WESTERN PARKWAY IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

## PROPOSED SIGNS

23.24 — Western PKWY — D-3(1) (VAR.x16") (DUAL FACE)

21.22 — Acton LN — D-3(1) (VAR.x16") (DUAL FACE)

SEE NOTE 10

NEW

W3-3 (36"x36") W/"NEW" PANEL (30"x30") AND FLAGS

25.27 26.28 29.31 30.32 — R10-4(1) MOD 9" x 15"

33 — ONLY — R3-5(R) (30"X 36")

## PROPOSED LED SIGNAL HEADS

1.4.7.10 — 12"/8"

2.5.8.11 — 12"

3.6.9.12 — 12"

13-20 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

A-D — VIDEO DETECTOR CAMERA

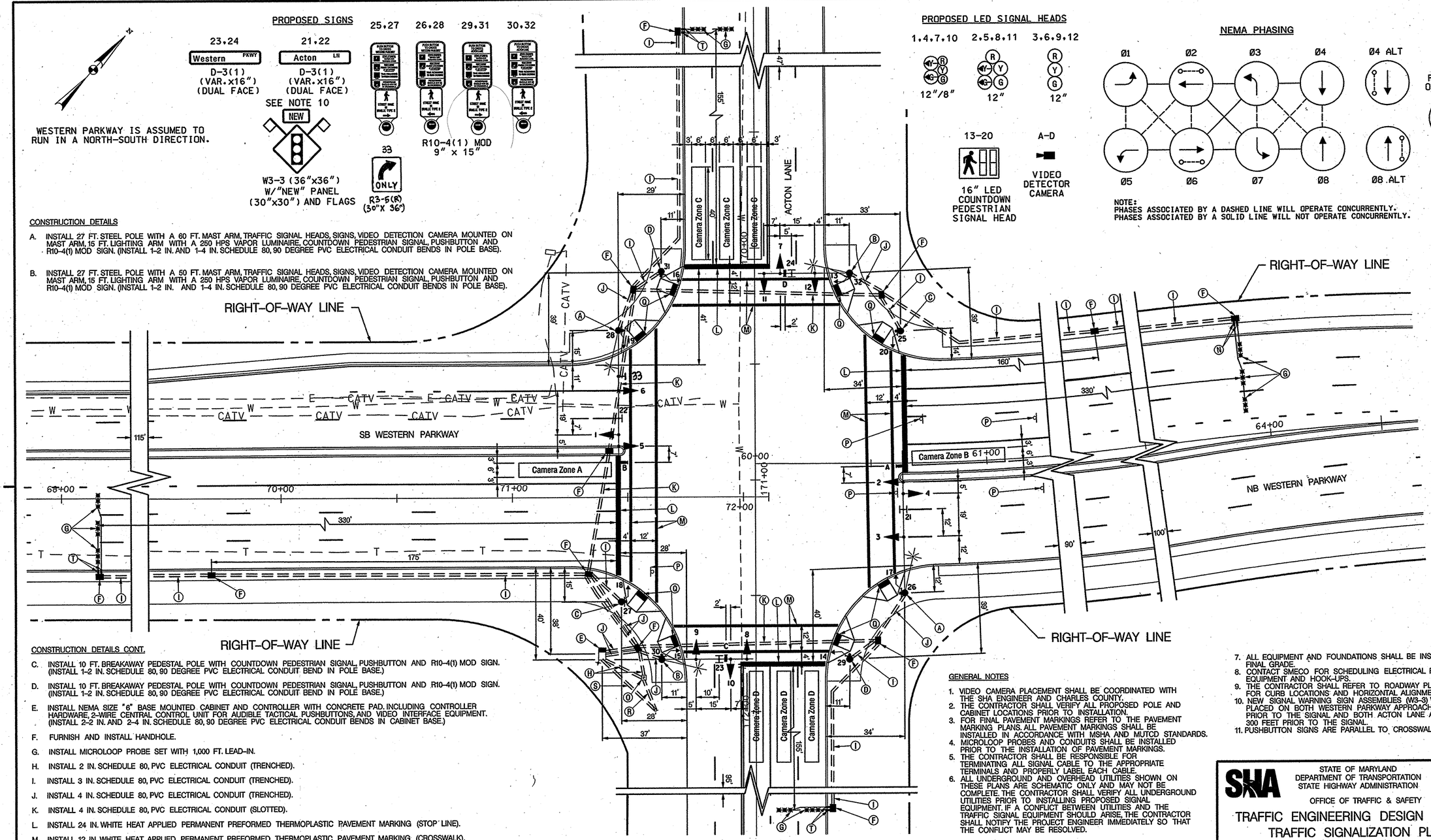
## NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø4 ALT

