

PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 108 AND GREAT STAR DRIVE IN HOWARD COUNTY. PEDESTRIAN SIGNALS SHALL BE UPGRADED TO MEET ADA REQUIREMENTS. SIGNAL HEADS SHALL BE REALIGNED ON EXISTING MAST ARMS FOR NEW ALIGNMENT OF MD 108. NEW MICROLOOP PROBES SHALL BE INSTALLED FOR NEW ALIGNMENT OF WESTBOUND MD 108.

MD 108 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION OPERATES IN A NEMA SIX PHASE FULL-TRAFFIC-ACTUATED MODE WITH MD 108 APPROACHES OPERATING CONCURRENTLY WHILE GREAT STAR DRIVE AND THE DRIVEWAY TO/FROM KENDALL HARDWARE STORE WILL OPERATE IN A SPLIT PHASE MODE. AUDIBLE PEDESTRIAN PUSHBUTTONS ARE PROVIDED TO CROSS THE SOUTH AND EAST LEGS OF THE INTERSECTION.

III. CONTROLLER REQUIREMENTS:

THE EXISTING BASE MOUNTED CONTROLLER SHALL BE USED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 301-624-8140

MS. ANDREA ABEND
DISTRICT UTILITY ENGINEER
301-624-8115

MR. RAY JOHNSON
DISTRICT 7 MAINTENANCE
301-624-8105

THE CONTACT PERSONS FOR
OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
410-787-7631

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION.

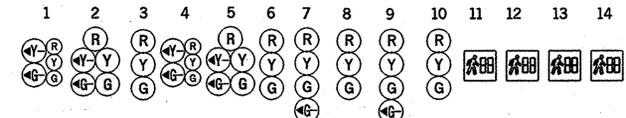
CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
973023	8	SF	SHEET ALUMINUM SIGNS CONSISTING OF: 4 EA - R10-3(1) (9"X15") PEDESTAL POLE MOUNT 1 EA - R2-1 (36"X36"X36")

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
120500	1	LS	MAINTENANCE OF TRAFFIC
203030	2	CY	TEST PIT EXCAVATION
585620	275	LF	12" HEAT APPLIED WHITE PERM. PREFORMED THERM PAVEMENT MARKING
585624	60	LF	24" HEAT APPLIED WHITE PERM. PREFORMED THERM PAVEMENT MARKING
800000	4	EA	RELOCATE EXISTING APS PUSHBUTTON
801004	8	CY	CONCRETE FOR SIGNAL FOUNDATION
801104	10	LF	WOOD SIGN SUPPORT 4 IN. X 4 IN.
801607	8	SF	INSTALL SHEET ALUMINUM SIGNS
802501	90	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	90	LF	3" SCHEDULE 80 PVC CONDUIT-TRENCHED
805150	70	LF	3" SCHEDULE 80 PVC CONDUIT-SLOTTED
810555	2	EA	MICROLOOP PROBE WITH 1000 FOOT LEAD IN CABLE
811001	2	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
818004	4	EA	10 FOOT BREAKAWAY PEDESTAL POLE
821003	4	EA	BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
837001	4	EA	GROUND ROD - 3/4" DIAMETER X 10' LENGTH
860265	5	EA	RELOCATE EXISTING SIGNAL HEAD
860292	4	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	665	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

