

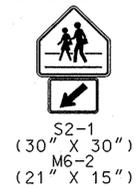


U.S. 29 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

**CONSTRUCTION DETAILS**

- A. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM.
- B. INSTALL DETECTION RACK AND VIDEO DETECTION INTERFACE EQUIPMENT AND AUDIBLE/TACTILE PEDESTRIAN BASE UNIT INTO EXISTING CABINET.
- C. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- D. VIDEO DETECTION ZONE.
- E. USE EXISTING CONDUIT.
- F. USE EXISTING HANDHOLE. ADJUST EXISTING HANDHOLE TO GRADE WHERE REQUIRED.
- G. REMOVE EXISTING SIGNS AND SUPPORT. INSTALL NEW SIGNS ON ONE 4 IN. X 4 IN. WOOD POST.
- H. REPLACE EXISTING POLE MOUNTED SIGN WITH A NEW SIGN AS SHOWN.
- J. REMOVE EXISTING M6-2 AND S2-1 SIGNS AND EXISTING SUPPORT. RELOCATE OTHER EXISTING SIGNS ONTO NEW 4 IN. X 4 IN. WOOD SUPPORT WITH PVC SLEEVE AND INSTALL NEW SIGNS AS SHOWN.
- K. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- L. INSTALL 5 FOOT PEDESTAL POLE, APS PEDESTRIAN PUSHBUTTON AND SIGNS (ORIENTED PARALLEL WITH THE EXISTING CROSSWALK). CUT, CLEAN, GALVANIZE AND CAP POLE.
- M. REMOVE EXISTING PUSHBUTTON AND SIGN; INSTALL APS PEDESTRIAN PUSHBUTTON AND SIGNS (ORIENTED PARALLEL WITH THE EXISTING CROSSWALK); PLUG UNUSED HOLES IN THE EXISTING POLE.
- N. REMOVE EXISTING PUSHBUTTON AND SIGN. PLUG ALL UNUSED HOLES IN THE EXISTING POLE.
- P. REMOVE AND RESET BRICK PAVERS. (SEE CONTRACT DOCUMENTS FOR INSTALLATION DETAILS AND QUANTITIES)
- Q. REMOVE EXISTING HANDHOLE. REMOVE EXISTING CABLES AND CAP AND ABANDON EXISTING CONDUIT.
- R. REMOVE AND RESET BRICK PAVERS. REPLACE EXISTING SIDEWALK, INSTALL PEDESTRIAN RAMPS AND INSTALL CURB & GUTTER. (SEE CONTRACT DOCUMENTS FOR INSTALLATION DETAILS AND QUANTITIES)

27, 29, 32, 36



S2-1  
(30" X 30")  
M6-2  
(21" X 15")

30



S2-1  
(30" X 30")  
M6-2  
(21" X 15")  
R3-3(2)  
(24" X 24")

31, 35



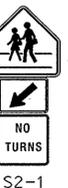
S2-1  
(30" X 30")  
M6-2  
(21" X 15")  
R4-7  
(24" X 30")

33



S2-1  
(30" X 30")  
M6-2  
(21" X 15")  
R3-3  
(24" X 24")

34



S2-1  
(30" X 30")  
M6-2  
(21" X 15")  
R3-3  
(24" X 24")

38



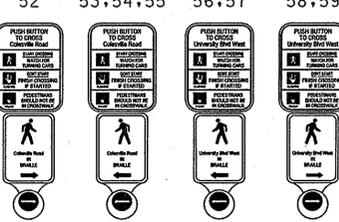
S2-1  
(30" X 30")  
M6-2  
(21" X 15")

**EXISTING SIGNS TO BE REMOVED OR RELOCATED**

**WESTBOUND MD 193 (UNIVERSITY BLVD WEST)**

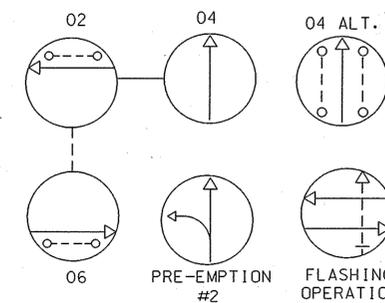
**PROPOSED AUDIBLE PUSHBUTTON AND SIGN**

