PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF US 13 AT REVELLS NECK ROAD IN SOMERSET COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 6 NEMA PHASES, FIRE PRE-EMPTION SHALL BE PROVIDED FOR BOTH NORTH & SOUTH BOUND APPROACHES ON US 13. EXCLUSIVE LEAD/LAG LEFT TURN PHASING SHALL BE PROVIDE FOR BOTH MAIN LINE APPROACHES US 13. THE INTERSECTION SHALL BE EQUIP WITH ADVANCE HIB "RED SIGNAL AHEAD" LED WARNING SIGN THE NORTH & SOUTH ON US 13.

SPECIAL NOTES

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

PROJECT CONTACTS:

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. GENE COFIELL, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4040
MR. RAVINDRA GANVIR, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 677-4020
MR. JAMES R.WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 677-4010
MR. BRUCE W. POOLE, UTILITY ENGINEER
PHONE: (410) 677-4082
MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF OF TRAFFIC OPERATIONS DIVISION - TELEPHONE DROP
PHONE: (410) 781-7631

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9044	CONTROLLER CABINET, SIZE 6	EA	1
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9570	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF:	SF	61
	D3-3 (24"x72") GROUND MOUNT	EA	2
	R8-8 (24"x30") GROUND MOUNT	EA	1
	W3-3 (48"x48") GROUND MOUNT	EA	2
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF:	SF	87
	D-3(2) (16" X VAR.) DUAL FACE MAST ARM MOUNT	EA	2
	M95-1 (MOD) (24"x72") MAST ARM MOUNT	EA	2
	W3-3 (48"x48") POLE MOUNT	EA	2

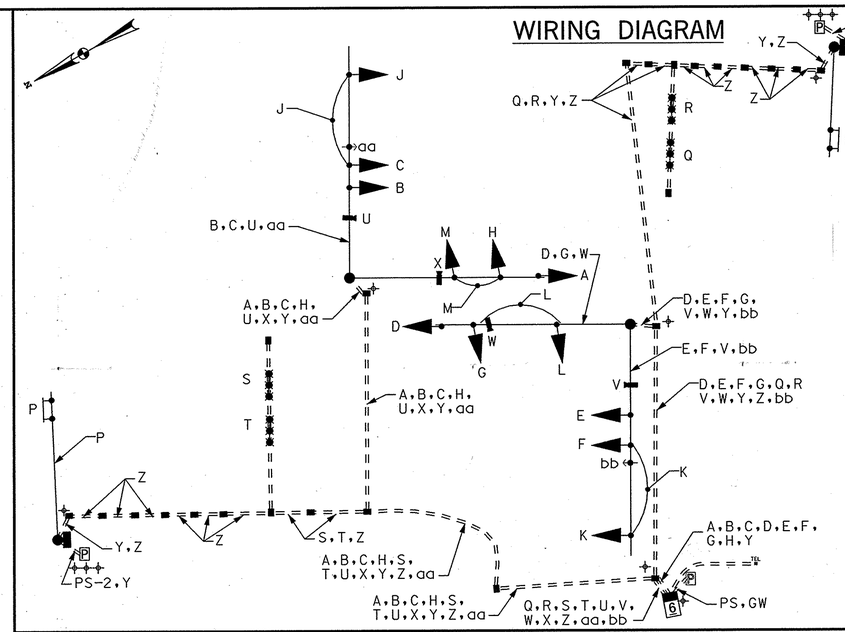
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	3
2002	TEST PIT EXCAVATION	CY	3
5006	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKINGS	LF	160
6005	TRAFFIC BARRIER W BEAM	LF	300
6006	TRAFFIC BARRIER W BEAM POST NORMAL 6 FOOT LENGHT	EA	25
6008	TYPE I TRAFFIC BARRIER AND TREATMENT, ANY OPTION	EA	2
6009	W BEAM BARRIER REFLECTIVE DELINEATORS	EA	10
8001	CONCRETE FOUNDATION	CY	21
8008	CONTROL CABLE, 200 FOOT, VIDEO DETECTION	EA	2
8009	CONTROL CABLE, 300 FOOT, VIDEO DETECTION	EA	2
8013	INSTALL STEEL POLE & SINGLE OR TWIN	EA	4
8032	WOOD SIGN SUPPORTS 4 INCH x 6 INCH	LF	72
8033	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	385
8039	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	440
8040	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	60
8041	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	2830
8042	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	20
8048	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG) THHN/THWN	LF	20
8049	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 8 AWG) THHN/THWN	LF	40
8053	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	EA	4
8054	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	24
8056	INSTALL GROUND MOUNTED SIGN	SF	61
8057	INSTALL OVERHEAD SIGN	SF	87
8058	VIDEO DETECTION CAMERA	EA	4
8059	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76	EA	1
8060	OPTICOM NO. 721 DETECTOR EYE	EA	2
8062	STEEL POLE WITH TWIN 50 FOOT MAST ARM	EA	2
8070	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)	LF	3070
8076	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	12
8078	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	36
8080	FURNISH AND INSTALL 4 CONDUCTOR OPTICON CABLE	LF	360
8081	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	2
8086	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	210
8087	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1720
8096	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	2
8097	INSTALL CONTROLLER AND CABINET- BASE MOUNT	EA	1
NEG.	27' POLE WITH SPECIAL 22' "T" DIMENSION AND 60' MAST ARM	EA	2
NEG.	"LED" RED SIGNAL AHEAD SIGN (60"x60") FOR MAST ARM MOUNT W/ "G" TYPE POLE MOUNTED CABINET	EA	2
NEG.	TYPE C TRAFFIC BARRIER END TREATMENT	EA	2

