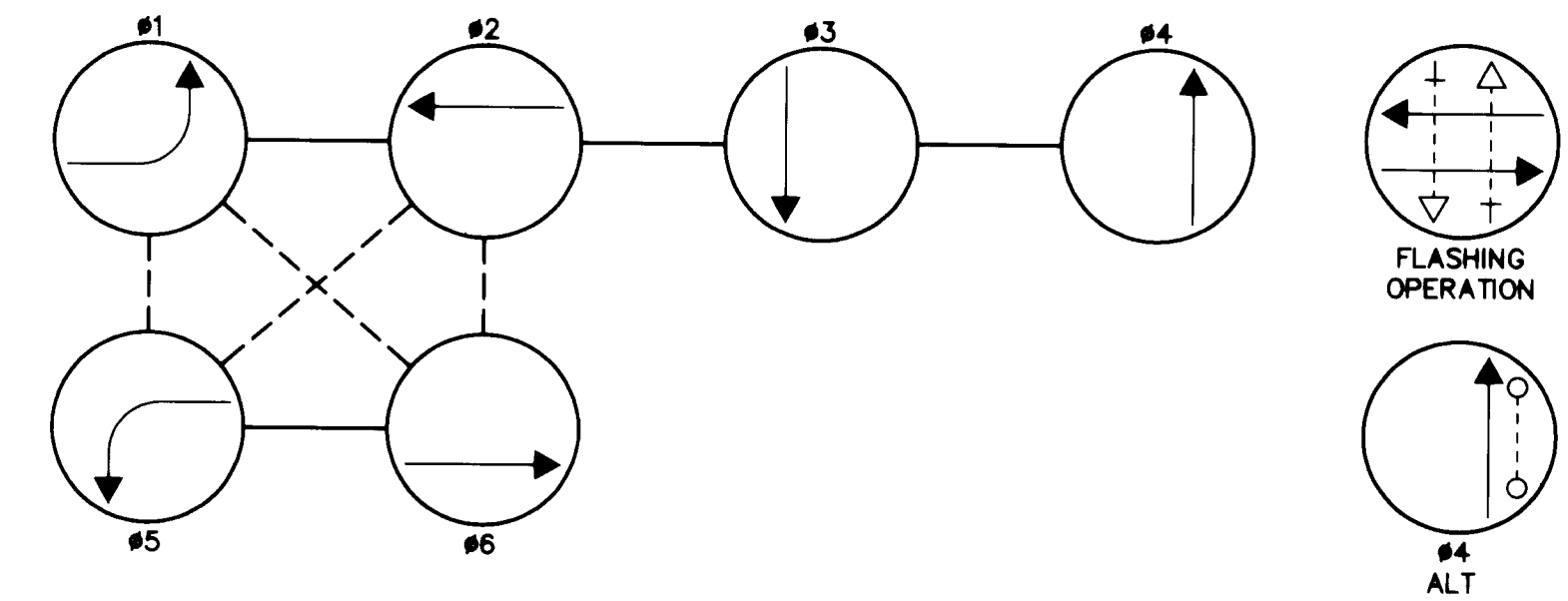


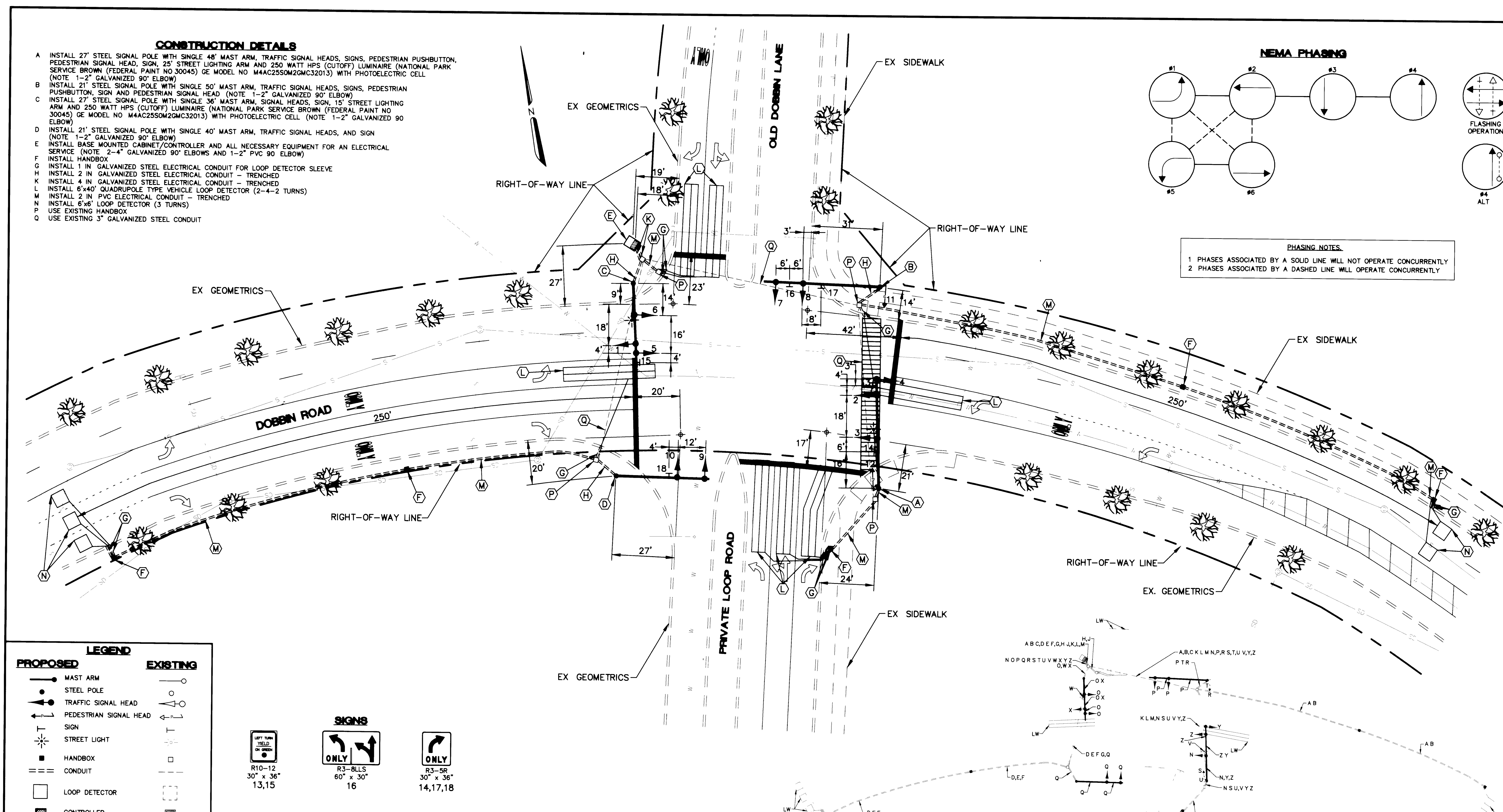
CONSTRUCTION DETAILS

- A INSTALL 27' STEEL SIGNAL POLE WITH SINGLE 48" MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN PUSHBUTTON, PEDESTRIAN SIGNAL HEAD, SIGN, 25' STREET LIGHTING ARM AND 250 WATT HPS (CUTOFF) LUMINAIRE (NATIONAL PARK SERVICE BROWN (FEDERAL PAINT NO 30045) GE MODEL NO M4AC2550M2GMC32013) WITH PHOTOELECTRIC CELL (NOTE 1-2" GALVANIZED 90° ELBOW)
- B INSTALL 21' STEEL SIGNAL POLE WITH SINGLE 50" MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN PUSHBUTTON, SIGN AND PEDESTRIAN SIGNAL HEAD (NOTE 1-2" GALVANIZED 90° ELBOW)
- C INSTALL 27' STEEL SIGNAL POLE WITH SINGLE 36" MAST ARM, SIGNAL HEADS, SIGN, 15' STREET LIGHTING ARM AND 250 WATT HPS (CUTOFF) LUMINAIRE (NATIONAL PARK SERVICE BROWN (FEDERAL PAINT NO 30045) GE MODEL NO M4AC2550M2GMC32013) WITH PHOTOELECTRIC CELL (NOTE 1-2" GALVANIZED 90° ELBOW)
- D INSTALL 21' STEEL SIGNAL POLE WITH SINGLE 40" MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGN (NOTE 1-2" GALVANIZED 90° ELBOW)
- E INSTALL BASE MOUNTED CABINET/CONTROLLER AND ALL NECESSARY EQUIPMENT FOR AN ELECTRICAL SERVICE (NOTE 2-4" GALVANIZED 90° ELBOWS AND 1-2" PVC 90° ELBOW)
- F INSTALL HANDBOX
- G INSTALL 1 IN GALVANIZED STEEL ELECTRICAL CONDUIT FOR LOOP DETECTOR SLEEVE
- H INSTALL 2 IN GALVANIZED STEEL ELECTRICAL CONDUIT - TRENCHED
- K INSTALL 4 IN GALVANIZED STEEL ELECTRICAL CONDUIT - TRENCHED
- L INSTALL 6"x40" QUADRUPOLE TYPE VEHICLE LOOP DETECTOR (2-4-2 TURNS)
- M INSTALL 2 IN PVC ELECTRICAL CONDUIT - TRENCHED
- N INSTALL 6"x6" LOOP DETECTOR (3 TURNS)
- P USE EXISTING HANDBOX
- Q USE EXISTING 3" GALVANIZED STEEL CONDUIT

