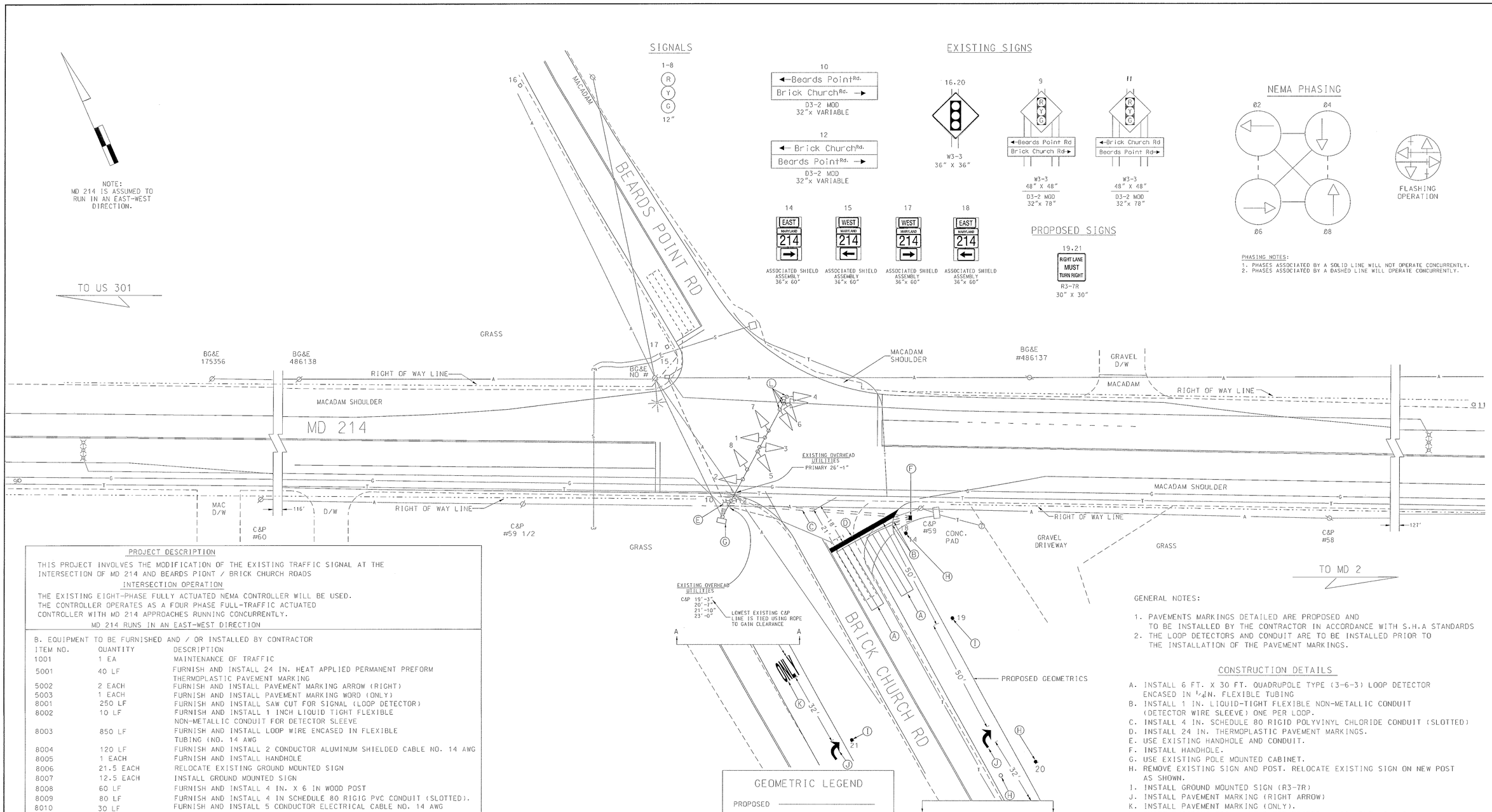


PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 214 AND BEARDS PIONT / BRICK CHURCH ROADS

INTERSECTION OPERATION

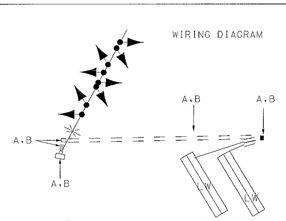
THE EXISTING EIGHT-PHASE FULLY ACTUATED NEMA CONTROLLER WILL BE USED.
THE CONTROLLER OPERATES AS A FOUR PHASE FULL-TRAFFIC ACTUATED CONTROLLER WITH MD 214 APPROACHES RUNNING CONCURRENTLY.

MD 214 RUNS IN AN EAST-WEST DIRECTION

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5001	40 LF	FURNISH AND INSTALL 24 IN. HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5002	2 EACH	FURNISH AND INSTALL PAVEMENT MARKING ARROW (RIGHT)
5003	1 EACH	FURNISH AND INSTALL PAVEMENT MARKING WORD (ONLY)
8001	250 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8002	10 LF	FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8003	850 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG
8004	120 LF	FURNISH AND INSTALL 2 CONDUCTOR ALUMINUM SHIELDED CABLE NO. 14 AWG
8005	1 EACH	FURNISH AND INSTALL HANDHOLE
8006	21.5 EACH	RELOCATE EXISTING GROUND MOUNTED SIGN
8007	12.5 EACH	INSTALL GROUND MOUNTED SIGN
8008	60 LF	FURNISH AND INSTALL 4 IN. X 6 IN WOOD POST
8009	80 LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGIG PVC CONDUIT (SLOTTED).
8010	30 LF	FURNISH AND INSTALL 5 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG

WIRING DIAGRAM



WIRING KEY

LW = LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG
A.B = 2 ALUMINUM SHIELDED CABLE NO. 14 AWG

GENERAL NOTES:

1. PAVEMENTS MARKINGS DETAILED ARE PROPOSED AND TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH S.H.A STANDARDS
2. THE LOOP DETECTORS AND CONDUIT ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.

CONSTRUCTION DETAILS

A. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE (3-6-3) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING
B. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT (DETECTOR WIRE SLEEVE) ONE PER LOOP.
C. INSTALL 4 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT (SLOTTED)
D. INSTALL 24 IN. THERMOPLASTIC PAVEMENT MARKINGS.
E. USE EXISTING HANDHOLE AND CONDUIT.
F. INSTALL HANDHOLE.
G. USE EXISTING POLE MOUNTED CABINET.
H. REMOVE EXISTING SIGN AND POST. RELOCATE EXISTING SIGN ON NEW POST AS SHOWN.
I. INSTALL GROUND MOUNTED SIGN (R3-7R)
J. INSTALL PAVEMENT MARKING (RIGHT ARROW)
K. INSTALL PAVEMENT MARKING (ONLY).
L. SHIFT EXISTING SIGNAL HEAD FOR PROPER ALLIGNMENT AS SHOWN

GEOMETRIC LEGEND

PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A	A
ELECTRIC	E	E
TELEPHONE	T	T
GAS	G	G
SEWER	S	S
WATER	W	W
CABLE TV	TV	TV

REVISIONS	APPROVALS
A REPLACE LOOP DETECTORS ON NB BRICK CHURCH RD DUE TO NEW GEOMETRICS 8/2000	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

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

MD 214 @ BEARDS POINT/BRICK CHURCH ROADS

DRAWN BY:	F.A.P. NO.	TS NO. 3439 A	SHEET NO.
CHECKED BY:	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. E 172	1 OF 1
DATE: 6-23-94	LOG MILE: 02021404.45		