



MD 197

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RACE TRACK ROAD

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**CONSTRUCTION DETAILS**

1. INSTALL OPTICOM DETECTOR EYE ON EXISTING SPAN WIRE.
2. USE EXISTING STRAINPOLE AND SPAN WIRE.
3. USE EXISTING STRAINPOLE AND CONDUIT.
4. USE EXISTING HANDHOLE AND CONDUIT.
5. REMOVE EXISTING THREE SECTION SIGNAL HEAD AND INSTALL FOUR SECTION SIGNAL HEAD ON EXISTING SPAN WIRE.
6. INSTALL OPTICOM DETECTOR EYE POLE MOUNT.

**A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR**

| ITEM NO. | QUANTITY | DESCRIPTION   |
|----------|----------|---|
| 9001     | 1 EACH   | 12 INCH ONE WAY FOUR SECTION SIGNAL HEAD SPAN WIRE MOUNT. |

**B. EQUIPMENT TO BE SUPPLIED AND /OR INSTALLED BY THE CONTRACTOR**

| ITEM NO. | QUANTITY | DESCRIPTION                                  |
|----------|----------|--|
| 8011     | 1 EACH   | INSTALL SIGNAL HEAD ANY TYPE                 |
| 8012     | 1 EACH   | F & 13M OPTICOM #521 DETECTOR EYE SPAN MOUNT |
| 8012     | 1 EACH   | F & 13M OPTICOM #521 DETECTOR EYE POLE MOUNT |
| 8014     | 1 EACH   | F & 13M OPTICOM #562 DISCRIMINATOR MODULE    |
| 8013     | 1 EACH   | F & 13M OPTICOM #560 CARD RACK               |
| 8037     | 700 L.F. | F & 14- CONDUCTOR OPTICOM DETECTOR CABLE     |

|              | 1   | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   |
|--------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Phase 1 & 5  | ←G-   | ←G-  | R R  | ←G-  | ←G-  | R R  | R R  | R R  | R R  | R R  | 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  | R R  | R R  | R R  | R R  | R R  |
| 1 Change     | ←Y-   | ←Y-  | G G  | ←R-  | ←R-  | R R  | R R  | R R  | R R  | 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  | R R  | R R  | R R  | R R  | R R  |
| 5 Change     | ←R-   | ←R-  | R R  | ←Y-  | ←Y-  | G G  | R R  | R R  | R R  | R R  | R R  | R R  | R R  | R R  |
| Phase 2 & 6  | ←R-   | ←R-  | G G  | ←R-  | ←R-  | G G  | R R  | R R  | R R  | R R  | R R  | R R  | R R  | R R  |
| 2 & 6 Change | ←R-   | ←R-  | R R  | ←R-  | ←R-  | R R  | R R  | R R  | R R  | R R  | R R  | R R  | R R  | R R  |
| Phase 4 & 8  | R R   | R R  | R R  | R R  | R R  | R R  | R R  | G G  | G G  | G G  | G G  | G G  | G G  | G G  |
| 4 & 8 Change | R R   | R R  | R R  | R R  | R R  | R R  | R R  | Y Y  | Y Y  | Y Y  | Y Y  | Y Y  | Y Y  | Y Y  |
| Flashing     | FL/R  | FL/R | FL/Y | FL/Y | FL/R | FL/R | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R |
| Operation    |   |      |      |      |      |      |      |      |      |      |      |      |      |      |

**FIRE TRUCK PRE-EMPTION**

| Firetruck Pre-emption Phase 2 & 5 | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  |
|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Firetruck Pre-emption             | ←R- | ←R- | R R | ←G- | ←G- | G G | R R | R R | R R | R R | R R | R R | R R | R R |
| Normal Operation                  | ←R- | ←R- | R R | ←Y- | ←Y- | G G | R R | R R | R R | R R | R R | R R | R R | R R |

**FIRE TRUCK PRE-EMPTION**

| Firetruck Pre-emption Phase 8 | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Firetruck Pre-emption         | R R | R R | R R | R R | R R | R R | R R | R R | R R | R R | R R | G G | G G | G G |
| Normal Operation              | R R | R R | R R | R R | R R | R R | R R | R R | R R | R R | R R | Y Y | Y Y | Y Y |

**UTILITY LEGEND**

- G — GAS MAIN
- W — WATER MAIN
- S — SEWER MAIN
- E — ELECTRIC CABLES
- A — AERIAL CABLES
- T — TELEPHONE CABLES

| REVISIONS | APPROVALS                                 |
|-----------|---|
|           | ORIGINAL                                  |
|           | ASST. TRAFFIC ENGINEERING DESIGN DIVISION |
|           | ON  |
|           | ASST. DISTRICT ENGINEER, TRAFFIC          |
|           | CHEF, TRAFFIC ENGINEERING DESIGN DIVISION |
|           | FILE                                      |
|           | DIRECTOR, TRAFFIC & SAFETY                |

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

**MD 197 AND RACE TRACK ROAD**

|                 |                         |                    |
|-----------------|-------------------------|--------------------|
| DRAWN BY: DBD   | F.A.P. NO.              | TS NO.             |
| CHECKED BY:     | S.H.A. NO.              | 3110 A             |
| SCALE: 1" = 20' | COUNTY: PRINCE GEORGE'S | T.I.M.S. NO. C-778 |
| DATE:           | LOG MILE: 16019705.67   | SHEET NO. OF       |