F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	BW1E15		

INTERSECTION OPERATION

The intersection of MD 197 at Proposed Ramp A will operate in a NEMA (3) three-phase semi-traffic-actuated mode with MD 197 approaches operating concurrently. Proposed Ramp A will operate alone. The existing presence loop detectors on the Ramp A approach and existing advance loop detectors on the northbound approach of MD 197 shall remain in operation. New advance loop detectors shall be placed on the southbound approach of MD 197.

The existing fully-actuated eight-phase traffic signal controller in base-mounted system ready cabinet shall remain in operation at this intersection.

MD 197 is assumed to run in a North-South direction.

CONSTRUCTION DETAILS

A. Install 27' steel pole with twin 50' and 70' mast arms, 20' lighting arm and luminaire, traffic signal heads and signs as shown (NOTE: 1-3" PVC 90 degree angle conduit bend).

B. Install handhole.

C. Install 1" electrical conduit detector wire sleeve.

D. Install 3" schedule 40 electrical conduit-trenched.

E. Install 3" schedule 80 electrical conduit-under existing pavement.

F. Install 6'x 6' loop detector (3 turns).

G. Install 24" solid white stop line.

H. Remove and salvage existing pole, mast arms, signal heads, signs, lighting arm and luminaire.

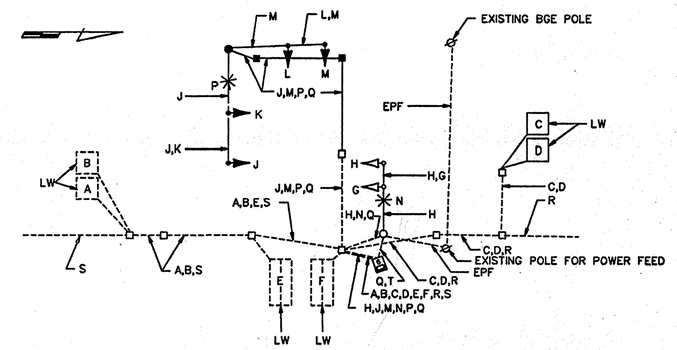
J. Remove existing handhole.

K. Abandon existing loop detector wires.

L. Cap and abandon existing conduits.

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION OF ALL PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. ALL OVERHEAD SIGNS SHALL BE INSTALLED AS PER SIGNAL PLAN OR AS DIRECTED BY THE CONTRACTING OFFICER.
3. PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED BY THE CONTRACTOR AS PER MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS.



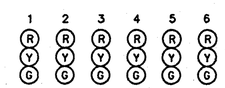
WIRING LEGEND

LW	LOOP WIRE
A-F	2-CONDUCTOR CABLE (ALUMINUM SHIELDED)
G,K,L,	5-CONDUCTOR CABLE (NO. 14 A.W.G.)
H,J,M	7-CONDUCTOR CABLE (NO. 14 A.W.G.)
N,P	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
Q	GROUND WIRE (NO. 6 A.W.G.)
R,S	12 PAIR COMMUNICATION CABLE (NO. 19 A.W.G.)
T	1-CONDUCTOR CABLE (NO.4 A.W.G.) FOR POWER FEED
EPF	EXISTING OVERHEAD POWER FEED
I,O	NOT USED

EQUIPMENT LEGEND

- ● PROPOSED TRAFFIC SIGNAL METAL POLE
- ○ EXISTING TRAFFIC SIGNAL METAL POLE
- EXISTING BASE MOUNTED CONTROL CABINET
- ■ PROPOSED HANDHOLE
- □ EXISTING HANDHOLE
- PROPOSED TRAFFIC SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL HEAD
- LIGHTING ARM WITH LUMINAIRE

WIRING DIAGRAM



	1	2	3	4	5	6	
PHASE 2 & 6	G	G	G	G	R	R	←
2 & 6 CHANGE	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↑
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↕ ↔

PHASING CHART

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MD 21217
TEL. (410) 728-2900

REVISIONS:
© REVISED 03/97 FOR MD 197 IMPROVEMENTS F.A.P. NO. BW1E15
ZAJ

APPROVALS:
ORIGINAL
CHIEF SIGNAL DESIGN SECTION
ON
ASST. DISTRICT ENGINEER TRAFFIC
CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
FILE
DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
LOG MILE • 16019712.36

DRAWN BY:
DES. BY:
CHK. BY:

MD 197 @ B/W PKWY. RAMP A
GENERAL INFORMATION
COUNTY: PRINCE GEORGE'S

DATE: APRIL 19, 1978 F.A.P. NO. BW1E15
SCALE: NONE S.H.A. NO.
TS/STD. NO.: TS-1615B-GI-1
SHEET NO. 2 OF 2

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