PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNALS AT THE INTERSECTIONS OF MD 198 & MARYLAND CITY PLAZA AND MD 198 & WHISKEY BOTTOM ROAD IN ANNE ARUNDEL COUNTY. THE WORK WILL CONSIST OF INSTALLING PEDESTRAIN PHASES AT EACH INTERSECTION .
MD 198 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

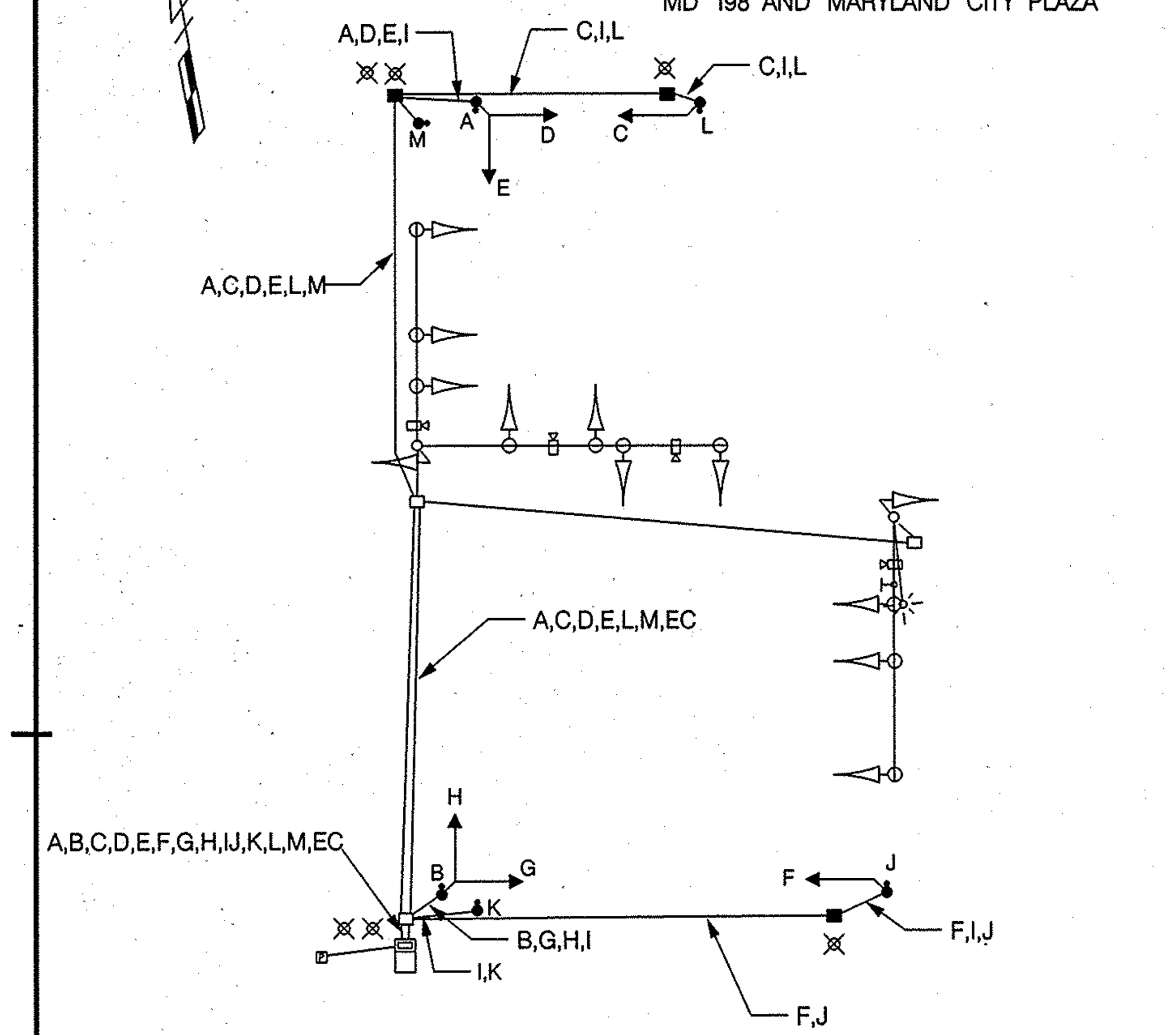
INTERSECTION OPERATION

MD 198 AND MARYLAND CITY PLAZA CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR MD 198 AND SIDE STREET SPLIT PHASING AN ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF MD 198 AND CONCURRENT PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION WILL BE ADDED.

