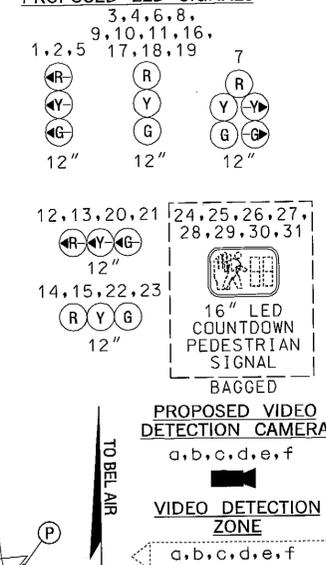


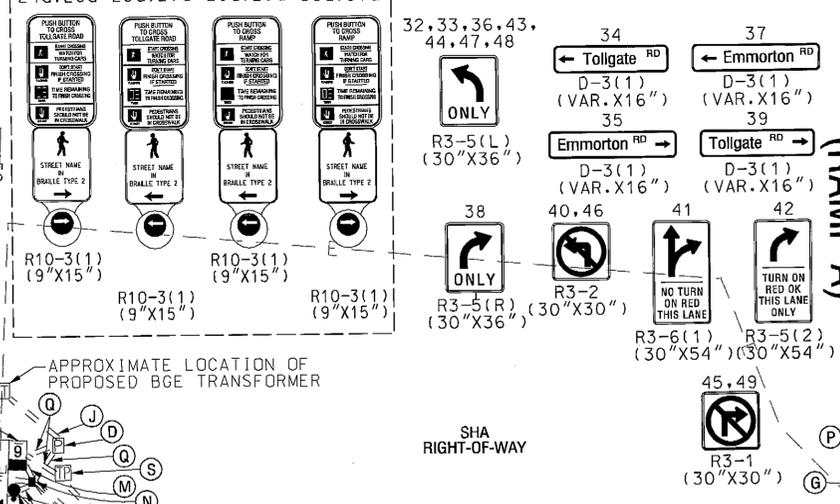
**CONSTRUCTION DETAILS**

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, OVERHEAD VIDEO DETECTION CAMERA, 15 FT. LIGHTING ARM, AND 250 WATT HPS LUMINAIRE. (NOTE: TWO-4 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS) STA. 112+84, 105' RT. & STA. 114+80, 38' LT.
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 70 FT. AND 50 FT. MAST ARMS, SIGNAL HEADS, SIGNS, OVERHEAD VIDEO DETECTION CAMERAS, 20 FT. LIGHTING ARM, AND 250 WATT HPS LUMINAIRE. (NOTE: TWO-4 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS) STA. 112+10, 21' RT. & STA. 115+63, 35' RT.
- C. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT. (NOTE: THREE-4 IN. PVC AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS) STA. 25+15, 10' LT.
- D. INSTALL METERED SERVICE PEDESTAL. (NOTE: ONE-4 IN. AND TWO-2 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS IN PEDESTAL BASE).
- E. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS TOLLGATE ROAD"), AND AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH TYPE II INTERNATIONAL BRAILLE ON FACE PLATE (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND) STA. 115+81, 50' LT., STA. 115+73, 28' RT., STA. 115+80, 55' RT., STA. 115+71, 99' RT.
- F. INSTALL 24 INCH WHITE REMOVABLE PERFORMED PAVEMENT LINE MARKING FOR STOP LINE.
- G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- K. INSTALL HANDHOLE.
- L. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE AND SIGNAL HEAD. (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND) STA. 114+53, 100' RT. & STA. 113+02, 38' LT.
- M. INSTALL THREE-4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS-TRENCHED.
- N. INSTALL A 48 IN. X 42 IN. ALTERNATE TRAFFIC SIGNAL HANDHOLE (PER SHA STANDARD MD 811.03) MODIFIED TO SUBSTITUTE CONCRETE IN PLACE OF BRICK FOR THE HANDHOLE.
- P. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS RAMP"), AND AUDIBLE TACTILE PEDESTRIAN STATION WITH TYPE II INTERNATIONAL BRAILLE ON FACE PLATE (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND) STA. 114+72, 122' RT., STA. 112+80, 127' RT., STA. 112+24, 131' RT., STA. 115+40, 130' RT.
- Q. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- R. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- S. INSTALL TELECOMMUNICATION SERVICE PEDESTAL. (NOTE: TWO-2 IN. AND ONE-3 IN. SCHEDULE 80, 90-DEGREE CONDUIT BENDS IN PEDESTAL BASE).
- T. PROVIDE 90-DEGREE CONDUIT BEND TO STUB-UP 1 FT. ABOVE GRADE AT THE BASE OF THE VERIZON PHONE PEDESTAL.

