MD ROUTE 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS

4,5 — R, Y, G — 12"

2,3,6 — R, Y, G — 12"

PROPOSED BLACK FACED LED SIGNALS

8,9, 12,15 — R, Y, G — 12"

1,7 — R, Y, G — 12"

11,14 — R, Y, G — 12"

10,13 — R 8", Y 8", G 8", G 12"

16–19 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

EXISTING

c,d — VIDEO DETECTION

RELOCATED

a,b — VIDEO DETECTION

20,21 — PUSH BUTTON TO CROSS BUCKEYSTOWN PIKE

22 — PUSH BUTTON TO CROSS CRESTWOOD DRIVE

23 — PUSH BUTTON TO CROSS CRESTWOOD DRIVE

STREET NAME IN BRAILLE TYPE 2

R10-3(1) 9" x 15"

REMOVE SIGNS

39 — R3-6(L) (30"x36")

31 — R3-8(7)(mod) (90"x30")

28 — TO NORTH INTERSTATE 270 TO INTERSTATE 70 — OH2 (48"x72") MAST ARM MOUNTED

EXISTING SIGNS

33 — W11A-2 (30"x30") W16-7P(mod) (21"x15")

36 — Buckeystown Pk. NORTH 85 SOUTH — M95-1 (24"x78") D-3(1) (12"x78")

24 — ONLY ONLY — R3-8(7) (36"x60")

29 — TO SOUTH INTERSTATE 270 — OH1 (48"x48") MAST ARM MOUNTED

35,37 — ONLY — R3-5(L) (30"x36")

25A — Shockley Dr

25B — Shockley Dr

D-3(1) (16"xVar.) Dual Faced

PROPOSED SIGNS

42 — ONLY — R3-5(R) (30"x36")

38 — ONLY — R3-5(L) (30"x36")

40 — R4-7 (24"x30")

30 — R3-8(7)(mod) (120"x30")

41 — Buckeystown Pk. SOUTH 85 NORTH — M95-1 (24"x78") D-3(1) (12"x78")

27 — TO NORTH INTERSTATE 270 TO INTERSTATE 70 — OH3 (48"x72") MAST ARM MOUNTED

26A — Crestwood Blvd

26B — Crestwood Blvd

D-3(1) (16"xVar.) Dual Faced

34 — YIELD — R1-2 (36"x36"x36")

32 — W11-2 (30"x30") M6-2 (21"x15")

EXISTING NEMA PHASING

φ1, φ2, φ3, φ4, φ3 ALT., FLASHING OPERATION, φ5, φ6, φ6 ALT.

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

CONSTRUCTION DETAILS:

A. Install a NEMA size "6" ground mounted controller cabinet with all necessary equipment. Installation to include reprogramming of existing and relocated video detection zones. (Note: 2-4" and 2-2" 90 degree PVC schedule 80 conduit bends).

B. Install 27' steel pole with 70ft mast arm, traffic signal heads, relocated video detection camera and signs. Install 1-3" schedule 80, 90 degree, PVC electrical conduit bend in pole base.

C. Install 27' steel pole with 70ft mast arm, traffic and pedestrian signal heads, pushbutton with R10-4(1) sign, relocated video detection camera, signs, 15 ft. luminaire arm, and 250 watt HPS luminaire. Install 1-3" schedule 80, 90 degree, PVC electrical conduit bend in pole base. (See Pushbutton Placement Detail).

D. Install electrical handhole.

E. Replace existing electrical handhole.

F. Install 3", schedule 80, PVC conduit (trenched).

G. Install 3", schedule 80, PVC conduit (bored).

H. Install 4", schedule 80, PVC conduit (bored).

J. Install 2", schedule 80, PVC conduit, as shown.

K. Install 2 - 4" schedule 80, PVC conduit (trenched).

L. Install 200 Amp, metered service pedestal (msp).

M. Install non invasive micro-loop probe (set of 3) with 500' lead in.

N. Install 4" conduit (trenched) and riser, for power from metered service pedestal (msp) to underground power source. (Note: 1-4" 90 degree PVC schedule 80 conduit bend.)

