PROJECT DESCRIPTION

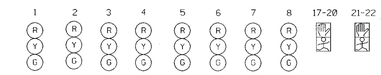
GENERAL

THIS PROJECT INVOLVES CONVERTING THE EXISTING INTERSECTION CONTROL BEACON TO A FULLY ACTUATED SIGNAL. AT THE INTERSECTION OF MD 212 AND EVANS TRAIL/ALLVIEW DR. IN PRINCE GEORGES COUNTY. MD 212 IS ASSUMED TO RUN IN A EAST/WEST DIRECTION

INTERSECTION OPERATION

THE INTERSECTION SHALL OPERATE IN A NEMA TWO-PHASE FULLY-ACTUATED MODE.
THE MOVEMENTS ALONG MD 212 SHALL OPERATE CONCURRENTLY WITH PEDESTRIAN PHASING AND THE MOVEMENTS ALONG EVANS TRAIL/ALLVIEW SHALL OPERATE CONCURRENTLY WITH AN ALTERNATE PEDESTRIAN PHASE.

PHASE CHART



	1	2	3	4	5	6	7	8	17-20	21-22
Phase 2 & 6	G	G	G	G	R	R	R	R	WK	DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	FL/DW	DW
Phase 4 & 8	R	R	R	R	Y	Y	Y	Y	DW	DW
4 & 8 Change	Y	Y	Y	Y	R	R	R	R	DW	DW
4 & 8 Alt.	R	R	R	R	G	G	G	G	DW	WK
Ped. Clear	R	R	R	R	Y	Y	Y	Y	DW	FL/DW
4 & 8 Alt. Change	R	R	R	R	G	G	G	G	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

EQUIPMENT LIST

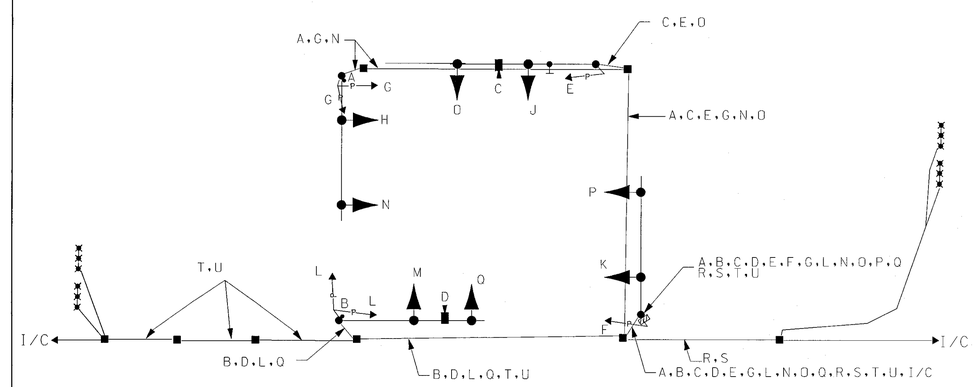
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EA	[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER
9042	1 EA	[UPDATED] CONTROLLER ASC II WITH TELEMETRY
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	18 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN TO CONSIST OF TWO "NEW SIGNAL AHEAD" SIGN ASSEMBLS 36" X 36"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 ea	MAINTENANCE OF TRAFFIC
5003	500 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	125 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	100 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
8001	12 EA	12 INCH PEDESTRIAN SIGNAL HEAD
8011	2 EA	PUSHBUTTON AND SIGN
8013	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8022	24 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8037	4 EA	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
8042	18 SF	INSTALL GROUND MOUNTED SIGN
8044	2 EA	VIDEO DETECTION CAMERA
8045	2 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8053	24 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8056	280 LF	ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
8057	100 LF	ELECTRICAL CABLE-3 CONDUCTOR (NO. 14 AWG)
8058	400 LF	ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)
8059	600 LF	ELECTRICAL CABLE-7 CONDUCTOR (NO. 14 AWG)
8061	225 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

WIRING DIAGRAM



A - B - 2-CONDUCTOR CABLE (NO. 14 AWG)
C - D - VIDEO DETECTOR CABLE
E - F - 3-CONDUCTOR CABLE (NO. 14 AWG)
G - M - 5-CONDUCTOR CABLE (NO. 14 AWG)
N - Q - 7-CONDUCTOR CABLE (NO. 14 AWG)
R - U - PROBE DETECTOR CABLE
I/C - EXISTING INTERCONNECT CABLE

REVISIONS
A 6-10-03 CHANGE FROM ICB TO FULL SIGNAL SHA NO. AT2885185

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

MD 212 AND EVANS TRAIL/ALLVIEW DRIVE

DRAWN BY: BRUCE THOMPSON	F.A.P. NO.	TS NO. 3484 A	SHEET NO.
CHECKED BY:	S.H.A. NO.		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. F693	OF
DATE: REDRAWN 4-24-03	LOG MILE: 16021207.46		