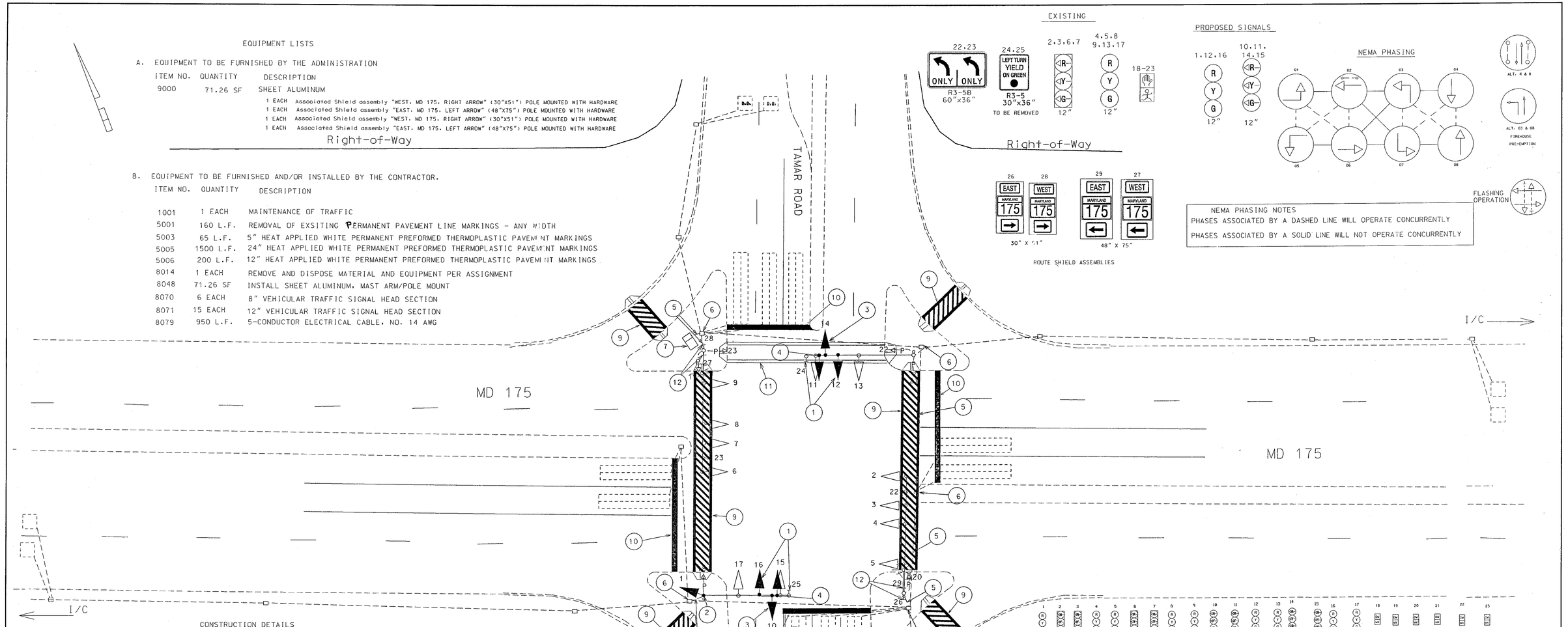
EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9000	71.26 SF	SHEET ALUMINUM
	1 EACH	Associated Shield assembly "WEST, MD 175, RIGHT ARROW" (30"X51") POLE MOUNTED WITH HARDWARE
	1 EACH	Associated Shield assembly "EAST, MD 175, LEFT ARROW" (48"X75") POLE MOUNTED WITH HARDWARE
	1 EACH	Associated Shield assembly "WEST, MD 175, RIGHT ARROW" (30"X51") POLE MOUNTED WITH HARDWARE
	1 EACH	Associated Shield assembly "EAST, MD 175, LEFT ARROW" (48"X75") POLE MOUNTED WITH HARDWARE

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

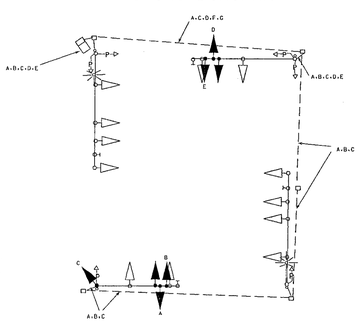
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
5001	160 L.F.	REMOVAL OF EXSITING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5003	65 L.F.	5" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	1500 L.F.	24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	200 L.F.	12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8014	1 EACH	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT
8048	71.26 SF	INSTALL SHEET ALUMINUM, MAST ARM/POLE MOUNT
8070	6 EACH	8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8071	15 EACH	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8079	950 L.F.	5-CONDUCTOR ELECTRICAL CABLE, NO. 14 AWG



