

**CONSTRUCTION DETAILS**

- A. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE/TACTILE PUSH BUTTON AND SIGN AND 15' LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE. (NOTE: INSTALL 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BEND).
- B. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, OPTICOM DETECTOR EYE AND 15' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE. (NOTE: INSTALL 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BEND).
- C. INSTALL 10' BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PUSH BUTTON AND SIGN. (INSTALL 1-2" SCHEDULE 80, 90 DEGREE CONDUIT BEND)
- D. INSTALL HANDHOLE.
- E. USE EXISTING HANDHOLE.
- F. ADJUST HANDHOLE TO GRADE.
- G. REMOVE EXISTING HANDHOLE.
- H. CAP AND ABANDON EXISTING CONDUIT. REMOVE ALL UNUSED WIRES.
- J. USE EXISTING CONDUIT.
- K. INSTALL 2 IN. PVC (SCHEDULE 80) ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 3 IN. PVC (SCHEDULE 80) ELECTRICAL CONDUIT - TRENCHED.
- M. INSTALL 4 IN. PVC (SCHEDULE 80) ELECTRICAL CONDUIT - TRENCHED.
- N. INSTALL 4 IN. PVC (SCHEDULE 80) ELECTRICAL CONDUIT - BORED.
- P. INSTALL 4 IN. PVC (SCHEDULE 80) ELECTRICAL CONDUIT - BORED. (STUB UP AT UTILITY POLE AND CAP FOR PROPOSED SERVICE).
- Q. ABANDON EXISTING LOOP DETECTORS AND REMOVE ALL ASSOCIATED WIRING.
- R. REMOVE EXISTING SIDEWALK. INSTALL SIDEWALK, CURB AND GUTTER AS SHOWN. INSTALL CUT-THRU ISLAND OPENING (MD STD 655.21) WITH DETECTABLE WARNING SURFACE (MD STD 655.40).
- S. INSTALL STANDARD SIDEWALK RAMP (MD STD 655.12), WITH BACKER CURB & DETECTABLE WARNING SURFACE. (MD STD 655.40).
- T. INSTALL SIDEWALK, CURB AND GUTTER AND DETECTABLE WARNING SURFACE (MD STD 655.40) AS SHOWN. SEE DETAIL ON SHEET SP-02.
- U. INSTALL 24" HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC MARKING PAVEMENT.
- V. INSTALL NEMA SIZE '6' BASE MOUNTED CABINET AND CONTROLLER AND ALL NECESSARY EQUIPMENT. (NOTE: 2-2" AND 2-4" SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- W. INSTALL EMBEDDED 100 AMP METERED SERVICE PEDESTAL WITH 2-2" AND 1-4" SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
- X. INSTALL NON-INVASIVE PROBES (SET OF 3).
- Y. INSTALL HANDHOLE WITH THE LONG SIDE PERPENDICULAR TO THE ROADWAY AS SHOWN.
- Z. REMOVE EXISTING CABINET AND ALL ASSOCIATED EQUIPMENT.
- AA. REMOVE EXISTING STRAIN POLE/PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT. REMOVE FOUNDATION 12" BELOW GRADE.
- BB. REMOVE PAVEMENT MARKINGS.
- CC. REMOVE CROSS HATCH PAVEMENT MARKINGS FROM CROSSWALK.
- DD. REMOVE LIGHT POLE AND ALL ASSOCIATED EQUIPMENT. (BY OTHERS)
- EE. INSTALL 12" HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC MARKING PAVEMENT.
- FF. INSTALL 5' CONCRETE MEDIAN CUT THRU. (MD STD 655.21).
- GG. INSTALL GROUND MOUNTED SIGN ON 4"x6" WOOD SUPPORT.
- HH. REMOVE ROUTE MARKER SIGN & ARROW. CUT WOOD SUPPORT TO OBJECT MARKER SIGN.
- JJ. REMOVE EXISTING OVERHEAD SERVICE FROM EXISTING STRAIN POLE.
- KK. INSTALL STANDARD SIDEWALK RAMP (MD STD 655.11) & DETECTABLE WARNING SURFACE. (MD STD 655.40).
- LL. USE EXISTING CONDUIT, INTERCONNECT TO COLEBROOKE DR.
- MM. USE EXISTING CONDUIT, INTERCONNECT TO MARLOW HEIGHTS SHOPPING CTR.
- NN. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, OPTICOM DETECTOR EYE COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE/TACTILE PUSH BUTTON AND SIGN AND 15' LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE. (NOTE: INSTALL 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BEND).
- OO. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS AND 15' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE. (NOTE: INSTALL 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BEND).

**GENERAL NOTES:**

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER 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 CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. 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.
8. 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 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

**CONTACTS:**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

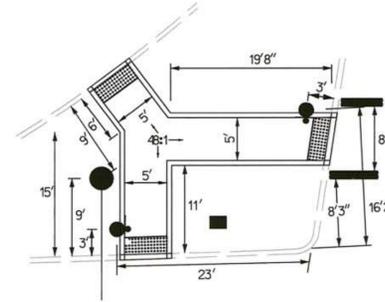
**DISTRICT**

- MR. BRIAN YOUNG  
ASSISTANT DISTRICT ENGINEER  
301-513-7311
- MS. FELECIA MURPHY  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
301-513-7358
- MR. KEVIN NOWAK & MR. DUANE BERNARD  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
301-513-7336
- MR. VERNON STINNETT  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
301-513-7304
- MR. VICTOR GRAFTON  
DISTRICT UTILITIES ENGINEER  
301-513-7350

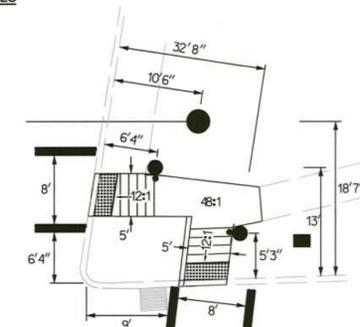
**OFFICE OF TRAFFIC AND SAFETY**

- MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630
- MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7631
- MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
410-787-7650
- MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
410-787-7650
- MR. MICHAEL STOCKER  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

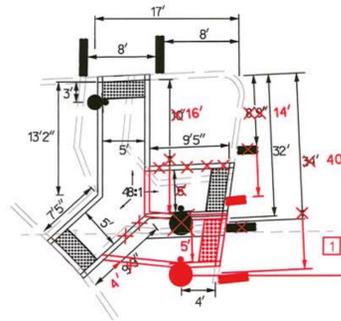
**RAMP/CUT THRU DETAILS**



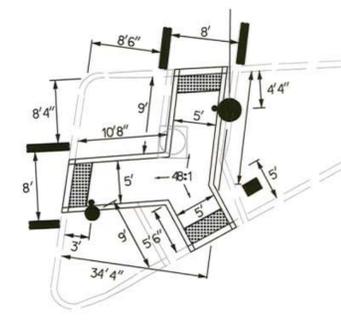
**NE CORNER**



**SE CORNER**



**NW CORNER**



**SW CORNER**

RED LINE - JULY 11, 2011

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 5 (BRANCH AVE.) AND MD 458/IVERSON ST.  
SUITLAND, MARYLAND

**TRAFFIC SIGNAL PLAN**

SCALE 1"=10' DATE 2/28/11 CONTRACT NO. XX3545168R

DESIGNED BY MAW COUNTY PRINCE GEORGE'S  
DRAWN BY MAW LOGMILE 16000514.03  
CHECKED BY KMP TMS NO. K566  
FAP NO. TOD NO.

TS NO. 01E DRAWING SG-02 OF 03 SHEET NO. 2 OF 3