MD 198 AND WHISKEY BOTTOM ROAD CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR MD 198 AND CONCURRENT SIDE STREET PHASING AN ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF MD 198 AND CONCURRENT PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION WILL BE ADDED.

WIRING DIAGRAM

MD 198 AND MARYLAND CITY PLAZA

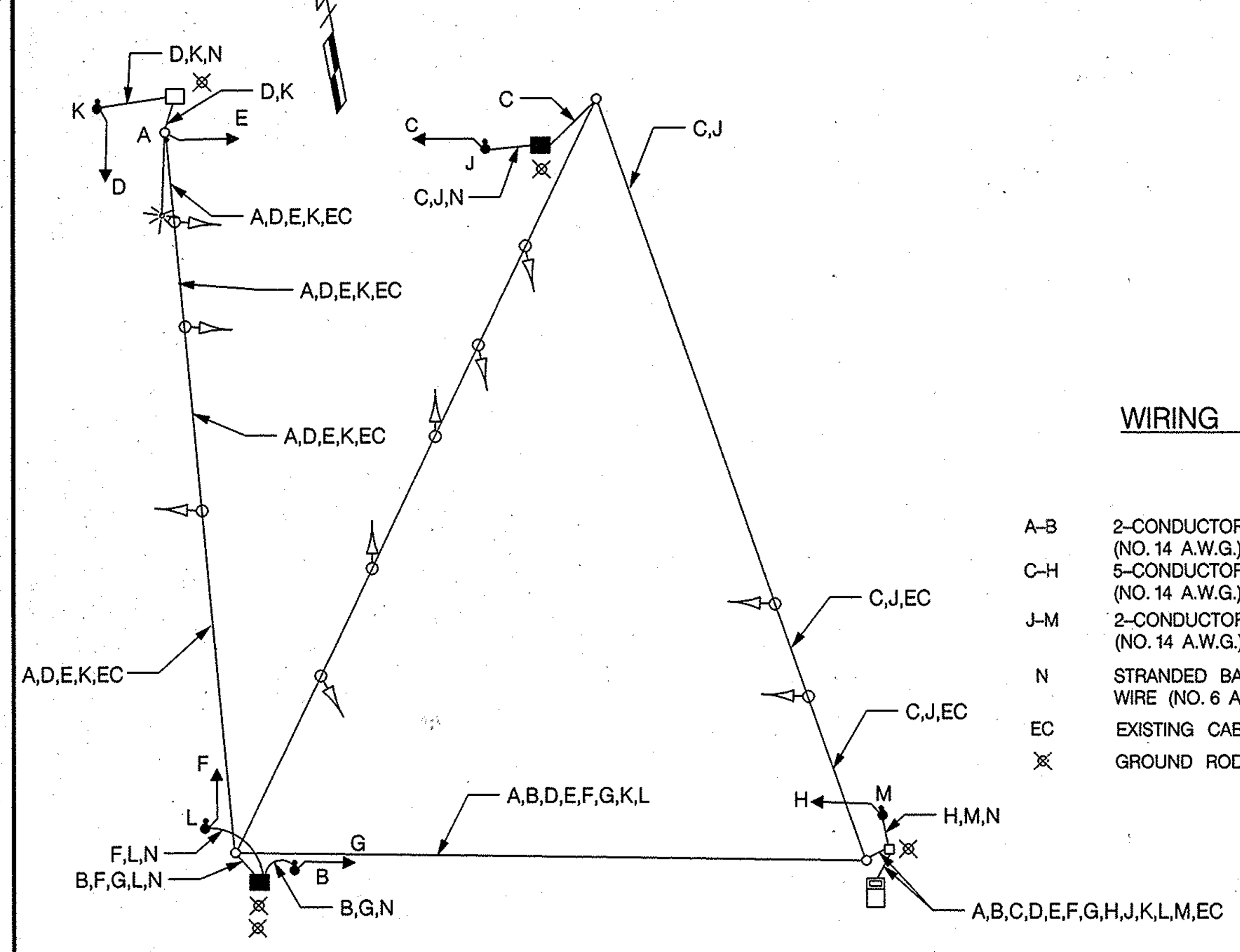


WIRING KEY

A–B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C–H	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
I	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
J–M	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC	EXISTING CABLE
⊠	GROUND ROD

