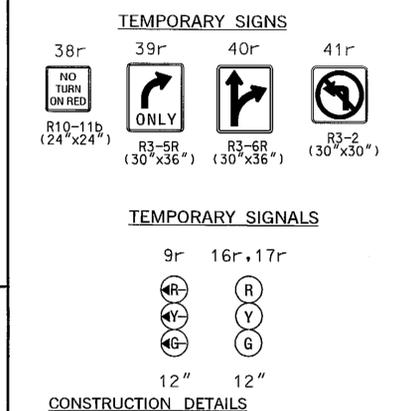
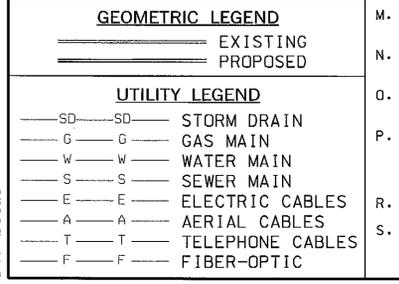


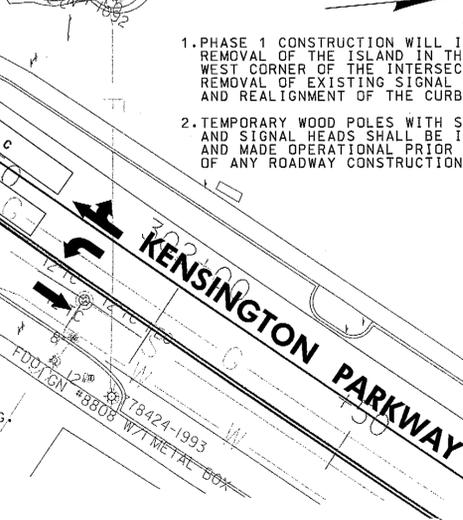
- GENERAL NOTES**
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
  - ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, AND THE HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD STD. 816.03, MD STD. 818.01, MD 818.02, AND MD STD. 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED SIGNAL EQUIPMENT.
  - PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
  - LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.02 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED AND APPROVED BY THE DIRECTOR OF THE OFFICE OF TRAFFIC AND SAFETY.
  - PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE SIDEWALK AND PEDESTRIAN RAMPS, AND THE INSTALLATION OF DETECTABLE WARNING SURFACES.
  - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING UNUSED CABLES FROM EXISTING HANDHOLES AND CONDUITS UTILIZED FOR REVISION 'C'.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND FOR PROPERLY LABELING EACH CABLE.
  - VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
  - THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
  - PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
  - FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLAN. OTHER THAN THOSE DETAILED ON THIS PLAN, ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MD SHA STANDARDS.
  - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
  - GUY TEMPORARY TRAFFIC SIGNAL WOOD POLES AS NECESSARY.



