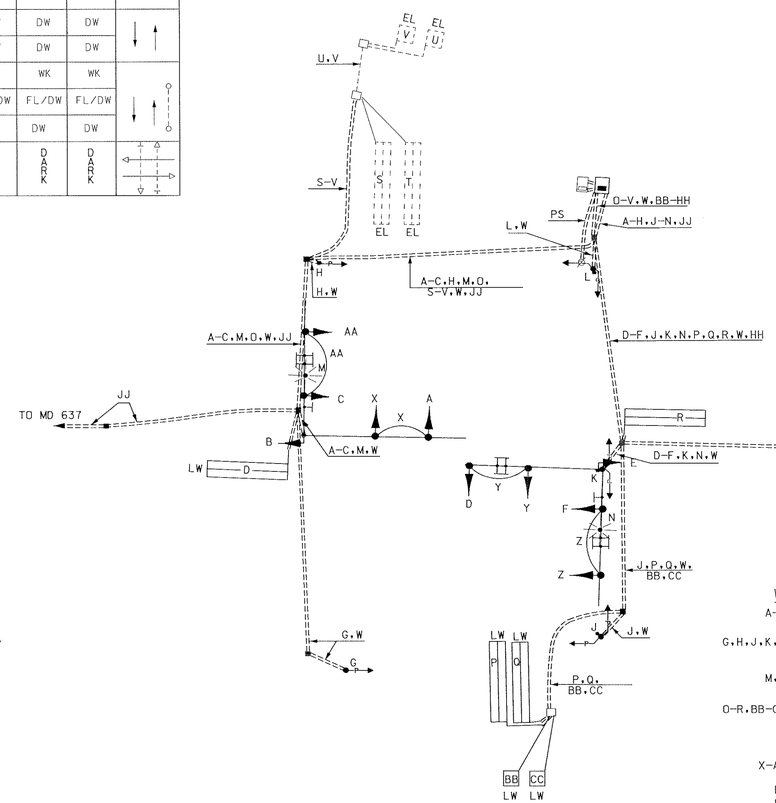
## PHASING SEQUENCE CHART

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHASE 1 & 5 | ◄G-/R | ◄G-/R | R | ◄G-/R | ◄G-/R | R | R | R | R | R | DW | DW | DW | DW | DW | DW | DW | DW |
| PHASE 1 & 5 CHANGE TO 2 & 5, 1 & 6 OR 2 & 6 | | | | | | | | | | | | | | | | | | |
| PHASE 1 & 6 | R | R | R | ◄G-/G | ◄G-/G | G | R | R | R | R | DW | DW | WK | WK | DW | DW | DW | DW |
| PHASE 1 & 6 CHANGE | R | R | R | ◄Y-/G | ◄Y-/G | G | R | R | R | R | DW | DW | WK | WK | DW | DW | DW | DW |
| PHASE 2 & 5 | ◄G-/G | ◄G-/G | G | R | R | R | R | R | R | R | WK | WK | DW | DW | DW | DW | DW | DW |
| PHASE 2 & 5 CHANGE | ◄Y-/G | ◄Y-/G | G | R | R | R | R | R | R | R | WK | WK | DW | DW | DW | DW | DW | DW |
| PHASE 2 & 6 | G | G | G | G | G | G | R | R | R | R | WK | WK | WK | WK | DW | DW | DW | DW |
| PED CLEARANCE | G | G | G | G | G | G | R | R | R | R | FL/DW | FL/DW | FL/DW | FL/DW | DW | DW | DW | DW |
| PHASE 2 & 6 CHANGE | Y | Y | Y | Y | Y | Y | R | R | R | R | DW | DW | DW | DW | DW | DW | DW | DW |
| PHASE 4 | R | R | R | R | R | R | G | G | G | G | DW | DW | DW | DW | DW | DW | DW | DW |
| PHASE 4 CHANGE | R | R | R | R | R | R | Y | Y | Y | Y | DW | DW | DW | DW | DW | DW | DW | DW |
| ALT PHASE 4 | R | R | R | R | R | R | G | G | G | G | DW | DW | DW | DW | WK | WK | WK | WK |
| PED CLEARANCE | R | R | R | R | R | R | G | G | G | G | DW | DW | DW | DW | FL/DW | FL/DW | FL/DW | FL/DW |
| ALT PHASE 4 CHANGE | R | R | R | R | R | R | Y | Y | Y | Y | DW | DW | DW | DW | DW | DW | DW | DW |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | DARK | DARK | DARK | DARK | DARK | DARK | DARK | DARK |

R= RED
Y= YELLOW
G= GREEN
◄Y- = YELLOW ARROW
◄G- = GREEN ARROW
FL= FLASHING

## WIRING DIAGRAM




## CONSTRUCTION DETAILS

A. Install a 27 ft. Steel pole with twin 60 ft. / 50 ft. mast arms, signal heads, signs, and a 20 ft. lighting arm with a 250 watt HPS lamp and luminaire at station 32+25; left 20 ft. (Note: One - 2 in. PVC schedule 80 conduit bend and four - 2 in. x 90 in. anchor bolts).