O. Tie proposed conduit into existing conduit.

P. Use existing handhole, pull back lead-in and rerun in new conduit to cabinet.

R. Remove existing traffic signal cabinet (SHA forces to remove controller). Foundation is to be chipped 12" below grade and backfilled.

S. Remove existing traffic signal pole, heads, signs, and mast arm. Relocate items shown. Foundation is to be chipped 12" below grade and backfilled.

T. Remove existing handhole.

U. Abandon existing micro-loop probe set.

V. Abandon existing conduit.

W. Replace existing R3-6(L) sign with R3-5(L) sign - mast arm mounted.

X. Replace existing "hand/man" pedestrian signal head(s) with 16" LED countdown pedestrian signal head(s).

Y. Existing utility pole to be relocated by others per MD 85 Roadway Improvement Plan prepared by Rodgers Consultants.

Z. Use existing handhole. Pull back existing I/C cable and rerun in new conduit to cabinet.

AA. Install ground mounted sign.

BB. Install 24" white heat applied permanent preformed thermoplastic stopline, as shown.

CC. Install 12" white heat applied permanent preformed thermoplastic crosswalk, as shown.

DD. Install Detectable Warning Mat to ADA ramp in accordance with standard # 655.40.

EE. Use existing handhole.

FF. Install 4' pushbutton pedestal pole with pushbutton and R10-4(1) sign.

GG. Remove existing pushbutton.

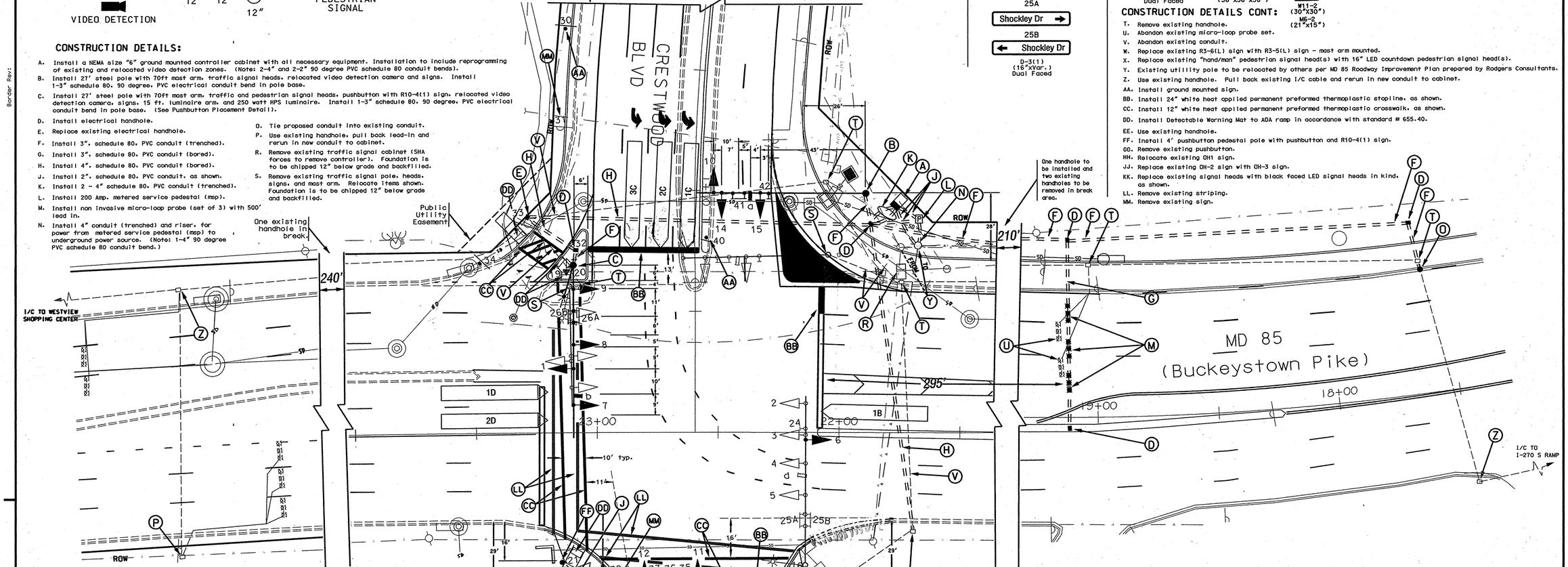
HH. Relocate existing OH1 sign.