- CONSTRUCTION DETAILS**
- INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, AND 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3 90° PVC BEND) THIS TRAFFIC SIGNAL AND LIGHTING EQUIPMENT WILL BE INSTALLED AND BAGGED AFTER THE COMPLETION OF PHASE 1 ROADWAY WORK.
  - INSTALL 10' PEDESTAL POLE (MD STD. 801.01-01) WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIO PUSHBUTTON AND SIGN (NOTE: 1-2 90° PVC BEND). THIS TRAFFIC SIGNAL EQUIPMENT WILL BE INSTALLED (AND BAGGED) UNTIL AFTER THE COMPLETION OF PHASE 1 ROADWAY WORK.
  - INSTALL 10' PEDESTAL POLE (MD STD. 801.01-01) WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIO PUSHBUTTON AND SIGN (NOTE: 1-2 90° PVC BEND). THIS TRAFFIC SIGNAL EQUIPMENT WILL BE INSTALLED (AND BAGGED) UNTIL AFTER THE COMPLETION OF PHASE 1 ROADWAY WORK.
  - INSTALL ELECTRICAL HANDHOLE.
  - USE EXISTING HANDHOLE.
  - INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
  - INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
  - INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
  - INSTALL 2-4" SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED.
  - INSTALL 40' CLASS II WOOD POLE WITH 3/8" DIA. SPAN WIRE ATTACHED. INSTALL LED TRAFFIC SIGNAL HEADS AND SIGNS. INSTALL 3" WEATHERHEAD AND 3" GALVANIZED RISER FOR CABLES TO RUN DOWN THE POLE AND BE CONNECTED TO 1" STUB OF 3" CONDUIT AT THE POLE BASE. THIS SIGNAL EQUIPMENT WILL BE INSTALLED AND BECOME OPERATIONAL PRIOR TO THE START OF PHASE 1 CONSTRUCTION.
  - INSTALL 40' CLASS II WOOD POLE WITH 3" RISER AND 3/8" DIA. SPAN WIRE ATTACHED FROM POLE "K". INSTALL LED TRAFFIC SIGNAL HEADS, SIGNS AND 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. SIGNAL EQUIPMENT WILL BE INSTALLED AND BECOME OPERATIONAL PRIOR TO THE START OF PHASE 1 CONSTRUCTION.
  - DISCONNECT EXISTING LOOP DETECTOR AND REMOVE ALL UNUSED WIRING.
  - EXISTING CROSSWALK TO BE REMOVED (SEE TRAFFIC CONTROL PLANS).
  - REMOVE EXISTING PEDESTRIAN SIGNAL (# 23) AND PUSHBUTTON FROM EXISTING SIGNAL POLE.
  - REMOVE EXISTING EQUIPMENT AND FOUNDATION 12" BELOW GRADE (PEDESTRIAN POLE PRIOR TO THE START OF PHASE 1; SIGNAL POLE PRIOR TO THE START OF PHASE 2)
  - USE EXISTING CONDUIT.
  - CONNECT TEMPORARY AND PROPOSED EQUIPMENT IN THE EXISTING CONTROLLER CABINET AS REQUIRED DURING PHASE 2 CONSTRUCTION.



- CONSTRUCTION DETAILS (CONT'D.)**
- INSTALL 27' STEEL POLE WITH 70' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS AND SIGNS, 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE, AND SIGNS (NOTE: 1-3 90° PVC BEND).
  - USE EXISTING ELECTRICAL HANDHOLE TO STORE WIRING FOR CONSTRUCTION DETAIL "A" POLE UNTIL ALL CONSTRUCTION IS COMPLETE AND TEMPORARY SIGNAL IS REMOVED. WHEN TEMPORARY SIGNAL IS REMOVED, CONNECT THE PROPOSED SIGNAL WIRING.
  - SEE TCP FOR INSTALLATION OF TEMPORARY PAVEMENT MARKING.
  - INSTALL VIDEO DETECTION CAMERAS ON EXISTING MAST ARM.
  - INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM.
  - DURING THIS PHASE OF CONSTRUCTION THIS PEDESTRIAN RAMP SHALL BE CLOSED TO PEDESTRIAN TRAFFIC.



**PHASE 1**

**SHA** STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION BRAC INTERSECTION IMPROVEMENTS MD 185 (CONNECTICUT AVENUE) AT JONES BRIDGE ROAD AND KENSINGTON PKWY BETHESDA, MD

**CENTURY ENGINEERING**

CONSULTING ENGINEERS - PLANNERS

10710 GILROY ROAD HUNT VALLEY, MD 21031

REVISION 'C' 23299.62

APPROVALS	REVISIONS
TEAM LEADER	ADDENDUM NO. 1 NEW LOCATION FOR TEMPORARY RAMP AND PEDESTRIAN EQUIPMENT IN THE NORTHWEST CORNER ANGLE SB MD 185 WEST SIDE SIGNAL HEAD
ASSY. DIV. CHIEF	ENB [Signature]
DIVISION CHIEF	ROADWAY WIDENING & SIGNAL RECON. SHA # M05935570 102011
OFFICE DIRECTOR	ENB [Signature]
	REBUILD TO MAST ARMS ADD SAMPLING STATIONS M-600-501-372

MOT PHASE 1 - TRAFFIC SIGNAL PLAN			
SCALE: 1" = 20' ADVERTISED DATE: JUNE 1990 CONTRACT NO. BW-339-802-312			
DESIGNED BY	R. J. MILSTEAD	COUNTY	MONTGOMERY
DRAWN BY	J. Y. ASHCRAFT	LOGMILE	15018502.22
CHECKED BY		TIMS NO.	
F.A.P. NO.	SEE TITLE SHEET	TOD NO.	
TS NO. 2649C	DRAWING SG-01.1 OF 12	SHEET NO. 101 OF 123	