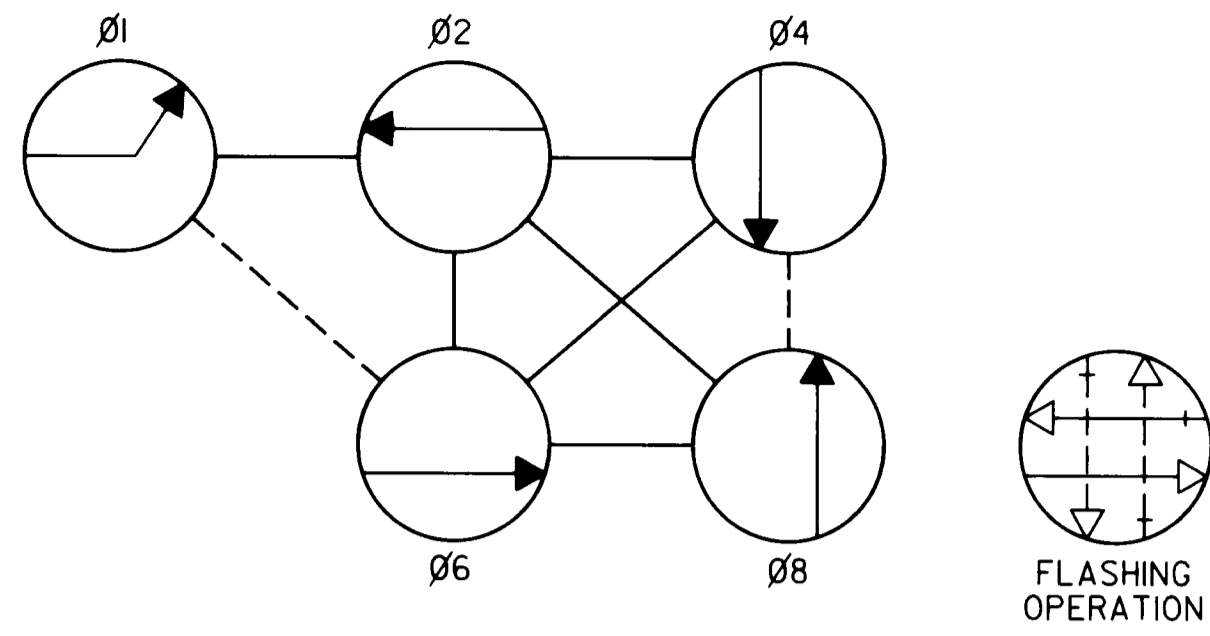


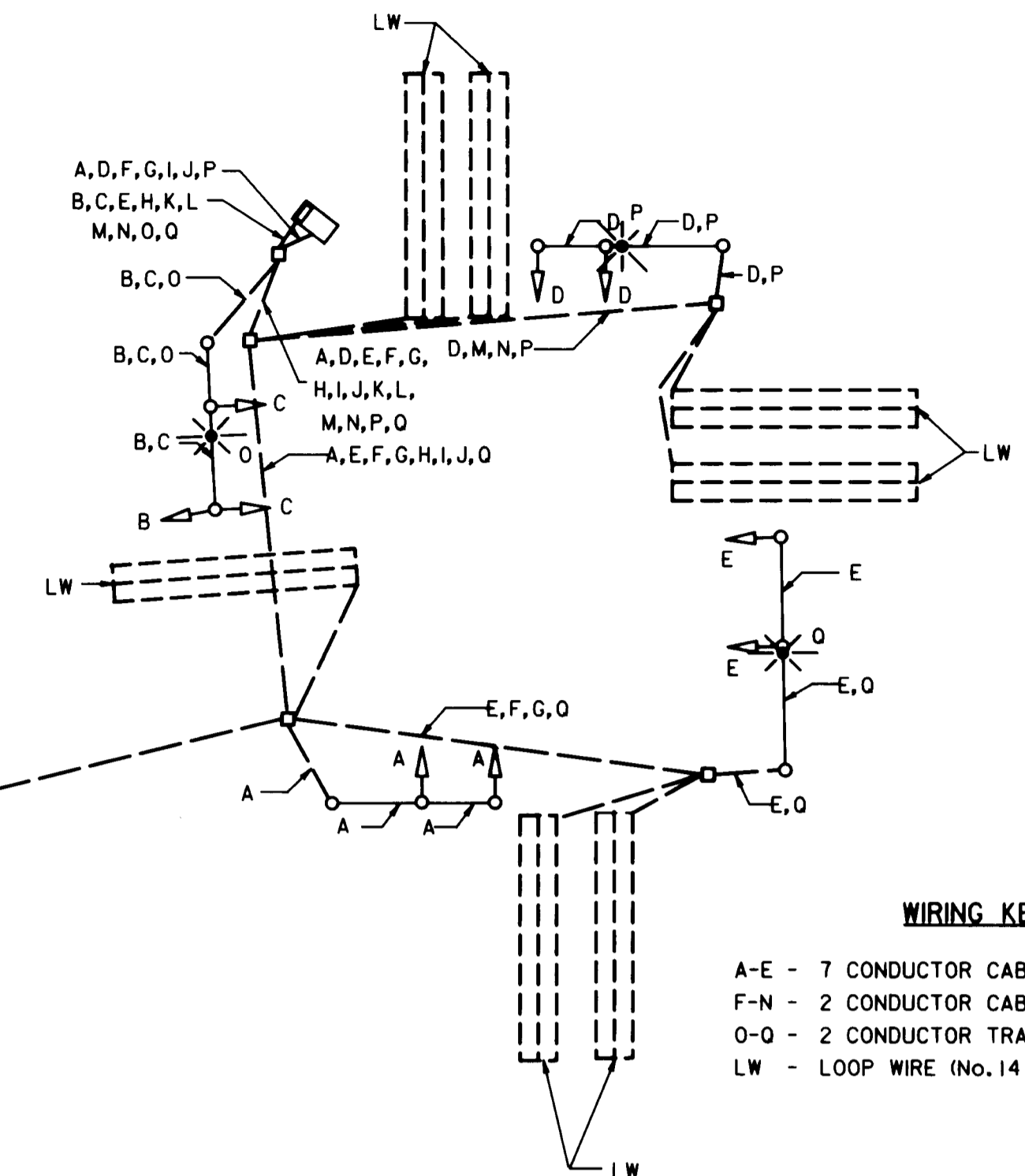
**NEMA PHASING**



**PHASING