PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF US 29 ON/OFF RAMPS AT RANDOLPH ROAD/CHERRY HILL ROAD INTERCHANGE IN MONTGOMERY COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PEOPLE FOR THIS PROJECT ARE AS FOLLOWS:

   MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER-TRAFFIC
   PHONE: (301) 513-7300
   MR. DENNIS McMAHAN, ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
   PHONE: (301) 513-7336
   MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER-MAINTENANCE
   PHONE: (301) 513-7300
   MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER-UTILITY
   PHONE: (310) 513-7300
   MR. RICHARD L. DAFF, Sr., CHIEF TRAFFIC OPERATIONS DIVISION
   PHONE: (410) 787-7630
   MR. BOBBY GONZALES, TRAFFIC ENGINEER MCDPWT
   PHONE: (240) 777-8761
   MR. MIKE KINNEY, MCDPWT (FOR SURVEILLANCE CAMERA)
   PHONE: (240) 777-8760

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

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CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	FLAT SHEET ALUMINUM SIGNS	SF	55.5
	R3-5(L) (30"X36")	EA	7

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

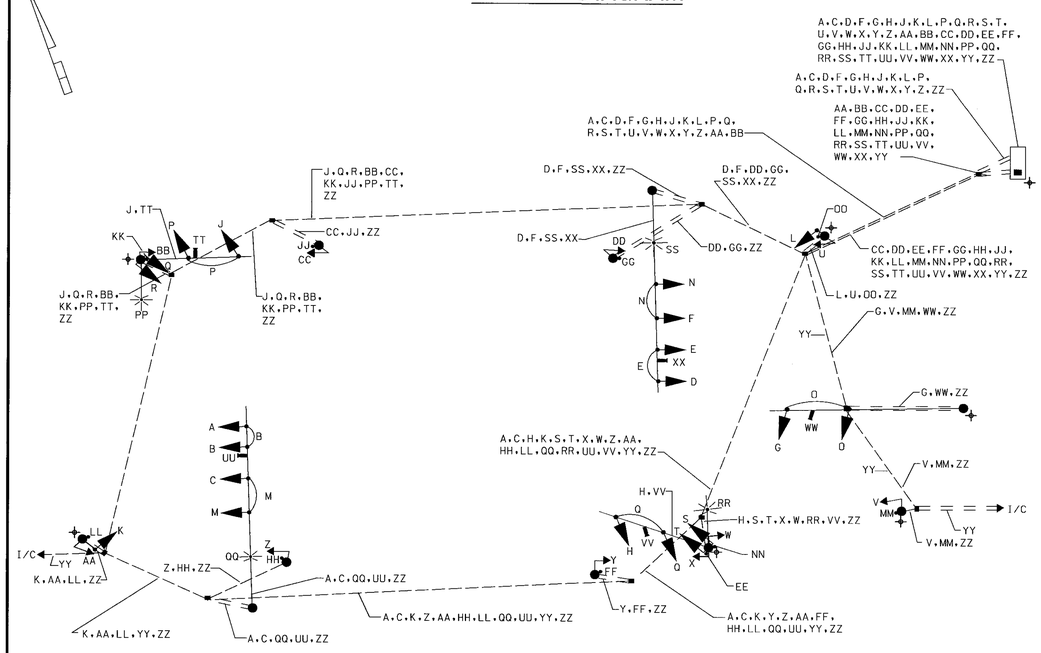
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
585624	24" HEAT APPL. WHT. PERM. PREF. THER. PVT. MARK.	LF	180
585620	12" HEAT APPL. WHT. PERM. PREF. THER. PVT. MARK.	LF	625
801607	INSTALL SHEET ALUMINUM SIGNS	SF	55.5
860272	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	36
865001	PUSHBUTTON AND SIGN	EA	10

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

NONE

WIRING DIAGRAM



KEY

C F G H J	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
A B D E K L M N O P Q R S T	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
U V W X Y Z AA BB CC DD	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR PEDESTRIAN SIGNAL HEADS
EE FF GG HH JJ KK LL MM NN	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
PP QQ RR SS	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
TT UU VV WW XX	VIDEO DETECTION CABLE (500 FT LEAD IN CABLE)
YY	50 PAIR JELLY FILLED INTERCONNECT
ZZ	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	POWER SERVICE UNDERGROUND
✦	GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
PHASE 1 AND 5	←G—	←G—	R	R	R	R	G	←G—	←G—	R	R	R	R	G	G	G	←R—	←R—	←R—	←R—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6,2 AND 5,OR 2 AND 6																														
PHASE 1 AND 6	←G—	←G—	G	G	R	R	G	←R—	←R—	R	R	R	R	G	R	R	←R—	←R—	←R—	←R—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←Y—	←Y—	Y	Y	R	R	Y	←R—	←R—	R	R	R	R	Y	R	R	←R—	←R—	←R—	←R—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	←R—	←R—	R	R	R	R	R	←G—	←G—	G	G	R	R	R	G	G	←R—	←R—	←R—	←R—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	←R—	←R—	R	R	R	R	R	←Y—	←Y—	Y	Y	R	R	R	Y	Y	←R—	←R—	←R—	←R—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	←R—	←R—	G	G	R	R	R	←R—	←R—	G	G	R	R	R	R	R	←R—	←R—	←R—	←R—	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK
PED CLEAR	←R—	←R—	G	G	R	R	R	←R—	←R—	G	G	R	R	R	R	R	←R—	←R—	←R—	←R—	FL\DW	FL\DW	FL\DW	FL\DW	FL\DW	FL\DW	FL\DW	FL\DW	FL\DW	FL\DW
2 AND 6 CHANGE	←R—	←R—	Y	Y	R	R	R	←R—	←R—	Y	Y	R	R	R	R	R	←R—	←R—	←R—	←R—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←R—	←R—	R	R	G	G	R	←R—	←R—	R	R	G	G	R	R	R	←G—	←G—	←G—	←G—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	←R—	←R—	R	R	Y	Y	R	←R—	←R—	R	R	Y	Y	R	R	R	←Y—	←Y—	←Y—	←Y—	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL /R	FL /R	FL /Y	FL /Y	FL /R	FL /R	FL /Y	FL /R	FL /R	FL /Y	FL /Y	FL /R	FL /R	FL /Y	FL /R	FL /R	FL /R	FL /R	FL /R	FL /R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN

US 29 AT RANDOLPH ROAD
INTERCHANGE IMPROVEMENTS

DRAWN BY: JAMES ALLEN Jr.	F.A.P. NO.		TS NO.	Ultimate SHEET NO.
CHECKED BY: JAH	S.H.A. NO. M08365170			
SCALE: NTS	COUNTY: MONTGOMERY		T.I.M.S. NO. F142	
DATE: APRIL, 2002	LOG MILE:			OF

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