CONSTRUCTION DETAILS

1. REMOVE EXISTING ONE-WAY, FIVE-SECTION SIGNAL HEAD, R10-12 SIGN, AND INSTALL ONE-WAY THREE-SECTION (R,Y,G) SIGNAL HEAD. (EXISTING WIRING TO BE UTILIZED)
2. INSTALL NEARSIDE (R,Y,G) HEAD TO THE EXISTING MAST ARM POLE.
3. INSTALL NEARSIDE SIGNAL HEAD (R,Y,G ARROW) SIGNAL HEAD ON EXISTING MAST ARM.
4. INSTALL SIGNAL HEAD (R,Y,G ARROW) ON EXISTING MAST ARM.
5. USE EXISTING CONDUIT TO RUN ELECTRICAL CABLE BACK TO CABINET.
6. USE EXISTING HANDHOLE.
7. UTILIZE EXISTING CABINET.
8. INSTALL AN ADDITIONAL 65' OF 5" WHITE PAVEMENT MARKING TAPE IN NB LEFT-TURN STORAGE LANE.
9. INSTALL NEW CROSSWALK (12" WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKING TAPE.
10. INSTALL NEW STOPLINE (24" HEAT APPLIED WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE).
11. GRIND AND REMOVE EXISTING PAVEMENT MARKING (CROSSWALK)..
12. INSTALL ROUTE SHIELD ASSEMBLY TO EXISTING UPRIGHT MAST ARM POLE.

WIRING DIAGRAM



A.B.C.D 5-CONDUCTOR ELECTRICAL CABLE NO. 14 AWG

ES EXISTING SERVICE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Phase 1 & 5	R	◄G-	◄G-	R	R	◄G	◄G	R	R	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																							
Phase 1 & 6	G	◄G-	◄G-	G	G	◄R	◄R	R	R	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
1 Change	Y	◄Y-	◄Y-	Y	Y	◄R	◄R	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	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
5 Change	R	◄R	◄R	R	R	◄Y	◄Y	Y	Y	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
Phase 2 & 6	G	◄R	◄R	G	G	◄R	◄R	G	G	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	W	W	
2 & 6 Ped Clear	G	◄R	◄R	G	G	◄R	◄R	G	G	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	
2 & 6 Change	Y	◄R	◄R	Y	Y	◄R	◄R	Y	Y	◄R	◄R	R	R	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
Phase 3 & 7	R	◄R	◄R	R	R	◄R	◄R	R	R	◄G	◄G	R	R	◄G	◄G	R	R	DW	DW	DW	DW	DW	DW	
3 & 7 Change	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8																	DW	DW	DW	DW	DW	DW	
Phase 3 & 8	R	◄R	◄R	R	R	◄R	◄R	R	R	◄G	◄G	G	G	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
3 Change	R	◄R	◄R	R	R	◄R	◄R	R	R	◄Y	◄Y	Y	Y	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
Phase 4 & 7	R	◄R	◄R	R	R	◄R	◄R-	R	R	◄R	◄R	R	R	◄G	◄G	G	G	DW	DW	DW	DW	DW	DW	
7 Change	R	◄R	◄R	R	R	◄R	◄R-	R	R	◄R	◄R	R	R	◄Y	◄Y	G	G	DW	DW	DW	DW	DW	DW	
Phase 4 & 8	R	◄R	◄R	R	R	◄R	◄R	R	R	◄R	◄R	G	G	◄R	◄R	G	G	DW	DW	DW	DW	DW	DW	
4 & 8 Change	R	◄R	◄R	R	R	◄R	◄R	R	R	◄R	◄R	Y	Y	◄R	◄R	Y	Y	DW	DW	DW	DW	DW	DW	
4 & 8 Alt.	R	◄R	◄R	R	R	◄R	◄R	R	R	◄R	◄R	G	G	◄R	◄R	G	G	W	W	W	W	DW	DW	
Ped.Clear	R	◄R	◄R	R	R	◄R	◄R	R	R	◄R	◄R	G	G	◄R	◄R	G	G	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	
4 & 8 Alt.Change	R	◄R	◄R	R	R	◄R	◄R	R	R	◄R	◄R	Y	Y	◄R	◄R	Y	Y	DW	DW	DW	DW	DW	DW	
Pre-empt 1	R	◄R	◄R	R	R	◄R	◄R	R	R	◄G	◄G	G	G	◄R	◄R	R	R	DW	DW	DW	DW	DW	DW	
Clear	R	◄R	◄R	R	R	◄R	◄R	R	R	◄Y	◄Y	Y	Y	◄R	◄R	R	R	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/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES

REVISIONS	
D.	INSTALL NEARSIDE/ CHANGE TO EXCLUSIVE LEFT-TURN PHASING ON NB/SB TAMAR DR. 1/03
MEL	

APPROVALS

ORIGINAL

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

NOTED

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

ON

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

FILE

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 175 AND TAMAR DRIVE

DRAWN BY: GENE SIMMERS	F.A.P. NO.		TS NO. 469D	SHEET NO.
CHECKED BY:	S.H.A. NO.	HOWARD COUNTY		
SCALE: 1" = 20'	COUNTY:	HOWARD	T.I.M.S. NO. F764	1 OF 1
DATE: 10-25-85	LOG MILE:	13017505.06		