PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 155 AND MD 161 IN HARFORD COUNTY. THE SIGNAL INCLUDES WOOD POLES, SIGNAL HEADS AND A POLE MOUNTED CABINET WILL BE PROVIDED FOR MD 155 AND MD 161.

MD 155 RUNS IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

1. FLASHING OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE. THE MD 151 APPROACHES WILL BE A STOP CONDITION ON FLASHING RED AND THE SIDE ROAD (MD 161) WILL ALSO OPERATE IN A STOP CONDITION ON FLASHING RED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. SCOTT RANDALL
ASSISTANCE DISTRICT ENGINEER TRAFFIC
PHONE: 410-321-2781/2885

MS. SUENETTE POPE
ASSISTANCE DISTRICT ENGINEER-UTILITY
PHONE: 410-321-2841

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

MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-321-2761

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

PHASE CHART

	1	2	3	4	5	6
	R	R	R	R	R	R
Flashing Operation	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

PROPOSED SIGNALS

1-6
R
12"

EXISTING SIGNS

8,10,11 — NEW — STOP — ALL WAY — R1-1

7,9 — NEW — STOP AHEAD — W3-1a

NEMA PHASING

FLASHING OPERATION

NEMA NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

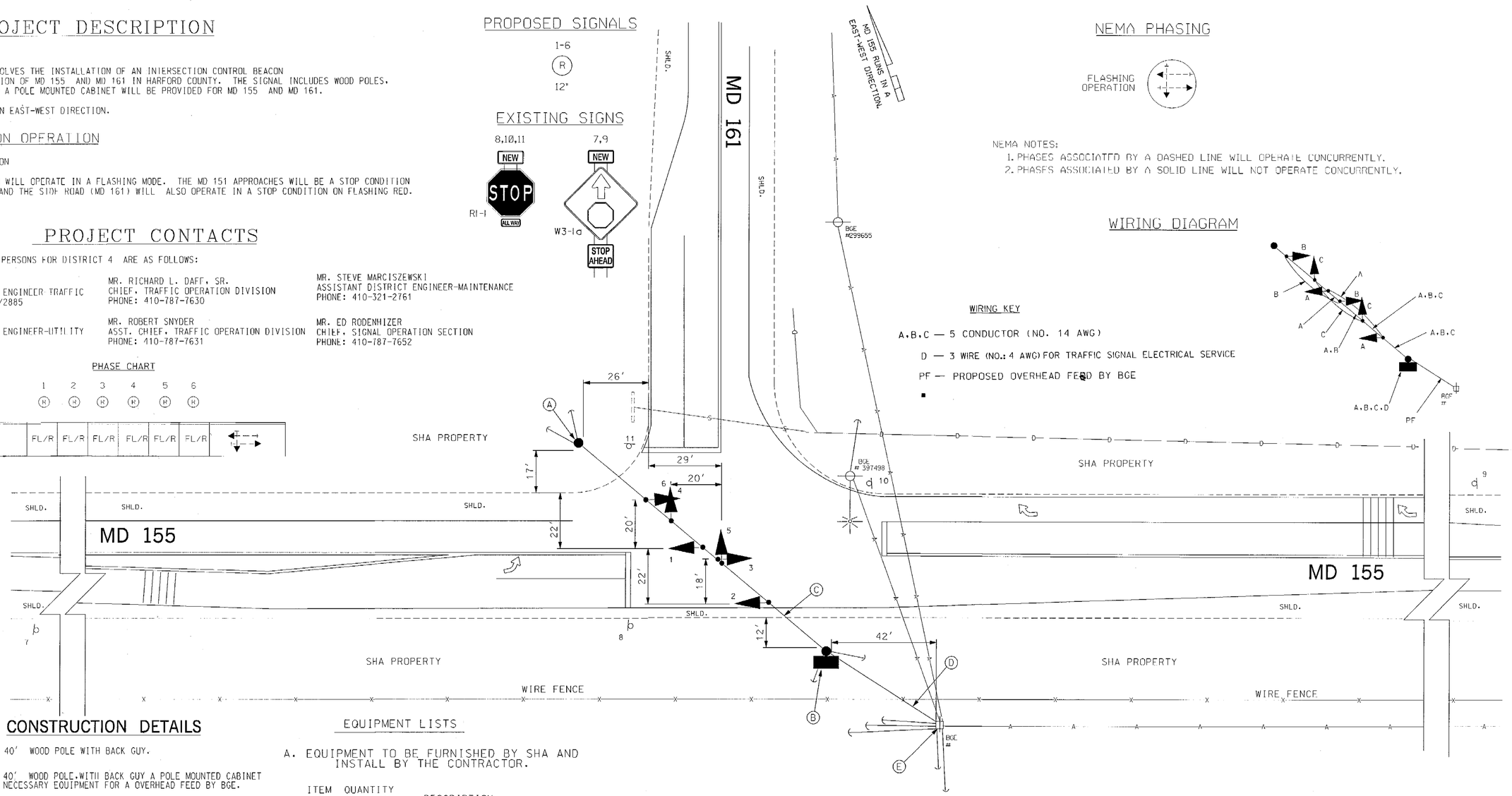
WIRING DIAGRAM

WIRING KEY

A,B,C — 5 CONDUCTOR (NO. 14 AWG)

D — 3 WIRE (NO.: 4 AWG) FOR TRAFFIC SIGNAL ELECTRICAL SERVICE

PF — PROPOSED OVERHEAD FEED BY BGE



CONSTRUCTION DETAILS

A. INSTALL 12" x 40' WOOD POLE WITH BACK GUY.

B. INSTALL 12" x 40' WOOD POLE WITH BACK GUY A POLE MOUNTED CABINET WITH ALL THE NECESSARY EQUIPMENT FOR A OVERHEAD FEED BY BGE.

C. INSTALL 3/8" SPAN WIRE AND VEHICLE SIGNAL HEADS AS SHOWN.

D. PROPOSED OVERHEAD FEED BY BGE

E. USE EXISTING UTILITY POLE FOR AN OVERHEAD FEED BY BGE

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALL BY THE CONTRACTOR.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9000	1	EA	CABINET INTERSECTION MONITOR, SIZE 5
