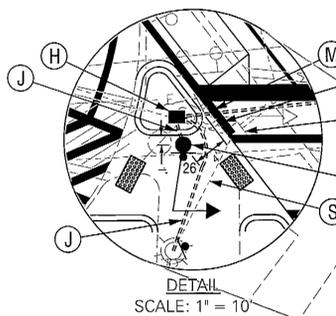
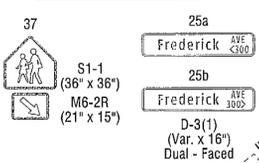


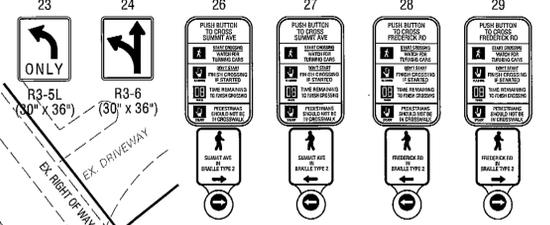
MD 355 (S FREDERICK AVE) IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.



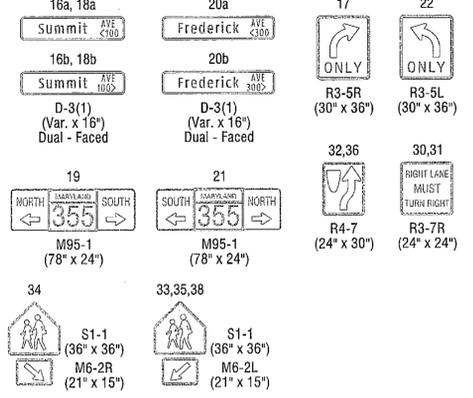
EXISTING SIGN TO BE RELOCATED



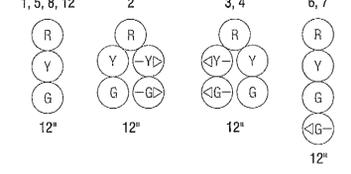
PROPOSED SIGNS



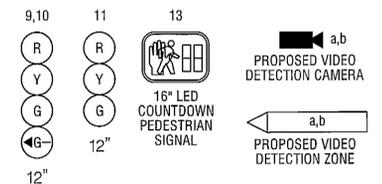
EXISTING SIGNS



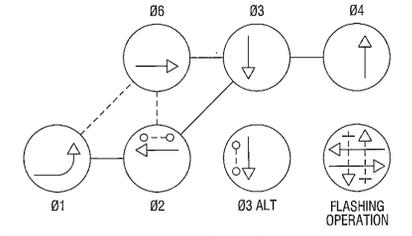
EXISTING SIGNALS



PROPOSED SIGNALS



NEMA PHASING



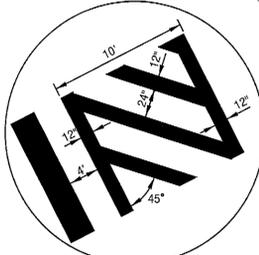
NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH 10" STEEL PEDESTAL POLE WITH BREAKAWAY BASE, APS PUSH BUTTON AND SIGN. RELOCATE COUNTDOWN PEDESTRIAN SIGNAL AS SHOWN. (NOTE: INSTALL 1 - 2" PVC SCHEDULE 80 CONDUIT BEND.)
- B. INSTALL CONCRETE FOUNDATION WITH 5" STEEL PEDESTAL POST WITH BREAKAWAY BASE, APS PUSH BUTTON AND SIGN. (NOTE: INSTALL 1 - 2" PVC SCHEDULE 80 CONDUIT BEND.)
- C. INSTALL TRAFFIC SIGNAL HEAD ON EXISTING SPAN WIRE AS SHOWN.
- D. REMOVE EXISTING TRAFFIC SIGNAL HEAD.
- E. INSTALL OVERHEAD VIDEO DETECTION CAMERA ON EXISTING STEEL POLE AS SHOWN.
- F. INSTALL TRAFFIC SIGN ON EXISTING SPAN WIRE AS SHOWN.
- G. INSTALL NEW HANDHOLE.
- H. INTERCEPT EXISTING CONDUIT AND INSTALL HANDHOLE.
- J. INSTALL 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- K. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- L. DISCONNECT EXISTING PEDESTRIAN SIGNAL CABLES AND PULL BACK TO THIS HANDHOLE. RE-FEED CABLES THROUGH CONDUIT TO NEW HANDHOLE AS SHOWN.
- M. RELOCATE EXISTING PEDESTRIAN SIGNAL TO NEW PEDESTAL POLE LOCATION AS SHOWN (SEE CONSTRUCTION DETAIL A). THEN REMOVE EXISTING POLE AND FOUNDATION 12' BELOW GRADE AND BACKFILL.
- N. REMOVE EXISTING TRAFFIC SIGN FROM EXISTING SPAN WIRE.
- O. RELOCATE EXISTING TRAFFIC SIGNS TO EXISTING SPAN WIRE LOCATION AS SHOWN.
- P. DISCONNECT EXISTING LOOP DETECTOR CABLES AND ABANDON. CAP AND ABANDON DETECTOR LEAD-INS. REMOVE EXISTING HANDHOLE.
- R. RELOCATE EXISTING GROUND MOUNTED SIGN AND INSTALL ON 4" X 4" WOOD POST TO LOCATION SHOWN.
- S. CAP & ABANDON EXISTING CONDUIT.
- T. USE EXISTING CABINET AND CONTROLLER. (NOTE: MONTGOMERY COUNTY DOT SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT.)
- U. USE EXISTING HANDHOLE.
- V. USE EXISTING CONDUIT.
- W. USE EXISTING STEEL STRAIN POLE.
- X. USE EXISTING SPAN WIRE.
- Y. INSTALL 5" HEAT-APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.
- Z. INSTALL 5" HEAT-APPLIED, DOUBLE YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.
- AA. INSTALL 12" HEAT-APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- BB. INSTALL 24" HEAT-APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- CC. INSTALL HEAT-APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR ARROW / LETTERS.
- DD. INSTALL DETECTABLE WARNING SURFACE IN ACCORDANCE WITH SHA STD 655.40.
- EE. INSTALL 10" HEAT-APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR EDGE LINE.
