

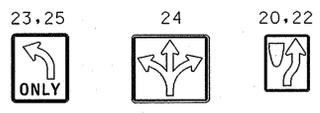


MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

**PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN**



**EXISTING SIGNS TO REMAIN**



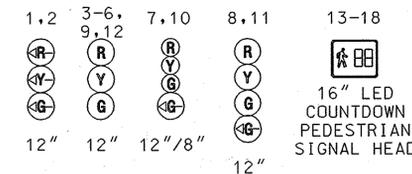
**EXISTING SIGNALS TO BE REMOVED**



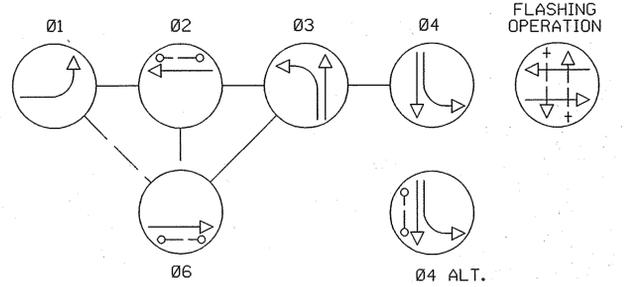
**EXISTING SIGNS TO BE REMOVED**



**EXISTING SIGNALS**



**NEMA PHASING**



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

**CONSTRUCTION DETAILS**

- (A) INSTALL 10 FT BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION AND PEDESTRIAN EDUCATION SIGN (NOTE: 1-3 IN. PVC CONDUIT BEND).
- (B) INSTALL 5 FT STUB BREAKAWAY PEDESTAL POLE WITH AUDIBLE PUSHBUTTON STATION AND PEDESTRIAN EDUCATION SIGN (NOTE: 1-3 IN. PVC CONDUIT BEND).
- (C) INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION AND PEDESTRIAN EDUCATION SIGN.
- (D) INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD.
- (E) REMOVE PEDESTRIAN SIGNAL HEAD, PUSHBUTTON STATION, PEDESTRIAN EDUCATION SIGN AND RELATED ATTACHMENTS.
- (F) USE EXISTING NEMA EIGHT-PHASE, FULL-TRAFFIC ACTUATED CONTROLLER WITH TELEMETRY IN EXISTING BASE MOUNTED CABINET.
- (G) INSTALL ELECTRICAL HANDHOLE.
- (H) USE EXISTING ELECTRICAL HANDHOLE.
- (J) INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- (K) USE EXISTING ELECTRICAL CONDUIT.
- (L) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03) AS SHOWN IN INSET-1.
- (M) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03) AS SHOWN IN INSET-2.
- (N) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03) AS SHOWN IN INSET-3.
- (O) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP (SHA STANDARD NO. MD 655.11) WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03).
- (P) REMOVE EXISTING SIDEWALK AND RAMP.
- (Q) REMOVE EXISTING PAVEMENT MARKING.
- (R) INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.

