

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 279 AND BELLE HILL ROAD IN CECIL COUNTY. THE MODIFICATION WILL REPLACE DAMAGED LOOP DETECTORS. MD 279 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION OPERATES IN A NEMA 6 PHASE, FULLY-ACTUATED MODE. THE NORTHBOUND AND SOUTHBOUND APPROACHES OF MD 279 OPERATE CONCURRENTLY WITH LEADING EXCLUSIVE LEFT TURN PHASING PROVIDED FOR BOTH APPROACHES. BELLE HILL RD APPROACHES OPERATE AS A SPLIT-PHASE.

**CONTACTS**

**DISTRICT (DISTRICT 2)**

MR. TERRY WRIGHT  
DISTRICT ENGINEER  
410-810-3210

MR. JEFF WENTZ  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-810-3240

MR. BARRY CLOTHIER  
DISTRICT UTILITY ENGINEER  
410-810-3275

MR. WM NORRIS EMBERT  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-810-3270

MR. MIKE LEWIS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-810-3250

**OFFICE OF TRAFFIC AND SAFETY**

VACANT  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. EDWARD RODENHIZER  
CHIEF, SIGNAL OPERATIONS SECTION  
410-787-7650

MR. EUGENE BAILEY  
CHIEF, SIGN OPERATIONS SECTION  
410-787-7670

MR. MICHAEL STOCKER  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7696

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

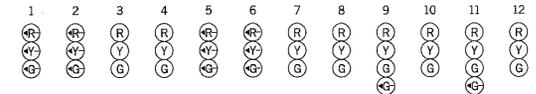
| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|-------------|
| NONE     |          |             |

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

| ITEM NO. | QUANTITY | DESCRIPTION  |
|----------|----------|--|
| 1002     | 1 EA     | MAINTENANCE OF TRAFFIC   |
| 8007     | 1 EA     | REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT                        |
| 8010     | 20 LF    | 1" DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT CONDUIT                 |
| 8013     | 150 LF   | SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED                             |
| 8015     | 405 LF   | SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED                          |
| 8017     | 2 EA     | NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE                                  |
| 8020     | 660 LF   | LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)                              |
| 8021     | 145 LF   | SAW CUT FOR SIGNAL (LOOP DETECTOR)   |
| 8026     | 1 CY     | TEST PIT EXCAVATION  |
| 8027     | 525 LF   | FURNISH & INSTALL ELECTRICAL CABLE 2-CONDUCTOR, NO. 14 AWG (ALUMINUM SHIELDED) |

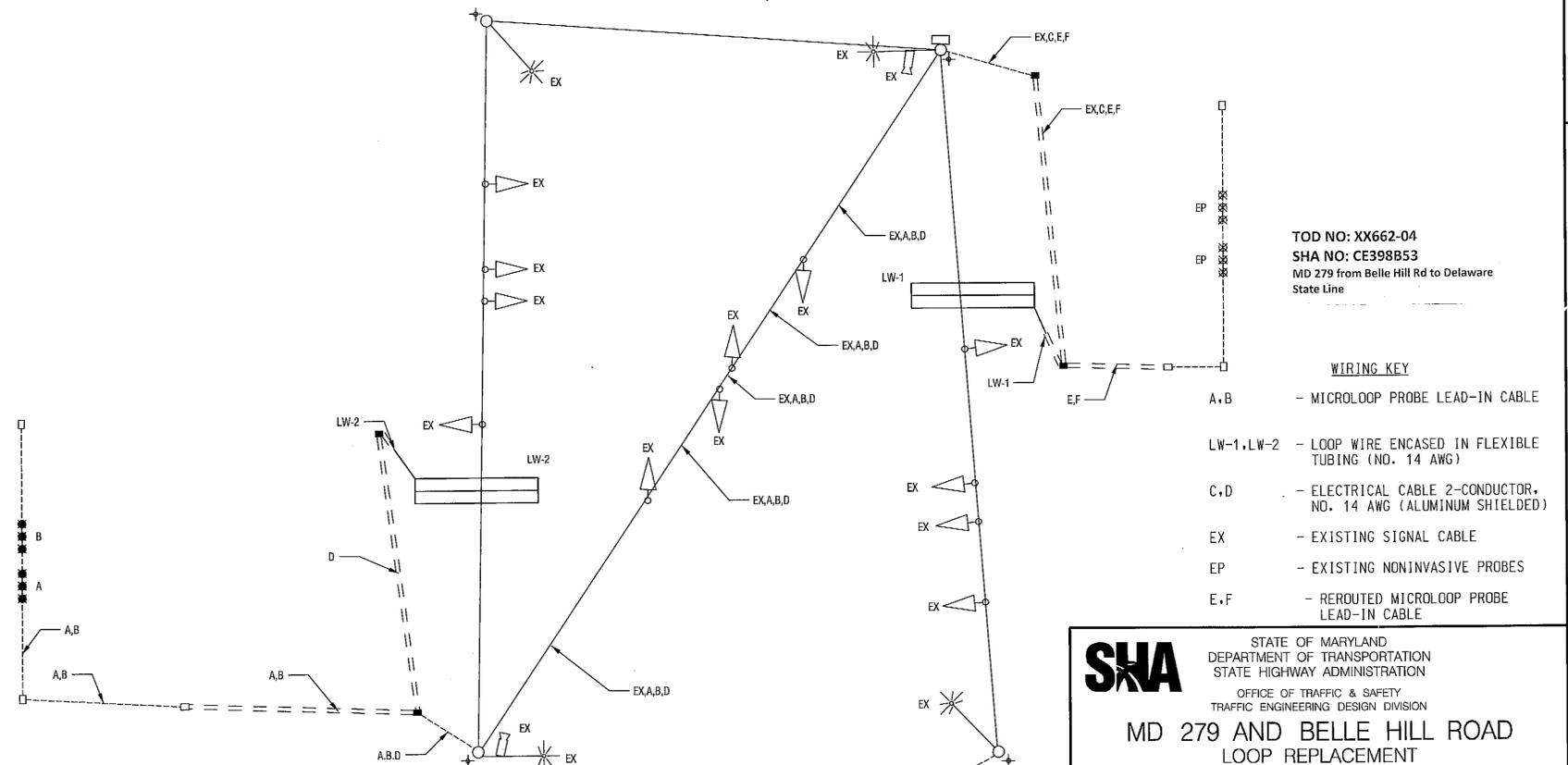
**C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.**