NOTES:**

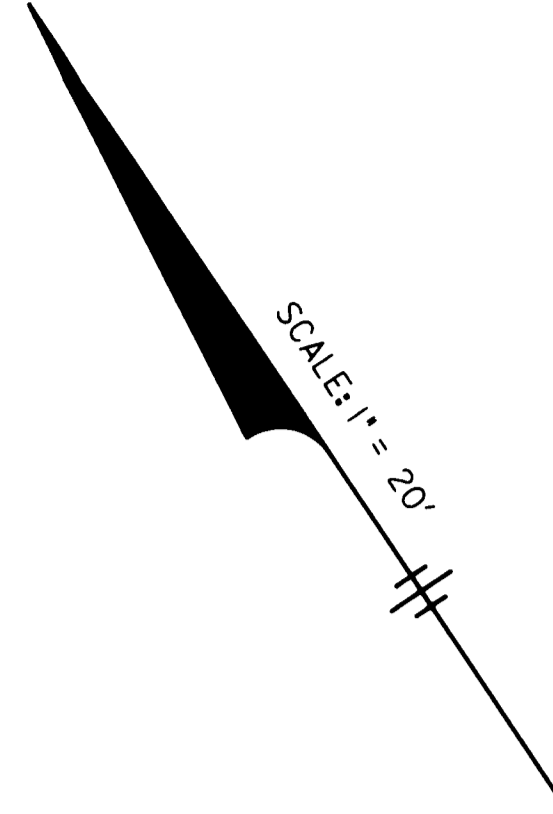
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