JJ. Replace existing OH-2 sign with OH-3 sign.

KK. Replace existing signal heads with black faced LED signal heads in kind, as shown.

LL. Remove existing striping.

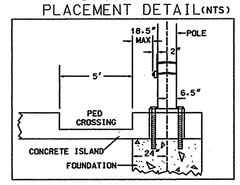
MM. Remove existing sign.



GENERAL NOTES:

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. EXISTING SIGNAL EQUIPMENT, CONDUIT, CONDUCTORS, HANDHOLES, ETC. SHALL BE REUSED AND PROTECTED IN PLACE UNLESS OTHERWISE NOTED. WHEN NOTED, REMOVED OR UNUSED SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF FROM THE SITE.
3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS UNLESS OTHERWISE SHOWN. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. STRIPING SHOWN IS PER PAVEMENT MARKING AND SIGNING PLAN BY WELLS & ASSOCIATES
5. UNLESS OTHERWISE SHOWN ON SIGNAL PLAN.
6. ALL CONDUIT AND HANDBOXES SHALL BE INSTALLED PRIOR TO DISCONNECTING THE INTERCONNECT CABLE. THE CONTRACTION SHALL HAVE THE CABLE DISCONNECTED, PULL THE CABLE BACK AND REROUTE THE CABLE IN ONE WORKING DAY AND THE CABLE SHALL NOT BE LEFT UNATTENDED WHILE OUT OF THE CONDUIT. PLEASE CONTACT MR. ED RODERIZER AT 410-787-7650 AT LEAST 72 HOURS IN ADVANCE TO ARRANGE FOR THE CABLE TO BE DISCONNECTED.
7. PUSH BUTTONS ARE TO BE LOCATED ADJACENT TO A LEVEL (<1:48) LANDING (32"X54") ALONG THE PEDESTRIAN ACCESS ROUTE LEADING TO THE CROSSWALK.
8. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSH BUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC SAFETY.
9. THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE YEAR FROM 07/25/07. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITHOUT A RE-REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

PUSHBUTTON PLACEMENT DETAIL (NTS)



FOUNDATION IS TO BE POURED BELOW CONCRETE ISLAND. ANCHOR BOLTS SHALL BE INSTALLED AT GRADE BEFORE CONCRETE ISLAND IS POURED.

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

APPROVALS	
ORIGINAL	
TEAM LEADER	
ON FILE	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

C GEOMETRIC IMPROVEMENTS TO PROVIDE ADDITIONAL SOUTHBOUND THROUGH LANE AND AN ADDITIONAL EASTBOUND LEFT TURN LANE. BW996M82 — AUG 2007 — H318
DPN CJS

E ADDED ADVANCE MAST ARM GUIDE SIGN ON CRESTWOOD BLVD. XX10T5285 — MARCH 2004 — F664
CJS

D RECONSTRUCT TRAFFIC SIGNAL DUE TO GEOMETRIC CHANGES. BW996M82 — JUNE 27, 2001
JJD/FJH

PLOTTED: $DATETIME$
FILE: $FILE$

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

Traffic Signal Modification Plan
MD Route 85 (Buckeystown Pike)
at Crestwood Blvd/ Shockley Drive

SCALE 1" = 20' DATE 12/5/97 CONTRACT NO.

DESIGNED BY W.J. NIES
DRAWN BY W.J. NIES
CHECKED BY R.R. ZACHERL
F.A.P. NO.

COUNTY Frederick
LOGMILE 10008508.62
TIMS# H318
TOD NO.

DRAWING NO. 2619F

SHEET NO. 1 OF 2

DRILL HOLES
DRILL HOLES
DRILL HOLES
Border Rev. Date: June 1, 2004
Border Rev:
BY:$USERNAME$