

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT NORTHBOUND US 1 & BOWIE ROAD IN PRINCE GEORGE'S COUNTY. THE MODIFICATIONS CONSIST OF INSTALLING NEW LOOP DETECTORS ON THE WEST AND EAST LEGS OF THE INTERSECTION DUE TO NEW GEOMETRICS AND PAVEMENT MARKINGS ALONG US ROUTE 1.

INTERSECTION OPERATION

THIS INTERSECTION OPERATES IN A NEMA THREE PHASE, SEMI-TRAFFIC-ACTUATED MODE, WITH THE NORTHBOUND US 1 MOVEMENTS AND THE EASTBOUND MOVEMENTS OPERATING AS SEPARATE PHASES. A PEDESTRIAN PHASE IS PROVIDED ALONG THE SOUTH LEG OF THE INTERSECTION THERE IS ALSO A SIGNAL PRE-EMPTION PROVIDED FOR WESTBOUND BOWIE ROAD.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: (301)-513-7300

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

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301)-513-7358

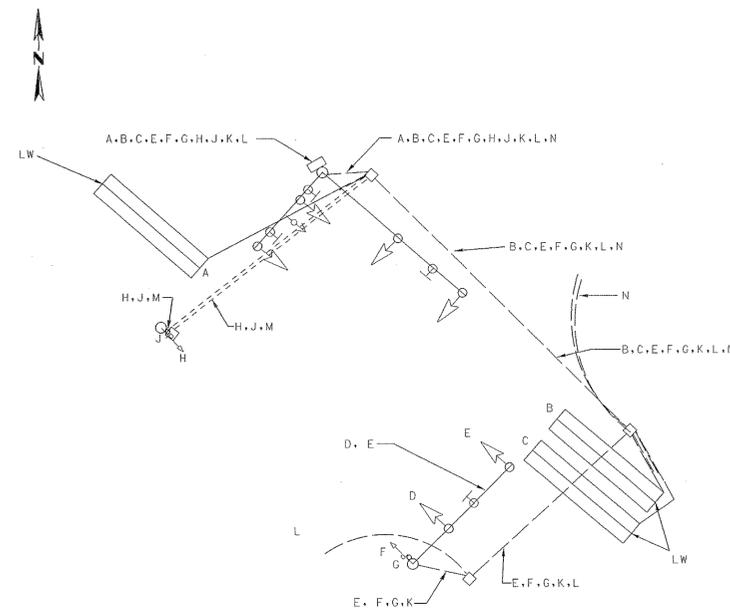
MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301)-513-7304

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
585620	120 L.F.	FURNISH AND INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585624	100 L.F.	FURNISH AND INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
802501	250 L.F.	FURNISH AND INSTALL NO 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805150	60 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - SLOTTED
805160	20 L.F.	FURNISH AND INSTALL 1 INCH LIQUID-TIGHT, FLEXIBLE NON-METALLIC CONDUIT DETECTOR SLEEVE
811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
861104	250 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
861105	325 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
861106	325 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
861107	300 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
862101	1500 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING
862102	400 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL
800000	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT

WIRING DIAGRAM



- WIRING LEGEND
- LW - LOOP WIRE (NO. 14 AWG)
 - A,B,C - 2-CONDUCTOR (ALUMINUM SHIELDED) (NO. 14 AWG.)
 - D,E - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
 - F - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
 - G - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
 - K,M - STRANDED BARE COPPER GROUND WIRE
 - L,N - 12-PAIR COMMUNICATION CABLE

PHASE CHART

	1	2	3	4	5	6	7	8	
PHASE 6	G	G	R	R	R	R	D	W	→
6 CHANGE	Y	Y	R	R	R	R	D	W	→
PHASE 4 & 8	R	R	G	G	G	G	D	W	↕
4 & 8 CHANGE	R	R	Y	Y	Y	Y	D	W	↕
ALT PHASE 4 & 8	R	R	G	G	G	G	W	W	↕
PED CLEAR	R	R	G	G	G	G	FL	FL	↕
ALT 4 & 8 CHANGE	R	R	Y	Y	Y	Y	D	W	↕
PRE-EMPT	R	R	R	R	G	G	D	W	↕
PRE-EMPT CHANGE	R	R	R	R	Y	Y	D	W	↕
FLASHING OPERATION	FL	FL	FL	FL	FL	FL	DARK	DARK	↕

KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS	APPROVALS
(C) NEW GEOMETRICS AND PAVEMENT MARKINGS (M) INSTALLATION OF PEDESTRIAN SIGNS AND PUSH BUTTONS, SOUTH LEG (A) INSTALL PRE-EMPTION ON EAST LEG OF INTERSECTION 3/93	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 OAK STREET TO TALBOTT AVENUE (MD 198)
GENERAL INFORMATION SHEET
NORTHBOUND US 1 @ BOWIE ROAD

DRAWN BY: A. HOTTENSTEIN
 CHECKED BY: PG2745184
 SCALE: NONE
 DATE: 11/99

F.A.P. NO. SEE TITLE SH.
 S.H.A. NO. PG2745184
 COUNTY: PRINCE GEORGE'S
 LOG MILE: 11600013.50

TS NO. 1631C
 T.I.M.S. NO.
 SHEET NO. 122 OF 162