NEMA PHASING



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



LEGEND

PROPOSED	EXISTING
MAST ARM	MAST ARM
STEEL POLE	STEEL POLE
TRAFFIC SIGNAL HEAD	TRAFFIC SIGNAL HEAD
PEDESTRIAN SIGNAL HEAD	PEDESTRIAN SIGNAL HEAD
SIGN	SIGN
STREET LIGHT	STREET LIGHT
HANDBOX	HANDBOX
CONDUIT	CONDUIT
LOOP DETECTOR	LOOP DETECTOR
CONTROLLER	CONTROLLER
CONTROLLER WITH PAD	CONTROLLER WITH PAD
WOOD POLE	WOOD POLE
FIRE HYDRANT	FIRE HYDRANT
MANHOLE	MANHOLE
WATER VALVE	WATER VALVE
GAS VALVE	GAS VALVE
GEOMETRICS TO BE CONSTRUCTED BY OTHERS DURING SIGNAL CONSTRUCTION	GEOMETRICS TO BE CONSTRUCTED BY OTHERS DURING SIGNAL CONSTRUCTION

SIGNS

R10-12 30" x 36" 13,15

R3-BLLS 60" x 30" 16

R3-5R 30" x 36" 14,17,18

UTILITY LEGEND

C	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
SD	STORM DRAIN
TV	CABLE TELEVISION
E	ELECTRIC CABLES
T	TELEPHONE CABLES
A	AERIAL CABLES

NOTES.

- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE STARTING CONSTRUCTION
- ALL PAVEMENT MARKINGS TO BE INSTALLED BY OTHERS

SIGNAL HEADS

1,2	3	4,5	6	7	8	9	10	11/12
(Y) (G)	(Y) (G)	(Y) (G)	(Y) (G)	(Y) (G)	(Y) (G)	(Y) (G)	(Y) (G)	(Y) (G)

WIRING LEGEND

A - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	O - 7 CONDUCTOR CABLE (NO 14 AWG)
B - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	P - 7 CONDUCTOR CABLE (NO 14 AWG)
C - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	Q - 7 CONDUCTOR CABLE (NO 14 AWG)
D - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	R - 3 CONDUCTOR CABLE (NO 14 AWG)
E - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	S - 3 CONDUCTOR CABLE (NO 14 AWG)
F - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	T - 2 CONDUCTOR CABLE (NO 14 AWG)
G - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	U - 2 CONDUCTOR CABLE (NO 14 AWG)
H - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	V - 2 CONDUCTOR TRAY CABLE (NO 12 AWG)
J - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	W - 2 CONDUCTOR TRAY CABLE (NO 12 AWG)
K - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	X - 7 CONDUCTOR CABLE (NO 14 AWG)
L - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	Y - 7 CONDUCTOR CABLE (NO 14 AWG)
M - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)	Z - 7 CONDUCTOR CABLE (NO 14 AWG)
N - 7 CONDUCTOR CABLE (NO 14 AWG)	LW - LOOP WIRE (NO 14 AWG)

A/E GROUP, INC. CERTIFIES THIS PLAN REFLECTS AS-BUILT CONDITIONS WITHIN THE LIMITS OF VISUAL OBSERVATIONS AFTER CONSTRUCTION AND INFORMATION PROVIDED BY OTHERS REGARDING SUBSURFACE CONSTRUCTION

AS-BUILT 10-18-96

SCALE 1" = 20'

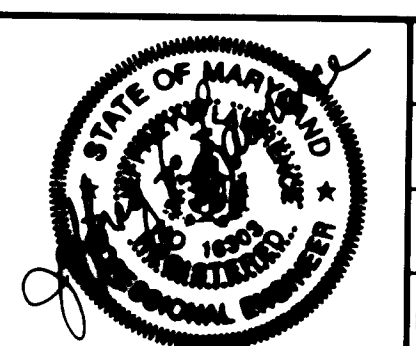
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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

10/30/96
 DATE

10/22/96
 DATE

A/E GROUP, INC.
 ENGINEERS • PLANNERS
 11409 Cronhill Drive
 Owings Mills, Maryland 21117
 A/E Job No 96-309-003



DES	JFL		
DRN	RAI		
CHK	EGS		
DATE	6/96	BY	NO
		REVISION	
		DATE	800' SCALE MAP NO

CAPITAL PROJECT NO.
T-7047NN

PLAN
DOBBIN ROAD AT OLD DOBBIN LANE
TRAFFIC CONTROL SIGNAL DESIGN

SCALE AS SHOWN
 SHEET 1 OF 1