

# PROJECT DESCRIPTION

## GENERAL

THIS PROJECT INVOLVES THE MODIFICATION AND ADDITION OF VIDEO TRAFFIC DETECTION SYSTEM AT THE EXISTING INTERSECTION AT MD 450 AND MD 193 IN PRINCE GEORGE'S COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

## INTERSECTION OPERATION

### NORMAL OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA-EIGHT-PHASE, FULLY ACTUATED MODE. THE MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON MD 193 WILL OPERATE CONCURRENTLY. THE INTERSECTION CONTROLLER WILL INTERCONNECT WITH THE NEW CONTROLLER AT THE INTERSECTION OF MD 450 AT HILLMEADE ROAD.

### SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES 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 TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

ALL UNUSED CABLES SHALL BE REMOVED FROM THE EXISTING CONDUITS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF THESE CABLES. THERE WILL BE NO ADDITIONAL CHARGE TO THE STATE OF MARYLAND FOR REMOVING THESE CABLES. THIS IS COVERED IN THE ITEM FOR REMOVING AND DISPOSING OF EXISTING SIGNAL EQUIPMENT.

# EQUIPMENT LIST "A"

## A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
973023	813	30 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -4 EA. R3-5L (30" X 36")-SPAN MOUNT

# EQUIPMENT LIST "B"

## B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
585620	556	300 L.F.	12 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
585624	556	100 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
811001	811	5 EA.	ELECTRICAL HANDHOLE
813006	813	18 S.F.	RELOCATE EXISTING SIGN
813015	813	45 S.F.	INSTALL OVERHEAD SIGN
860265	814	3 EA.	RELOCATE EXISTING SIGNAL HEAD
860272	814	42 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860278	814	4 EA.	12 IN. PEDESTRIAN SIGNAL HEAD SECTION
861107	810	650 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO.14 AWG)
861108	810	3750 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO.14 AWG)
870164	805	164 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
870166	805	406 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
870168	805	160 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-SLOTTED
800000	805	1 L.S.	VIDEO DETECTION SYSTEM
800000	805	4 EA.	VIDEO DETECTOR 500 FT. CABLE
800000	805	6 EA.	MICRO-LOOP NON INVASIVE PROBE SET WITH 1000 FT. LEAD IN
800000	XXX	1 L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL

# PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

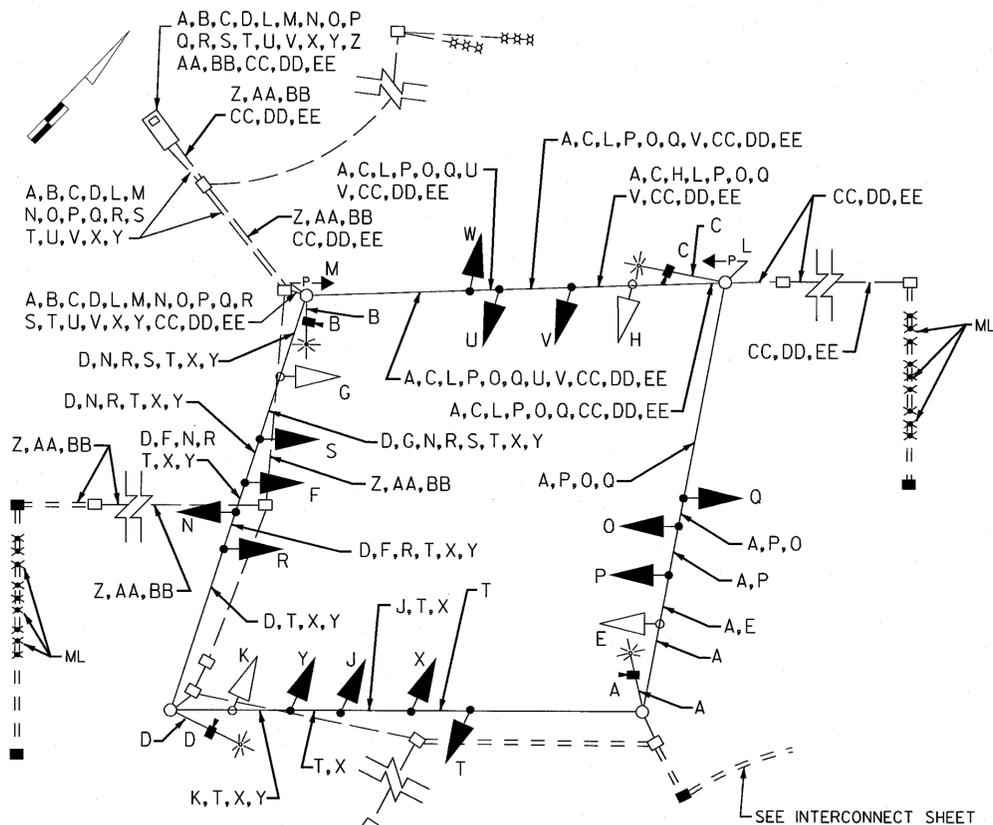
ROBERT SNYDER ASSISTANT DIVISION CHIEF  
TRAFFIC OPERATIONS DIVISION  
PHONE: 410-787-7630

MAJID SHAKIB  
ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: 301-513-7358

WAYNE MOWDY  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
PHONE: 301-513-7304

AUGIE REBISH  
ASSISTANT DISTRICT ENGINEER-UTILITIES  
PHONE: 301-513-7350

# WIRING DIAGRAM



A,B C,D	VIDEO TRAFFIC DETECTOR CABLE	Z,AA,BB CC,DD,EE	MICRO-LOOP 1000 FT. LEAD IN
E,F,G H,J,K L,M	ELECTRICAL CABLE 5-CONDUCTOR (NO.14 AWG)	ML	MICRO-LOOP NON INVASIVE PROBE SET
N,O,P Q,R,S T,U,V W,X,Y	ELECTRICAL CABLE 7-CONDUCTOR (NO.14 AWG)		

# PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1+5	←G	←G	R	R	←G	←G	←G	R	R	←R	←R	R	R	←R	←R	←R	R	R	DW	DW
1+5 CHANGE	←Y	←Y	R	R	←Y	←Y	←Y	R	R	←R	←R	R	R	←R	←R	←R	R	R	DW	DW
PHASE 2+6	←R	←R	G	G	←R	←R	←R	G	G	←R	←R	R	R	←R	←R	←R	R	R	WK	WK
2+6 CHANGE	←R	←R	Y	Y	←R	←R	←R	Y	Y	←R	←R	R	R	←R	←R	←R	R	R	FL/DW	FL/DW
PHASE 3+7	←R	←R	R	R	←R	←R	←R	R	R	←G	←G	R	R	←G	←G	←G	R	R	DW	DW
3+7 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	←Y	←Y	R	R	←Y	←Y	←Y	R	R	DW	DW
PHASE 4+8	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	G	G	←R	←R	←R	G	G	DW	DW
4+8 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	Y	Y	←R	←R	←R	Y	Y	DW	DW
FLASHING OPERATION	FL	DARK	DARK																	

REDLINE NO. / / THIS SHEET REPLACES SHEET NO. 402

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET  
MD 450 - MD 193 TO STONYBROOK DRIVE  
MD 450 & MD 193

THE WILSON T. BALLARD CO.  
CONSULTING ENGINEERS  
OWINGS MILLS, MARYLAND

DRAWN BY: M.B.	F.A.P. NO. RR 18(49)	TS NO. TS-1821D
CHECKED BY: J.S.	S.H.A. NO. P-170-501-382	SHEET NO. 402 OF 545
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. D 538
DATE: 4/21/81	LOG MILE: 16019312.85	