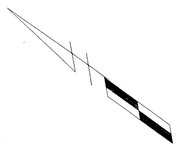


MD 115 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

## SIGNS

8

R10-12
30 in. x 36 in.

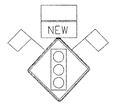
9,10

D3-2
Variable x 16 in.

11

D-3(I)
Variable x 16 in.

12,15




W3-3
48 in. x 48 in.
"NEW"
30 in. x 30 in.
And Flags

13

M3-4
30 in. x 15 in.
MI-5
48 in. x 36 in.
M6-1
30 in. x 24 in.

14

M3-2
24 in. x 12 in.
MI-5
24 in. x 30 in.
M6-1
21 in. x 15 in.

16

M3-2
24 in. x 12 in.
MI-5
24 in. x 30 in.
M6-1
21 in. x 15 in.

17

M3-4
30 in. x 15 in.
MI-5
48 in. x 36 in.
M6-1
30 in. x 24 in.

ASSOCIATED
SHIELD ASSEMBLY
48 in. x 75 in.

## SIGNAL HEADS

1

12"/8"

2

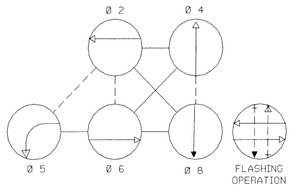
12"