52 53, 54, 55 56, 57 58, 59



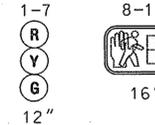
R10-4(1)  
9"x12"

**NEMA PHASING**



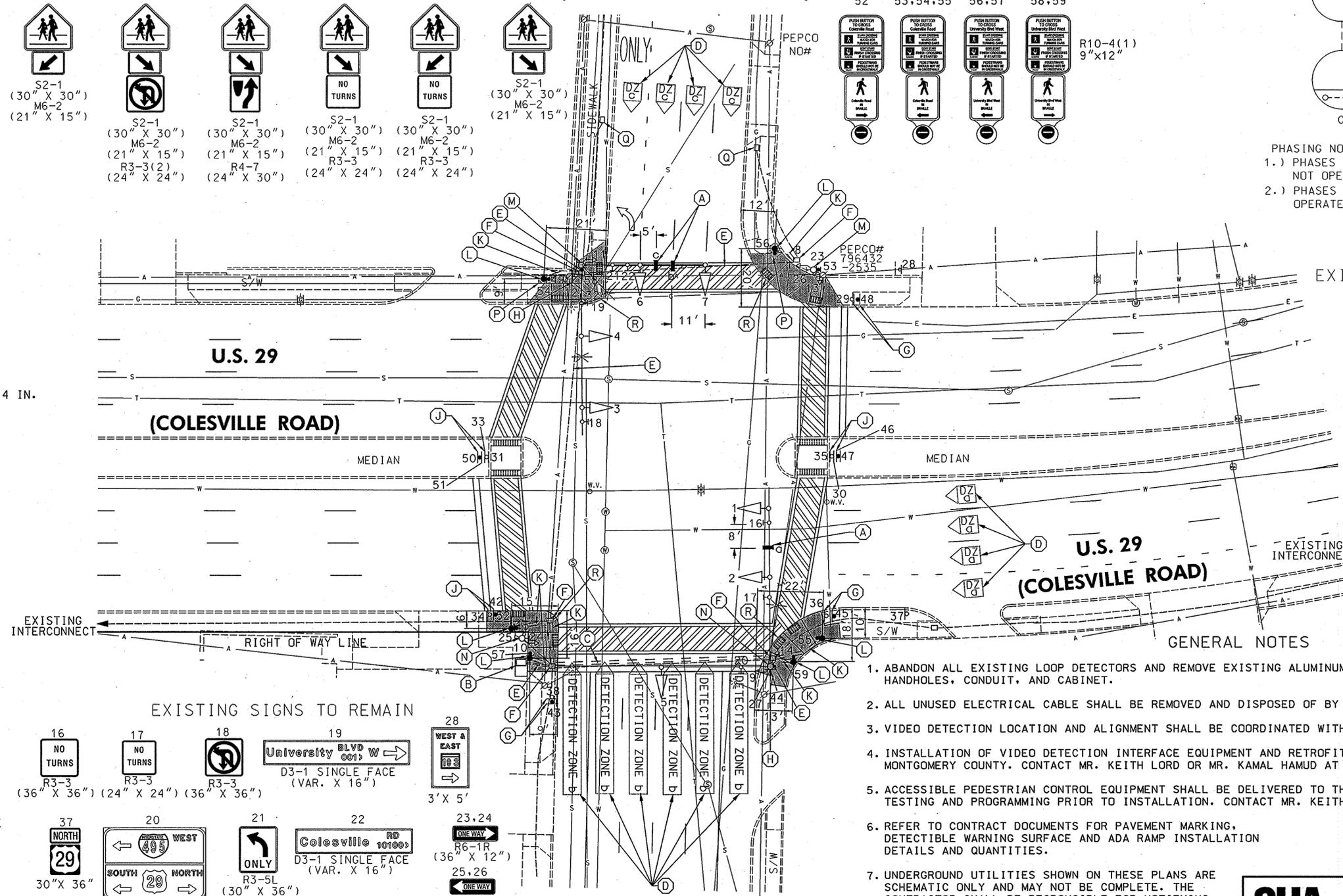
- PHASING NOTES:**
- 1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
  - 2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

