## PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE PARTIAL RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT US 50 AND MD 328 IN EASTON MD., TALBOT COUNTY. US 50 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULL TRAFFIC-ACTUATED MODE WITH EXCLUSIVE PERMISSIVE LEFT TURNS FOR EASTBOUND AND WESTBOUND US 50 AND SIDE STREET SPLIT FOR MD 328. PHASE 3 PRE-EMPTION IS FOR EASTBOUND TRAFFIC ON GOLDSBOROUGH STREET. PHASE 4 PRE-EMPTION IS FOR WESTBOUND TRAFFIC ON MD 328.
PHASE 2 AND 6 PRE-EMPTION IS FOR EAST/WESTBOUND US 50.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:
PROJECT CONTACTS:

DISTRICT 2

MR. TERRY WRIGHT – DISTRICT ENGINEER
PHONE: (410) 778-3061
MR. BARRY CLOTHIER – UTILITY ENGINEER
PHONE: (410) 810-3275
MR. JEFF WENTZ – ADE TRAFFIC
PHONE: (410) 810-3240
MR. WILLIAM EMBERT – ADE CONSTRUCTION
PHONE: (410) 778-3061
MIKE LEWIS – ADE MAINTENANCE
PHONE: (410) 778-3061

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630
MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630
MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670
MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

TEMPORARY EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINSTRATION

| ITEM CODE | UNIT | QUANTITY | DESCRIPTION |
|---|---|---|---|
| 900000 | EA | 1 | VIDEO DETECTION INTERFACE EQUIPMENT, (FOR 5-8 CAMERAS) |

B. EQUIPMENT TO BE FURNISH AND/OR INSTALLED BY CONTRACTOR

| ITEM CODE | UNIT | QUANTITY | DESCRIPTION |
|---|---|---|---|
| 203030 | CY | 1 | TEST PIT EXCAVATION |
| 800000 | LS | 1 | REMOVE AND DISPOSE EQUIPMENT |
| 800000 | LS | 1 | DISCONNECT, PULL BACK AND REROUTE CABLE |
| 801004 | CY | 5 | CONCRETE FOR SIGNAL FOUNDATION |
| 802501 | LF | 190 | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| 805135 | LF | 170 | 3 INCH SCHEDULE 80 REGID PVC CONDUIT-TRENCHED |
| 805118 | LF | 170 | 4 INCH SCHEDULE 80 REGID PVC CONDUIT-BORED |
| 811001 | EA | 1 | FURNISH AND INSTALL ELECTRICAL MANHOLE |
| 816001 | EA | 5 | VIDEO DETECTION CAMERA |
| 816005 | EA | 2 | CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER |
| 816010 | EA | 3 | CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER |
| 837001 | EA | 1 | GROUND ROD-3/4 INCH DIAMETER X 10 FOOT LENGTH |
| 861107 | LF | 40 | ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG) |
| 861108 | LF | 560 | ELECTRICAL CABLE-7 CONDUCTOR (NO. 14 AWG) |
| 810605 | EA | 3 | NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE |
| 869102 | LF | 140 | STEEL SPAN WIRE – 3/8 INCH DIAMETER |

FINAL EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINSTRATION

| ITEM CODE | UNIT | QUANTITY | DESCRIPTION |
|---|---|---|---|
| 973023 | SF | 70 | FLAT SHEET ALUMINUM SIGNS CONSISTING OF:<br>ASSOCIATED SHIELD ASSEMBLY (36"X72") BAND TO POLE – 2 EACH<br>ASSOCIATED SHIELD ASSEMBLY (24"X48") BAND TO POLE – 2 EACH<br>ASSOCIATED SHIELD ASSEMBLY (48"X72") BAND TO POLE – 1 EACH, |