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

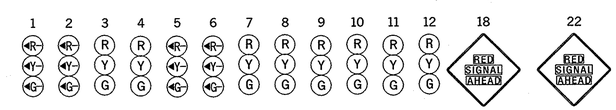
WIRING DIAGRAM



KEY

A B C D E F G H	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
J K L M N P	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Q R S T	NON - INVASIVE DETECTOR, 1000 FT LEAD - IN CABLE
U V W X	VIDEO DETECTION CABLE
Y	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
Z	12 PAIR INTERCONNECT CABLE
PS	POWER SERVICE UNDERGROUND 2 WIRE, 1 CONDUCTOR (NO. 6 AWG)
PS-2	POWER SERVICE UNDERGROUND 2 WIRE, 1 CONDUCTOR (NO. 8 AWG)
GW	1 CONDUCTOR (NO. 4 AWG) STRANDED COPPER GROUND WIRE
aa bb	4 CONDUCTOR OPTICOM CABLE
+	GROUND ROD

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	18	22
PHASE 1 AND 5	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	SA	RSA
1 AND 5 CHANGE	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	SA	RSA
PHASE 2 AND 5	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	SA	SA
2 AND 5 CHANGE	←R–	←R–	Y	Y	←R–	←R–	G	G	R	R	R	R	FL/RSA	SA
PHASE 2 AND 6	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	RSA	SA
2 AND 6 CHANGE	←R–	←R–	R	R	←Y–	←Y–	Y	Y	R	R	R	R	RSA	FL/RSA
PHASE 4 AND 8	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	RSA	RSA
4 AND 8 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	RSA	RSA
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	SA	SA
PRE-EMPTION														
PRE-EMPTION PHASE 2 AND 5	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	SA	SA
PRE-EMPTION CLEARANCE 2 AND 5 CHANGE	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	FL/RSA	FL/RSA
PHASE 2 AND 5 NORMAL OPERATION	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	SA	SA

FL/RSA – (Flashing) Red Signal Ahead RSA – Red Signal Ahead SA – Signal Ahead.

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

U.S. ROUTE 13 AT REVELLS NECK ROAD

PRINCESS ANNE, MARYLAND

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 050205 CONTRACT NO. AT3555185

DESIGNED BY C. FLEMING COUNTY SOMERSET
DRAWN BY C. FLEMING LOGMILE 19001309.73
CHECKED BY S. RENZI T.I.M.S. NO. G737
F.A.P. NO. TOD NO.

DRAWING NO. TS4422 SHEET NO. 2 OF 2

PLOTTED: TUESDAY, JUNE 07, 2005 AT 02:21 PM
FILE: R:\2002\12 2001-12C\TASK 56\DGN\PSG-N001_G737.DGN

BY:LYEH