- FF. REMOVE EXISTING PAVEMENT MARKING LINE.
- GG. REMOVE EXISTING GROUND MOUNTED SIGN AND POST.
- HH. INSTALL NEW GROUND MOUNTED SIGN.
- JJ. REMOVE EXISTING PUSH BUTTON AND SIGN. INSTALL APS PUSHBUTTON AND SIGN AS SHOWN.
- KK. INSTALL CONCRETE FOUNDATION WITH 10" STEEL PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL, APS PUSH BUTTON AND SIGN. (NOTE: INSTALL 1 - 2" PVC SCHEDULE 80 CONDUIT BEND.)

GENERAL NOTES

1. 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 THE CONFLICT MAY BE RESOLVED.
2. THE CONTRACTOR IS RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES AND VIDEO DETECTION CONTROL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS. CONTACT THE SIGNAL OPERATIONS SUPERVISOR AT LEAST 72 HOURS PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
4. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTION, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD STD 818.01, MD STD 818.02 AND MD STD 818.03. THE CONTRACTOR SHALL VERIFY ALL GRADES PRIOR TO INSTALLATION OF SIGNAL EQUIPMENT.
6. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
7. PUSH BUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
8. THE 10" SEPARATION BETWEEN PUSH BUTTONS IS TO BE MEASURED FROM FACE OF PUSH BUTTON TO FACE OF PUSH BUTTON, NOT CENTER TO CENTER OF POLE.
9. PUSH BUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING IN WHICH THEY ARE INTENDED FOR.
10. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2, AND THE NCHRP PUBLICATION, ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSH BUTTON LOCATIONS UNTIL AN APPROVED DESIGN WAIVER IS OBTAINED BY THE DIRECTOR OF OFFICE AND TRAFFIC SAFETY.
11. ALL PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS. ALL CROSSWALKS SHALL BE CENTERED ON HANDICAP RAMPS OR MEDIAN CUT-THROUGHS. ERADICATE EXISTING CONFLICTING PAVEMENT MARKINGS. CIVIL PLANS PROVIDING CURB RAMP DETAILS PREPARED BY GUTSCHICK, LITTLE & WEBER, P.A.
12. THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR FROM DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THE TIME FRAME, THESE PLANS SHALL BECOME NULL AND VOID WITHOUT A RE-REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.



BY: WELLS + ASSOCIATES, INC.

GEOMETRIC LEGEND	
	Existing
	Proposed

UTILITY LEGEND	
	Storm Drain
	Gas Main
	Water Main
	Sewer Main
	Electrical Cables
	Aerial Cables
	Telephone Cables
	Fiber-Optic

WELLS + ASSOCIATES, INC
TRANSPORTATION, TRAFFIC AND PARKING CONSULTANTS
5 Wit Street SW, Suite 300, Leesburg, Virginia 20175
Phone: 703-443-1442 Facsimile: 703-443-1225
1420 Spring Hill Road, Suite 800, McLean, Virginia 22102
Phone: 703-917-6820 Facsimile: 703-917-0739

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
**MD 355 (S FREDERICK ROAD)
AT SUMMIT AVENUE**
GAITHERSBURG, MARYLAND

APPROVALS	REVISIONS	SCALE	DATE	CONTRACT NO.																
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