9000	1	EA	CONTROLLER, ASC II

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2002	2	CY	TEST PIT EXCAVATION
8011	6	EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8020	1	EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V 1PHASE 3 WIRE SYSTEM)
8060	20	LF	FURNISH AND INSTALL NO 6 AWG STRANDED BARE COPPER GROUND WIRE
8070	75	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG- THHN/THWN
8084	550	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8092	1	EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8207	2	EA	CLASS II WOOD POLE WITH BACK GUYS
8090	140	LF	FURNISH AND INSTALL STEEL SPAN WIRE 3/8 INCH DIAMETER
8061	1	EA	FURNISH AND INSTALL SHC 80 PVC 1 1/4 INCH DIAMETER WEATHERHEAD
NEG	20	LF	FURNISH AND INSTALL SHC 80 PVC 1 1/4 INCH DIAMETER RISER
NEG	1	EA	FURNISH AND INSTALL SHC 80 PVC 3 INCH DIAMETER WEATHERHEAD
NEG	20	LF	FURNISH AND INSTALL SHC 80 PVC 3 INCH DIAMETER RISER

GENERAL NOTES:

1. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONRACTOR SHALL NOTIFY 240-777-2101 AT MONTGOMERY COUNTY 72 HOURS PROIR TO ANY CONSTRUCTTION SO THAT THE CONFLICT MAY BE RESOLVED.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

A — A	AERIAL CABLE
E — E	ELECTRIC
T — T	TELEPHONE
G — G	GAS
S — S	SEWER
W — W	WATER
TV — TV	CABLE TV
SD — SD	STORM DRAIN

BAI BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUNSEY ROAD; SUITE 110
COLUMBIA, MARYLAND 21045
(410)-884-3607

REVISIONS

APPROVALS
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION — 5/16/03
for Dimitrios A. Zafiris, ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 5-16-03
DIRECTOR, TRAFFIC & SAFETY — 5/16

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

MD 155 AND MD 161

HARFORD COUNTY

DRAWN BY:	M.A.MEARS	F.A.P. NO.		TS NO.	4248
CHECKED BY:	R. MILSTEAD	S.H.A. NO.	XX106538		
SCALE:	1" = 20'	COUNTY:	HARFORD	T.I.M.S. NO.	
DATE:	MAY 15, 2003	LOG MILE:	18015503.78	SHEET NO.	1 OF 1