

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING INTERSECTION TRAFFIC CONTROL SIGNAL AT MD 214 AND MD 468. THE REPLACEMENT IS DUE TO NEW GEOMETRIC MODIFICATION TO MD 214 DURING THE CONSTRUCTION OF AADPW CONTRACT H512801. MD 214 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH MD 214 APPROACHES RUNNING CONCURRENTLY. THE MD 468 APPROACH WILL OPERATE AS A SEPARATE PHASE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED EIGHT-PHASE CONTROLLER WITH INTERSECTION MONITOR AND BATTERY BACK-UP FOR PHONE DROP TELEMETRY MODULE AND ISOLATION BOARD HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

PROJECT CONTACTS

MRS. KIMBERLY A. TRAN
ASSISTANT DISTRICT
ENGINEER - TRAFFIC
(410) 841-1019

MR. JOE HORTY
DISTRICT UTILITY ENGINEER
(410) 841-1040

MR. JOHN MAYS
ASSISTANT DISTRICT
ENGINEER - MAINTENANCE
(410) 841-1013

MR. JAMES FOLDEN
ASSISTANT DISTRICT
ENGINEER - CONSTRUCTION
(410) 841-1031

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
DIVISION
(410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS :

BALTIMORE GAS ELECTRIC COMPANY
MR. MIKE MALIZEWSKI
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
(410) 859-9043
WMS# 1137685

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND SALVAGED BY THE CONTRACTOR. THE EQUIPMENT SHALL BE DELIVERED TO 7491 CONNELLY DRIVE, HANOVER, MD, 21076. (NOTIFY AT LEAST 72 HOURS PRIOR TO INTENDED DELIVER AT (410) 787-7658.)

CAT. CODE	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	POLE MOUNTED CABINET WITH CONTROLLER

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

QUANTITY	UNIT	DESCRIPTION
1	EA	FOUR CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIER
1	EA	EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED WITH VIDEO INTERFACE EQUIPMENT
111	SF	SHEET ALUMINUM SIGNS TO CONSIST OF: - 2 EA R3-5L (30" X 36") MAST ARM MOUNTED - 3 EA D3-2 (VARIES X 16") MAST ARM MOUNTED - 1 EA ASSEMBLY (48" X 75") GROUND MOUNTED - "SOUTH MD 468" - 1 EA ASSEMBLY (48" X 75") POLE MOUNTED - "WEST MD 214" - 1 EA ASSEMBLY (30" X 51") GROUND MOUNTED - "EAST MD 214" - 1 EA ASSEMBLY (30" X 51") GROUND MOUNTED - "SOUTH MD 468"

EQUIPMENT LIST "B"

