

SEARLES ROAD

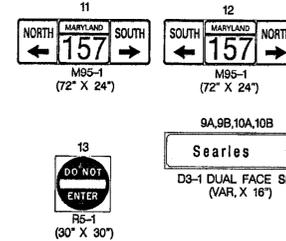
PROPOSED SIGNAL HEADS



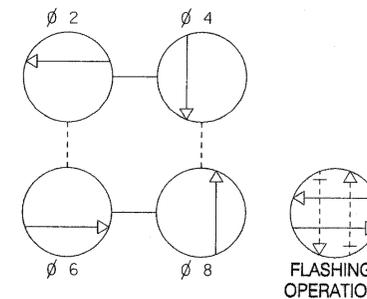
PROPOSED VIDEO DETECTION CAMERAS



PROPOSED SIGNS

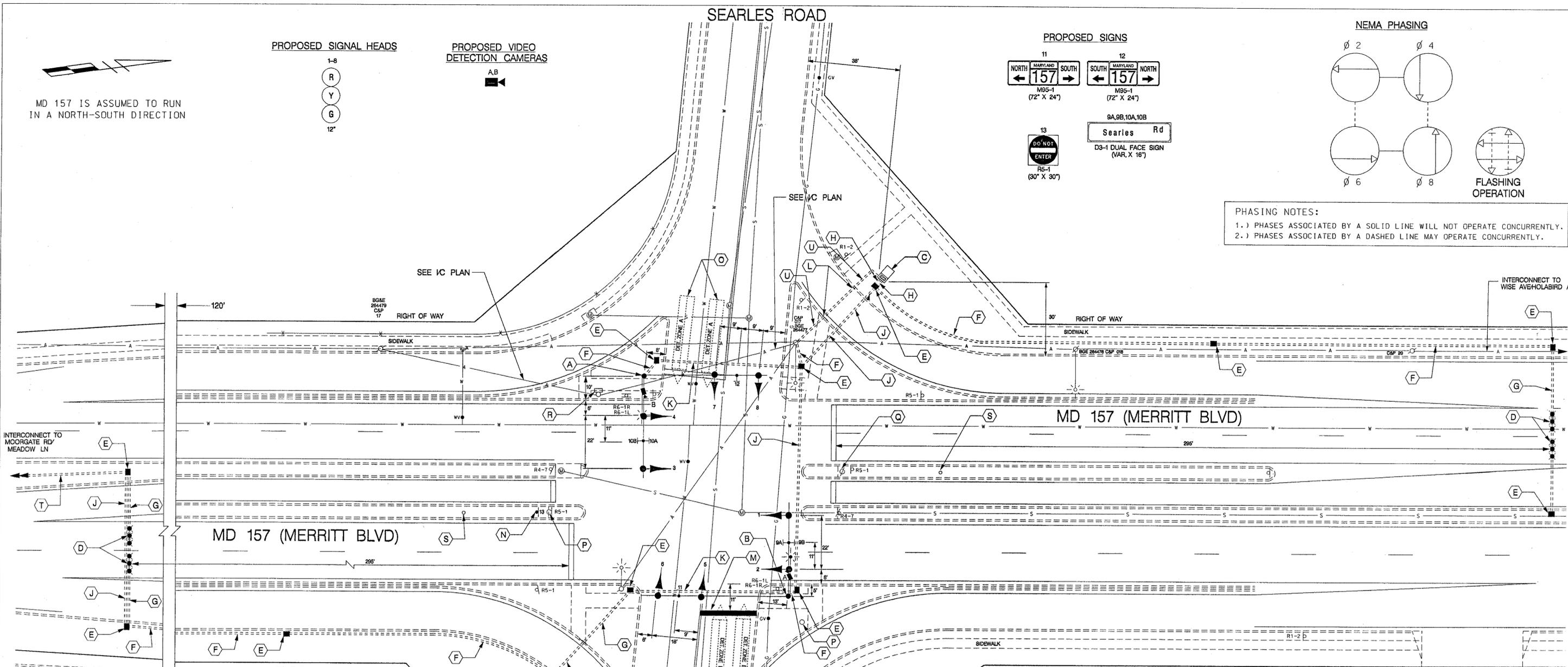


NEMA PHASING



PHASING NOTES:  
 1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.  
 2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

