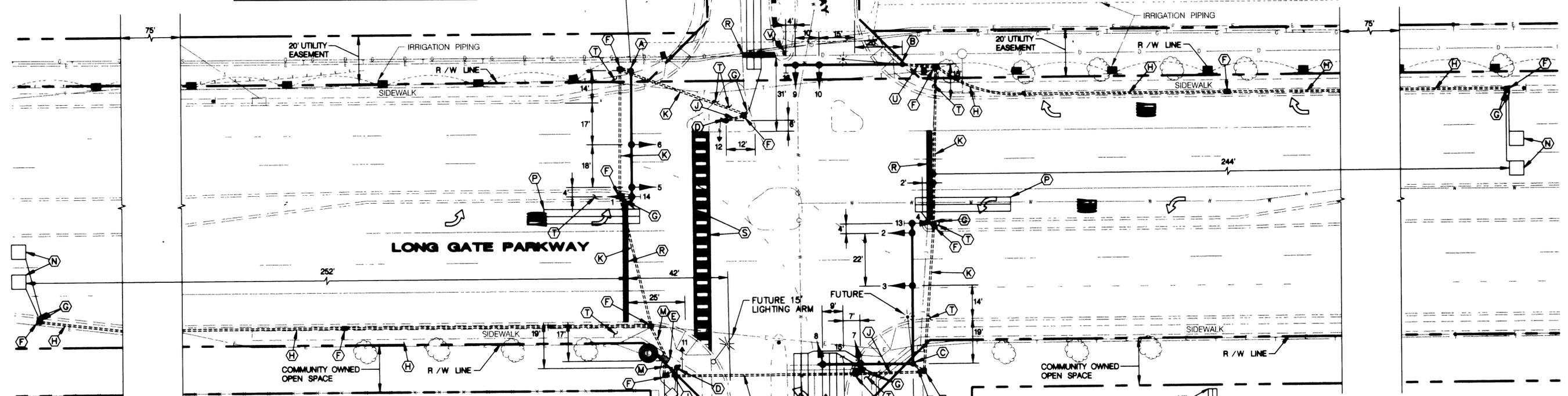


PHASING NOTES:
 1 PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
 2 PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

CONSTRUCTION DETAILS

- A INSTALL 27-FOOT STEEL SIGNAL POLE WITH 55-FOOT MAST ARM, TRAFFIC SIGNAL HEADS, SIGN, CONCRETE FOUNDATION, AND GROUND ROD (NOTE ONE 2-INCH GALVANIZED STEEL 90-DEGREE ELBOW)
- B INSTALL 27-FOOT STEEL SIGNAL POLE WITH 90-FOOT MAST ARM, TRAFFIC SIGNAL HEADS, SIGN, 20-FOOT STREET LIGHTING ARM (NATIONAL PARK SERVICE BROWN (FEDERAL PAINT NO 30046)), 250-WATT H.P.S (CUTOFF) LUMINAIRE (GE MODEL NO MAAC2550M2GMC32013) WITH PHOTOELECTRIC CELL, CONCRETE FOUNDATION, AND GROUND ROD (NOTE ONE 2-INCH GALVANIZED STEEL 90-DEGREE ELBOW)
- C INSTALL 27-FOOT STEEL SIGNAL POLE WITH 40-FOOT MAST ARM, 90-FOOT MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, 25-FOOT STREET LIGHTING ARM (NATIONAL PARK SERVICE BROWN (FEDERAL PAINT NO 30046)), 250-WATT H.P.S (CUTOFF) LUMINAIRE (GE MODEL NO MAAC2550M2GMC32013) WITH PHOTOELECTRIC CELL, CONCRETE FOUNDATION, AND GROUND ROD (NOTE ONE 2-INCH GALVANIZED STEEL 90-DEGREE ELBOW)
- D INSTALL 8-FOOT STEEL BREAKAWAY PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSH-BUTTON AND SIGN, CONCRETE FOUNDATION, AND GROUND ROD (NOTE ONE 2-INCH GALVANIZED STEEL 90-DEGREE ELBOW)
- E INSTALL BASE MOUNTED CABINET AND CONTROLLER, CONCRETE FOUNDATION, GROUND ROD AND ALL NECESSARY EQUIPMENT FOR AN ELECTRICAL SERVICE (NOTE TWO 4-INCH GALVANIZED STEEL ELBOWS AND ONE 2-INCH P.V.C 90-DEGREE ELBOW) (NOTE EXISTING SIDEWALK TO BE USED FOR CONTROLLER PAD)
- F INSTALL HANDBOX
- G INSTALL 1-INCH GALVANIZED STEEL ELECTRICAL CONDUIT FOR LOOP DETECTOR SLEEVE
- H INSTALL 2-INCH P.V.C ELECTRICAL CONDUIT (TRENCHED)
- J INSTALL 2-INCH GALVANIZED STEEL ELECTRICAL CONDUIT (TRENCHED)
- K INSTALL 2-INCH GALVANIZED STEEL ELECTRICAL CONDUIT (SLOTTED)
- L INSTALL 3-INCH GALVANIZED STEEL ELECTRICAL CONDUIT (PUSHED)
- M INSTALL 4-INCH GALVANIZED STEEL ELECTRICAL CONDUIT (TRENCHED)
- N INSTALL 6-FOOT BY 6-FOOT LOOP DETECTOR (3 TURNS)
- P INSTALL 6-FOOT BY 40-FOOT QUADRUPOLE TYPE VEHICLE LOOP DETECTOR (2-4-2 TURNS)
- R 24-INCH PAVEMENT MARKING FOR STOP BAR (BY OTHERS)
- S 12-INCH PAVEMENT MARKING FOR CROSS WALK (BY OTHERS)
- T SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK
- U INSTALL 2-INCH GALVANIZED STEEL ELECTRICAL CONDUIT (HAND TRENCHED)
- V REMOVE EXISTING STOP SIGN