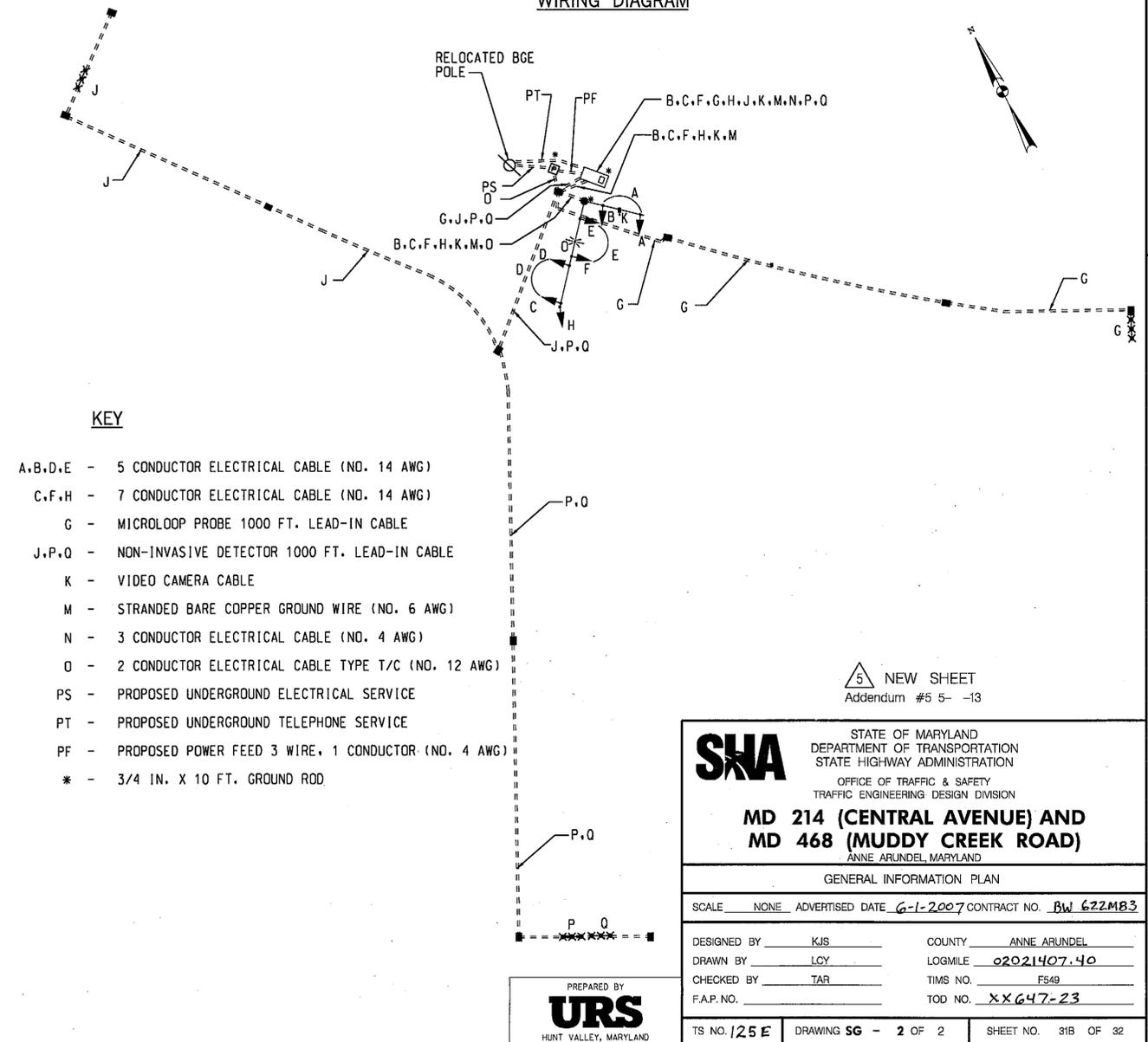
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
2006	4	CY	TEST PIT EXCAVATION
5012	60	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8002	1	LS	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT
8003	5	CY	CONCRETE FOR SIGNAL FOUNDATION
8006	68	SF	INSTALL OVERHEAD SIGN
8008	43	SF	INSTALL GROUND MOUNT SIGN
8007	26	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8029	870	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8031	15	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	140	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8025	88	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8032	35	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	202	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8028	27	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8009	10	LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR
8010	1	EA	MICROLOOP PROBE, 1000 FT. LEAD-IN CABLE
8011	11	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8013	1	EA	VIDEO DETECTION CAMERA
8014	1	EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8016	1	EA	STEEL POLE WITH 50 FT/60 FT MAST ARM
8018	3	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8001	15	LF	SAW CUT FOR SIGNAL
8020	21	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8021	1	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8022	150	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8023	340	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8004	1	EA	20FT LIGHT ARM
8017	1	EA	250W HIGH PRESS SOD LAMP & LUM W/ PHOTO CELL
8024	75	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
8005	53	LF	F & I 4" X 6" BREAKAWAY WOOD POST
8034	1	EA	INSTALL BASE MOUNTED CONTROLLER AND CABINET
8035	3	EA	NON-INVASIVE DETECTOR, 1000 FT. LEAD-IN CABLE
8036	1	EA	200 AMP METERED SERVICE PEDESTAL

PHASE CHART

	1	2	3	4	5	6	7	
	(R) (Y) (G)							
PHASE 2 & 6	G	G	G	G	R	R	R	←
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	→
PHASE 4	R	R	R	R	G	G	G	↻
4 CHANGE	R	R	R	R	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	↔

WIRING DIAGRAM



NEW SHEET
Addendum #5 5- -13

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 214 (CENTRAL AVENUE) AND
MD 468 (MUDDY CREEK ROAD)**
ANNE ARUNDEL, MARYLAND

GENERAL INFORMATION PLAN

SCALE NONE ADVERTISED DATE 6-1-2007 CONTRACT NO. BW 622MB3

DESIGNED BY KJS COUNTY ANNE ARUNDEL
DRAWN BY LCY LOGMILE 02021407.40
CHECKED BY TAR TMS NO. F549
F.A.P. NO. TOD NO. XX647-23

TS NO. 125 E DRAWING SG - 2 OF 2 SHEET NO. 31B OF 32

PREPARED BY
URS
HUNT VALLEY, MARYLAND