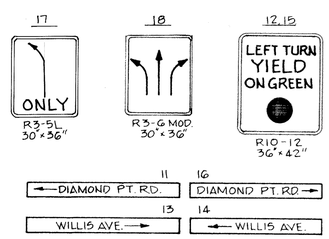
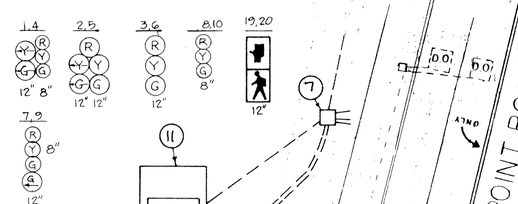
| F.H.W.A. REGION NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 3 | MD. | | | |

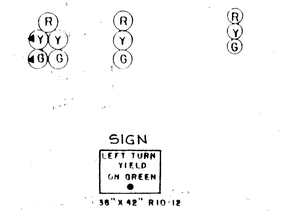
MD. 150 IS ASSUMED TO TRAVEL IN AN EAST-WEST DIRECTION

## PROPOSED SIGNALS AND SIGNS

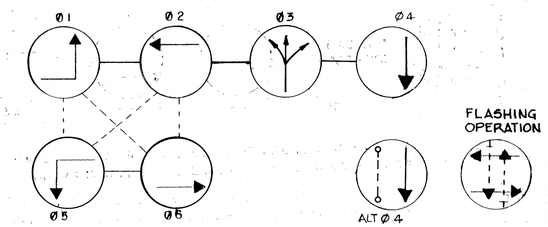


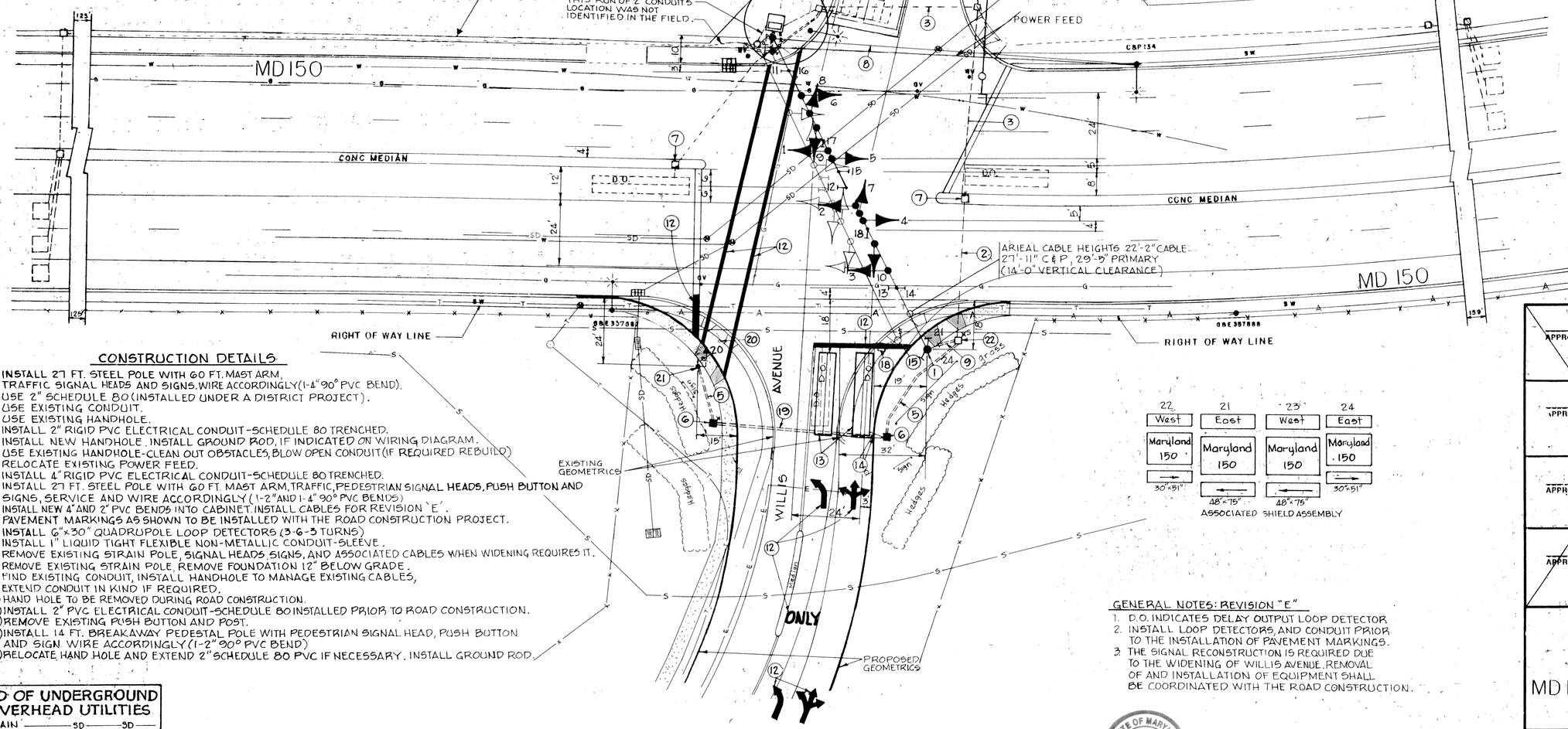

## EXISTING SIGNAL HEADS AND SIGNS TO BE REMOVED




## NEMA PHASING




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




## CONSTRUCTION DETAILS

1. INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, TRAFFIC SIGNAL HEADS AND SIGNS. WIRE ACCORDINGLY (1-4" 90° PVC BEND).
2. USE 2" SCHEDULE 80 (INSTALLED UNDER A DISTRICT PROJECT).
3. USE EXISTING CONDUIT.
4. USE EXISTING HANDHOLE.
5. INSTALL 2" RIGID PVC ELECTRICAL CONDUIT-SCHEDULE 80 TRENCHED.
6. INSTALL NEW HANDHOLE. INSTALL GROUND ROD, IF INDICATED ON WIRING DIAGRAM.
7. USE EXISTING HANDHOLE-CLEAN OUT OBSTACLES, BLOW OPEN CONDUIT (IF REQUIRED REBUILD)
8. RELOCATE EXISTING POWER FEED.
9. INSTALL 4" RIGID PVC ELECTRICAL CONDUIT-SCHEDULE 80 TRENCHED.
10. INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, TRAFFIC, PEDESTRIAN SIGNAL HEADS, PUSH BUTTON AND SIGNS, SERVICE AND WIRE ACCORDINGLY (1-2" AND 1-4" 90° PVC BENDS)
11. INSTALL NEW 4" AND 2" PVC BENDS INTO CABINET. INSTALL CABLES FOR REVISION 'E'.
12. PAVEMENT MARKINGS AS SHOWN TO BE INSTALLED WITH THE ROAD CONSTRUCTION PROJECT.
13. INSTALL 6"x30" QUADRUPOLE LOOP DETECTORS (3-6-3 TURNS)
14. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT-SLEEVE.
15. REMOVE EXISTING STRAIN POLE, SIGNAL HEADS, SIGNS, AND ASSOCIATED CABLES WHEN WIDENING REQUIRES IT.
16. REMOVE EXISTING STRAIN POLE, REMOVE FOUNDATION 12" BELOW GRADE.
17. FIND EXISTING CONDUIT, INSTALL HANDHOLE TO MANAGE EXISTING CABLES, EXTEND CONDUIT IN KIND IF REQUIRED.
18. HAND HOLE TO BE REMOVED DURING ROAD CONSTRUCTION.