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

SIGNAL HEADS

1	2	3	4	5	6	7	8	9	10	11	12

SIGNS

13,14 LEFT TURN YIELD ON GREEN	15,16 ONLY
R10-12 30"x36"	R3-5L 30"x36"

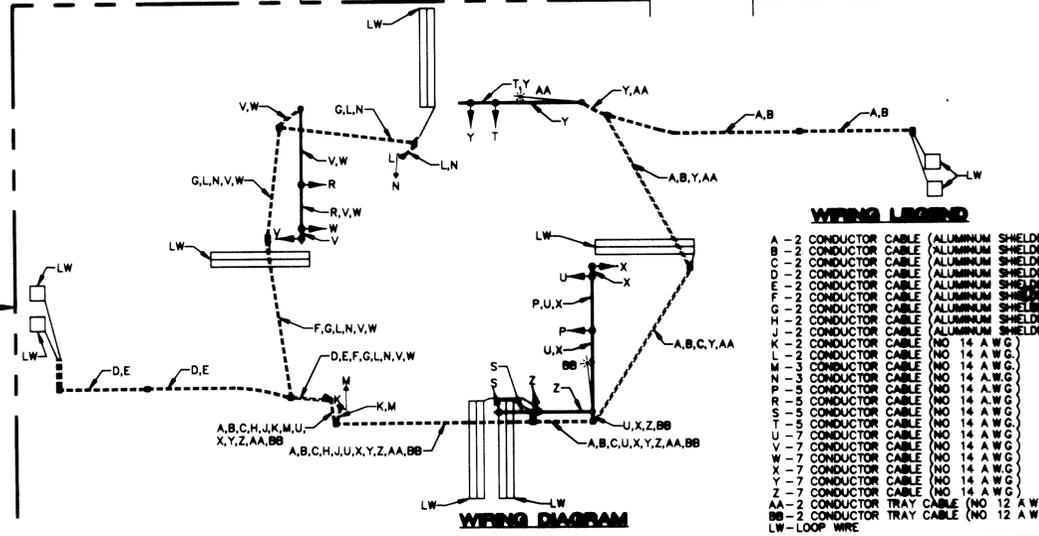
UTILITY LEGEND

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

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
06-09-97**

- NOTE:**
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE STARTING CONSTRUCTION AND HAND EXCAVATE OR TEST PIT ALL UTILITY CROSSINGS INCLUDING THE LONG GATE SHOPPING CENTER IRRIGATION SYSTEM
 - ALL POLE AND DETECTOR LOCATIONS TO BE VERIFIED BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS PERSONNEL BEFORE INSTALLATION BY CONTRACTOR
 - THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WILL OBTAIN EASEMENTS AS REQUIRED FOR THE INSTALLATION OF PROPOSED EQUIPMENT OUTSIDE THE LEGAL RIGHT-OF-WAY



WIRING LEGEND

A	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
B	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
C	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
D	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
E	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
F	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
G	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
H	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
J	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
K	2	CONDUCTOR CABLE (ALUMINUM SHEATHED)
L	2	CONDUCTOR CABLE (NO 14 A W G)
M	3	CONDUCTOR CABLE (NO 14 A W G)
N	3	CONDUCTOR CABLE (NO 14 A W G)
P	5	CONDUCTOR CABLE (NO 14 A W G)
R	5	CONDUCTOR CABLE (NO 14 A W G)
S	5	CONDUCTOR CABLE (NO 14 A W G)
T	5	CONDUCTOR CABLE (NO 14 A W G)
U	7	CONDUCTOR CABLE (NO 14 A W G)
V	7	CONDUCTOR CABLE (NO 14 A W G)
X	7	CONDUCTOR CABLE (NO 14 A W G)
Y	7	CONDUCTOR CABLE (NO 14 A W G)
Z	7	CONDUCTOR CABLE (NO 14 A W G)
AA	2	CONDUCTOR TRAY CABLE (NO 12 A W G)
BB	2	CONDUCTOR TRAY CABLE (NO 12 A W G)
LW		LOOP WIRE

**DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND**

DATE: 6/20/97
 DATE: 6/10/97
 DATE: 6/10/97

A/E GROUP, INC.
 ENGINEERS • PLANNERS
 181 E Main Street
 Westminster, Maryland 21158
 A/E Job No 96-309-009



DES	CHK	DATE	BY	NO	REVISION	DATE
JFL	M J G	3/97				
	EGS					

CAPITAL PROJECT NO.
T-7047LL

**LONG GATE PARKWAY AT
WHEATFIELD WAY AND
LONG GATE SHOPPING
CENTER DRIVEWAY**

SCALE
1" = 20'
SHEET
1 OF 1

LONGWHEA