DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF A TRAFFIC SIGNAL AT THE INTERSECTION OF MD 3 BUSINESS AND GREEN BRANCH LANE / WAL-MART ENTRANCE IN ANNE ARUNDEL COUNTY. THE MODIFICATION INVOLVES MODIFYING THE EXISTING MD 3 LEFT TURN PHASING TO LEAD/LAG PHASING ALSO THE NORTHBOUND AND SOUTHBOUND MD 3 BUSINESS LEFT TURN EXCLUSIVE PERMISSIVE PHASES SHALL BE CHANGED TO EXCLUSIVE PHASING. THE EXISTING NORTHBOUND LEFT TURN PRESENCE DETECTION LOOP AND THE WAL-MART ENTRANCE PRESENCE DETECTION LOOPS SHALL BE ABANDONED AND NEW OVERHEAD VIDEO DETECTION CAMERAS SHALL BE INSTALLED FOR ACTUATION OF THESE MOVEMENTS.

INTERSECTION OPERATION

AN EXISTING SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE LEFT TURN PHASING ALONG NORTHBOUND AND SOUTHBOUND MD 3 BUSINESS SHALL OPERATE AS EXCLUSIVE LEAD/LAG PHASING. THE EASTBOUND AND WESTBOUND GREEN BRANCH LANE / WAL-MART ENTRANCE MOVEMENTS SHALL OPERATE AS SPLIT PHASING.

SPECIAL NOTES

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

PROJECT CONTACTS:

MRS. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019
MR. MARK COBLENTZ, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1031
MR. CHUCK E. GEORGE, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013
MR. JOHN S. MAYS, UTILITY ENGINEER
PHONE: (410) 841-1039
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

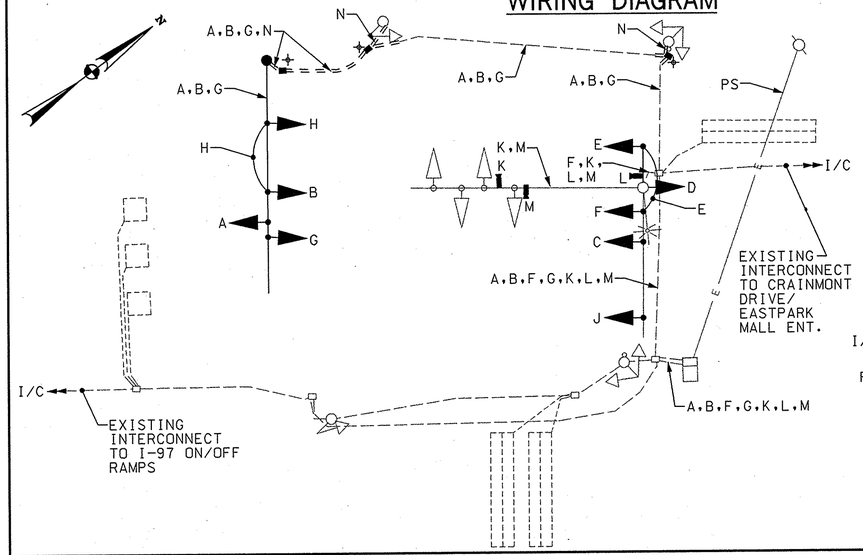
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	INSTALL VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	SF	52
	R3-5(L) (30"x36") MAST ARM MOUNT	EA	3
	D-3(2) (VAR.x16") MAST ARM MOUNT	EA	2

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
585620	12 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	410
585624	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	70
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
800000	10 FT. CLAMP ON MINI MAST ARM	EA	1
800000	DISCONNECT PULL-BACK AND REROUTE CABLES	LF	290
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	5
801607	INSTALL SHEET ALUMINUM SIGN	SF	52
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	60
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	60
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	3
816001	VIDEO DETECTION CAMERA	EA	3
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	3
818041	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM	EA	1
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	3
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	27
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	395
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	490

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

WIRING DIAGRAM



KEY

- A, B — 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C, D — EXISTING 7 CONDUCTOR ELECTRICAL CABLE
- E, F, G, H — 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J — EXISTING 5 CONDUCTOR ELECTRICAL CABLE
- K, L, M — VIDEO DETECTION CABLE
- N — 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- I/C — EXISTING INTERCONNECT CABLE
- PS — EXISTING POWER SERVICE
- + GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	←R– ←Y– ←G–	←R– ←Y– ←G–	←R– ←Y– ←G–	R Y G	R Y G	←R– ←Y– ←G–	←R– ←Y– ←G–	R Y G	R Y G	R Y G ←G–	R Y G	R Y G ←G–	R Y G						
PHASE 1 AND 5	←G–	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 AND 5 CHANGE	←Y–	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 AND 5	←R–	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	←R–	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	WK	FL/DW	FL/DW	WK	DW	DW
2 AND 5 CHANGE	←R–	←R–	←R–	Y	Y	←R–	←R–	G	G	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 AND 6	←R–	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	WK	DW	DW	WK	DW	DW
PED CLEARANCE	←R–	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	FL/DW	DW	DW	FL/DW	DW	DW
2 AND 6 CHANGE	←R–	←R–	←R–	R	R	←Y–	←Y–	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	←R–	←R–	←R–	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	DW	DW
3 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	←R–	←R–	←R–	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	←R–	←R–	←R–	R	R	←R–	←R–	R	R	G ←G–	G	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	R	R	DW	DW	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	DARK	DARK	DARK	DARK	DARK	DARK

SG-02

1 REDLINE REVISION NO.1
08/ /05

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

MD 3 BUSINESS AT GREEN BRANCH LN./WALMART ENT.
GLEN BURNIE, MARYLAND

GENERAL INFORMATION PLAN

SCALE NONE DATE 01/24/05 CONTRACT NO. AA3375176

DESIGNED BY J. WEAVER
DRAWN BY J. WEAVER
CHECKED BY S. RENZI
F.A.P. NO.
COUNTY ANNE ARUNDEL
LOGMILE 02B00300.33
T.I.M.S. NO. G064
TOD NO.

DRAWING NO. TS-3383C
SHEET NO. 17a OF 17

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DATE: 03-AUG-05 16:44

BY: J.WEAVER