PROJECT DESCRIPTION

THIS PROJECT INVOLVES MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 528 (COASTAL HIGHWAY) AND 48TH / 49TH STREETS IN WORCESTER COUNTY. DETECTABLE WARNING SUFACES, L.E.D. COUNTDOWN PEDESTRIAN SIGNALS, AND APS PEDESTRIAN PUSH-BUTTONS AND SIGNS WILL BE INSTALLED AT THIS LOCATION. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

BOTH THE INTERSECTIONS (48TH AND 49TH STREETS) ARE INTERCONNECTED AND THEREFORE OPERATE CONCURRENTLY. THEY WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE SEMI-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 528 AT 48TH STREET, AND ALTERNATE PEDESTRIAN PHASES FOR CROSSING MD 528 AT BOTH INTERSECTIONS.

CONTROLLER REQUIRMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. APS CENTRAL CONTROL UNIT WILL BE INSTALLED BY THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 1 ARE AS FOLLOWS:

MR. GENE COFIELL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4040

MR. JIMMY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 543-6715

MR. BRUCE POOLE
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 677-4082

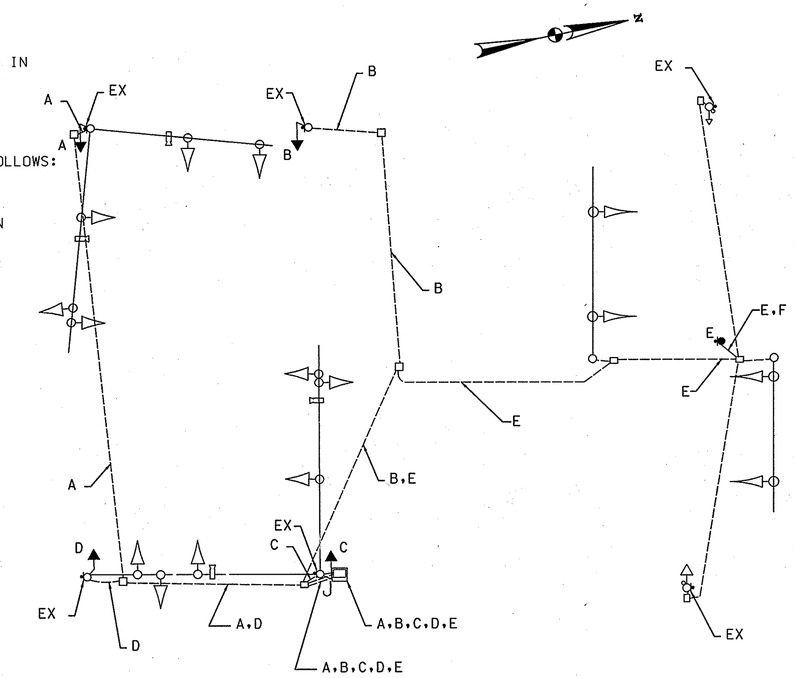
CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF. SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ED RODENHIZER
SIGNAL SHOP
PHONE: (410) 787-7652

MR. SONNY BAILEY
SIGN SHOP
PHONE: (410) 787-7670

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9571	SHEET ALUMINUM POLE MOUNT 7- R10-4(1) (9"X12" - COASTAL HWY)	SF	6

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	*
2002	TEST PIT EXCAVATION	CY	1
6004	F&I 4" CONCRETE SIDEWALK	SF	24
8001	FURNISH AND INSTALL CONCRETE FOUNDATION	CY	1
8020	FURNISH AND INSTALL PEDESTAL POLE (ANY SIZE)	EA	1
8021	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT	EA	**
8029	F&I DETECTABLE WARNING SURFACES	SF	8
8030	REMOVE AND RESET DECORATIVE BRICK SIDEWALK	SF	25
8033	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	15
8040	F & I 2" SCH 80 RIGID PVC CONDUIT - TRENCHED	LF	10
8057	INSTALL OVERHEAD SIGN	SF	6
8081	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
8084	F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)	LF	410
8086	F&I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)	LF	500
8096	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	1
8099	F&I 16" LED COUNTDOWN PEDESTAL SIGNAL HEADS	EA	4
8104	F&I APS PUSHBUTTON & ASSY.	EA	7
8105	FURNISH & DELIVER APS CENTRAL CONTROL UNIT	EA	1

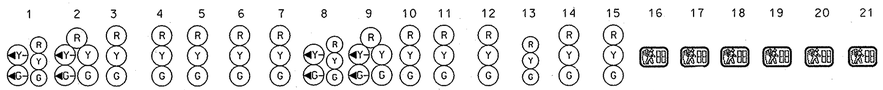
* - MOT QUANTITIES ARE SHOWN ON LAST GI SHEET

** - REMOVE & DISPOSE QUANTITIES ARE SHOWN ON THE LAST GI SHEET

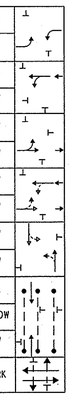
EQUIPMENT LIST "C"

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

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PHASE 1 & 5	◄G-/R	◄G-/R	R	R	R	R	R	◄G-/R	◄G-/R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																					
PHASE 1 & 6	◄G-/G	◄G-/G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	R	R	G	G	◄G-/G	◄G-/G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	R	R	R	R	R	G	G	◄Y-/G	◄Y-/G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	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	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	WK	WK	WK	WK	WK	WK
PED CLEAR	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 CHANGE ALT	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK



WIRING KEY

A, B, C, D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

E - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

F - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

EX - TIE INTO EXISTING CABLE

TOD No: AT355-20
SHA: WO421A58/ B58
Worcester Co.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (COASTAL HWY.) AT
48TH / 49TH STREETS
OCEAN CITY, MARYLAND

GENERAL INFORMATION SHEET

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CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE:(410)728-2900 FAX:(410)383-3270

SCALE 1"= 20' DATE 01/2006 CONTRACT NO. AT3555185

DESIGNED BY TC
DRAWN BY TC
CHECKED BY DAE
FAP NO.

COUNTY WORCESTER
LOGMILE 23052805.51
TIMS NO. H292
TOD NO.

TS NO. 1859E-GI | DRAWING - OF | SHEET NO. 8 OF 18