B. EQUIPMENT TO BE FURNISH AND/OR INSTALLED BY CONTRACTOR

| ITEM CODE | UNIT | QUANTITY | DESCRIPTION |
|---|---|---|---|
| 585625 | LF | 30 | 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING |
| 800000 | LS | 1 | REMOVE AND DISPOSE EQUIPMENT |
| 801607 | SF | 70 | INSTALL SHEET ALUMINUM SIGN |
| 813006 | SF | 12 | RELOCATE SIGNS FROM EXISTING OVERHEAD STRUCTURES |
| 813010 | EA | 5 | BAND SIGN TO SUPPORT |
| 800000 | EA | 1 | RELOCATE VIDEO DETECTION CAMERA |
| 818052 | EA | 1 | STEEL POLE WITH SINGLE 70 FOOT MAST ARM |
| 831010 | EA | 1 | 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE |
| 860270 | EA | 3 | 8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION |
| 860284 | EA | 10 | 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION |
| 861107 | LF | 40 | ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG) |
| 861108 | LF | 560 | ELECTRICAL CABLE-7 CONDUCTOR (NO. 14 AWG) |
| 861116 | LF | 200 | ELECTRICAL CABLE-2 CONDUCTOR (NO. 12 AWG), TRAY CABLE |
| 866104 | EA | 1 | 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE |


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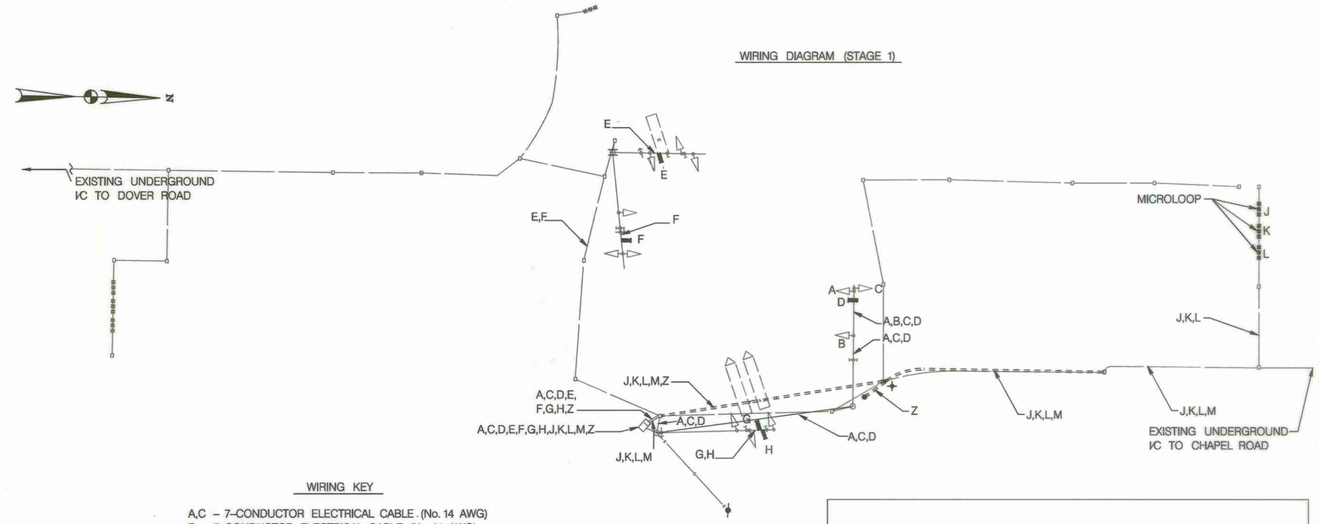
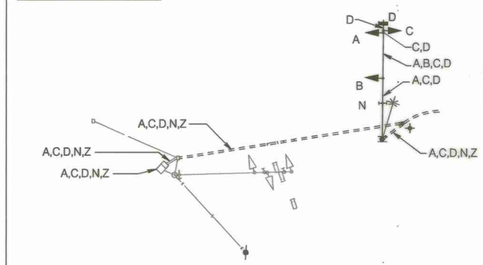
## WIRING DIAGRAM (STAGE 1)




WIRING KEY

A,C – 7-CONDUCTOR ELECTRICAL CABLE (No. 14 AWG)
B – 5-CONDUCTOR ELECTRICAL CABLE (No. 14 AWG)
D,E,F,G,H – VIDEO DETECTION CONTROL CABLE
Z – 1 CONDUCTOR (No. 6 AWG) STANDED COPPER GROUND WIRE
+ – GROUND ROD
J,K,L – EXISTING MICROLOOP PROBE LEAD-IN TO BE REROUTED
M – EXISTING INTERCONNECT CABLE TO BE REROUTED

