

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
973004	1 EA	SIZE 'S' CABINET WITH CONTROLLER AND VIDEO INTERFACE EQUIPMENT; I-8 CAMERAS
973023	170 SF	SHEET ALUMINUM GROUND MOUNTED SIGN
		11 EA - S1-1 (36 IN. X 36 IN.)
		4 EA - S4-4(2) (36 IN. X 15 IN.)
		4 EA - W16-7pL (24 IN. X 12 IN.) FYG
		3 EA - W16-7pR (24 IN. X 12 IN.) FYG
		2 EA - R4-7 (24 IN. X 30 IN.)
		1 EA - R3-18 (36 IN. X 36 IN.)
		1 EA - R10-7 (24 IN. X 30 IN.)
		1 EA - M3-4 *WEST* (24 IN. X 12 IN.)
		1 EA - M4-5 (INTERSTATE) *TO* (24 IN. X 12 IN.)
		1 EA - M1-1 *I-270* (30 IN. X 24 IN.)
		1 EA - M1-5 *MD 28* (24 IN. X 24 IN.)
		1 EA - M5-2 (15 IN. X 21 IN.)
		1 EA - M5-2 (INTERSTATE) (15 IN. X 21 IN.)
973023	161 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
		4 EA - R10-3(1) (9 IN. X 15 IN.) *PUSH BUTTON TO CROSS ROCKVILLE PIKE*
		2 EA - R10-3(1) (9 IN. X 15 IN.) *PUSH BUTTON TO CROSS RICHARD MONTGOMERY DRIVE*
		2 EA - R10-3(1) (9 IN. X 15 IN.) *PUSH BUTTON TO CROSS DODGE STREET*
		2 EA - R3-5L (30 IN. X 36 IN.)
		2 EA - D-3(1) (96 IN. X 16 IN.) *ROCKVILLE PIKE* (DUAL FACED)
		1 EA - R3-18 (36 IN. X 36 IN.)
		1 EA - R3-5R (30 IN. X 36 IN.)
		1 EA - R3-5(a) (30 IN. X 36 IN.)
		1 EA - D-3(1) (120 IN. X 16 IN.) *RICHARD MONTGOMERY DR* (DUAL FACED)
		1 EA - D-3(1) (96 IN. X 16 IN.) *DODGE ST* (DUAL FACED)
		1 EA - M1-5(6) (30 IN. X 48 IN.) *SOUTH, MD 355, RIGHT ARROW*
		1 EA - M1-5(6) (48 IN. X 72 IN.) *NORTH, MD 355, LEFT ARROW*
		1 EA - M1-5(6) (30 IN. X 48 IN.) *NORTH, MD 355, RIGHT ARROW*
		1 EA - M1-5(6) (48 IN. X 72 IN.) *SOUTH, MD 355, LEFT ARROW*

EQUIPMENT LIST 'A1'

EQUIPMENT TO BE FURNISHED BY MONTGOMERY COUNTY.

CATEGORY CODE	QUANTITY	DESCRIPTION
NONE.		

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	4 CY	TEST PIT EXCAVATION
585621	1,225 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	155 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
801004	16 CY	CONCRETE FOR SIGNAL FOUNDATION
801106	285 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
801711	111 SF	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS
802145	2 EA	ADJUST EXISTING HANDHOLE
802501	580 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802570	50 LF	ELECTRICAL CABLE I-CONDUCTOR #2/0 AWG CABLE
805118	300 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805125	85 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	75 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	120 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807500	1 EA	EMBEDDED METERED SERVICE PEDESTAL
810022	25 LF	ELECTRICAL CABLE I-CONDUCTOR NO. 8 AWG-THHN/THWN
811001	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
811002	5 EA	REMOVE ELECTRICAL HANDHOLE
813014	170 SF	INSTALL GROUND MOUNTED SIGN
813015	161 SF	INSTALL OVERHEAD SIGN
813023	10 SF	RELOCATE EXISTING GROUND MOUNTED SIGNS
816002	3 EA	IP-BASED VIDEO DETECTION CAMERA AND ANY LENGTH LEAD-IN CABLE
818004	6 EA	10 FOOT BREAKAWAY PEDESTAL POLE
818010	1 EA	14 FOOT BREAKAWAY PEDESTAL POLE
818036	4 EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
822002	200 LF	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
837001	8 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	47 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860285	8 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
861105	1,255 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1,375 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	2,110 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
865210	8 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
865300	1 EA	2 WIRE APS CENTRAL CONTROL UNIT
871202	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
873002	1 LS	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
NONE.		

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- 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, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL INTEGRATE PROPOSED/EXISTING CONCRETE FOUNDATIONS WITH NEW CURB/SIDEWALK RAMP WHERE NECESSARY. THE FOUNDATIONS SHALL BE FLUSH WITH AND PART OF THE FINAL CURB OR SIDEWALK GRADE TO INCREASE ACCESSIBILITY FOR PEDESTRIANS.
- THE MONTGOMERY COUNTY SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMPS.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND 4E.10 AND FIG. 4E.3 AND 4E.4; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 IN. X 60 IN. LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- PUSHBUTTON ARROWS ARE TO BE TURNED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
- ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK CONSTRUCTION.
- ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE MONTGOMERY COUNTY SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. KAMAL HAMUD AT 240-777-8761 TO COORDINATE.
- 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.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
- THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL.
- DISCONNECTING AND SPLICING OF INTERCONNECT CABLES IN THE TRAFFIC SIGNAL CABINETS SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN INTERCONNECT CABLES INTO THE CABINET AND PROPERLY LABEL THEM. CONTACT MR. KAMAL HAMUD AT 240-777-8761 FORTY EIGHT (48) HOURS IN ADVANCE PRIOR TO INSTALLING INTERCONNECT CABLES.
- TREES SHALL BE SUFFICIENTLY TRIMMED IN THE SOUTHEAST QUADRANT OF THE INTERSECTION BY SHA MAINTENANCE FORCES TO PROVIDE ADEQUATE VISIBILITY FOR THE CPS SIGNAL HEAD NO. 16 INSTALLED IN THE QUADRANT.
- REFER TO THE DETAIL SHEETS IN THE ROADWAY PLANS FOR PROPOSED RAMPS.
- THE CONTRACTOR SHALL REFER TO FIGURE 3D-200 OF THE 2011 MARYLAND M.U.T.C.D. FOR CROSSWALK PAVEMENT MARKING DETAIL.
- THE CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AT 240-777-8761 OF THE MONTGOMERY COUNTY DOT SEVENTY TWO (72) HOURS PRIOR TO CONSTRUCTION.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (ROCKVILLE PIKE) AT
DODGE STREET / RICHARD MONTGOMERY DRIVE
ROCKVILLE, MD

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 10/2013 CONTRACT NO. M01315477

DESIGNED BY SKG OF STV COUNTY MONTGOMERY
DRAWN BY SKG OF STV LOGMILE 15038509.05
CHECKED BY SDY OF STV TMS NO. L765
F.A.P. NO. TOD NO.

TS NO. 49C-GI DRAWING SG-03 OF 05 SHEET NO. OF

BY: atonjk -

STV Incorporated
7125 Ambassador Road, Suite 200
Baltimore, MD 21244
www.stvinc.com