**PHASE CHART**



| PHASE  | 1     | 2     | 3   | 4   | 5     | 6     | 7   | 8   | 9     | 10  | 11    | 12  |
|--|-------|-------|-----|-----|-------|-------|-----|-----|-------|-----|-------|-----|
| PHASE 1 & 5  | ←G-   | ←G-   | R   | R   | ←G-   | ←G-   | R   | R   | R     | R   | R     | R   |
| PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6 |       |       |     |     |       |       |     |     |       |     |       |     |
| PHASE 1 & 6  | ←G-   | ←G-   | G   | G   | ←R-   | ←R-   | R   | R   | R     | R   | R     | R   |
| 1 CHANGE   | ←Y-   | ←Y-   | G   | G   | ←R-   | ←R-   | R   | R   | R     | R   | R     | R   |
| PHASE 2 & 5  | ←R-   | ←R-   | R   | R   | ←G-   | ←G-   | G   | G   | R     | R   | R     | R   |
| 5 CHANGE   | ←R-   | ←R-   | R   | R   | ←Y-   | ←Y-   | G   | G   | R     | R   | R     | R   |
| PHASE 2 & 6  | ←R-   | ←R-   | G   | G   | ←R-   | ←R-   | G   | G   | R     | R   | R     | R   |
| 2 & 6 CHANGE   | ←R-   | ←R-   | Y   | Y   | ←R-   | ←R-   | Y   | Y   | R     | R   | R     | R   |
| PHASE 3  | ←R-   | ←R-   | R   | R   | ←R-   | ←R-   | R   | R   | G/←G- | G   | R     | R   |
| 3 CHANGE   | ←R-   | ←R-   | R   | R   | ←R-   | ←R-   | R   | R   | Y     | Y   | 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   |
| FLASHING OPERATION                                     | ←FLR- | ←FLR- | FLY | FLY | ←FLR- | ←FLR- | FLY | FLY | FLR   | FLR | FLR   | FLR |

**WIRING DIAGRAM**



TOD NO: XX662-04  
SHA NO: CE398B53  
MD 279 from Belle Hill Rd to Delaware State Line

**WIRING KEY**

- A,B - MICROLOOP PROBE LEAD-IN CABLE
- LW-1,LW-2 - LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
- C,D - ELECTRICAL CABLE 2-CONDUCTOR, NO. 14 AWG (ALUMINUM SHIELDED)
- EX - EXISTING SIGNAL CABLE
- EP - EXISTING NONINVASIVE PROBES
- E,F - REROUTED MICROLOOP PROBE LEAD-IN CABLE

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 279 AND BELLE HILL ROAD  
LOOP REPLACEMENT**  
ELKTON, MD

**GENERAL INFORMATION SHEET**

SCALE N.T.S. DATE JUNE 15, 2012 CONTRACT NO. XX6625185

DESIGNED BY MF COUNTY CECIL  
DRAWN BY EML LOGMILE 07027903.37  
CHECKED BY MF TMS NO. 1373  
F.A.P. NO. TOD NO.

TS NO. 2163F-GI DRAWING SG-02 OF 02 SHEET NO. 02 OF 04

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