PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF COUNTDOWN PEDESTRIAN SIGNAL HEADS AND APS PUSHBUTTONS FOR THE NORTH & EAST LEGS OF THE INTERSECTION.
MD 212 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR THE WEST LEG OF THE INTERSECTION. A CONCURRENT PEDESTRIAN PHASE WILL BE ADDED FOR THE NORTH LEG OF THE INTERSECTION. AN ALTERNATE AND ADVANCED ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED FOR THE EAST LEG.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. A 2-WIRE CENTRAL CONTROL UNIT SHALL BE FURNISH BY THE CONTRACTOR AND INSTALLED BY SHA.

SPECIAL NOTE

APS WILL FUNCTION AS FOLLOWS:

TO CROSS POWDER MILL ROAD:

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS POWDER MILL AT RIGGS, CROSSWALK ANGLES RIGHT. WAIT."
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OFTHE WALK PHASE.

TO CROSS RIGGS ROAD:

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS RIGGS AT POWDER MILL. WAIT."
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MS. FELECIA MURPHY
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (301)513-7358

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (301)513-7304

MR. VICTOR GRAFTON
UTILITY ENGINEER
PHONE: (301)513-7350

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

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

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF
TRAFFIC OPERATIONS
(410)787-7630

MR. ED RODENHEIZER
CHIEF, SIGNAL OPERATIONS
(410)787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
(410)787-7676

WIRING KEY

A,C,E,G	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
B,D,F,H	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	PS	EXISTING POWER SOURCE
✖	PROPOSED GROUND ROD		

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
900000	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN 4 - R10-3(1) (9"X15")	SF	4
900000	SHEET ALUMINUM GROUND MOUNTED SIGN 1 - M1-5(6) (48"X72")	SF	24

EQUIPMENT LIST "B"

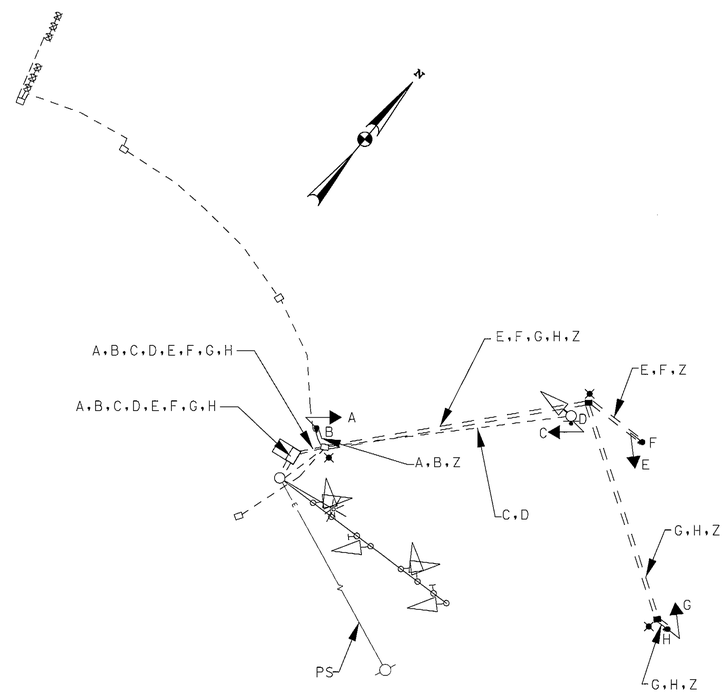
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
1002	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH	LF	50
2002	TEST PIT EXCAVATION	CY	3
5005	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	210
8001	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EA	4
8002	AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGN	EA	4
8003	BREAKAWAY PEDESTAL POLE - ANY SIZE	EA	3
8005	REMOVE & DISPOSE PER ASSIGNMENT	EA	1
8007	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	140
8008	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	40
8011	ADJUST EXISTING HANDHOLE	EA	1
8012	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	200
8013	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	2
8014	INSTALL GROUND MOUNTED SIGN	SF	28
8017	GROUND ROD -3/4INCH DIAMETER X 10 FOOT LENGTH	EA	3
8019	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	410
8020	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	430
NEG	WOOD SIGN SUPPORTS 4" X 6"	LF	36

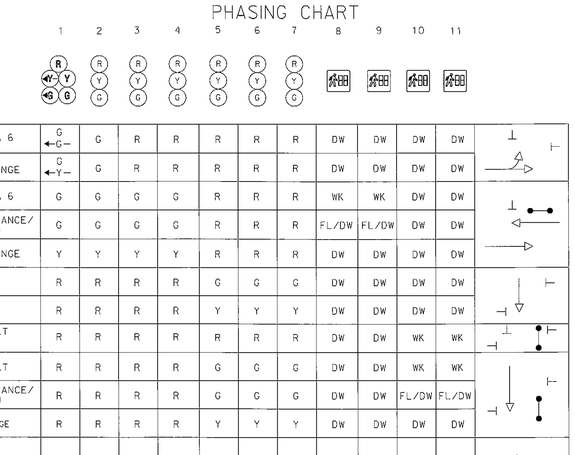
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

ALL MATERIALS AND EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASING CHART



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
3. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
4. 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.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK GRADE.
6. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
7. LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET THE LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: 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.
8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM 60"X60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
9. 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".
10. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
11. SIGNS INSTALLED IN CONCRETE SIDEWALKS SHALL HAVE SLEEVED FOUNDATIONS PER STANDARDS MD 812.05-01 AND MD 812.05-02. SLEEVED FOUNDATION SHALL BE INCIDENTAL TO WOOD SIGN SUPPORTS.

BY: BJG

RK&K
Rummel, Klepper & Kahl, LLP
81 MOSHER STREET | BALTIMORE, MD 21217
PH: (410) 728-2500 FAX: (410) 728-3160
Engineers Construction Managers Planners Scientists
www.rkk.com

REVISIONS

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

MD 212 (RIGGS ROAD) AT POWDER MILL ROAD
HILLANDALE, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE JUNE 2011 CONTRACT NO. AX6445178

DESIGNED BY NTS COUNTY PRINCE GEORGE'S
DRAWN BY NTS LOGMILE 16021205-41
CHECKED BY BJG TIMS NO. L025
FAP NO. TOD NO.

TS NO. 483H-GI | DRAWING SP-2 OF 2 | SHEET NO. 10 OF 10

PLOTTED: Friday, June 17, 2011 AT 11:57 AM
FILE: \\Fldkm\v2008\2008\08148_toddes\Task 49_MD 212 at Powder Mill Rd\CADD\pSG-0002_MD212@PowderMillRd.dgn