**PROPOSED LED SIGNALS**



**PROPOSED SIGNS**



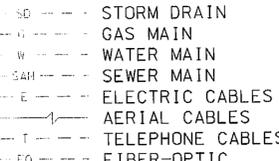
**MD 924 (TOLLGATE RD/EMMORTON RD) GENERAL NOTES**

1. VIDEO CAMERA PLACEMENT AND ALIGNMENT SHALL BE COORDINATED WITH THE SHA/OOTS ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
6. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.02, MD 818.04 THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BEGINNING SIGNAL WORK TO ARRANGE FOR SHA SIGNAL INSPECTION.
9. INSTALL 15 FEET OF ADDITIONAL SLACK OF ELECTRICAL CABLE FOR SIGNAL HEAD NUMBER 7.
10. ALL TRENCHED CONDUIT UNDER THE PROPOSED ROADWAY SHALL BE INSTALLED PRIOR TO ROADWAY PAVING.

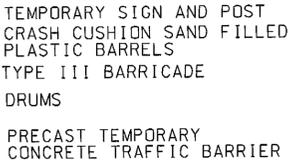
**GEOMETRIC LEGEND**



**UTILITY LEGEND**



**WORK ZONE**



PRECAST TEMPORARY CONCRETE TRAFFIC BARRIER

**MOT STAGE : 5**

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 24 AT MD 924 (EMMORTON ROAD)  
IMPROVEMENTS TO I-95 AND MD 24 INTERCHANGE  
ABINGDON, MARYLAND

| TEMPORARY TRAFFIC SIGNAL PLAN |                                   |                             |  |
|-------------------------------|-----------------------------------|-----------------------------|--|
| SCALE 1" = 20'                | DATE SEPT 11, 1992                | CONTRACT NO. BW-511-802-412 |  |
| DESIGNED BY _____             | COUNTY HARFORD                    |                             |  |
| DRAWN BY S.R.                 | LOGMILE _____                     |                             |  |
| CHECKED BY L.E.S.             | TMS NO. F.083                     |                             |  |
| FAP NO. _____                 | TOD NO. AT 308-12                 |                             |  |
| TS NO. 1948 G                 | DRAWING <b>PSG</b> OF <b>P014</b> | SHEET NO. 469 OF 597        |  |

| APPROVALS  | REVISIONS  |
|--|--|
| <p>TEAM LEADER, TRAFFIC ENGINEERING DIVISION</p> <p>ASST. CHIEF TRAFFIC ENGINEERING DIVISION</p> <p>CHIEF TRAFFIC ENGINEERING DIVISION</p> <p>DIRECTOR, OFFICE OF TRAFFIC &amp; SAFETY</p> | <p>REVISIONS</p> <p>① STAGE 5 MOT SIGNAL DUE TO GEOMETRIC IMPROVEMENTS MD 24 &amp; I-95 (K-1-271-000-002)(R2) SWA (11/10/01) 03/07</p> <p>② INSTALL VIDEO DETECTION SHA NO. AT308585 SHA# HA 272A52852 SWA (11/10/01)</p> <p>③ REPLACE EASTBOUND TOLLGATE ROAD LOOP DETECTORS BW998M02 MLH TZ (05/01/02)</p> |

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