



- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH A TYPE S BASE MOUNTED CABINET, CONTROLLER, AND UNINTERRUPTIBLE POWER SUPPLY. (NOTE: TWO-4 IN. AND TWO-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS).
 - B. INSTALL 100 AMP METERED SERVICE PEDESTAL. (NOTE: ONE-4 IN. AND TWO-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS).
 - C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 FT. AND 60 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, AND VIDEO DETECTION CAMERAS. (NOTE: ONE-4 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
 - D. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 60 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, AND VIDEO DETECTION CAMERA. (NOTE: ONE-4 IN. AND ONE-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
 - E. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 10 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, AND VIDEO DETECTION CAMERA. (NOTE: ONE-4 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
 - F. INSTALL HANDHOLE.
 - G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - SLOTTED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
 - H. INSTALL NON-INVASIVE PROBES WITH 500 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
 - J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
 - L. REMOVE EXISTING CONCRETE SIDEWALK AT JOINTS. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. COVER WITH NEW 5 IN. SIDEWALK.
 - M. REMOVE EXISTING CONCRETE SIDEWALK AT JOINTS. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. COVER WITH NEW 5 IN. SIDEWALK.
 - N. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - P. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
 - R. REMOVE EXISTING STOP LINE PAVEMENT MARKING AND INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING AT THE SAME LOCATION.
 - S. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
 - T. INSTALL 5 IN. DOUBLE YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKINGS - SOLID.
 - U. INSTALL 5 IN. WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKINGS - 3' LINE, 3' GAP.
 - V. REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
 - W. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
 - X. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
 - Y. USE EXISTING HANDHOLE.
 - Z. USE EXISTING CONDUIT.
 - AA. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
 - BB. INSTALL NON-INVASIVE PROBES WITH 1,000 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
 - CC. USE EXISTING HANDHOLE. PULL BACK EXISTING FIREHOUSE PRE-EMPTION CABLES TO THIS HANDHOLE AND REROUTE TO NEW SIGNAL CABINET.
 - DD. REMOVE EXISTING HANDHOLE AND BACKFILL.
 - EE. CAP AND ABANDON EXISTING CONDUIT.
 - FF. INSTALL GROUND MOUNTED SIGN ON A SINGLE WOOD (4 IN. X 4 IN.) WOOD SUPPORT.
 - GG. INSTALL HANDHOLE WITH LONGER DIMENSION PERPENDICULAR TO THE ROADWAY FOR NON-INVASIVE PROBES.
 - HH. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT.
 - JJ. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
 - KK. VIDEO DETECTION ZONE TO BE ALIGNED BY SHA ENGINEER.
 - LL. REMOVE EXISTING PAVEMENT MARKINGS.
 - NN. REMOVE EXISTING POLE, ELECTRICAL UTILITY SERVICE EQUIPMENT, AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
 - PP. ABANDON EXISTING PROBES.

GEOMETRIC LEGEND

--- EXISTING

UTILITY LEGEND

- SD STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAN SEWER MAIN
- UG ELEC ELECTRIC CABLES
- E AERIAL CABLES
- UG TEL TELEPHONE CABLES
- UG FO FIBER-OPTIC

AERIAL CABLE DETAIL

PRIMARY	36'+
SECONDARY	31'
TELEPHONE	23'-9"
TELEPHONE	21'
COMM.	19'-8"
COMM.	19'-4"
GRADE	

AERIAL CABLE DETAIL (CONT.)

PRIMARY	36'+
SECONDARY	31'
TELEPHONE	23'-9"
TELEPHONE	21'
COMM.	19'-8"
COMM.	19'-4"
GRADE	

SABRA, WANG & ASSOCIATES, INC.
 7055 SAMUEL MORSE DRIVE
 SUITE 100
 COLUMBIA, MD 21046
 (443) 741-3500
 WWW.SABRA-WANG.COM

NOTE: CONTRACTOR SHALL COORDINATE WITH BGE FOR THE REMOVAL OF THE EXISTING OVERHEAD POWER FEED.

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DIVISION

ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION

CHIEF TRAFFIC ENGINEERING DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

REVISIONS

1	© FULL SIGNAL RECONSTRUCTION	06-2012
2	SHA NO. XX6475185 TMS NO. H408	
3	SHA NO. 173-000-000-000	
4	E REPLACE SOUTHBOUND DETECTION DUE TO GEOMETRIC IMPROVEMENTS	3-20-2009
5	SHA NO. BW-998V82	
6	TMZ	DD
7	D REPLACE EB SOLLEY ROAD DETECTION	
8	TMZ	3-18-1999

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION

MD 173 (FORT SMALLWOOD ROAD) AT SOLLEY ROAD
 PASADENA, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 11-01-1988 CONTRACT NO.

DESIGNED BY COUNTY ANNE ARUNDEL

DRAWN BY B. THOMPSON LOGMILE 02017307.60

CHECKED BY TMS NO.

FAP NO. TOD NO.

TS NO. 1669F DRAWING SG-05 OF 15 SHEET NO. 5 OF 15