PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF ACCESIBLE SIGNAL PEDESTRIAN EQUIPMENT AT THE INTERSECTIONS OF MD 214 (CENTRAL AVENUE) AND MARYLAND PARK DR./CROWN STREET, MD 214 (CENTRAL AVENUE) AND ADDISON PLAZA/MD 332 SPUR, MD 214 (CENTRAL AVENUE) AND ADDISON ROAD, AND MD 214 (CENTRAL AVENUE) AND CINDY LANE. IN PRINCE GEORGES COUNTY, MARYLAND. MD 214 (CENTRAL AVENUE) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING CABINET AND CONTROLLER SHALL BE USED.

PROJECT CONTACTS FOR SHA

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. BRIAN YOUNG, PRINCE GEORGES
PHONE: (301) 513-7404
ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH
DISTRICT UTILITY ENGINEER
PHONE: (301) 513-7350

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

EQUIPMENT LIST "B"

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

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	15 C.Y.	TEST PIT EXCAVATION
585620	1950 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585624	550 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
801004	17 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801106	18 L.F.	WOOD SIGN SUPPORTS (4 IN. x 6 IN.)
802501	235 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805011	35 L.F.	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805125	20 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	350 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	20 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805150	190 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805155	65 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805160	60 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810555	3 EACH	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
810601	3 EACH	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
810605	9 EACH	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	5 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	20 S.F.	INSTALL OVERHEAD SIGN
813015	44 S.F.	INSTALL GROUND MOUNTED SIGN
816001	4 EACH	VIDEO DETECTION CAMERA
816005	2 EACH	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816010	2 EACH	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
818004	17 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
837001	17 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
861107	4160 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861105	3760 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
862101	3450 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	900 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
869101	575 L.F.	STEEL SPAN WIRE - 1/4 INCH DIAMETER
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	20 EACH	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	20 EACH	AUDIBLE/ TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	4 EACH	AUDIBLE/TACTILE PEDETRIAN PUSHBUTTON BASE UNIT
800000	11 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE

EQUIPMENT LIST "A"

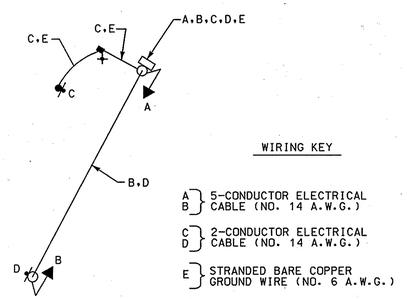
A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE	QUANTITY	DESCRIPTION
90000	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
973023	182 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 20 EACH R10-3(1) (9 IN. X 15 IN.) - MAST ARM MOUNT - 4 EACH W11-2 (36 IN. x 36 IN.) - GROUND MOUNT - 4 EACH W16-7P (24 IN. x 12 IN.) - GROUND MOUNT - 2 EACH ASSOCIATED SHIELD ASSEMBLY "EAST, MD 214, RIGHT ARROW" (30"X51") - 2 EACH ASSOCIATED SHIELD ASSEMBLY "WEST, MD 214, RIGHT ARROW" (30"X51") - 2 EACH ASSOCIATED SHIELD ASSEMBLY "WEST, MD 214, LEFT ARROW" (48"X75") - 1 EACH ASSOCIATED SHIELD ASSEMBLY "EAST, MD 214, RIGHT ARROW" (48"X75")

EQUIPMENT LIST "C"

ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

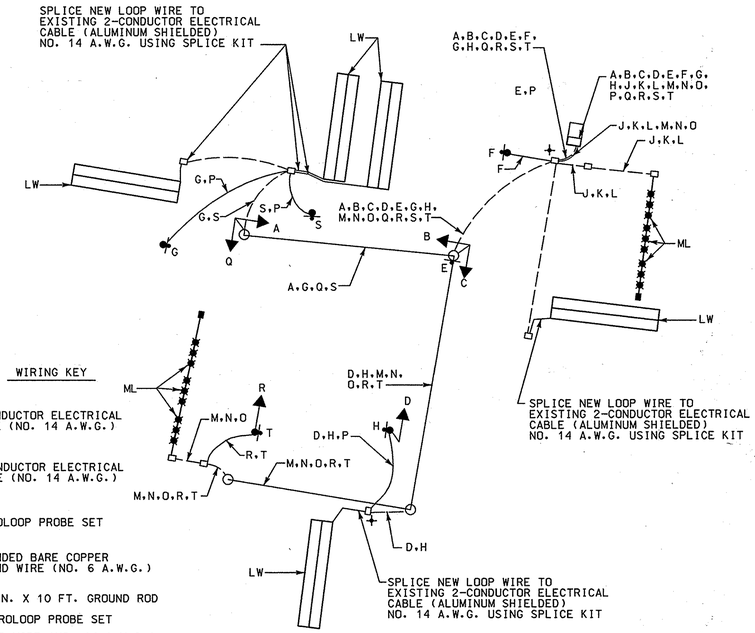
WIRING DIAGRAMS



WIRING KEY

A, B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C, D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
+ - 3/4 IN. X 10 FT. GROUND ROD