**WIRING DIAGRAM**



**WIRING KEY**

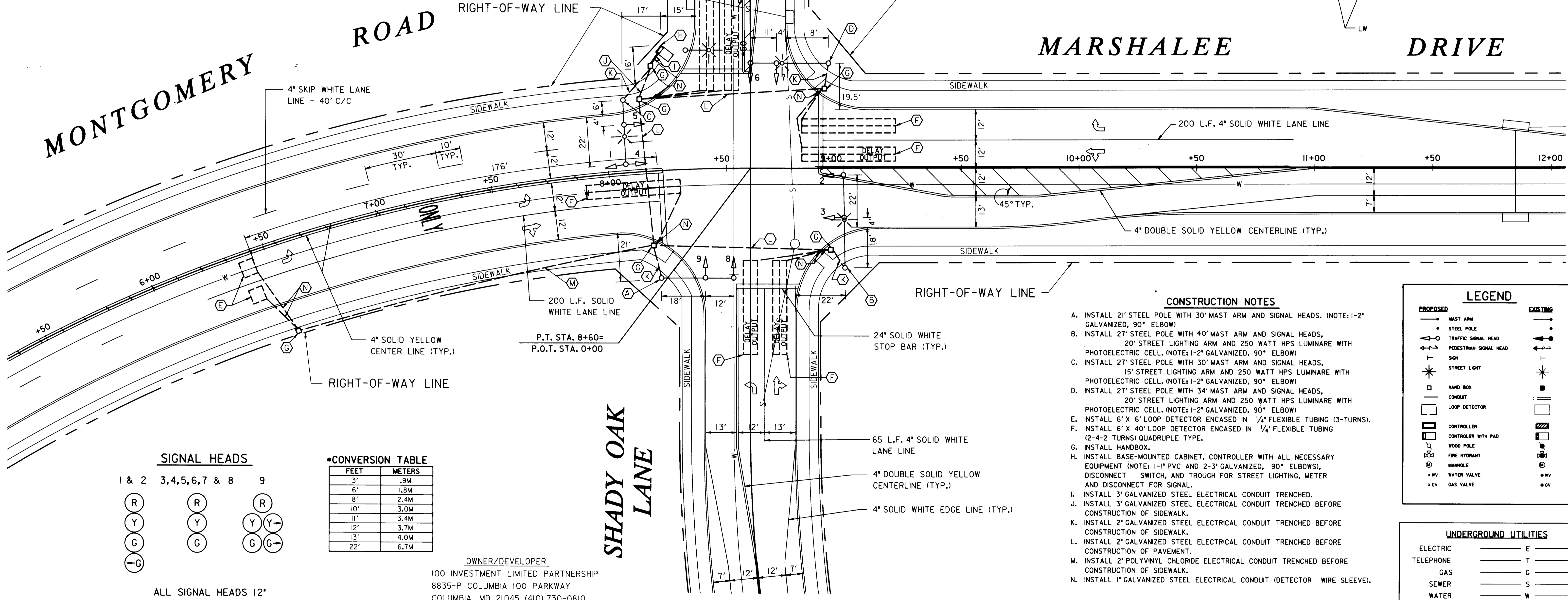
- A-E - 7 CONDUCTOR CABLE (No. 14 A.W.G.)
- F-N - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- O-O - 2 CONDUCTOR TRAY CABLE (No. 12 A.W.G.)
- LW - LOOP WIRE (No. 14 A.W.G.)



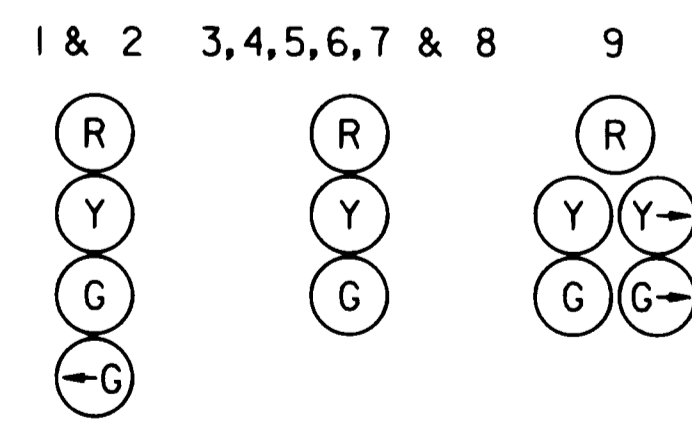
**MONTGOMERY ROAD**

**MARSHALEE DRIVE**

**SHADY OAK LANE**



**SIGNAL HEADS**



ALL SIGNAL HEADS 12'

**CONVERSION TABLE**

| FEET | METERS |
|------|--------|
| 3'   | .9M    |
| 6'   | 1.8M   |
| 8'   | 2.4M   |
| 10'  | 3.0M   |
| 11'  | 3.4M   |
| 12'  | 3.7M   |
| 13'  | 4.0M   |
| 22'  | 6.7M   |

