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.

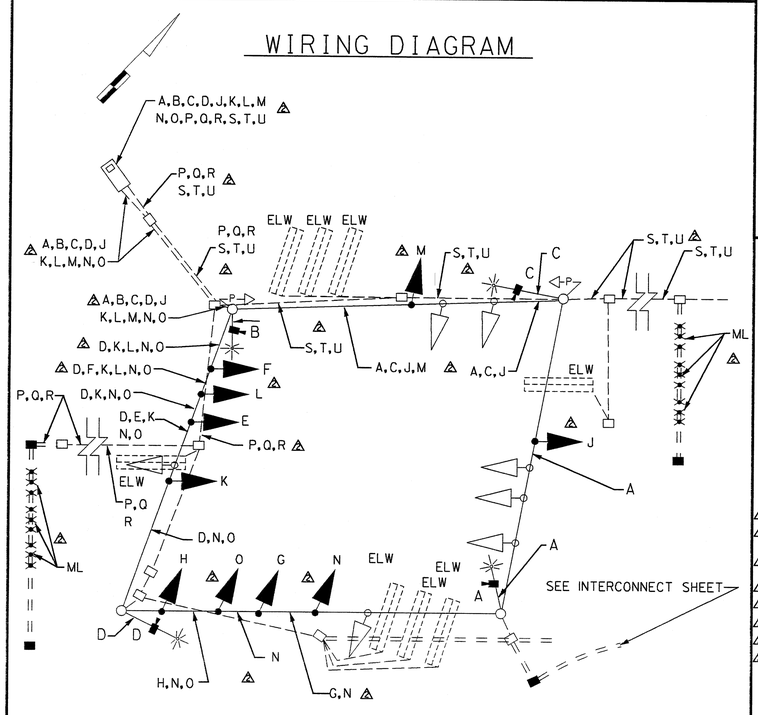
INTERSECTION OPERATION

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.

WIRING DIAGRAM



A,B C,D	VIDEO TRAFFIC DETECTOR CABLE	△ P,Q,R S,T,U	MICRO-LOOP 1000 FT. LEAD IN
E,F G,H	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)	△ ML	MICRO-LOOP NON INVASIVE PROBE SET
J,K,L M,N,O	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)	ELW	EXISTING LOOP WIRE

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

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

~~[1] CHARLIE WATKINS~~
~~DISTRICT ENGINEER~~
~~PHONE: 301-513-7300~~

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

RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 301-513-7304

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

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

PHASE CHART

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

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	△ 70 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
802145	811	△ 4 EA.	REBUILD EXISTING HANDHOLE
811001	811	△ 5 EA.	ELECTRICAL HANDHOLE
△ 813006	813	△ 8 ~~EA.~~ S.F. [1]	RELOCATE EXISTING SIGN
813015	813	△ 30 S.F.	INSTALL OVERHEAD SIGN
860265	814	2 EA.	RELOCATE EXISTING SIGNAL HEAD
860272	814	△ 24 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	△ 140 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	△ 1815 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 LS.	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

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

[1] REDLINE NO. 1 5/6/02

△ ADDENDUM #2 10/11/2001

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

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 AT MD 193 - ULTIMATE

DRAWN BY: MB	F.A.P. NO. SEE TITLE SHEET	TS NO. TS-1821C-P-2	SHEET NO.
CHECKED BY: STB	S.H.A. NO. PG9005571		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. D 538	402 OF 545
DATE: OCTOBER 2001	LOG MILE:		

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