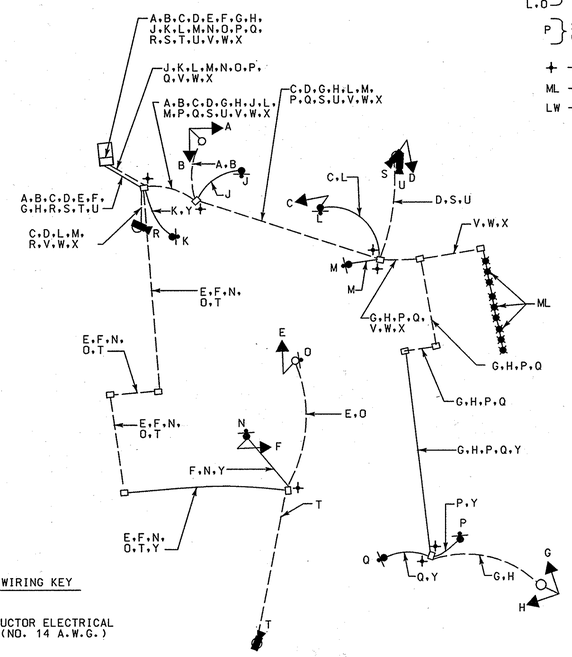
MD 214 (CENTRAL AVENUE) AND CROWN STREET/MARYLAND PARK DRIVE



WIRING KEY

A, B, C, D, Q, R } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E, F, G, H, S, T } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
J, K, L } MICROLOOP PROBE SET
M, N, O } MICROLOOP PROBE SET
P } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
+ - 3/4 IN. X 10 FT. GROUND ROD
ML - MICROLOOP PROBE SET
LW - LOOP WIRE (NO. 14 A.W.G.)

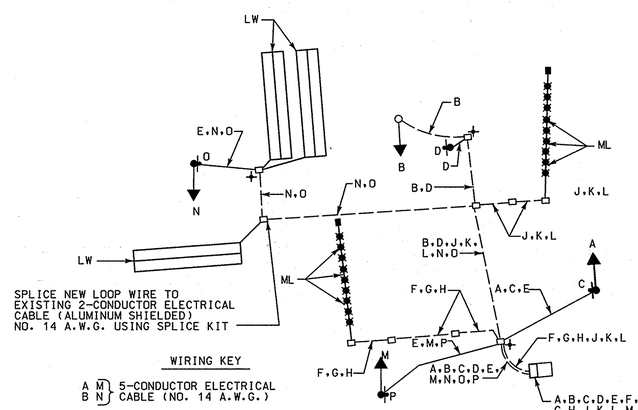
MD 214 (CENTRAL AVENUE) AND ADDISON PLAZA/MD 332 SPUR



WIRING KEY

A, B, C, D, E, F, G, H } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
J, K, L, M, N, O, P, Q } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
R, S, T, U } VIDEO CAMERA DETECTION LEAD-IN CABLE
V, W, X } MICROLOOP PROBE LEAD-IN
Y } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
+ - 3/4 IN. X 10 FT. GROUND ROD
ML - MICROLOOP PROBE SET
LW - LOOP WIRE (NO. 14 A.W.G.)

MD 214 (CENTRAL AVENUE) AND ADDISON ROAD



WIRING KEY

A, M, B, N } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C, O, D, P } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
F, J, G, K, H, L } MICROLOOP PROBE LEAD-IN
+ - 3/4 IN. X 10 FT. GROUND ROD
ML - MICROLOOP PROBE SET
LW - LOOP WIRE (NO. 14 A.W.G.)

MD 214 (CENTRAL AVENUE) AND CINDY LANE

TSP-5

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

MD 214 (Central Avenue) from
D.C. Line to Cindy Lane

GENERAL INFORMATION SHEET

WR&A
Whitman, Requardt and Associates, LLP
Engineers, Architects and Planners
801 South Caroline Street
Baltimore, Maryland 21231
410-235-3450

SCALE	1" = 20'	DATE	3/12/07
CONTRACT NO.	PG5695177		
DESIGNED BY	B. Donoway	COUNTY	Prince Georges
DRAWN BY	B. Donoway	LOGMILE	
CHECKED BY	N.Leary	TIMS NO.	I528
FAP NO.	SEE TITLE SHEET	TOD NO.	
TS NO.		DRAWING TSP-5	OF TSP-5
SHEET NO.	OF		

PLOTTED: Tuesday, November 13, 2007 at 3:55:04 PM
FILE: p5G-N005_md214.dgn

BY: syoung2