MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

## PROPOSED SIGNS

16.19 — LEFT TURN YIELD ON GREEN — R10-12 36"x 42"

17A.20A / 17B.20B — 48th Street ⇨ ⇦ 48th Street — D3-2 (DUAL FACED) VARIABLE X16"

18.21 — RIGHT LANE — BUSES AND RIGHT TURNS ONLY — R3-17(MOD) 30"X42"

PUSH BUTTON TO CROSS COASTAL HWY — STAGE CROSSING WATCH FOR TURNING CARS — DON'T START FINISH CROSSING IF STARTED — PEDESTRIANS SIGNALS MAY BE ON CROSSWALK — R10-4(1) 9" x 12"

22.24 — YIELD — TO PEDS — R9-1mod 48"x48"

23.25 — Coastal Hwy — D3-2 VARIABLE X16"

## PROPOSED SIGNALS

(BLACK-FACED)

1.4 — 12" 12" 12" — 8" 8" 8"

2.5 — 12"

3.6.7.8.10.11 — 12"

9 — 8"

12-15 — 12"

VIDEO DETECTOR CAMERA

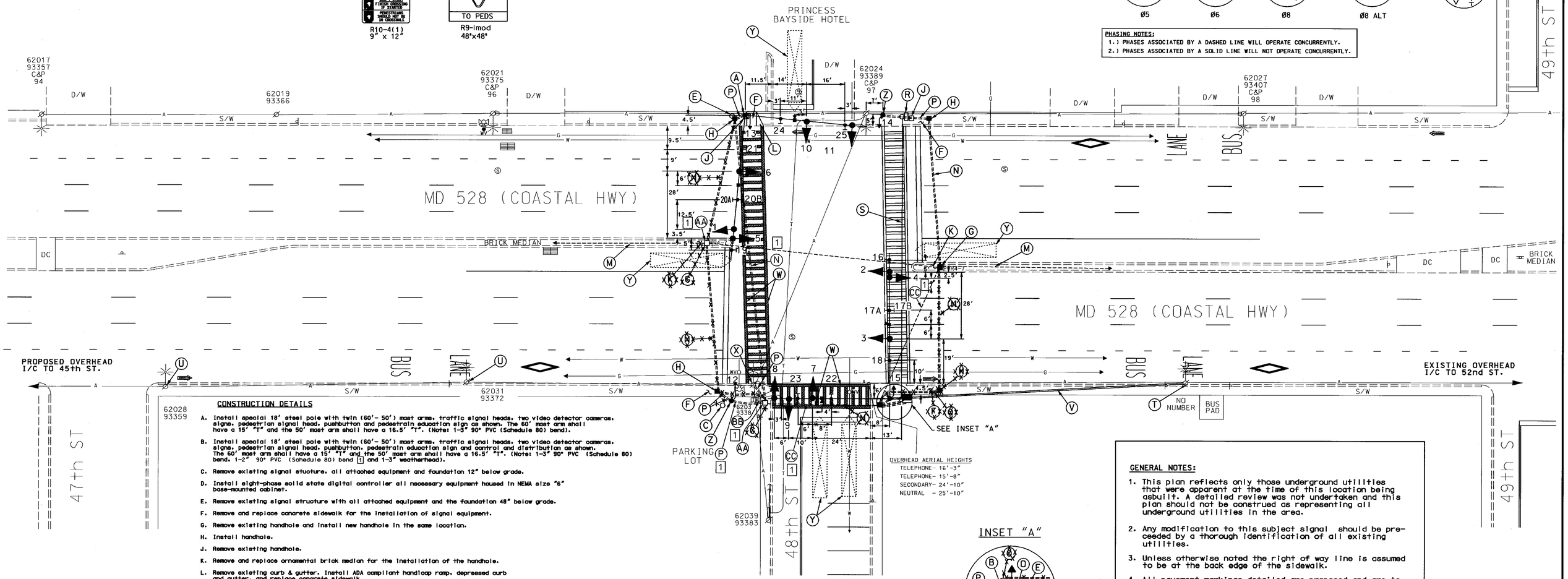
## NEMA PHASING

Ø1 Ø2 Ø4 Ø4 ALT

Ø5 Ø6 Ø8 Ø8 ALT

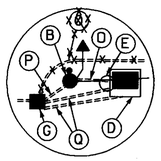
PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

FLASHING OPERATION




OVERHEAD AERIAL HEIGHTS
TELEPHONE- 16'-3"
TELEPHONE- 15'-8"
SECONDARY- 24'-10"
NEUTRAL - 25'-10"

INSET "A"



## CONSTRUCTION DETAILS

A. Install special 18' steel pole with twin (60'- 50') mast arms, traffic signal heads, two video detector cameras, signs, pedestrian signal head, pushbutton and pedestrain education sign as shown. The 60' mast arm shall have a 15' "T" and the 50' mast arm shall have a 16.5' "T". (Note: 1-3" 90° PVC (Schedule 80) bend).