**EXISTING SIGNALS TO REMAIN**

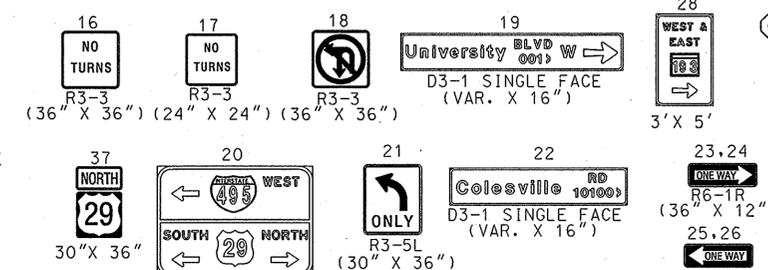


**PROPOSED VIDEO DETECTION CAMERA**

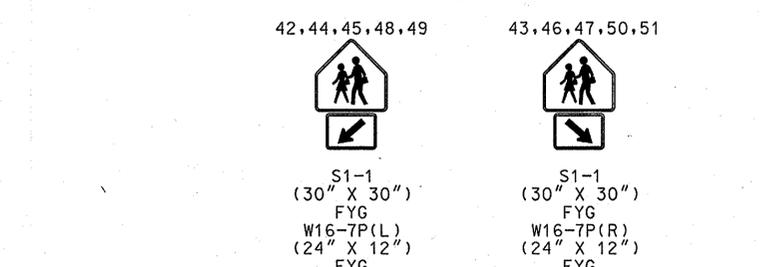
a, b, c  
CONTROL CABLE LENGTH  
a - 250 FOOT  
b - 250 FOOT  
c - 250 FOOT



**EXISTING SIGNS TO REMAIN**



**PROPOSED SIGNS**



**WESTBOUND MD 193 (UNIVERSITY BLVD WEST)**

- GENERAL NOTES**
1. ABANDON ALL EXISTING LOOP DETECTORS AND REMOVE EXISTING ALUMINUM SHIELDED 2-CONDUCTOR CABLE FROM HANDHOLES, CONDUIT, AND CABINET.
  2. ALL UNUSED ELECTRICAL CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  3. VIDEO DETECTION LOCATION AND ALIGNMENT SHALL BE COORDINATED WITH MONTGOMERY COUNTY ENGINEER.
  4. INSTALLATION OF VIDEO DETECTION INTERFACE EQUIPMENT AND RETROFITTING OF RACKS WILL BE PERFORMED BY MONTGOMERY COUNTY. CONTACT MR. KEITH LORD OR MR. KAMAL HAMUD AT 240-777-8795.
  5. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE MONTGOMERY COUNTY SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. KEITH LORD TO COORDINATE AT 301-279-1291.
  6. REFER TO CONTRACT DOCUMENTS FOR PAVEMENT MARKING, DETECTABLE WARNING SURFACE AND ADA RAMP INSTALLATION DETAILS AND QUANTITIES.
  7. 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.

**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

ADDENDUM NO. 1  
NEW SHEET

**RUMMEL, KLEPPER & KAHL, LLP**  
CONSULTING ENGINEERS  
81 MOSHER STREET  
BALTIMORE, MARYLAND 21217  
TEL: (410) 728-2900 FAX: (410) 383-3270

**APPROVALS**

TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

**REVISIONS**

02/2006	INSTALL VIDEO DETECTION CAMERAS AND APS PUSHBUTTONS.
02/2006	INSTALL COUNTDOWN PDS
08/3/2005	REPLACED EXISTING SIGNAL HEADS WITH BLACK FACE SIGNAL HEADS

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20'	DATE 10/19/95	CONTRACT NO. M425-502-370
DESIGNED BY	COUNTY	MONTGOMERY
DRAWN BY ZAJ	LOGMILE	10552902.72
CHECKED BY	TIMS NO.	H053
FAP NO.	TOD NO.	M4502370
TS NO. 487E	DRAWING	OF
	SHEET NO.	1 OF 10

PLOTTED: 04/27/05  
FILE: 0518