B. Install a 27 ft. Steel pole with twin 60 ft. / 50 ft. mast arms, signal heads, signs, push-button, and a 20 ft. lighting arm with a 250 watt HPS lamp and luminaire at station 33+38; left 9 ft. (Note: One - 2 in. PVC schedule 80 conduit bend and four - 2 in. x 90 in. anchor bolts).

C. Install a 10 ft. pedestal pole with breakaway base support system and signal head at station 32+42; right 67 ft. (Note: One - 2 in. PVC schedule 80 conduit bend and four 1 in. x 40 in. anchor bolts).

D. Install a 10 ft. pedestal pole with breakaway base support system and signal heads, and push-button with sign at station 33+39; right 58 ft. (Note: One - 2 in. PVC schedule 80 conduit bend and four 1 in. x 40 in. anchor bolts).

E. Install a 10 ft. pedestal pole with breakaway base support system and signal heads, and push-button with sign at station 33+32; left 84 ft. (Note: One - 2 in. PVC schedule 80 conduit bend and four 1 in. x 40 in. anchor bolts).

F. Install a 10 ft. pedestal pole with breakaway base support system and signal head at station 32+30; left 83.5 ft. (Note: One - 2 in. PVC schedule 80 conduit bend and four 1 in. x 40 in. anchor bolts).

G. Install a base mounted controller and cabinet (size 6)at station 33+36; left 113'. (Note: two - 4 in. PVC schedule 80 and two - 2 in. PVC schedule 80 conduit bends).

H. Maintain existing loop detector and splice to new 2 conductor aluminum shielded cable.

I. Deleted.

J. Maintain existing handhole.

K. Maintain existing conduit.

L. Install a 2 in. PVC schedule 80 electrical conduit - trenched.

M. Install an electrical handhole.

N. Install a 3 in. PVC schedule 80 electrical conduit - bored.

O. Install a 1 in. Galvanized steel conduit for detector wire sleeve.

P. Install a 6 ft. x 30 ft. quadruple vehicle loop detector (3-6-3 turns) encased in flexible tubing.

Q. Install a 1 in. liquid tight, flexible, non-metallic conduit for detector wire sleeve.

R. Install a 4 in. PVC schedule 80 electrical conduit - trenched.

S. Install a 3 in. PVC schedule 80 electrical conduit - trenched.

T. Remove existing base mounted controller and cabinet (Note: Prior to removing the cabinet the contractor shall pull back the existing interconnect cable to the south and re-route it ino the proposed controller cabinet. The section of interconnect cable to the north shall be replaced).

U. Maintain existing based mounted controller and cabinet.

V. Install a 24 in. white, reflective, thermoplastic pavement marking.

W. Install a 12 in. white, reflective, thermoplastic pavement marking.

X. Install a 6'x6' vehicle loop detector (4-turns) encased in flexible tubing.

## WIRING KEY

A-F= 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR TRAFFIC SIGNAL HEAD
G,H,J,K,L= 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON
M,N= 2 CONDUCTOR ELECTRICAL CABLE CABLE(NO. 12 AWG) COPPER TYPE T/C
O-R,BB-GG= 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED
W= 1 CONDUCTOR ELECTRICAL CABLE (NO. 6 AWG) STRANDED BARE COPPER GROUND WIRE
X-AA= 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR TRAFFIC SIGNAL HEAD - JUMPER CABLE
LW= LOOP WIRE
EL= EXISTING LOOP
PS= POWER SERVICE
HH= EXISTING 12 PAIR TWISTED INTERCONNECT CABLE (NO. 19 AWG)
JJ= PROPOSED 12 PAIR TWISTED INTERCONNECT CABLE (NO. 19 AWG)

### UTILITY LEGEND

| | | |
|---|---|---|
| T | T | TELEPHONE CABLES |
| G | G | GAS MAIN |
| W | W | WATER MAIN |
| S | S | SEWER MAIN |
| E | E | ELECTRIC CABLES |
| A | A | AERIAL CABLES |
| BC | | BURIED CABLE |
| SD | | STORM DRAIN |

### GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

REVISIONS

APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

CONSULTING ENGINEERS
COLUMBIA, MARYLAND

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

MD 5 (BRANCH AVE) @ CURTIS DRIVE
GENERAL INFORMATION SHEET 1 OF 2

LOGMILE #: 16000514.74

DATE ___/___/___

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | DCI | F.A.P. NO. | | PLAN SHEET NO.: | SHEET NO. |
| CHECK BY: | DMP | S.H.A. NO. | P-388-000-385 | | |
| SCALE: | Bruce Thompson 8-28-98 | COUNTY | PRINCE GEORGE'S | TS 1071D | ___ OF ___ |

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