19. INSTALL 2" PVC ELECTRICAL CONDUIT-SCHEDULE 80 INSTALLED PRIOR TO ROAD CONSTRUCTION.
20. REMOVE EXISTING PUSH BUTTON AND POST.
21. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN WIRE ACCORDINGLY (1-2" 90° PVC BEND)
22. RELOCATE HAND HOLE AND EXTEND 2" SCHEDULE 80 PVC IF NECESSARY. INSTALL GROUND ROD.

## GENERAL NOTES: REVISION "E"

1. D.O. INDICATES DELAY OUTPUT LOOP DETECTOR
2. INSTALL LOOP DETECTORS, AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
3. THE SIGNAL RECONSTRUCTION IS REQUIRED DUE TO THE WIDENING OF WILLIS AVENUE. REMOVAL OF AND INSTALLATION OF EQUIPMENT SHALL BE COORDINATED WITH THE ROAD CONSTRUCTION.

## LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

| | |
|---|---|
| STORM DRAIN | SD |
| GAS | G |
| SEWER | S |
| WATER | W |
| ELECTRIC | E |
| CABLE T V | TV |
| TELEPHONE | T |
| AERIAL CABLE | A |

## SEWAGE TREATMENT PLANT

STATE OF MARYLAND PROFESSIONAL ENGINEER

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
813 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

APPROVAL: CHIEF SIGNAL DESIGN SECTION

APPROVAL: DISTRICT TRAFFIC ENGINEER

APPROVAL: CHIEF BUREAU OF TRAFFIC ENGINEERING

APPROVAL: DEPUTY CHIEF ENGINEER TRAFFIC

ORIGINAL ON FILE

| REVISIONS | | |
|---|---|---|
| E | 3/97 | RECONSTRUCTION, PHASE CHANGE ADD PEDESTRIAN MOVEMENT. |
| D | 12-16-91 | RECUT LOOP DETECTOR ON DIAMOND POINT RD. CONT. NO. 3-2-647 |
| C | | ASBUILT 12-16-9 |
| B | 1-19-87 | REDRAWN AND REVISE DESIGN SHA NO BW 956-801-512 |
| A | 7-3-86 | NEW HEADS AND CABINET SHA NO B 752-501-471 |

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC AND SAFETY-TRAFFIC ENGINEERING

# MD150 & DIAMOND POINT RD.

SIGNAL No. 03015002.095

SCALE 1"=20' DATE 10-5-73 CONTRACT NO.

DRAWN BY: J GORDON COUNTY: BALTIMORE

DESIGNED BY: SIGNAL NO.:

CHECKED BY:

DRAWING NO. TS-1053E

BALTIMORE CITY DWG. No. TS-1
SHEET 54 OF 55