

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a temporary two phase traffic signal for MD 550 at the eastern Midland Railroad crossing approximately 3/4 mile west of Kelbaugh Rd in Thurmont, MD.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA 2-phase, semi-actuated mode, using a NEMA size 5 pole mounted cabinet.

NOTES

- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

CONTACTS

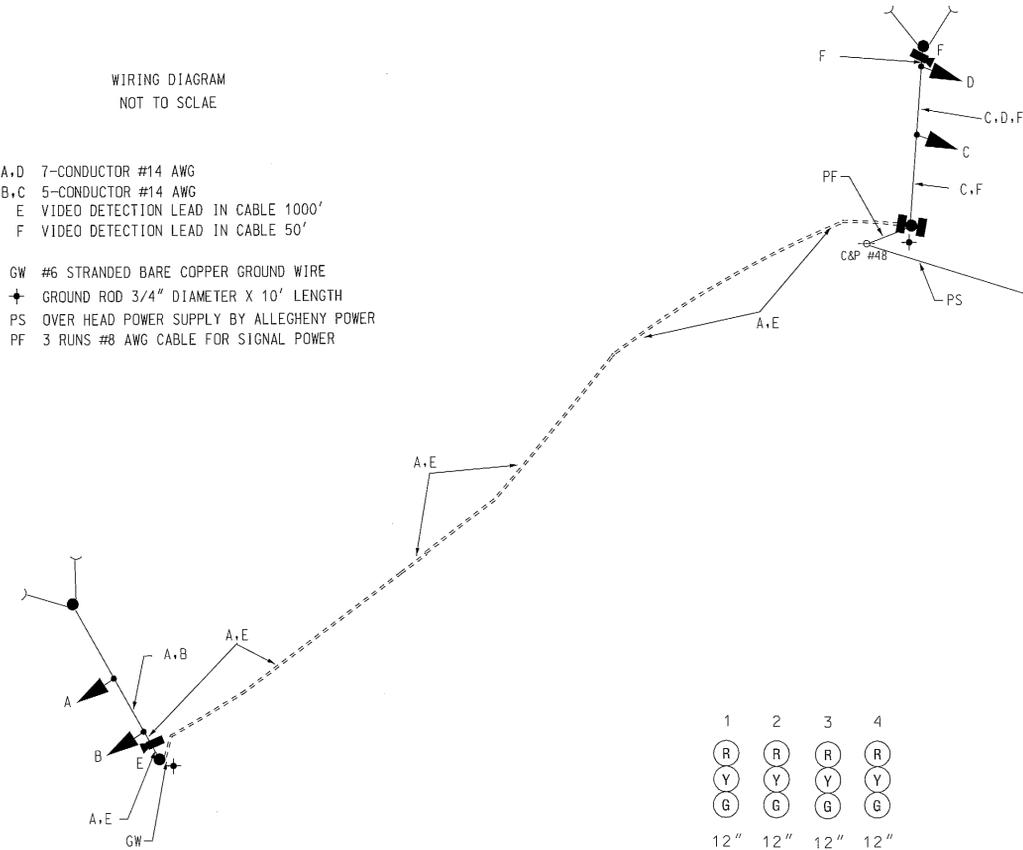
| | |
|---|---|
| DISTRICT | OFFICE OF TRAFFIC AND SAFETY |
| MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC 1-301-0624-8140 | MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630 |
| MS. ANDREA ABEND ASSISTANT DISTRICT ENGINEER - UTILITIES 1-301-624-8116 | MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630 |
| MS. SUE PALMER ASSISTANT DISTRICT ENGINEER - MAINTENANCE 1-301-624-8106 | MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650 |
| MR. LUTHER CROMER LINES ENGINEERING DESIGNER-ALLEGHENY POWER 1-301-721-5907 | MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670 |
| | MR. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668 |