WIRING DIAGRAM

MD 198 AND WHISKEY BOTTOM ROAD /OLD ANNAPOLIS ROAD



WIRING KEY

A–B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C–H	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
J–M	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
N	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EC	EXISTING CABLE
⊠	GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2001	9 CY	CLASS 2 EXCAVATION
2002	11 CY	TEST PIT EXCAVATION
5003	1050 LF	FURNISH AND INSTALL 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING
5004	150 LF	FURNISH AND INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING
5005	200 LF	REMOVE EXISTING PAVEMENT MARKING.
6001	30 LF	DEPRESSED CURB AND GUTTER
6002	20 SF	STANDARD TYPE "A" CURB AND GUTTER
6003	525 SF	4 IN. CONCRETE SIDEWALK
8024	12 EA	FURNISH AND INSTALL 16 IN. L.E.D. COUNTDOWN PEDESTRIAN SIGNAL
8015	11 EA	FURNISH AND INSTALL PEDESTAL POLE ANY SIZE
8014	12 EA	FURNISH AND INSTALL AUIBLE /TACTILE PEDESTRIAN PUSHBUTTON
8016	2 EA	INSTALL CONDUIT BEND IN EXISTING BASE
8032	140 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT – TRENCHED
8048	220 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT – BORED
8040	11 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8043	175 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8062	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8070	11 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8076	900 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)
8078	2500 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8037	130 SF	FURNISH AND INSTALL DETECTABLE WARNING SURFACES

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER – TRAFFIC
(410) 841-1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER – MAINTENANCE
(410) 841-1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER – UTILITIES
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

PHASING CHART

MD 198 AND MARYLAND CITY PLAZA

	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	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6																	
PHASE 1 & 6	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	←R–	←R–	R	R	←Y–	←Y–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	FL-WK	FL-WK	FL-WK	FL-WK	DW	DW
PED CLEAR	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	FL-DW	FL-DW	FL-DW	FL-DW	DW	DW
2 & 6 CHANGE	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	←R–	←R–	R	R	←R–	←R–	R	R	G ←G–	G	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	←R–	←R–	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	DW	DW
4 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	←R–	←R–	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	FL-WK	FL-WK
PED CLEAR	←R–	←R–	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	FL-DW	FL-DW
4 ALT CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	←FLR–	←FLR–	FLY	FLY	←FLR–	←FLR–	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK

PHASING CHART

MD 198 AND WHISKEY BOTTOM ROAD

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 & 5	←G–	←G–	R	R	←G–	←G–	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6																		
PHASE 1 & 6	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	←R–	←R–	R	R	←Y–	←Y–	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	R	FL-WK	FL-WK	FL-WK	FL-WK	DW	DW
PED CLEAR	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	R	FL-DW	FL-DW	FL-DW	FL-DW	DW	DW
2 & 6 CHANGE	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	G	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT & 8	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	G	DW	DW	DW	DW	FL-WK	FL-WK
PED CLEAR	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	G	DW	DW	DW	DW	FL-DW	FL-DW
4 ALT & 8 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	←FLR–	←FLR–	FLY	FLY	←FLR–	←FLR–	FLY	FLY	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK

TOD No.: AT782-44
SHA No.:AA445A53/B53

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
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EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN
MD 198 AND MARYLAND CITY PLAZA
MD 198 AND WHISKEY BOTTTOM ROAD /OLD ANNAPOLIS ROAD
MARYLAND CITY, MARYLAND

SCALE NONE DATE 6-2006 CONTRACT NO. AT 7825185

DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL
DRAWN BY	T. ZAYDEL	LOGMILE	02019800.83 02019801.02
CHECKED BY	K. SCHMID	T.I.M.S. NO.	H 412
F.A.P. NO.	N/A	TOD NO.	

DRAWING NO. TS-4411A GI & 1893E GI SHEET NO. 3 OF 3