**GENERAL NOTES**

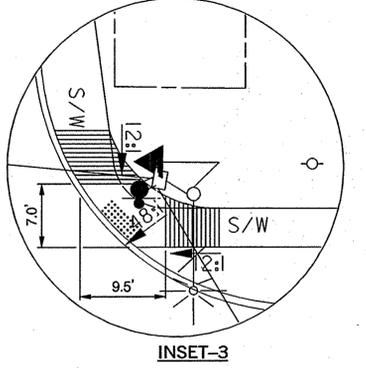
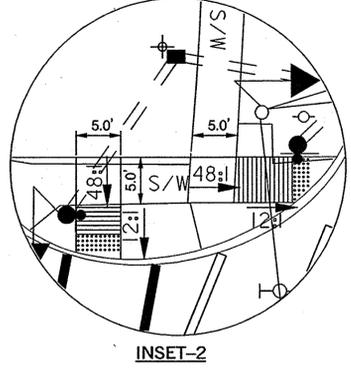
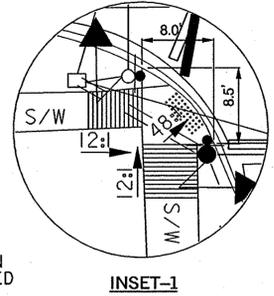
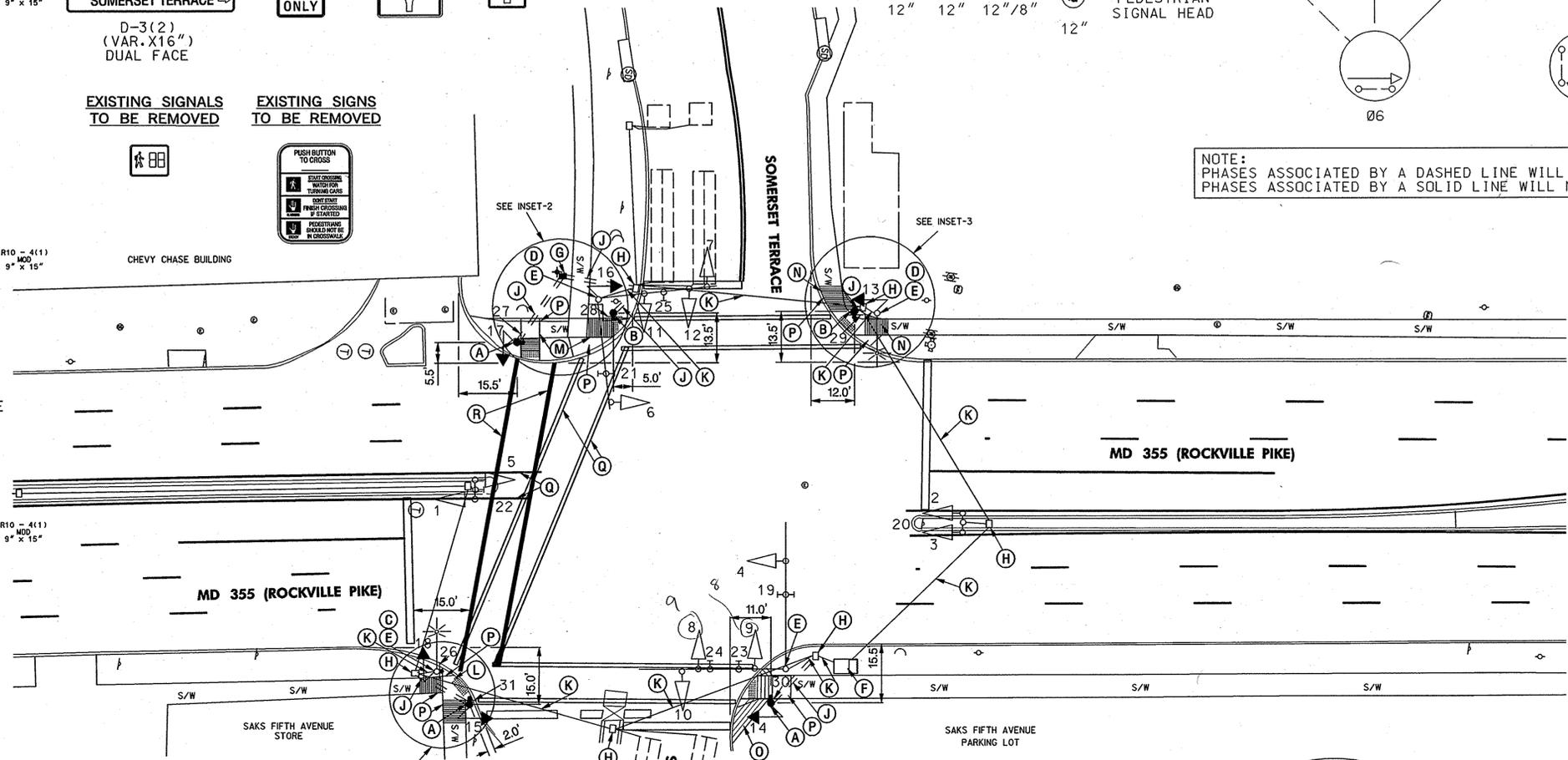
1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL PAVEMENT MARKINGS DETAILED ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
4. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
5. 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 AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. 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.

**GENERAL NOTES (CONTD.)**

7. ACCESSIBLE PEDESTRIAN PUSH BUTTONS SHALL BE DELIVERED TO MR. KEITH LORD AT 301-279-1291 AT THE MONTGOMERY COUNTY TECHNICAL CENTER FOR PROGRAMMING PRIOR TO BEGINNING WORK AT THE INTERSECTION.
8. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7682.
9. PLEASE CONTACT MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION TRAFFIC MANAGEMENT CENTER AT 240-777-2100 (72) HOURS PRIOR TO MARKING UNDERGROUND SIGNAL EQUIPMENT.
10. POLES ARE TO BE LOCATED SO THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" X 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA, DOES NOT HAVE TO REACH MORE THAN 18 IN.

**GENERAL NOTES (CONTD.)**

12. THE 10 FT SEPERATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON.
13. IF THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST BE CHANGED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO OBTAIN APPROVAL FOR THE NEW LOCATION TO ENSURE MUTCD SECTION 4E.09 & FIG. 4E-2 REQUIREMENTS ARE MET. ALL WORK MUST BE HALTED UNTIL THE PROJECT ENGINEER HAS OBTAINED AN APPROVED LOCATION OR IF NECESSARY A DESIGN WAIVER IS OBTAINED.



GEOMETRIC LEGEND	
	EXISTING
	PROPOSED

UTILITY LEGEND	
	STORM DRAIN
	GAS MAIN
	WATER MAIN
	SEWER MAIN
	ELECTRIC CABLES
	AERIAL CABLES
	TELEPHONE CABLES
	FIBER-OPTIC

BY: apowell

APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>① MAY 2007 INSTALL APS/LPS SHA#AT9105185 HD   AP   [Signature]   [Signature]   [Signature]</p> <p>② INSTALL NEW PED POLE, SIDEWALK RAMPS, REDLINE</p>

**Edwards and Kelcey**  
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 Suite 110  
 Baltimore, Maryland 21228  
 410-747-3420

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 MD 355 (ROCKVILLE PIKE) AT SOMERSET TERRACE  
 INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS

TRAFFIC SIGNAL PLAN			
SCALE	1" = 20'	DATE	9/24/06
CONTRACT NO.	BW-881-801-912	DESIGNED BY	XXX
COUNTY	MONTGOMERY	DRAWN BY	RWS, EBB
LOGMILE	15035500.33	CHECKED BY	XXX
TMS NO.	G-362	FAP NO.	XXX
TOD NO.		TS NO.	2061 B
DRAWING	TS-1	OF	1
SHEET NO.	1	OF	2