PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing signal to provide for additional through and left turn lanes along US Route 1 (Baltimore Avenue), a new median along US Route 1, and the addition of IKEA Centre Blvd. to the north side of the intersection. The existing signal pole on the north-west side of the intersection will be removed and new signal poles and mast arms will be installed at all four corners of the intersection. Detection cameras will be installed for the left turn lanes along US 1 and all of the "at signal" lanes for the minor roads. Micro-probes will be used for the advanced detection along US Route 1.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with the East-West approaches running seperately.

III. CONTROLLER REQUIREMENT

1. Install a fully-actuated, eight phase controller with two (2) four channel, time-delay-output loop detector amplifiers, and associated harnesses housed in a NEMA size "6" base mounted cabinet.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
(301) 513-7311

MR. DENNIS McMAHON
ADE CONSTRUCTION
(301) 513-7345

MR. RICHARD DAFF
DIVISION CHIEF, TOD
(410) 787-7630

MR. MAJID SHAKIB
ADE TRAFFIC
(301) 513-7358

MR. BARRY KING
CHIEF, TEDD
(410) 787-4011

MR. EDWARD RODENHIZER
CHIEF OF SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST B

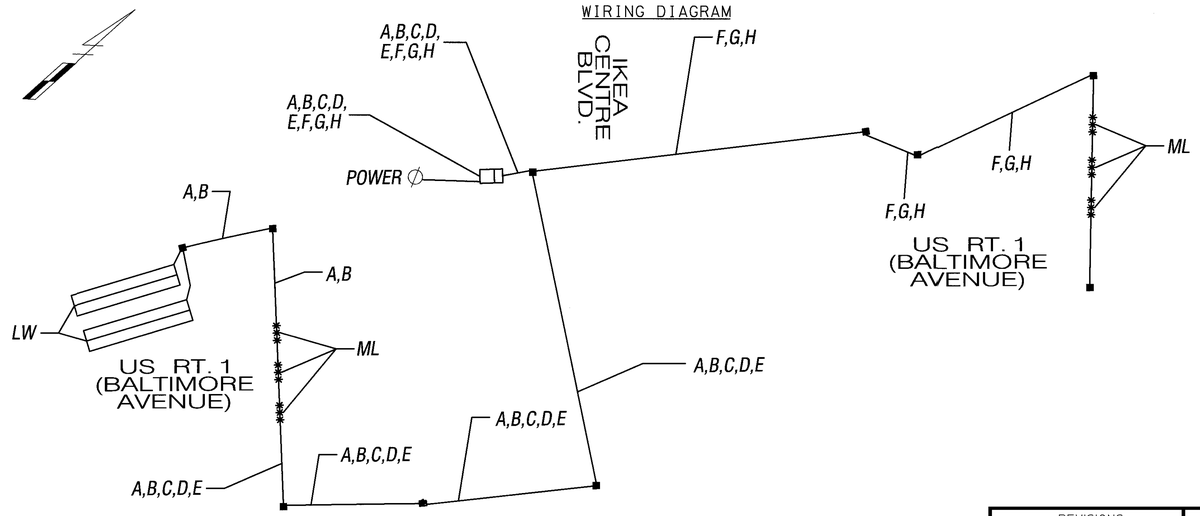
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

QUANTITY	DESCRIPTION
570 LF	FURNISH AND INSTALL 12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
220 LF	FURNISH AND INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
600 LF	FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR ALUM. SHIELDED (NO. 14 AWG)
6 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
40 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEX. CONDUIT (DETECTOR SLEEVE)
250 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (DETECTORS)
900 LF	FURNISH AND INSTALL LOOP WIRE (NO. 14 AWG)
2 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, FIVE SECTION (R,Y,G,YA,GA) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

PHASING SEQUENCE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PHASE 01 & 05	◀G—	◀G—	◀G—	R	R	◀G—	◀G—	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 01 & 05 CHANGE	◀Y—	◀Y—	◀Y—	R	R	◀Y—	◀Y—	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 01 & 06	◀G—	◀G—	◀G—	G	G	◀R—	◀R—	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PED CLEAR	◀G—	◀G—	◀G—	G	G	◀R—	◀R—	R	R	R	R	R	R	R	R	DW	FL\DW	FL\DW	DW	DW	DW
PHASE 01 & 06 CHANGE	◀Y—	◀Y—	◀Y—	Y	Y	◀R—	◀R—	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 02 & 05	◀R—	◀R—	◀R—	R	R	◀G—	◀G—	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PED CLEAR	◀R—	◀R—	◀R—	R	R	◀G—	◀G—	G	G	R	R	R	R	R	R	FL\DW	DW	DW	FL\DW	DW	DW
PHASE 02 & 05 CHANGE	◀R—	◀R—	◀R—	R	R	◀Y—	◀Y—	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 02 & 06	◀R—	◀R—	◀R—	G	G	◀R—	◀R—	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	◀R—	◀R—	◀R—	G	G	◀R—	◀R—	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL\DW	DW	DW
PHASE 02 & 06 CHANGE	◀R—	◀R—	◀R—	Y	Y	◀R—	◀R—	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 03	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	G	G ◀G—	G	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 03 CHANGE	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 04	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	R	R	R	G	G ◀G—	G	DW	DW	DW	DW	DW	DW
PHASE 04 CHANGE	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 04 ALT	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	R	R	R	G	G ◀G—	G	DW	DW	DW	DW	WK	WK
PED CLEAR	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	R	R	R	G	G ◀G—	G	DW	DW	DW	DW	FL/DW	FL/DW
PHASE 04 ALT CHANGE	◀R—	◀R—	◀R—	R	R	◀R—	◀R—	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/◀R—	FL/◀R—	FL/◀R—	FL/Y	FL/Y	FL/◀R—	FL/◀R—	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



A,B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) - ALUM. SH.
C,D,E,F,G,H	MICRO-LOOP PROBE LEAD-IN
LW	LOOP WIRE (NO. 14 A.W.G.)
ML	MICRO-LOOP PROBE SET

EQUIPMENT LIST B CONTINUED

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

QUANTITY	DESCRIPTION
120 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)
160 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED)
3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE

TS-2

REVISIONS

© MAST ARMS RELOCATED DUE TO GEOMETRIC IMPROVEMENTS 7/02 WAL

ENGINEERING-PLANNING-EARTH SCIENCES-SURVEYING
GREENHORNE & O'MARA, INC.
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(410) 583-6700
ANNAPOLIS,MD-BALTIMORE,MD-ATLANTA,GA-TAMPA,FL-FAIRFAX,VA-WEST PALM BEACH,FL
ROCKVILLE,MD-RALEIGH,NC-FREDERICKSBURG,VA-MECHANICSBURG,PA- ST.PETERSBURG,FL

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
Traffic Signal Plan (MOT Phase Ultimate)
US RT. 1 (BALTIMORE AVENUE) & IKEA CENTRE BLVD

DRAWN BY:	JEDNORSKI/STRAIN	F.A.P. NO.		TS NO. 3657 C-G	I SHEET NO.
CHECKED BY:	M. RUCKER	S.H.A. NO.	2385472502810		
SCALE:	1" = 20'	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO. F241 ~~F299~~	12 OF 22
DATE:	AUGUST 3, 2000	LOG MILE:	16.00D1D6.6B		

J:/TRANS/DEV-7224/SIGNALS/IKEA2(C).dgn
December 6, 2002 10:00