MD 4 RUNS IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNALS & SIGNS

1 | 2 | 3.5-10 | 11 | 12.14.16 | 15

12" 8" | 12" | 12" | R10-12 36" x 42" | R3-5(R) 36" x 42" | R3-5(L) 36" x 42"

PROPOSED SIGNALS & SIGN

4 | 5 | 6 | 13

12" 8" | 12" | 12" | R10-12 36" x 42"

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
	10.5 S.F.	1 EACH R10-12 SIGN, 36" x 42", MAST ARM MOUNTED HARDWARE

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8015	10 EACH	F & I 12" VECHICULAR BLACK FACED TRAFFIC SIGNAL HEAD SECTION
8020	3 EACH	F & I 8" VECHICULAR BLACK FACED TRAFFIC SIGNAL HEAD SECTION
8028	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8039	20 L.F.	F & I 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8051	10.5 S.F.	INSTALL OVERHEAD MOUNTED SIGN
8059	140 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (ALUMINUM SHIELDED)
8062	30 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR CABLE (NO. 14 AWG)
8063	520 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8064	465 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8065	115 L.F.	F & I SAWCUT FOR SIGNAL (LOOP DETECTOR)

CONSTRUCTION DETAILS

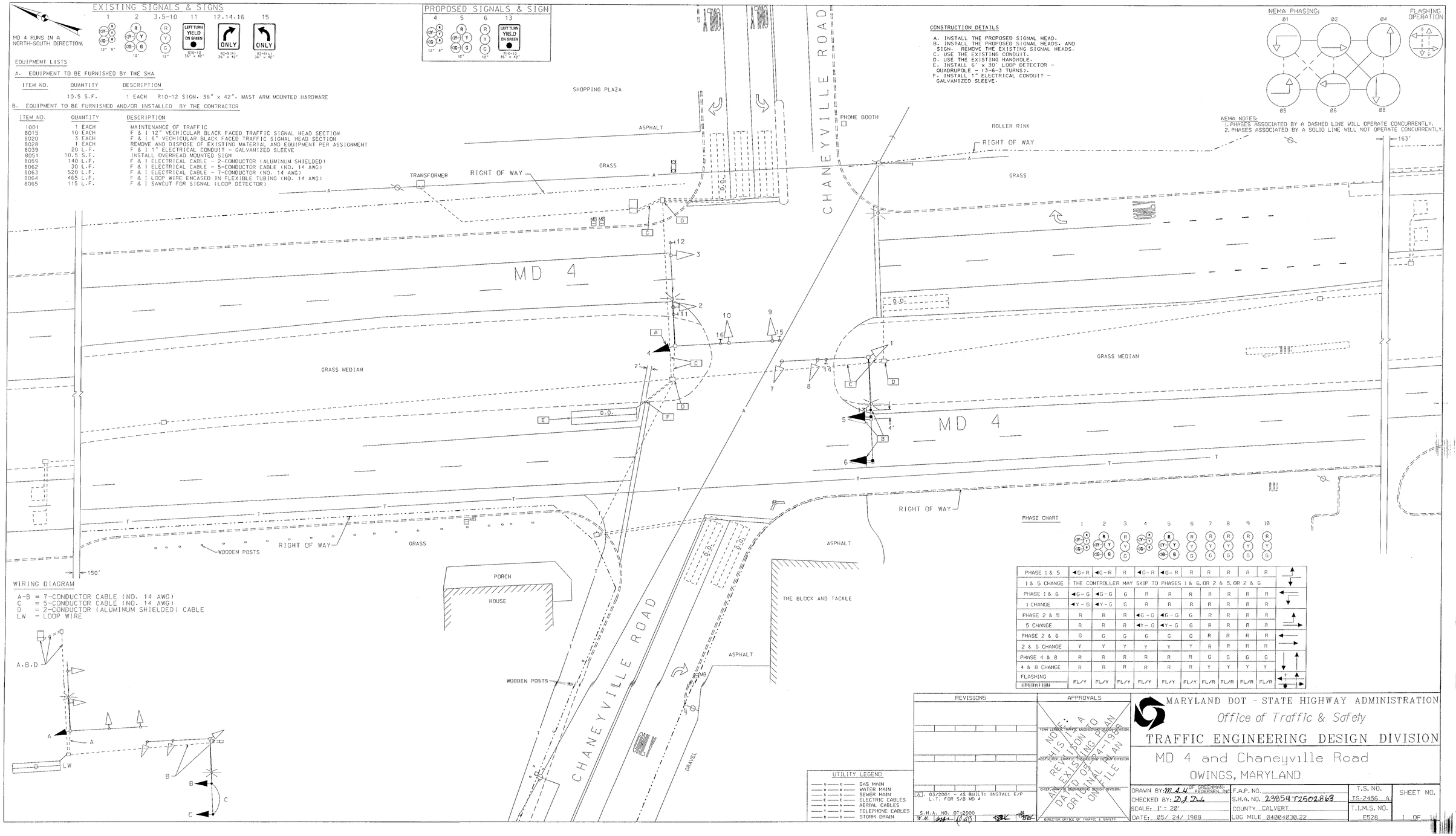
A. INSTALL THE PROPOSED SIGNAL HEAD.
B. INSTALL THE PROPOSED SIGNAL HEADS. AND SIGN. REMOVE THE EXISTING SIGNAL HEADS.
C. USE THE EXISTING CONDUIT.
D. USE THE EXISTING HANDHOLE.
E. INSTALL 6' x 30' LOOP DETECTOR - QUADRUPOLE - (3-6-3 TURNS).
F. INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE.

NEMA PHASING:

Ø1 Ø2 Ø4 Ø5 Ø6 Ø8

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

A-B = 7-CONDUCTOR CABLE (NO. 14 AWG)
C = 5-CONDUCTOR CABLE (NO. 14 AWG)
D = 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
LW = LOOP WIRE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10
PHASE 1 & 5	◄G-R	◄G-R	R	◄G-R	◄G-R	R	R	R	R	R
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
1 CHANGE	◄Y-G	◄Y-G	G	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	◄G-G	◄G-G	G	R	R	R	R
5 CHANGE	R	R	R	◄Y-G	◄Y-G	G	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

UTILITY LEGEND

GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
STORM DRAIN

REVISIONS

A. 03/2001 - AS BUILT: INSTALL E/P L.T. FOR S/B MD 4

S.H.A. NO. OT-2000

APPROVALS

NOTE: A REVISION TO AN EXISTING PLAN DATED 03-1988 ON FILE

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASSOCIATE, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 4 and Chaneyville Road
OWINGS, MARYLAND

DRAWN BY: M.A.H. OF GREENMAN-PEDERSEN, INC.
CHECKED BY: D.J. Dale
SCALE: 1" = 20'
DATE: 05/ 24/ 1988

F.A.P. NO.
S.H.A. NO. 23854T2502863
COUNTY CALVERT
LOG MILE 04004030.22

T.S. NO. TS-2456 A
T.I.M.S. NO. E528

SHEET NO. 1 OF 1