PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT IS LOCATED AT THE INTERSECTION OF CORPORATE CENTER DR AND HANOVER RD IN ANNE ARUNDEL COUNTY, MARYLAND AND INVOLVES ROADWAY CONSTRUCTION AND THE CONSTRUCTION OF A NEW SIGNAL THAT IS EFFECTED BY THIS CONSTRUCTION. HANOVER RD IS ASSUMED TO RUN IN A EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE, FULLY TRAFFIC ACTUATED MODE. THE HANOVER RD APPROACHES WILL OPERATE CONCURRENTLY, WITH AN EXCLUSIVE/PROTECTED-PERMISSIVE LEFT TURN PHASE FOR WESTBOUND TRAFFIC. THE CORPORATE CENTER DR APPROACH WILL OPERATE SEPARATELY, WITH AN EXCLUSIVE/PROTECTED - PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND TRAFFIC.

A NEW EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER WITH TWO (2) FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFIERS, TELEMETRY MODULE HOUSED IN A NEMA SIZE SIX (6) BASE MOUNTED SYSTEM CABINET WILL BE INSTALLED.

THE CONTACT PERSONS FOR THE PROJECT ARE AS FOLLOWS:

The Maryland Aviation Administration Representative is:

Mr.Benjamin Chin
Division of Facilities Design
991 Corporate Blvd
Linthicum, MD 21090
(410) 859-7093

The State Highway Administration Office of Traffic Representatives are:

Mr. Richard Daff
Chief Traffic Operations
(410) 787-7630

Mr. Ed Rodenhizer
Team Leader Signal Operations
(410) 787-7650

Mr. Eugene Bally
Team Leader Sign Operations
(410) 787-7676

Ms. Darlene Elde
Supply Officer Signal Warehouse
(410) 787-7666

The State Highway Administration District 5 Representatives are:

Ms. Kimberly Tran
Asst. District Engineer - Traffic
(410) 841-1003

Mr. Charles George
Asst. District Engineer - Maintenance
(410) 841-1002

Mr. John Mays
Utilities Engineer
(410) 841-1005

Mr. Mark Coblentz
Asst. District Engineer - Construction
(410) 841-1004

The Power Company Representative is:

Mrs.Virginia Humphrey
Baltimore Gas And Electric
Industrial/Commercial Services
New Business Construction
7317 Parkway Drive South
Hanover, MD 21076

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EA	(CONT/CAB/ADD) DETECTOR RACK POWER SUPPLY
9016	2 EA	4 CHANNEL DETECTOR AMPLIFIER
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY
9044	1 EA	CONTROLLER CABINET, SIZE 6
9570	12.5 SF	SHEET ALUMINUM GROUND MOUNTED SIGN
9571	73 SF	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN

SHEET ALUMINUM SIGNS TO CONSIST OF:

2 EA — D3-1 SIGN (16 IN. X 96 IN.) "CORP CENTER DR" DUAL FACED MAST ARM MOUNT

2 EA — D3-1 SIGN (16 IN. x 96 IN.) "HANOVER RD" DUAL FACED MAST ARM MOUNT

2 EA — R10-12 SIGN (30 IN. X 36 IN.) "LEFT TURN YIELD ON GREEN" MAST ARM MOUNT

2 EA — R3-5R SIGN (30 IN. x 36 IN.) "LANE USE CONTROL - RIGHT ONLY" MAST ARM MOUNT

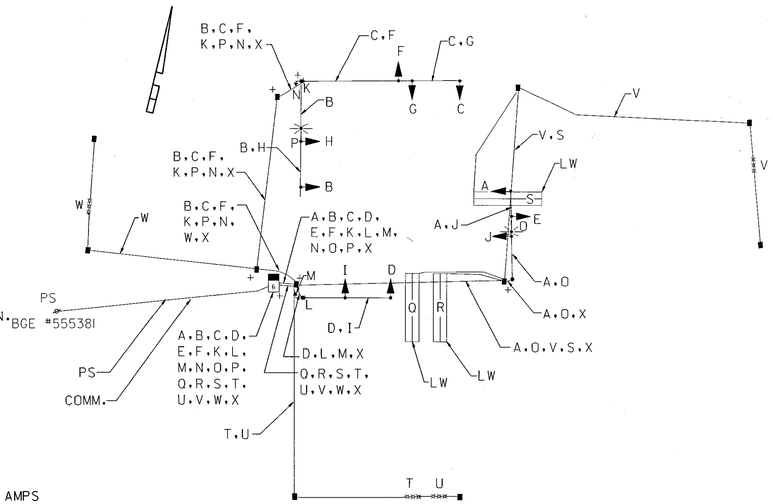
2 EA — R3-7R SIGN (30 IN. x 30 IN.) "LANE USE CONTROL RIGHT LANE MUST TURN RIGHT" - GROUND MOUNT

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	5 CY	TEST PIT EXCAVATION
5006	90 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8001	11 CY	CONCRETE FOUNDATION
8002	4 EA	12 IN PED SIG HEAD SECTION
8017	3 EA	PAINT STRUCTURE ON GROUND
8019	1 EA	REMOVE AND DISPOSE MATERIALS AND EQUIP PER ASSIGN. BGE #555381
8027	30 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8029	250 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8031	50 LF	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8034	80 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8035	80 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8036	255 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8037	530 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8038	800 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8039	570 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8045	1 EA	ELEC. UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8048	3 EA	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
8049	1 EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
8052	13 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8054	12.5 SF	INSTALL GROUND MOUNTED SIGN
8055	73 SF	INSTALL OVERHEAD SIGN
8061	2 EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
8065	1 EA	STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS
8069	2 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8073	6 EA	GROUND ROD -3/4 INCH DIAMETER X 10 FOOT LENGTH
8074	6 EA	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8075	34 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8080	425 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8081	170 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8082	155 LF	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
8083	140 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8084	1120 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8085	340 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
8086	1450 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8087	440 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8088	2 EA	PUSHBUTTON AND SIGN
8089	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8094	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

C. MATERIAL TO BE REMOVED AND RETURNED TO SHA

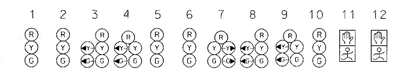
NONE



WIRING KEY

- A,B,C,D,E,F — 7-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- G,H,I,J,N — 5-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- K,L — 2-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- M — 3-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- Q,R,S — 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
- O,P — 2-CONDUCTOR ELECTRICAL CABLE (NO.12 A.W.G.)
- X — STRANDED BARE COPPER GROUND WIRE (NO.6 A.W.G.)
- T,U,V,W — NON-INVASIVE LOOP DETECTOR LEAD-IN
- + - 3/4 IN. x 10 FT. GROUND ROD
- LW - LOOP WIRE (NO.14 A.W.G)
- PS - POWER SERVICE UNDERGROUND
- COMM. - COMMUNICATIONS

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 & 5	R	R	G/G	G/G	G	R	R/G	R	R	R	DW	DW
PHASE 2 & 5 CHANGE	R	R	G/Y	G/Y	G	R	R/Y	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	DW	DW
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW
PHASE 4 & 7	R	R	R	R	R	R	R	G/G	G/G	G	DW	DW
PHASE 4 & 7 CHANGE	R	R	R	R	R	R	R	G/Y	G/Y	G	DW	DW
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	G	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	G	G	G	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW
PHASE 4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

SHA: BW&AM88 TOD#: AT357-28

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNAL DETAILS -
HANOVER RD AND CORPORATE CENTER DR

DRAWN BY: D. EBY	F.A.P. NO. N/A	TS NO. 4277	SHEET NO. SIG-02
CHECKED BY: M. RUCKER	S.H.A. NO. AT3575185		
SCALE: NONE	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. F551	
DATE: 3.01.04	LOG MILE: -		

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