MD 157 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH TWIN 50 FT. 60 FT. MAST ARMS, 15 FT. STREET LIGHTING ARM WITH VIDEO DETECTION CAMERA AND 250 WATT HPS LUMINAIRE, SIGNAL HEADS, AND SIGNS (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS) CUT 50 FT. MAST ARM OVER MD 157 TO 40 FT. IN LENGTH
- B. INSTALL 27 FT. MAST ARM POLE WITH TWIN 50 FT. 60 FT. MAST ARMS, 15 FT. STREET LIGHTING ARM WITH VIDEO DETECTION CAMERA AND 250 WATT HPS LUMINAIRE, SIGNAL HEADS, AND SIGNS (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS) CUT 50 FT. MAST ARM TO 35 FT. IN LENGTH
- C. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH CONTROL AND DISTRIBUTION EQUIPMENT, VIDEO DETECTION INTERFACE EQUIPMENT, AND ALL OTHER NECESSARY SIGNAL EQUIPMENT (NOTE: INSTALL 2-4 IN., 2-2 IN., AND 1-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- D. INSTALL NON-INVASIVE MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
- E. INSTALL ELECTRICAL HANDHOLE
- F. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- G. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
- H. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- J. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
- K. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
- L. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED (FOR ELECTRICAL SERVICE)
- M. INSTALL 24 IN. WHITE HEAT APPLIED, PERMANENT, PREFORMED THERMOPLASTIC PAVEMENT MARKING
- N. INSTALL GROUND MOUNTED R1-8 SIGN ON ONE 4' X 4' WOOD SUPPORT
- O. VIDEO DETECTION ZONE
- P. REMOVE EXISTING STRAIN POLE AND ALL ASSOCIATED SIGNAL EQUIPMENT
- Q. REMOVE EXISTING WOOD POLE AND ALL ASSOCIATED SIGNAL EQUIPMENT
- R. REMOVE EXISTING STRAIN POLE WITH POLE MOUNTED CABINET AND CONTROLLER (SEE IC PLAN)
- S. REMOVE EXISTING HANDHOLE
- T. 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED (SEE IC PLAN)
- U. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED (FOR ELECTRICAL SERVICE)

GENERAL NOTES

1. MAST ARMS SHALL NOT BE CUT UNTIL EXACT SIGNAL HEAD LOCATION HAS BEEN ESTABLISHED.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. LOOP DETECTORS AND CONDUIT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
4. 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 818.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
5. 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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
6. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH PHOTOCCELL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
8. SEE INTERCONNECT PLAN FOR ADDITIONAL INTERCONNECT DETAILS.
9. VIDEO CAMERA LOCATION ALIGNING SHALL BE COORDINATED IN THE FIELD WITH AN SHA ENGINEER.
10. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
11. ABANDON ALL EXISTING DETECTION.

| GEOMETRIC LEGEND |          |
|------------------|----------|
|                  | EXISTING |
|                  | PROPOSED |

| UTILITY LEGEND |                  |
|----------------|------------------|
|                | STORM DRAIN      |
|                | GAS MAIN         |
|                | WATER MAIN       |
|                | SEWER MAIN       |
|                | ELECTRIC CABLES  |
|                | AERIAL CABLES    |
|                | TELEPHONE CABLES |
|                | FIBER-OPTIC      |

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| REVISIONS | APPROVALS |
|-----------|-----------|
|           |           |
|           |           |
|           |           |

**SHA** MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
 Office of Traffic & Safety  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 TRAFFIC SIGNAL PLAN  
**MD 157 AND SEARLES ROAD**

|                         |                      |                   |
|-------------------------|----------------------|-------------------|
| DRAWN BY: M.HOWELL      | F.A.P. NO. N/A       | TS NO. 4340       |
| CHECKED BY: [Signature] | S.H.A. NO. AT3575185 | SHEET NO. 3 OF 5  |
| SCALE: 1" = 20'         | COUNTY: BALTIMORE    | T.I.M.S. NO. 6350 |
| DATE: 8/2004            | LOG MILE:            |                   |