PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 7 AND GOLDEN RING ROAD (MD 588) IN BALTIMORE COUNTY. FIREHOUSE PRE-EMPTION CABLE MUST BE PULLED BACK FROM THE EXISTING CABINET/CONTROLLER, STORED, AND REROUTED FROM THE HANDHOLE NEAR THE FIRE STATION NORTH OF THE INTERSECTION TO THE NEW CABINET/CONTROLLER.

MD 7 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A NEMA SEVEN-PHASE, FULL-ACTUATED MODE. VIDEO CAMERA AND PROBES SHALL PROVIDE DETECTION. NAVIGATOR AUDIBLE PUSHBUTTON PEDESTRIAN MOVEMENTS ARE PROVIDED TO CROSS THE NORTH AND EAST LEGS OF THE INTERSECTION. MD 588 APPROACHES SHALL OPERATE IN A SPLIT PHASE. MD 7 APPROACHES SHALL OPERATE CONCURRENTLY WITH EXCLUSIVE/PERMISSIVE LEFT TURNS FOR BOTH DIRECTIONS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

QUANTITY	DESCRIPTION
1 EA	NEMA EIGHT PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH VIDEO DETECTION UNIT. 1- FOUR CHANNEL RACK MOUNTED AMPLIFIER AND ALL NECESSARY EQUIPMENT.
76 SF	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:
	3 EA R3-5(R) (30"X36")
	1 EA R3-5(L) (30"X36")
	1 EA R3-6(L) (30"X36")
	2 EA MD 7 SHIELD ASSEMBLY (30" X 51")
	2 EA MD 7 SHIELD ASSEMBLY (48" X 75")
	4 EA R 10-4(1) MOD

EQUIPMENT LIST "B"

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

CAT. CODE	QTY	UNITS	DESCRIPTION
203030	4	CY	TEST PIT EXCAVATION
800000	4	EA	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON
800000	1	EA	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT
800000	8	EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
800000	0	EA	DISCONNECT & RELOCATE EXISTING VIDEO DETECTOR CAMERA (REWIRE)
800000	600	LF	PULL BACK AND INSTALL EXISTING ELECTRICAL CABLE
801004	23	CY	CONCRETE FOR SIGNAL FOUNDATION
805125	50	LF	2" SCHEDULE 80 PVC CONDUIT-TRENCHED
805135	580	LF	3" SCHEDULE 80 PVC CONDUIT-TRENCHED
805140	100	LF	4" SCHEDULE 80 PVC CONDUIT-TRENCHED
805150	140	LF	3" SCHEDULE 80 PVC CONDUIT-SLOTTED
805155	200	LF	4" SCHEDULE 80 PVC CONDUIT-SLOTTED
807202	1	EA	METERED SERVICE PEDESTAL
810010	100	LF	ELEC CABLE - 1 CONDUCTOR NO. 4 AWG-THHN/THWN
810601	3	EA	NON-INVASIVE PROBE WITH 500' LEAD-IN CABLE
811001	8	EA	FURNISH & INSTALL ELECTRICAL HANDHOLE
813015	76	SF	INSTALL SHEET ALUMINUM SIGN
816001	4	EA	VIDEO DETECTOR CAMERA
816005	3	EA	CONTROL CABLE, 250', VIDEO DETECTOR CAMERA TO CONT.
816010	1	EA	CONTROL CABLE, 500', VIDEO DETECTOR CAMERA TO CONT.
[3] 818004	3 ~~X~~	EA	10' PEDESTAL POLE
818021	0	EA	STEEL POLE WITH TWIN 50' MAST ARMS
818036	2	EA	STEEL POLE WITH SINGLE 50' MAST ARM
818041	1	EA	STEEL POLE WITH SINGLE 60' MAST ARM
818050	0	EA	STEEL POLE WITH TWIN 50' AND 60' MAST ARMS
818052	1	EA	STEEL POLE WITH SINGLE 70' MAST ARM
821003	2	EA	BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
831010	4	EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
832020	620	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
837001	8	EA	GROUND ROD (3/4 " DIA X 10' LENGTH)
860270	12	EA	8" LED SIGNAL HEAD SECTION
[1] 860272	42 ~~40~~	EA	12" LED SIGNAL HEAD SECTION
[3] 860292	1 ~~X~~	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	425	LF	ELECTRICAL CABLE 2 - CONDUCTOR NO. 14 AWG
861107	500	LF	ELECTRICAL CABLE 5 - CONDUCTOR NO. 14 AWG
861108	1740	LF	ELECTRICAL CABLE 7 - CONDUCTOR NO. 14 AWG
861116	240	LF	ELECTRICAL CABLE 2 - CONDUCTOR NO. 12 AWG TRAY CABLE
866104	4	EA	20' LIGHTING ARM ON SIGNAL STRUCTURE
871202	1	EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT
	1	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT

PROJECT CONTACTS

THE CONTACT PERSONS ARE AS FOLLOWS:

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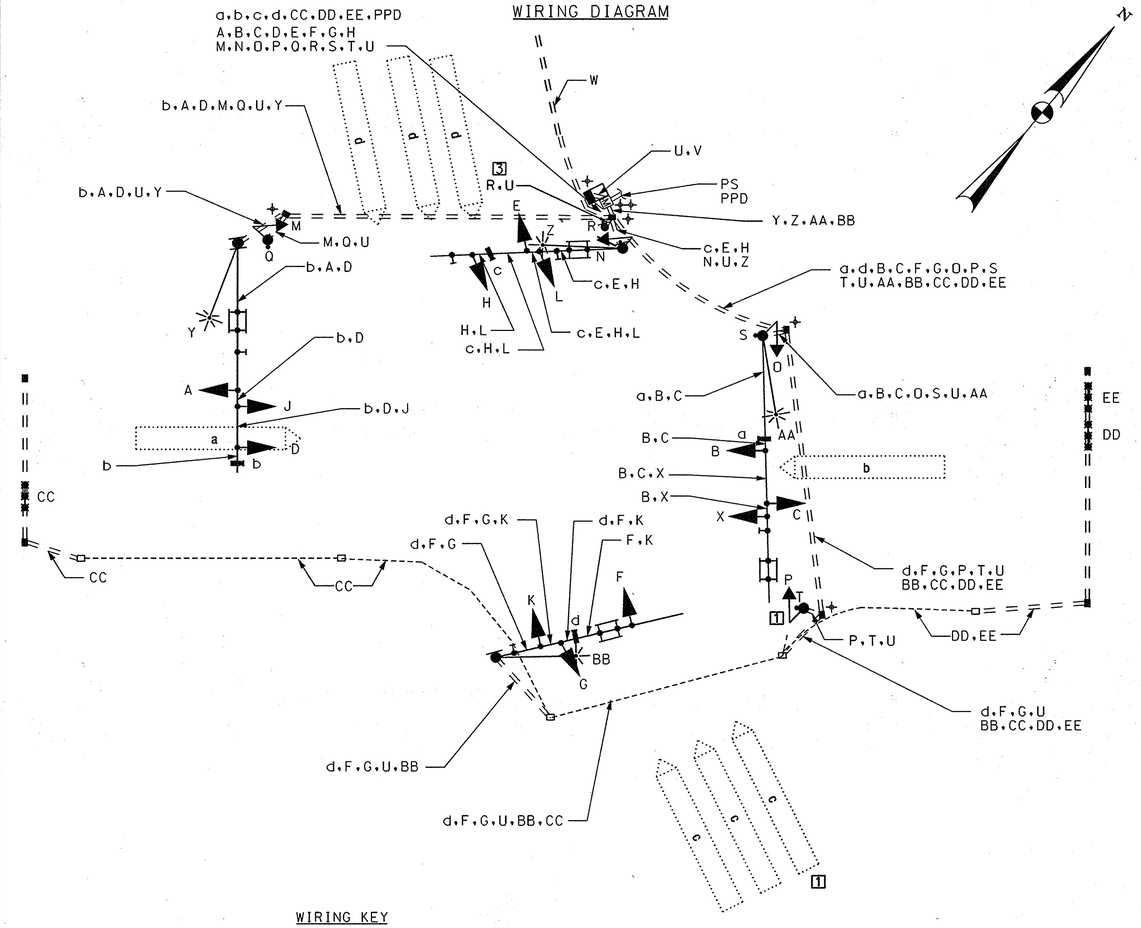
410-787-7631

MR. JAY THAKER
PROJECT MANAGER, TRAFFIC
ENGINEERING DESIGN DIVISION
410-582-5682

WIRING DIAGRAM



WIRING KEY

a, b, c, d	VIDEO DETECTION CABLE
A, B, C, D, E, F, G, H, J, K	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
X, L, M, N, O, P	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Q, R, S, T	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Y, Z, AA, BB	2 CONDUCTOR ELEC. CABLE (NO. 12 AWG) TRAY CABLE
CC, DD, EE	NON-INVASIVE PROBE WITH 1000' LEAD-IN
U	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
V	(3-WIRES) 1 CONDUCTOR ELECTRICAL CABLE NO. 4 AWG
W	DISCONNECT EXISTING PRE-EMPTION CABLE FROM EXISTING CONTROLLER/ CABINET. PULL BACK TO HANDHOLE AND REROUITE TO PROPOSED C/C.
PS	PROPOSED UNDERGROUND SERVICE FEED
PPD	PROPOSED PHONE DROP
+	GROUND ROD
M	METERED SERVICE PEDESTAL

EQUIPMENT LIST "C"

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.

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REVISIONS

[3] GREEN LINE NO. 3. TRAFFIC
REPLACE SHEET NO. 170
DATE: OCTOBER 6, 2008

[1] RED LINE NO. 1. TRAFFIC
REPLACE SHEET NO. 170
DATE: AUGUST 1, 2007

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

MD 7 (PHILADELPHIA RD)
AND MD 588 (GOLDEN RING RD)

GENERAL INFORMATION SHEET

SCALE 1" = 20' DATE 10-11-06 CONTRACT NO. BA6885185

DESIGNED BY AJM
DRAWN BY WMD
CHECKED BY PAT
F.A.P. NO.
COUNTY BALTIMORE
LOGMILE 03000702.25
T.I.M.S. NO. F189
TOD NO.

DRAWING NO. TS-1158J SG-9 OF 9 SHEET NO. 170 OF 249

PLOTTED: Monday, October 06, 2008 AT 05:25 PM
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