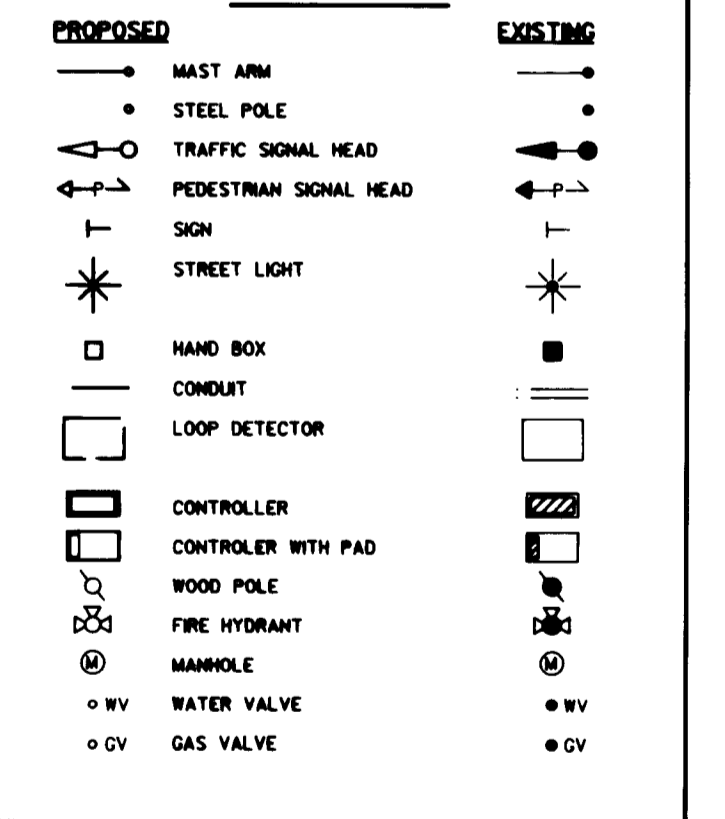
**OWNER/DEVELOPER**

100 INVESTMENT LIMITED PARTNERSHIP  
8835-P COLUMBIA 100 PARKWAY  
COLUMBIA, MD 21045 (410) 730-0810

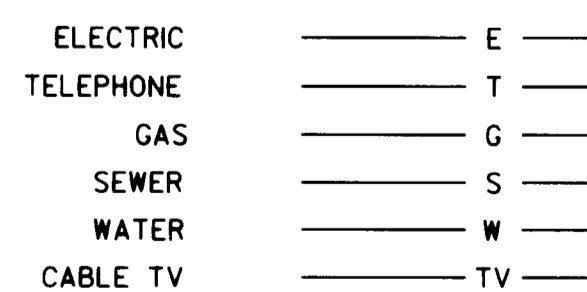
**CONSTRUCTION NOTES**

- INSTALL 21' STEEL POLE WITH 30' MAST ARM AND SIGNAL HEADS. (NOTE: 1-2' GALVANIZED, 90° ELBOW)
- INSTALL 27' STEEL POLE WITH 40' MAST ARM AND SIGNAL HEADS, 20' STREET LIGHTING ARM AND 250 WATT HPS LUMINAIRE WITH PHOTOELECTRIC CELL. (NOTE: 1-2' GALVANIZED, 90° ELBOW)
- INSTALL 27' STEEL POLE WITH 30' MAST ARM AND SIGNAL HEADS, 15' STREET LIGHTING ARM AND 250 WATT HPS LUMINAIRE WITH PHOTOELECTRIC CELL. (NOTE: 1-2' GALVANIZED, 90° ELBOW)
- INSTALL 27' STEEL POLE WITH 34' MAST ARM AND SIGNAL HEADS, 20' STREET LIGHTING ARM AND 250 WATT HPS LUMINAIRE WITH PHOTOELECTRIC CELL. (NOTE: 1-2' GALVANIZED, 90° ELBOW)
- INSTALL 6' X 6' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (3-TURNS).
- INSTALL 6' X 40' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (2-4-2 TURNS) QUADRUPLE TYPE.
- INSTALL HANDBOX.
- INSTALL BASE-MOUNTED CABINET, CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 1-1" PVC AND 2-3" GALVANIZED, 90° ELBOWS), DISCONNECT SWITCH, AND TROUGH FOR STREET LIGHTING, METER AND DISCONNECT FOR SIGNAL.
- INSTALL 3" GALVANIZED STEEL ELECTRICAL CONDUIT TRENCHED BEFORE CONSTRUCTION OF SIDEWALK.
- INSTALL 2" GALVANIZED STEEL ELECTRICAL CONDUIT TRENCHED BEFORE CONSTRUCTION OF SIDEWALK.
- INSTALL 2" GALVANIZED STEEL ELECTRICAL CONDUIT TRENCHED BEFORE CONSTRUCTION OF SIDEWALK.
- INSTALL 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT TRENCHED BEFORE CONSTRUCTION OF SIDEWALK.
- INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

**LEGEND**



**UNDERGROUND UTILITIES**



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

CHIEF LAND DEVELOPMENT DIVISION  
DATE: 7/22/94  
CHIEF TRAFFIC ENGINEERING DIVISION

WHITNEY BAILEY COX MAGNANI

CONSULTING ENGINEERS  
1850 YORK ROAD  
TIMONILUM, MD, 21093  
410-252-6060

David G. Morgan, P.E.

DES: S.J.R.  
DRN: S.J.R. (CADD)  
CHK: J.W.H.  
DATE: 6/94

APPROVED: DEPARTMENT OF PLANNING & ZONING  
DATE: 9/23/94  
CHIEF DIVISION OF LAND DEVELOPMENT: RESEARCH

TRAFFIC SIGNAL PLAN  
MARSHALEE DRIVE & MONTGOMERY ROAD  
SHADY OAKS  
SECTION ONE AREA ONE  
LOT 1 THRU LOT 56  
Tax Map 37 Part of Pool 643  
1st Election District Howard County, MD  
Project Submission Form/Plan No. 9-3374-05  
P.E. 98-002-02/9804/93-4-5070-00

SCALE: 1"=20'  
SHEET: 13 OF 14

1707