

**PROJECT DESCRIPTION:**

THE PURPOSE OF THE PROJECT IS TO INSTALL INTERSECTION LIGHTING AND TO REPLACE EXISTING SIGNAL HEADS WITH L.E.D. SIGNAL HEADS AT THE MD 2 / MCKINSEY ROAD SIGNALIZED INTERSECTION.

**GENERAL NOTES:**

- ALL UNDERGROUND UTILITIES ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE LIGHTING STRUCTURES WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED.
- EACH LUMINAIRE SHALL BE PROVIDED A PHOTOCELL.
- THE EXISTING VERTICAL MAST ARMS IN THE NORTH / EAST QUADRANT AND THE MEDIAN OF THE MD 2 SOUTHERN APPROACH WILL BE EXTENDED TO A HEIGHT OF 27 FEET AS PER SHA GUIDELINE "MAST ARM POLE EXTENSION FOR LIGHTING ARM". ALL WELDS, COUPLINGS, PLATES, DRILL HOLES, ETC. MUST BE ADHERED TO FROM THE SHA'S GUIDELINE.
- CONTRACTOR SHALL CONTACT TRAFFIC SIGNAL OPERATIONS TO ARRANGE FOR THE LIGHTING TO BE ENERGIZED UPON COMPLETION OF WORK.
- PROPOSED L.E.D SIGNAL HEADS SHOULD BE PLACED AS CLOSE AS POSSIBLE TO EXISTING SIGNAL HEADS.

**EQUIPMENT LISTS "A, B, & C"**

- EQUIPMENT TO BE FURNISHED BY SHA, NONE
- EQUIPMENT TO BE FURNISHED AND / OR INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8002	26 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	12 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8004	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8036	350 LF	2/C # 12-TRAY CABLE
8048	90 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8050	40 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8069	2 EA	250 WATT HIGH PRESSURE SODIUM LAMP & LUMINAIRE (WITH PHOTOCELL)
NEG	2 EA	MAST ARM POLE EXTENSION FOR LIGHTING ARM (6 FOOT LENGTH)

MATERIAL TO BE REMOVED AND RETURNED TO SHA.

- ALL UNUSED MATERIAL AND EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**PROJECT CONTACTS**

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1019	MR. CHARLES GEORGE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1013
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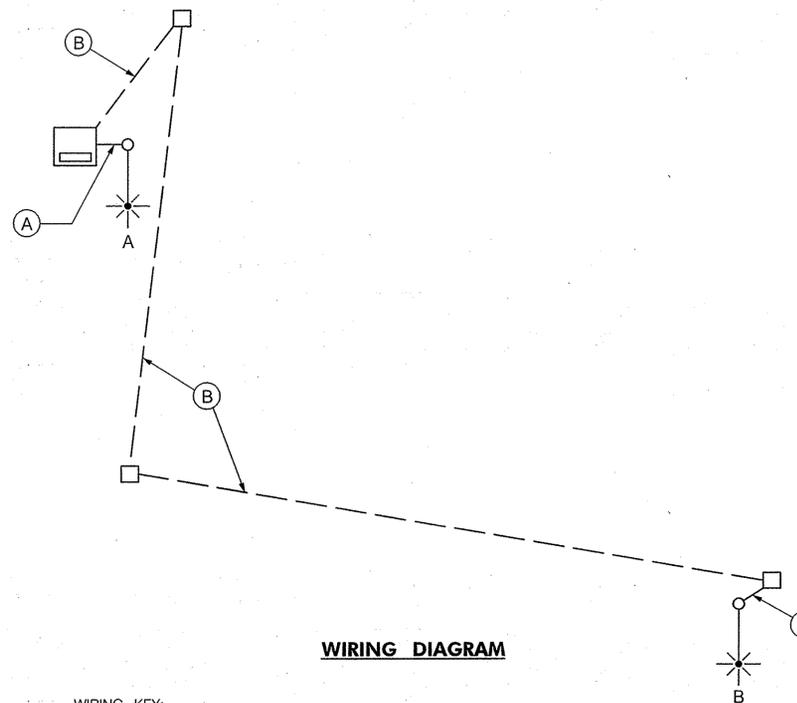
MR. JOHN MAYS  
DISTRICT UTILITY ENGINEER  
(410) 841-1005

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD DAFF, SR. CHIEF TRAFFIC OPERATIONS (410) 787-7630	MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS (410) 787-7630	MR. MIKE STOCKER SIGNAL SHOP WAREHOUSE (410) 787-7696
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS (410) 787-7676	

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 CHANGE	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 1 & 6	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 CHANGE	<Y-	<Y-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEAR	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
3 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 ALT.	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	WK	WK
PED CLEAR	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	FL/DW	FL/DW
3 ALT. CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
4 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PRE-EMPTION	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PRE-EMPTION CHANGE	<Y-	<Y-	Y	Y	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
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	FL/R	FL/R	DARK	DARK	DARK	DARK



**WIRING DIAGRAM**

WIRING KEY:  
A, B ELECTRICAL CABLE 2-CONDUCTOR

TOD No: AT782-59  
SHA No.: AA445A57/B57  
MD 2 @ McKinsey Road



DANIEL CONSULTANTS, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045  
Phone: 410-995-0090 Fax: 410-992-7038



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD2 / MCKINSEY ROAD  
ANNE ARUNDEL COUNTY, MARYLAND

**TRAFFIC SIGNAL PLAN**

SCALE NONE DATE NOVEMBER 2006 CONTRACT NO. AT7825185

DESIGNED BY LHG *ew* COUNTY ANNE ARUNDEL  
DRAWN BY TIV LOGMILE 02000229.13  
CHECKED BY LHG TIMS NO. H549  
F. A. P. NO. TOD NO.

DRAWING NO. TS - 303 - GI SHEET NO. 2 OF 2

BY: cward