



- CONSTRUCTION DETAILS**
- A. INSTALL 10 FOOT MINI MAST ARM ON EXISTING SIGNAL POLE. INSTALL PROPOSED SIGNAL HEAD ON 10 FOOT MINI MAST ARM. 10 FOOT MINI MAST ARM SHALL BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR. REMOVE EXISTING SIGNAL HEADS FROM 70 FOOT MAST ARM. INSTALL PROPOSED SIGNAL HEADS ON EXISTING 70 FOOT MAST ARM IN EXISTING SIGNAL HEAD LOCATIONS. INSTALL PROPOSED SIGN ON EXISTING 70 FOOT MAST ARM. USE EXISTING WIRING FOR PROPOSED SIGNALS INSTALLED ON THE 70 FOOT MAST ARM.
 - B. INSTALL A 250 WATT HPS LUMINAIRE ON EXISTING LIGHTING BRACKET ARM. CAMERA 'a' SHALL BE RELOCATED TO A 3 FOOT EXTENSION ARM TO BE MOUNTED ON THE TOP OF THE BRACKET ARM TO PROVIDE THE VIDEO DETECTION CAMERA AN UNOBSTRUCTED VIEW OF THE BROOKE ROAD APPROACH.
 - C. REMOVE EXISTING PAVEMENT MARKING ARROW.
 - D. USE EXISTING HANDHOLE.
 - E. USE EXISTING CONDUIT.
 - F. REMOVE EXISTING TRAFFIC SIGNAL HEADS AND SIGN FROM MAST ARM. INSTALL PROPOSED TRAFFIC SIGNAL HEADS ON EXISTING MAST ARM. PULL BACK AND REROUTE CABLE. INSTALL PROPOSED W3-3(2) SIGN ON EXISTING MAST ARM. PLUG ALL UNUSED HOLES.
 - G. INSTALL TRAFFIC LOGIX SUPER-FLEX REMOVABLE RUBBER CURB OR APPROVED EQUAL. INSTALL IN 39 INCH SECTIONS. EACH UNIT IS BOLTED TO PAVEMENT USING 3 LAG BOLTS EACH 3/8" IN DIAMETER. RUBBER CURB SHALL BE BLACK WITH WHITE REFLECTIVE TAPE. THE SIDE WITH REFLECTIVE TAPE SHALL FACE ROADWAY.
 - H. VIDEO DETECTION ZONE.
 - I. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, EXISTING PUSHBUTTON AND SIGN FROM EXISTING PEDESTAL POLE AND INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). USE EXISTING WIRING.
 - J. REMOVE EXISTING GROUND MOUNTED SIGNS.
 - K. NOSE DOWN RUBBER CURB BY SAWING OR OTHER METHOD. THIS COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE REMOVABLE RUBBER CURB.

- CONSTRUCTION DETAILS (CONT.)**
- L. INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS.
 - M. REMOVE EXISTING TRAFFIC SIGNAL CABINET. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. INSTALL CONTROLLER AND CABINET ON EXISTING CABINET FOUNDATION.
 - N. REMOVE EXISTING PEDESTAL POLE FROM EXISTING TRANSFORMER BASE, PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSHBUTTON AND SIGN. INSTALL 14 FT. PEDESTAL POLE ON EXISTING TRANSFORMER BASE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD (SIDE OF POST MOUNTED), LED TRAFFIC SIGNAL HEAD (POST TOP MOUNTED), APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). USE EXISTING WIRING FOR PEDESTRIAN SIGNAL HEAD AND APS PUSHBUTTON.
 - O. APS PUSHBUTTONS SHALL BE DELIVERED TO KEITH LORD AT MONTGOMERY COUNTY TECHNICAL CENTER FOR PROGRAMMING, SIX WEEKS PRIOR TO THE INSTALLATION DATE.

- GENERAL NOTES**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
 2. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
 3. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
 4. THE CONTRACTOR SHALL CONTACT MR. KAMAL HAMUD FROM MONTGOMERY COUNTY AT (240) 777-8761 72 HOURS PRIOR TO THE BEGINNING OF WORK.

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

MD 108 @ BROOKE RD/MEETING HOUSE RD
SANDY SPRING, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 7/9/2003 CONTRACT NO. XX4445185

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY ROB CICCINI LOGMILE 15010815.79
CHECKED BY R. ZACHERL TMS NO. I-746
FAP NO. _____ TOD NO. _____

TS NO. 4267C DRAWING SG - 1 OF 2 SHEET NO. 1 OF 2

GEOMETRIC LEGEND

--- EXISTING
--- PROPOSED

UTILITY LEGEND

- SD - STORM DRAIN
- G - GAS MAIN
- W - WATER MAIN
- S - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES
- F - FIBER-OPTIC

GENERAL NOTES (CONT.)

5. APS PUSHBUTTONS SHALL BE DELIVERED TO KEITH LORD AT MONTGOMERY COUNTY TECHNICAL CENTER FOR PROGRAMMING, SIX WEEKS PRIOR TO THE INSTALLATION DATE.

Rummel, Klepper & Kahl, LLP
Consulting Engineers Since 1923
81 Mosher Street
Baltimore, Maryland 21217
www.rkk.com
Ph: 410.728.2900 Fax: 410.728.3160

APPROVALS	REVISIONS
TEAM LEADER	C UPGRADE SIGNAL HEADS TO FULL COLOR XX4445185 10-2-08
ASST. DIV. CHIEF	B PED XING SIGNAL AT FIREHOUSE 3-05
DIVISION CHIEF	A INSTALL FIREHOUSE PUSHBUTTON SYSTEM AT 3575185 7-03
OFFICE DIRECTOR	RRZ

APPROVALS	REVISIONS
TEAM LEADER	C UPGRADE SIGNAL HEADS TO FULL COLOR XX4445185 10-2-08
ASST. DIV. CHIEF	B PED XING SIGNAL AT FIREHOUSE 3-05
DIVISION CHIEF	A INSTALL FIREHOUSE PUSHBUTTON SYSTEM AT 3575185 7-03
OFFICE DIRECTOR	RRZ