PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROLLER AND A HALF SIGNAL AT THE INTERSECTION OF MD 197 AT GALLANT FOX LANE IN PRINCE GEORGE'S COUNTY. MD 197 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA-TWO-PHASE, SEMI ACTUATED MODE. THE MOVEMENTS ON MD 197 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON GALLANT FOX LANE WILL OPERATE CONCURRENTLY. THE INTERSECTION CONTROLLER WILL INTERCONNECT WITH THE NEW CONTROLLER AT THE INTERSECTION OF THE NEW MD 450 AT MD 197.

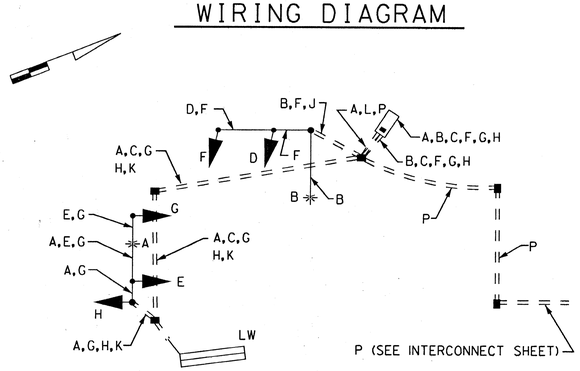
CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, SOLID STATE EIGHT PHASE CONTROLLER WITH SYSTEM PACKAGE, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

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	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)	J,K,L	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
C	ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 AWG)	M,N,O	ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG)
D,E	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)	P	12-PAIR COMMUNICATION CABLE, JELLY FILLED (NO.19 AWG)
F,G,H	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)	LW	LOOP WIRE

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
971017	816	1 EA.	EIGHT PHASE, FULL TRAFFIC ACTUATED SOLID STATE DIGITAL CONTROLLER WITH SYSTEM PACKAGE, HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
973023	813	57 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -1 EA. R10-10L (24 IN. X 30 IN.)-POLE MOUNT -1 EA. R4-7 (24 IN. X 30 IN.)-GROUND MOUNT -2 EA. R5-1 (30 IN. X 30 IN.)-GROUND MOUNT-POLE MOUNT -2 EA. R6-1R (36 IN. X 12 IN.)-GROUND MOUNT -1 EA. D1-12 (72 IN. X 16 IN.)-MAST ARM MOUNT -1 EA. D95-25 (24 IN. X 24 IN.)-GROUND MOUNT -1 EA. W3-3 (36 IN. X 36 IN.)-GROUND MOUNT -1 EA. OM-11 (18 IN. X 18 IN.)-GROUND MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

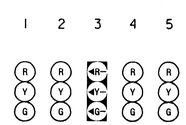
ROBERT SNYDER ASSSISTANT DIVISION CHIEF
TRAFFIC OPERATION DIVISION
PHONE: 410-787-7630

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	
PHASE 1	G	G	◄G—	R	R	
1 CHANGE	Y	Y	◄Y—	R	R	
PHASE 2	R	R	◄R—	G	G	
2 CHANGE	R	R	◄R—	Y	Y	
FLASHING OPERATION	FL / R	FL / R	FL / ◄R	FL / Y	FL / Y	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	3 C.Y.	TEST PIT EXCAVATION
585624	556	150 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
801004	801	9 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	805	220 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	805	25 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
805140	805	136 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
805155	805	152 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-SLOTTED
805160	805	10 L.F.	1 IN. LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT
810010	810	45 L.F.	ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG)
811001	811	12 EA.	ELECTRICAL HANDHOLE
813014	813	34 S.F.	GROUND MOUNTED SIGN
813015	813	23 S.F.	INSTALL OVERHEAD SIGN
818030	818	2 EA.	27 FT. STEEL POLE WITH 38 FT. MAST ARM
822002	805	80 L.F.	12-PAIR COMMUNICATION CABLE, JELLY FILLED (NO. 19 AWG)
831010	806	2 EA.	250 WATT HPS LUMINAIRE WITH PHOTOCELL
837001	804	3 EA.	GROUND ROD ¾IN. X 10 FT. LENGTH
838003	807	1 EA.	CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE, 3 WIRE SYSTEM)
860272	814	5 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861104	810	200 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO. 14 AWG)
861107	810	70 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	340 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
861116	810	360 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)
862101	805	130 L.F.	¼IN. LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	805	110 L.F.	SAW CUT FOR LOOP WIRE
866104	818	2 EA.	20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
871117	816	1 EA.	INSTALL CONTROLLER AND CABINET-BASE MOUNT

EQUIPMENT LIST "C"

NONE

☐ REDLINE NO. / / NEW SHEET

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 197 AT GALLANT FOX LANE - ULTIMATE

DRAWN BY: MB	F.A.P. NO. SEE TITLE SHEET	TS NO. 4217-GI	SHEET NO. ___ OF ___
CHECKED BY: PDU	S.H.A. NO. PG9005571		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. F 232X	
DATE: OCTOBER 2002	LOG MILE: MD 197 03.20		

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12/3/02 MB
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