Ø5 Ø6 Ø7 Ø8 Ø8 ALT

FLASHING OPERATION

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




## CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A 60 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, 15 FT. LIGHTING ARM WITH A 250 HPS VAPOR LUMINAIRE, COUNTDOWN PEDESTRIAN SIGNAL, PUSHBUTTON AND R10-4(1) MOD SIGN. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL 27 FT. STEEL POLE WITH A 50 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, 15 FT. LIGHTING ARM WITH A 250 HPS VAPOR LUMINAIRE, COUNTDOWN PEDESTRIAN SIGNAL, PUSHBUTTON AND R10-4(1) MOD SIGN. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

## CONSTRUCTION DETAILS CONT.

C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL, PUSHBUTTON AND R10-4(1) MOD SIGN. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE.)

D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL, PUSHBUTTON AND R10-4(1) MOD SIGN. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE.)

E. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD. INCLUDING CONTROLLER HARDWARE, 2-WIRE CENTRAL CONTROL UNIT FOR AUDIBLE TACTICAL PUSHBUTTONS, AND VIDEO INTERFACE EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)

F. FURNISH AND INSTALL HANDHOLE.

G. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN.

H. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT (TRENCHED).

I. INSTALL 3 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT (TRENCHED).

J. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT (TRENCHED).

K. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT (SLOTTED).

L. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).

M. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).

N. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT FOR DETECTOR SLEEVE.

O. INSTALL METERED SERVICE PEDESTAL.

P. REMOVE EXISTING GROUND MOUNTED SIGN AND POSTS.

Q. INSTALL DETECTABLE WARNING SURFACE.

R. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.

S. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT FOR PROPOSED TELEPHONE DROP.

T. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.

## GENERAL NOTES

1. VIDEO CAMERA PLACEMENT SHALL BE COORDINATED WITH THE SHA ENGINEER AND CHARLES COUNTY.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA AND MUTCD STANDARDS.
4. MICROLOOP PROBES AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT SHOULD ARISE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
7. ALL EQUIPMENT AND FOUNDATIONS SHALL BE INSTALLED TO FINAL GRADE.
8. CONTACT SMECO FOR SCHEDULING ELECTRICAL POWER EQUIPMENT AND HOOK-UPS.
9. THE CONTRACTOR SHALL REFER TO ROADWAY PLANS FOR CURB LOCATIONS AND HORIZONTAL ALIGNMENT.
10. NEW SIGNAL WARNING SIGN ASSEMBLIES (W3-3) WILL BE PLACED ON BOTH WESTERN PARKWAY APPROACHES 475 FEET PRIOR TO THE SIGNAL AND BOTH ACTON LANE APPROACHES 300 FEET PRIOR TO THE SIGNAL.
11. PUSHBUTTON SIGNS ARE PARALLEL TO CROSSWALK.

## UTILITY LEGEND

| | |
|---|---|
| —CATV—CATV— | CABLE TV |
| —G—G— | GAS MAIN |
| —W—W— | WATER MAIN |
| —S—S— | SEWER MAIN |
| —E—E— | ELECTRIC CABLES |
| —A—A— | AERIAL CABLES |
| —T—T— | TELEPHONE CABLES |
| —F—F— | FIBER-OPTIC |

SITE BLAUVELT ENGINEERS
a TRC company
16000 Commerce Parkway, Suite B
Mount Laurel, NJ 08054

| APPROVALS | |
|---|---|
| TEAM LEADER | |
| ASST. DIV. CHIEF | 2.15.07 |
| DIVISION CHIEF | 2/15/07 |
| OFFICE DIRECTOR | 2/15/07 |

REVISIONS

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY

# TRAFFIC ENGINEERING DESIGN DIVISION
# TRAFFIC SIGNALIZATION PLAN

WESTERN PARKWAY AND ACTON LANE, WALDORF, MD

SCALE 1" = 20' DATE 1/19/07 CONTRACT NO. BW966M82

DESIGNED BY FZ
DRAWN BY ZD
CHECKED BY JAM
F.A.P. NO. N/A
COUNTY CHARLES
LOGMILE 08CWES00.31
T.I.M.S. NO. H816
TOD NO.

DRAWING NO. 4551 OF SHEET NO. 49 OF 84