B. Install special 18' steel pole with twin (60'- 50') mast arms, traffic signal heads, two video detector cameras, signs, pedestrian signal head, pushbutton, pedestrain education sign and control and distribution as shown. The 60' mast arm shall have a 15' "T" and the 50' mast arm shall have a 16.5' "T". (Note: 1-3" 90° PVC (Schedule 80) bend, 1-2" 90° PVC (Schedule 80) bend [1] and 1-3" weatherhead).

C. Remove existing signal stucture, all attached equipment and foundation 12" below grade.

D. Install eight-phase solid state digital controller all necessary equipment housed in NEMA size "6" base-mounted cabinet.

E. Remove existing signal structure with all attached equipment and the foundation 48" below grade.

F. Remove and replace concrete sidewalk for the installation of signal equipment.

G. Remove existing handhole and install new handhole in the same location.

H. Install handhole.

J. Remove existing handhole.

K. Remove and replace ornamental brick median for the installation of the handhole.

L. Remove existing curb & gutter. Install ADA compliant handicap ramp, depressed curb and gutter, and replace concrete sidewalk.

M. Existing conduit and cable shall be maintained.

N. Install 4" polyvinyl chloride (Schedule 80) electrical conduit (slotted).

O. Install 2" polyvinyl chloride (Schedule 80) electrical conduit (trenched).

P. Install 3" polyvinyl chloride (Schedule 80) electrical conduit (trenched).

Q. Install 4" polyvinyl chloride (Schedule 80) electrical conduit (trenched).

R. Remove pole mounted cabinet and all attached equipment along with the existing power service. The sprinkler system cabinet shall be removed by others.

S. Disconnect existing I/C cable from the existing cabinet and pull it back to be stored on utility pole (See Detail "T").

T. Use utility pole (no number) in the northeast quadrant for the relocation of the existing interconnect cable to the proposed mast arm signal pole, then to the cabinet.

U. Remove existing I/C cable and span wire. Install self-supporting interconnect cable at the existing location down to 45th Street.

V. Proposed overhead electrical service to be installed by Conectiv Power.

W. Install 12" white heat applied thermoplastic pavement marking (crosswalk with cross hatching).

X. Remove existing I/C cable and span wire. Install 3X 2" [1] polyvinyl chloride (Schedule 80) riser and 3X 2" [1] weather head. Install self-supporting interconnect cable and route thru proposed riser.

Y. Proposed video detection area.

Z. Install 10' breakaway steel pole, pedestrain signal head, pushbuttton and pedestrain education sign. (Note: 1-3" 90° PVC (Schedule 80) bend).

[1] AA. Use existing handhole.

[1] BB. Install 1" conduit sleeve to C&P Pedestal.

[1] CC. Use existing conduit.

GENERAL NOTES:

1. This plan reflects only those underground utilities that were apparent at the time of this location being asbuilt. A detailed review was not undertaken and this plan should not be construed as representing all underground utilities in the area.
2. Any modification to this subject signal should be preceeded by a thorough identification of all existing utilities.
3. Unless otherwise noted the right of way line is assumed to be at the back edge of the sidewalk.
4. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.

[1] REDLINE REVISION 10/4/03

REVISION "C"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6537

4005B.dgn TASK18

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| C — 10-19-01 — RECONSTRUCTION TO MAST ARMS SHA NO. XX1065185 | | | | | | |
| EMM | CMW | | | | | |
| B — REVISED DETECTION SHA NO 855-25004 | | | | | | |
| DAB | RCS | | | | | |
| A — REVISED SIGNAL AND DETECTOR DISPLAY | | | | | | |
| BT | DTD | DAZ | ETP | TH | | |

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINATION FILE

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

MD 528 (COASTAL HWY) AND 48TH STREET

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | B. THOMPSON | F.A.P. NO. | | TS NO. 1859C | SHEET NO. 1 OF 2 |
| CHECKED BY: | DJD | S.H.A. NO. | WO 594-501-185 | | |
| SCALE: | 1"= 20' | COUNTY: | WORCESTER | T.I.M.S. NO. F230 | |
| DATE: | 3-24-82 | LOG MILE: | 23052805.51 | | |

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