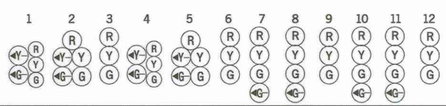
## WIRING DIAGRAM (FINAL)




WIRING KEY

A,C – 7-CONDUCTOR ELECTRICAL CABLE (No. 14 AWG)
B – 5-CONDUCTOR ELECTRICAL CABLE (No. 14 AWG)
D – VIDEO DETECTION CONTROL CABLE
Z – 1 CONDUCTOR (No. 6 AWG) STANDED COPPER GROUND WIRE
+ – GROUND ROD
N – ELECTRICAL CABLE –2 CONDUCTOR (NO.12 AWG), TRAY CABLE

## PHASE CHART




| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHASE 1 AND 5 | ←G/R | ←G/R | R | ←G/R | ←G/R | R | R | R | R | R | R | R |
| 1 AND 5 CHANGE | THE CONTROLLER MAY SKIP TO PHASE 1 & 6 OR 2 & 5 OR 2 & 6 | | | | | | | | | | | |
| PHASE 1 AND 6 | ←G/G | ←G/G | G | R | R | R | R | R | R | R | R | R |
| 1 CHANGE | ←Y/G | ←Y/G | G | R | R | R | R | R | R | R | R | R |
| PHASE 2 AND 5 | R | R | R | ←G/G | ←G/G | G | R | R | R | R | R | R |
| 5 CHANGE | R | R | R | ←Y/G | ←Y/G | G | R | R | R | R | R | R |
| PHASE 2 AND 6 | G | G | G | G | G | G | R | R | R | R | R | R |
| 2 AND 6 CHANGE | Y | Y | Y | Y | Y | Y | R | R | R | R | R | R |
| PHASE 3 | R | R | R | R | R | R | ←G/G | ←G/G | G | R | R | R |
| 3 CHANGE | R | R | R | R | R | R | Y | Y | Y | R | R | R |
| PHASE 4 | R | R | R | R | R | R | R | R | R | ←G/G | ←G/G | G |
| 4 CHANGE | R | R | R | R | R | R | R | R | R | Y | Y | Y |
| PRE-EMPTION PHASE 2 & 6 | G | G | G | G | G | G | R | R | R | R | R | R |
| PRE-EMPTION 2 & 6 CHANGE | Y | Y | Y | Y | Y | Y | R | R | R | R | R | R |
| PRE-EMPTION PHASE 3 | R | R | R | R | R | R | ←G/G | ←G/G | G | R | R | R |
| PRE-EMPTION 3 CHANGE | R | R | R | R | R | R | Y | Y | Y | R | R | R |
| PRE-EMPTION PHASE 4 | R | R | R | R | R | R | R | R | R | ←G/G | ←G/G | G |
| PRE-EMPTION 4 CHANGE | R | R | R | R | R | R | R | R | R | Y | Y | Y |
| FLASHING OPERATION | FL /Y | FL /Y | FL /Y | FL /Y | FL /Y | FL /Y | FL /R | FL /R | FL /R | FL /R | FL /R | FL /R |

REDLINE REVISION 2 APPROVAL
REPLACE SHEET
TEMPORARY SIGNAL TO REROUTE EXISTING SIGNAL CABLES PRIOR TO INSTALLING POLE
MAY 2011

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 50 AND MD 328 (MATTHEWSTOWN ROAD)
EASTON, MD

# GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE _____ CONTRACT NO. TA3225176

DESIGNED BY AF/AMH — COUNTY TALBOT
DRAWN BY RLB — LOGMILE 20005011.15
CHECKED BY JFL — TIMS NO. K308
F.A.P. NO. SEE TITLE SHEET — TOD NO. _____

TS NO. 532E-G1 | DRAWING SP – 2 OF 2 | SHEET NO. OF

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DRILL HOLES
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BORDER REV: DATE: June 1, 2004
BY: Aaron Hottenstein Division: P068 Highway TrafficGMA Emp