PHASE CHART



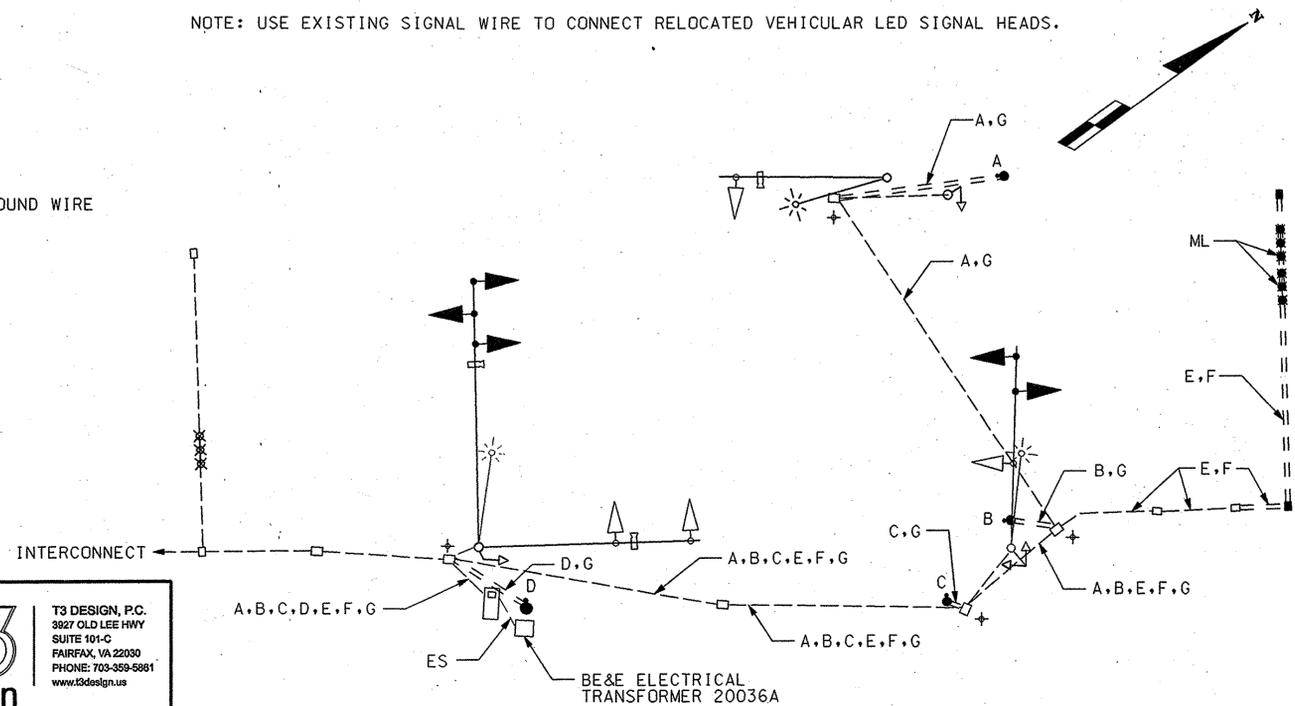
PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	+G	R	R	+G	+G	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE	TO 1 AND 6 OR 2 AND 5													
PHASE 1 AND 6	+G	+G	G	R	R	R	R	R	R	R	DW	DW	DW	DW
1 CHANGE	+Y	+Y	G	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	+G	+G	G	R	R	R	R	DW	DW	DW	DW
5 CHANGE	R	R	R	+Y	+Y	G	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	+G	G	R	R	DW	DW	DW
PHASE 4 CHANGE	R	R	R	R	R	R	R	Y	Y	R	R	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	+G	G	R	R	DW	DW	WK
PED CLEARANCE	R	R	R	R	R	R	R	+G	G	R	R	DW	DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	Y	Y	R	R	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING KEY

- A, B, C, D } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E } NON-INVASIVE MICROLOOP PROBE WITH 1,000' LEAD IN CABLE
- F } NON-INVASIVE MICROLOOP PROBE WITH 1,000' LEAD IN CABLE
- G } NO. 6 AWG STRANDED COPPER GROUND WIRE
- ML } NON-INVASIVE MICROLOOP PROBE
- + } PROPOSED GROUND ROD
- ES } EXISTING UNDERGROUND ELECTRICAL SERVICE

WIRING DIAGRAM

NOTE: USE EXISTING SIGNAL WIRE TO CONNECT RELOCATED VEHICULAR LED SIGNAL HEADS.



ADDENDUM NO. 1

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 108 AND GREAT STAR DRIVE

GENERAL INFORMATION SHEET

SCALE 1" = 20'	DATE 9/19/07	CONTRACT NO. H03885177
DESIGNED BY S.J.W.	COUNTY HOWARD	
DRAWN BY S.J.W.	LOGMILE 1301803.28	
CHECKED BY A.J.M.	T.I.M.S. NO. 1021	
F.A.P. NO.	TOD NO. 3802_B	
DRAWING NO. TS - 3802C-GI	SHEET NO. 27 OF 27	