 IS ASSUMED TO TRAVEL IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE HIB WILL BE RECONFIGURED TO INTERFACE WITH THE TRAFFIC SIGNAL AND WILL FLASH ONLY WHEN THE TRAFFIC SIGNAL AT BEECH ROAD/OXFORD DRIVE DISPLAYS A RED INDICATION.

III. SPECIAL NOTES:

1. THE CONTRACTOR SHALL CONTACT: MR. ED RODENHIZER, SIGNAL SHOP AT 410-789-7650 FOR THE MODIFICATION TO THE CONTROLLER CABINETS AND SIGNAL EQUIPMENT. A THREE DAY NOTICE IS REQUIRED FOR COORDINATION OF STAFF.
2. COORDINATION WITH PEPCO IS REQUIRED FOR THE NEW SERVICE FEED.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER
TRAFFIC - 301-513-7358

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

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER
UTILITIES - 410-321-2841

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

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

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

MR. ED RODENHIZER
TEAM LEADER - SIGNAL OPERATIONS
410-787-7650

EQUIPMENT LIST "A"

A. NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9021	1 EA	50 FOOT MAST ARM SINGLE x 21'-0" POLE
9075	1 EA	CABINET "G" TYPE POLE MOUNT
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	50 S.F.	SHEET ALUMINUM FOR MAST ARM MOUNTED SIGN. TO CONSIST OF: 1 EACH W3-3(2) (120 INCH X 60 INCH) MAST ARM MOUNT

EQUIPMENT LIST "C"

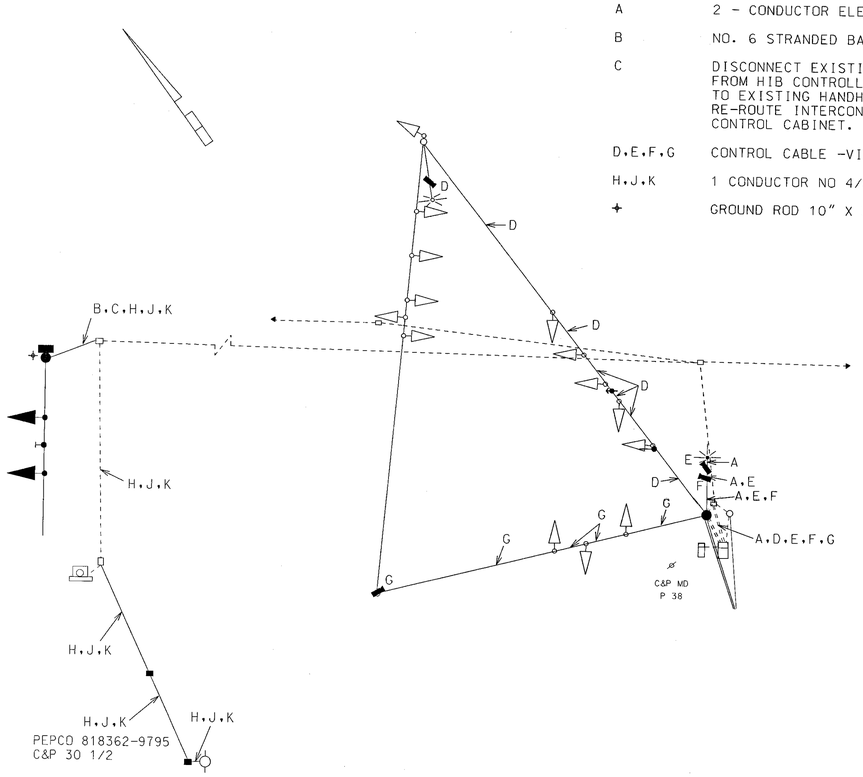
ALL MATERIAL AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY		DESCRIPTION
1001	3	EA	MAINTENANCE OF TRAFFIC
2002	1	CY	TEST PIT EXCAVATION
5004	240	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8003	1	EA	15 FOOT LIGHTING ARM ON EXISITNG POLE
8013	1	EA	REMOVE AND DISPOSE OF EQUIPMENT
8015	1	EA	REMOVE FOUNDATION 12 INCH DEPTH
8019	80	LF	DISCONNECT, PULL-BACK AND REROUTE CABLE
8020	60	LF	ELECRICAL CABLE-2 CONDUCTOR (12 AWG) T/C
8024	5	CY	CONCRETE FOR SIGNAL FOUNDATION
8026	25	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8031	30	LF	4 INCH SCHEDULE 80 RIDGID PVC CONDUIT- BORED
8032	70	LF	3 INCH SCHEDULE 80 RIDGID PVC CONDUIT- TRENCHED
8038	1	EA	ELECTRICAL UTILITY SERVICE EQUIPMENT
8045	2	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8047	50	SF	INSTALL OVERHEAD SIGN
8048	4	EA	VIDEO DETECTION CAMERA
8049	4	EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8052	1	EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8053	1	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8056	2	EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8057	1	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8065	1	EA	INSTALL STEEL POLE AND SINGLE MAST ARM, ANY SIZE
8070	1	EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
NEG	225	LF	TRAFFIC BARRIER 'W' BEAM
NEG	1	EA	TYPE C TRAFFIC BARRIER END TREATMENT
NEG	1	EA	TYPE I TRAFFIC BARRIER END TREATMENT
NEG	450	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4/O AWG

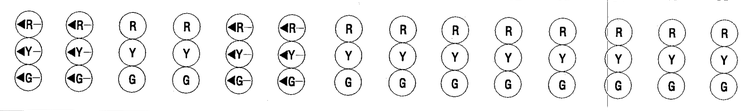
WIRING DIAGRAM



WIRING KEY

A	2 - CONDUCTOR ELECTRIC CABLE TYPE T/C (NO. 12 AWG)
B	NO. 6 STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
C	DISCONNECT EXISTING INTERCONNENCT CABLE FROM HIB CONTROLLER. LABEL AND PULL BACK TO EXISTING HANDHOLE. ABANDON POWER CABLE. RE-ROUTE INTERCONNECT CABLE TO NEW HIB CONTROL CABINET.
D,E,F,G	CONTROL CABLE -VIDEO DETECTION CAMERA TO CONTROLLER
H,J,K	1 CONDUCTOR NO 4/O AWG
+	GROUND ROD 10" X 3/4"

EXISTING PHASING



Phase 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6														
Phase 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	
1 & 6 Change	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	
Phase 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	
2 & 5 Change	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	
Phase 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	
2 & 6 Change	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	
Phase 4 & 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	
4 & 8 Change	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	
FIRE PRE-EMPTION	R	R	R	R	G	G	G	G	R	R	R	R	R	R	
CLEARANCE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	
NORMAL OPERATION 2&6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	
Flashing Operation	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

REVISION F CONSULTANT

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CIVIL AND STRUCTURAL ENGINEERS
110 West Road
Suite 300
Towson, Maryland 21204

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

MD 5 (BRANCH AVE.) AT BEECH ROAD

SHA#: PG662A65/066 TOD#: AT582-22

DRAWN BY: D. DODA	F.A.P. NO. N/A		I.S. NO. 565 F	SHEET NO.	
CHECKED BY: WILLIAM FITCH	S.H.A. NO.				
SCALE: 1" = 20'	COUNTY: PRINCE GEORGE'S		T.I.M.S. NO. G 642	2 OF 2	
DATE: 11/8/1972	LOG MILE: 16000512.63				

$TIME$
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