EQUIPMENT LIST

| | | |
|---|----------|---|
| A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION | | |
| ITEM # | QUANTITY | ITEM DESCRIPTION |
| 9000 | 1 EA | TECHPOWER UNINTERRUPTABLE POWER SUPPLY |
| 9043 | 1 EA | CONTROLLER CABINET SIZE 5-POLE MOUNT |
| 9570 | 40 SF | SHEET ALUMINUM SIGN-GROUND MOUNTED - 2 36"X35" W3-3 SIGNAL AHEAD - 2 24"X24" W16-14(1) "TEMP" |
| B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR | | |
| ITEM # | QUANTITY | ITEM DESCRIPTION |
| 1001 | 2 EA | MAINTENANCE OF TRAFFIC |
| 5007 | 25 LF | F&I 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING |
| 8009 | 5 EA | F&I CLASS II WOOD POLE WITH 2 DOWN GUYS AND ANCHORS |
| 8021 | 1 EA | REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT |
| 8025 | 1 EA | F&I VIDEO DETECTION CAMERA AND CABLE UP TO 500' |
| 8034 | 900 LF | F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4"-TRENCHED |
| 8035 | 40 LF | F&I WOOD SIGN SUPPORTS UP TO 4"X6" |
| 8036 | 40 SF | INSTALL OVERHEAD OR GROUND MOUNTED SIGN |
| 8038 | 50 LF | F&I #6 STRANDED BARE COPPER GROUND WIRE |
| 8042 | 1 EA | F&I ELECTRICAL UTILITY SERVICE EQUIPMENT-120/240 VOLTS-60 AMPS |
| 8044 | 100 LF | F&I ELECTRICAL CABLE-1 CONDUCTOR #8 AWG THHN/THWN |
| 8050 | 12 EA | F&I 12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION |
| 8056 | 50 LF | F&I ELECTRICAL CABLE- 5 CONDUCTOR #14AWG |
| 8057 | 1000 LF | F&I ELECTRICAL CABLE- 7 CONDUCTOR #14AWG |
| 8062 | 120 LF | F&I STEEL SPAN WIRE-1/4" DIAMETER |
| 8063 | 120 LF | F&I STEEL SPAN WIRE-3/8" DIAMETER |
| 8064 | 2 EA | INSTALL CONTROLLER AND CABINET-POLE MOUNT |
| NEG | 1 EA | F&I VIDEO DETECTION CAMERA AND 1000' CABLE |
| C. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR CONTROLLER CABINET, UNINTERRUPTABLE POWER SUPPLY, AND ALL ASSOCIATED EQUIPMENT ARE TO BE REMOVED AND RETURNED TO SHA UPON PROJECT COMPLETION. | | |

**WIRING DIAGRAM
NOT TO SCALE**

- A,D 7-CONDUCTOR #14 AWG
- B,C 5-CONDUCTOR #14 AWG
- E VIDEO DETECTION LEAD IN CABLE 1000'
- F VIDEO DETECTION LEAD IN CABLE 50'
- GW #6 STRANDED BARE COPPER GROUND WIRE
- ⊕ GROUND ROD 3/4" DIAMETER X 10' LENGTH
- PS OVER HEAD POWER SUPPLY BY ALLEGHENY POWER
- PF 3 RUNS #8 AWG CABLE FOR SIGNAL POWER



| | | | | | |
|--------------------|------|------|------|------|---|
| | 1 | 2 | 3 | 4 | |
| | (R) | (R) | (R) | (R) | |
| | (Y) | (Y) | (Y) | (Y) | |
| | (G) | (G) | (G) | (G) | |
| | 12" | 12" | 12" | 12" | |
| PHASE Ø1 | G | G | R | R | → |
| Ø1 CHANGE | Y | Y | R | R | → |
| Ø1 CLEAR | R | R | R | R | → |
| PHASE Ø2 | R | R | G | G | ← |
| Ø2 CHANGE | R | R | Y | Y | ← |
| Ø2 CLEAR | R | R | R | R | ← |
| FLASHING OPERATION | FL-R | FL-R | FL-R | FL-R | |

TOD NO: AB380A61
SHA NO: XX424-12
MD 550 North of Kelbaugh Road

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 550 @ NORTH OF KELBAUGH RD
TEMPORARY SIGNAL

GENERAL INFORMATION SHEET

| | | | | | |
|-------------|-----------------|-----------------|-------------|--------------|-----------|
| SCALE | N/A | ADVERTISED DATE | MAY 2011 | CONTRACT NO. | XX4245185 |
| DESIGNED BY | C STRAIN | COUNTY | FREDERICK | | |
| DRAWN BY | C STRAIN | LOGMILE | 10055016.28 | | |
| CHECKED BY | D DODA | TMS NO. | K947 | | |
| F.A.P. NO. | SEE TITLE SHEET | TOD NO. | | | |
| TS NO. | 4792 | DRAWING | GI-1 | OF | 1 |
| SHEET NO. | | | | OF | 2 |

BY: cstrain