3-7,7a,7b,7c,7d



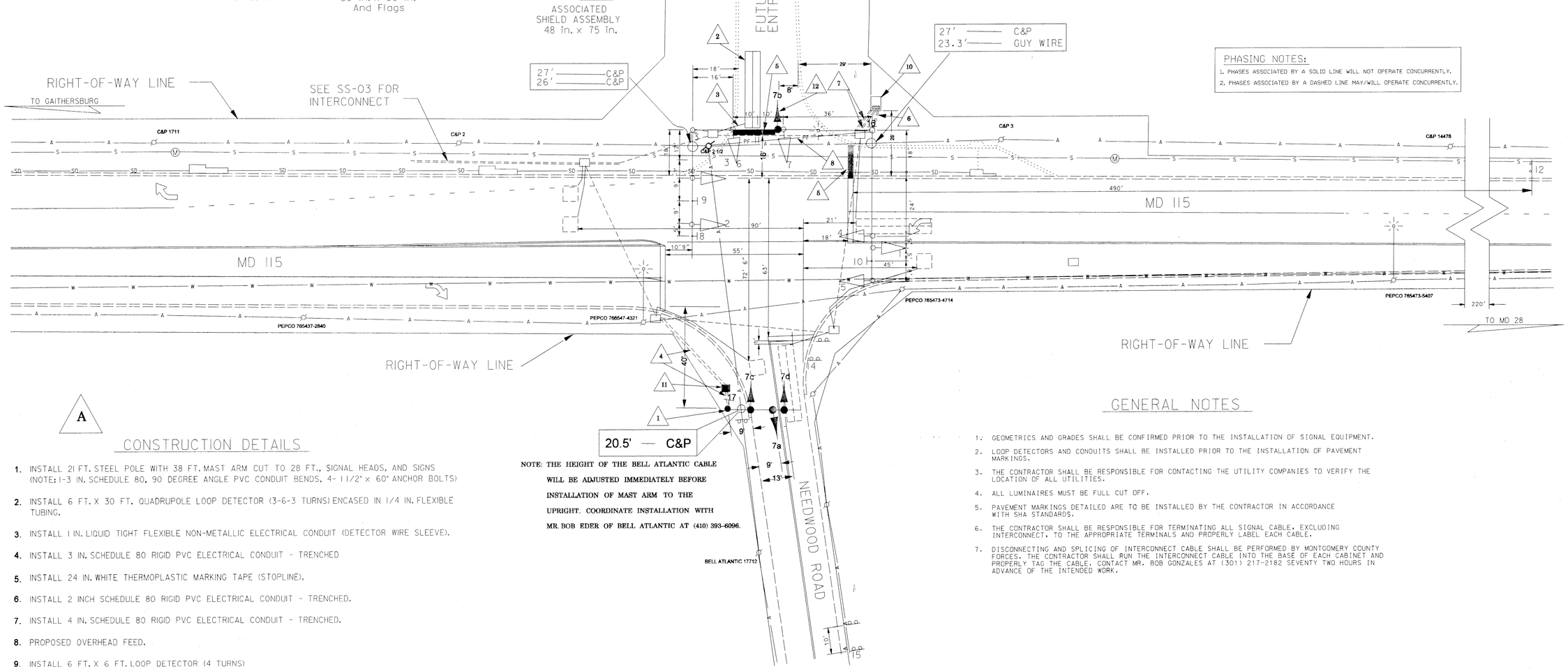

12"

## NEMA PHASING




## PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.




NOTE: THE HEIGHT OF THE BELL ATLANTIC CABLE WILL BE ADJUSTED IMMEDIATELY BEFORE INSTALLATION OF MAST ARM TO THE UPRIGHT. COORDINATE INSTALLATION WITH MR. BOB EDER OF BELL ATLANTIC AT (410) 393-6096.

A

## CONSTRUCTION DETAILS

1. INSTALL 21 FT. STEEL POLE WITH 38 FT. MAST ARM CUT TO 28 FT., SIGNAL HEADS, AND SIGNS (NOTE: 1-3 IN. SCHEDULE 80, 90 DEGREE ANGLE PVC CONDUIT BENDS, 4- 1 1/2" x 60" ANCHOR BOLTS)
2. INSTALL 6 FT. X 30 FT. QUADRUPOLE LOOP DETECTOR (3-6-3 TURNS) ENCASED IN 1/4 IN. FLEXIBLE TUBING.
3. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
4. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
5. INSTALL 24 IN. WHITE THERMOPLASTIC MARKING TAPE (STOPLINE).
6. INSTALL 2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
7. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
8. PROPOSED OVERHEAD FEED.
9. INSTALL 6 FT. X 6 FT. LOOP DETECTOR (4 TURNS)
10. INSTALL CONTROLLER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.
11. INSTALL HANDHOLE.
12. INSTALL SIGNAL HEAD.

## GENERAL NOTES

1. GEOMETRICS AND GRADES SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
2. LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO VERIFY THE LOCATION OF ALL UTILITIES.
4. ALL LUMINAIRES MUST BE FULL CUT OFF.
5. PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH SHA STANDARDS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. CONTACT MR. BOB GONZALES AT (301) 217-2182 SEVENTY TWO HOURS IN ADVANCE OF THE INTENDED WORK.

## ROADWAY LEGEND

| | |
|---|---|
| ····· | FUTURE CONSTRUCTION |
| —— | EXISTING GEOMETRY |

## UTILITY LEGEND

| | |
|---|---|
| —A— | AERIAL CABLE |
| —E— | ELECTRICAL |
| —T— | TELEPHONE |
| —G— | GAS |
| —S— | SEWER |
| —W— | WATER |
| —TV— | CABLE TV |

| REVISIONS | APPROVALS |
|---|---|
| | TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION |
| | ASST. TRAFFIC ENGINEERING DESIGN DIVISION |
| A 5/17/99 RELOCATE CABINET; INSTALL POLE ON S/W CORNER FOR HOSPICE APPROACH | CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION |
| CJ | DIRECTOR, TRAFFIC & SAFETY |

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION

***MD 115 @ NEEDWOOD ROAD***
***SIGNAL DESIGN***

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | JAB/BSH ---- CJ | F.A.P. NO. | AC-STPG-000S(588)E | TS NO. 3820 A | SHEET NO. |
| CHECKED BY: | | S.H.A. NO. | AW 5IT/B/M5T | | |
| SCALE: | 1"=20' | COUNTY: | Montgomery | T.I.M.S. NO. C-382 | 1 OF 3 |
| DATE: | 6/99 | LOG MILE: | 15011502.84 | | |