

MD 43 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED VIDEO DETECTION CAMERA

VIDEO ZONE DETECTION

EXISTING SIGNS

EXISTING SIGNALS TO BE REMOVED

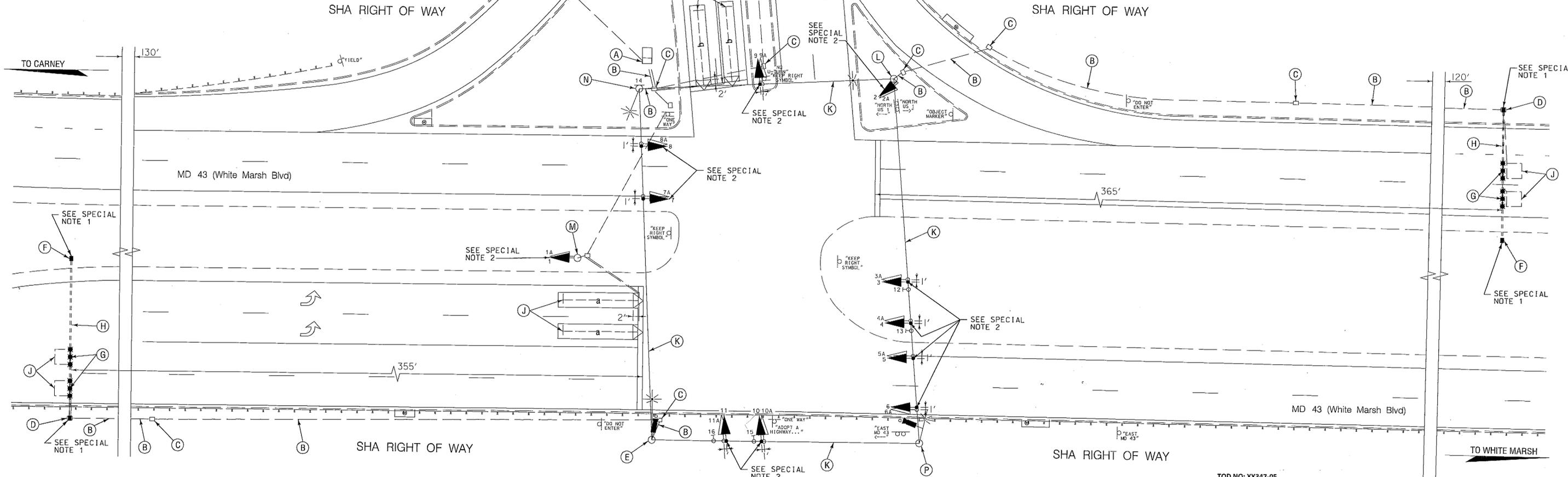
PROPOSED SIGNALS

NEMA PHASING

**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.

NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



**CONSTRUCTION DETAILS**

- A. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT AND THE EXISTING DETECTOR RACK SHALL BE RETROFITTED WITH ONE (1) FOUR-CHANNEL LOOP AMPLIFIER).
- B. USE EXISTING CONDUIT.
- C. USE EXISTING HANDHOLE.
- D. REMOVE EXISTING HANDHOLE AND RE-INSTALL IN-KIND ROTATING HANDHOLE 90 DEGREES TO ROADWAY ON TOP OF EXISTING CONDUIT HEADING EAST/WEST LEAVING 6 IN. PROTRUDING INTO HANDHOLE.
- E. USE EXISTING STRAIN POLE AND INSTALL 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE AND VIDEO DETECTION CAMERA MOUNTED WITHIN 3 FT. OF TOP OF STRAIN POLE AS SHOWN.
- F. INSTALL HANDHOLE.
- G. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT (IN THRU LANES ONLY).
- H. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- J. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- K. USE EXISTING SPAN WIRE AND REMOVE AND INSTALL SIGNAL HEADS AS NOTED.
- L. USE EXISTING STRAIN POLE. INSTALL 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW SIGNAL HEADS AS SHOWN.
- M. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW SIGNAL HEADS AS SHOWN.
- N. USE EXISTING STRAIN POLE.
- P. USE EXISTING STRAIN POLE AND INSTALL VIDEO DETECTION CAMERA MOUNTED ON EXISTING LIGHTING BRACKET.
- Q. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.

TOD NO: XX347-05  
SHA NO: BA952A51/B51  
MD 43; I-695 to Honeygo Boulevard

**SPECIAL NOTES:**

1. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.
2. DISCONNECT EXISTING ELECTRICAL CABLE FROM EXISTING SIGNAL HEADS TO BE REMOVED AND RE-CONNECT TO PROPOSED SIGNAL HEADS. ANY SIGNAL OUTAGE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 43 (White Marsh Boulevard) @ Ramp 'B' From Belair Road  
White Marsh, Maryland

TRAFFIC SIGNALIZATION PLAN			
SCALE: 1" = 20' ADVERTISED DATE: 08/18/2008 CONTRACT NO.: 8-818-502-471			
DESIGNED BY: M.A. MEARS	COUNTY: Baltimore		
DRAWN BY: M.A. MEARS	LOGMILE: 03004302.32		
CHECKED BY: D.J. DODA	TIMS NO.: K348		
F.A.P. NO.:	TOD NO.:		
TS NO. 2514A	DRAWING TSP-1	OF 2	SHEET NO. 1 OF 2

GEOMETRIC LEGEND	UTILITY LEGEND
— EXISTING	— SD — STORM DRAIN
— PROPOSED	— G — GAS MAIN
	— W — WATER MAIN
	— S — SEWER MAIN
	— E — ELECTRIC CABLES
	— T — AERIAL CABLES
	— F — TELEPHONE CABLES
	— F — FIBER-OPTIC

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

APPROVALS AND REVISIONS SECTION WITH SIGNATURES AND DATES.

**WR&A**  
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