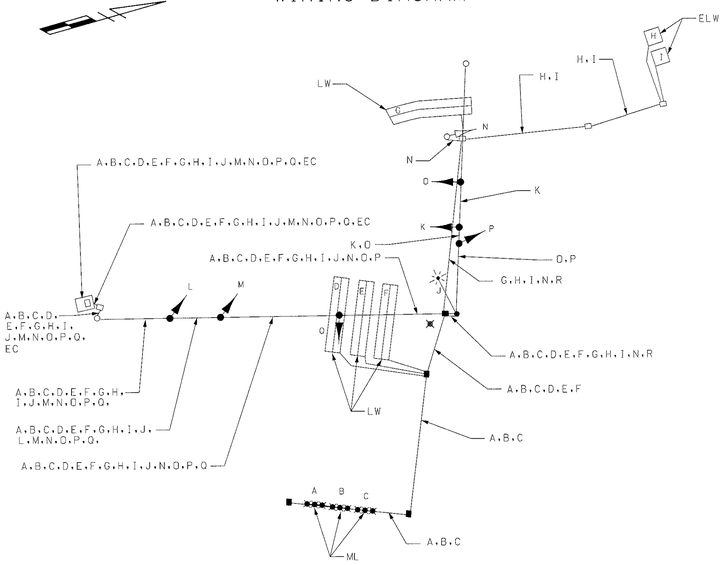
PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 197 AND JERICHO PARK ROAD IN PRINCE GEORGE'S COUNTY. MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE INTERSECTION OPERATION WILL NOT CHANGE.

WIRING DIAGRAM



WIRING KEY

A-C	MICRO-LOOP PROBE
D-I	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
J	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
K-L	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
M-O	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
R	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EC	EXISTING CABLE
LW	LOOP WIRE (NO. 14 A.W.G.)
ELW	EXISTING LOOP WIRE (NO. 14 A.W.G.)
ML	MICRO-LOOP PROBE
	GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 2 & 5	R	R	R	<G—	G	<G—	G	G	<G—	<G—	R	R	R
2 & 5 CHANGE	R	R	R	<Y—	G	<Y—	G	G	<Y—	<Y—	R	R	R
PHASE 2 & 6	G	G	G	<R—	G	<R—	G	G	<R—	<R—	R	R	R
2 & 6 CHANGE	Y	Y	Y	<R—	Y	<R—	Y	Y	<R—	<R—	R	R	R
PHASE 4	R	R	R	<R—	R	<R—	R	R	<R—	<R—	G	G	G
4 CHANGE	R	R	R	<R—	R	<R—	R	R	<R—	<R—	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/R	FL/Y	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. JOE GECKLE
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 513-7350

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

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

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

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

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. DAVID SCHWARTZ
SUPPLY OFFICE IV (SIGNAL SHOP WAREHOUSE)
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "B" CONTINUED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	LS	MAINTENANCE OF TRAFFIC
2002	1 EA	TEST PIT EXCAVATION
5001	4 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW
5005	100 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5006	50 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5008	90 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS
8011	18 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION (POLYCARBONATE)
8012	1 EA	FURNISH AND INSTALL 14 IN. 0+0 GAUGE 32 FT. STRAIN POLE
8013	1 EA	FURNISH AND INSTALL 15 FT. BRACKET ARM FOR SIGNAL STRUCTURE
8014	1 EA	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8044	3 EA	FURNISH AND INSTALL NON-EVASIVE PROBE 500 FT. LEAD-IN
8048	LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8051	85 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8052	120 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8057	5 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	10 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8080	1 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER BY 10 FT. LENGTH
8081	2500 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
8084	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	1130 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8086	220 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.)
8087	1890 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8088	510 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
8090	320 LF	FURNISH AND INSTALL STEEL SPAN WIRE 3/8 IN. DIAMETER
8068	30 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8072	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
---	2 EA	RELOCATE EXISTING OVERHEAD SIGN
---	1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") SPAN WIRE MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
M:01-945

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 197 AT JERICHO PARK ROAD

DRAWN BY: M. HOWELL	F.A.P. NO.	TS NO. 3311BG1	SHEET NO.
CHECKED BY: T. ZAYDEL	S.H.A. NO.		
SCALE: NONE	COUNTY: PRINCE GEORE'S	T.I.M.S. NO. F112	2 OF 2
DATE: 11-30-01	LOG MILE:		