PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL FOR STAGE VI OF THE MAINTENANCE OF TRAFFIC PLANS AT THE INTERSECTION OF MD 212 (POWDER MILL ROAD) AND CHERRY HILL ROAD IN PRINCE GEORGE'S COUNTY. MD 212 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

DURING STAGE VI, THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, PRE-TIMED MODE WITH THE MD 212 APPROACHES OPERATING CONCURRENTLY AND THE CHERRY HILL ROAD APPROACHES OPERATING WITH SPLIT PHASES.

EXCLUSIVE LEFT-TURN PHASING IS PROVIDED FOR BOTH EASTBOUND AND WESTBOUND MD 212.

AN ALTERNATE PEDESTRIAN PHASE EXISTS ACROSS THE EAST LEG OF MD 212. PEDESTRIAN INDICATIONS EXIST TO CROSS THE NORTH LEG OF CHERRY HILL ROAD.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-12
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)
STANDARD NO. MD-104.37-01 (LEFT-LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT-LANE CLOSURE)
STANDARD NO. MD-104.34-01 (LANE SHIFT)
STANDARD NO. MD-104.32-02 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. CHARLES WATKINS
DISTRICT ENGINEER
PHONE: (301) 513-7311

MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. JOE GECKLE
DISTRICT UTILITIES ENGINEER
PHONE: (301) 513-7350

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
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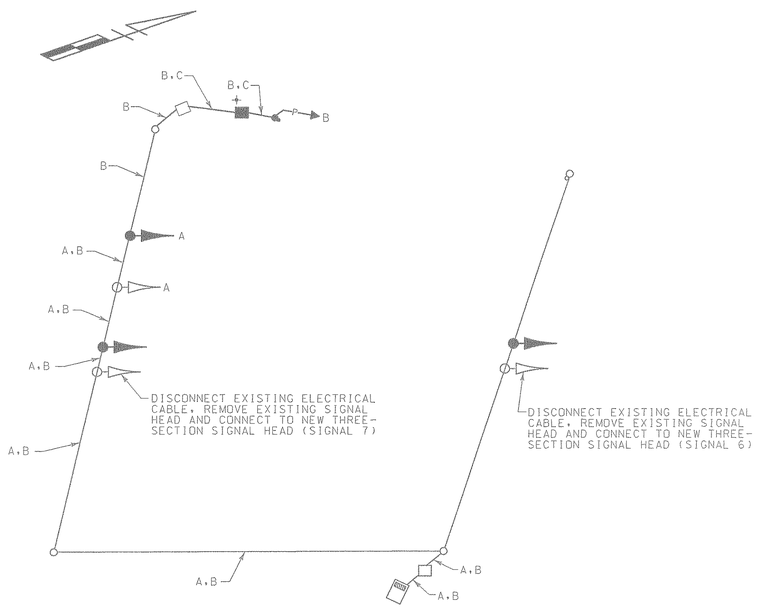
WIRING DIAGRAM



WIRING KEY

A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

B } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C } STRANDED BARE COPPER GROUND LINE (NO. 6 A.W.G.)

+ 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

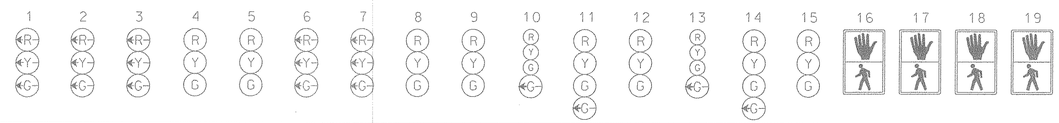
CATEGORY CODE NO.	QUANTITY	DESCRIPTION
960002	1 EACH	12 IN., ONE-WAY, THREE-SECTION (R,Y,G) TRAFFIC SIGNAL HEAD - SPAN MOUNT.
960003	2 EACH	12 IN., ONE-WAY, THREE-SECTION (RA,YA,GA) TRAFFIC SIGNAL HEAD - SPAN MOUNT.
960048	1 EACH	12 IN., ONE-WAY, TWO-SECTION PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT.

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
120500	LUMP SUM	MAINTENANCE OF TRAFFIC
120610	1 U.D.	ARROW PANEL
203030	1 C.Y.	TEST PIT EXCAVATION
800000	LUMP SUM	REMOVAL AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT
800000	4 EACH	INSTALL SIGNAL HEAD ANY TYPE
800000	20 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	1 EACH	FURNISH AND INSTALL 10 FT. BREAKAWAY PEDESTAL POLE
801004	1 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
802501	60 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
805155	90 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT - SLOTTED
805160	30 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
837001	1 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FT. LENGTH
860265	3 EACH	RELOCATE EXISTING SIGNAL HEADS
861106	470 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
861107	330 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
800000	11 S.F.	RELOCATE EXISTING SIGNS ON SPAN WIRE

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 + 5	←G—	←G—	←G—	R	R	←G—	←G—	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6																		
PHASE 1 + 6	←G—	←G—	←G—	G	G	←R—	←R—	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 6 CHANGE	←Y—	←Y—	←Y—	G	G	←R—	←R—	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 5	←R—	←R—	←R—	R	R	←G—	←G—	G	G	R	R	R	R	R	R	WK	WK	DW	DW
2 + 5 CHANGE	←R—	←R—	←R—	R	R	←Y—	←Y—	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PHASE 2 + 6	←R—	←R—	←R—	G	G	←R—	←R—	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	←R—	←R—	←R—	G	G	←R—	←R—	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	←R—	←R—	←R—	Y	Y	←R—	←R—	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	←R—	←R—	←R—	R	R	←R—	←R—	R	R	R	R	R	←G/G—	←G/G—	G	DW	DW	DW	DW
3 CHANGE	←R—	←R—	←R—	R	R	←R—	←R—	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
PHASE 4	←R—	←R—	←R—	R	R	←R—	←R—	R	R	←G/G—	←G/G—	G	R	R	R	DW	DW	DW	DW
4 CHANGE	←R—	←R—	←R—	R	R	←R—	←R—	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4 ALT.	←R—	←R—	←R—	R	R	←R—	←R—	R	R	←G/G—	←G/G—	G	R	R	R	DW	DW	WK	WK
PED. CLEARANCE	←R—	←R—	←R—	R	R	←R—	←R—	R	R	←G/G—	←G/G—	G	R	R	R	DW	DW	FL/DW	FL/DW
4 ALT. CHANGE	←R—	←R—	←R—	R	R	←R—	←R—	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	←FL/R—	←FL/R—	←FL/R—	FL/Y	FL/Y	←FL/R—	←FL/R—	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

STAGE VI (TSP-10)

REVISIONS

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 212 (POWDER MILL ROAD) AT CHERRY HILL ROAD

DRAWN BY: K.LITZ	F.A.P. NO.		TS NO. TS-1923D	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO. PG 244 5171			
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES		T.I.M.S. NO.	66 OF
DATE: 7-1-99	LOG MILE:			