DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV: DATE: June 1, 2004

BY: WJWARNER

MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED SIGNAL HEADS

1,4,7 — 12"/8" LED

2,5,8 — 12" LED

3,6,9, 10,11 — 12" LED

12-17 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

SEE SPECIAL NOTE #3

PROPOSED SIGNS

18 — Bellona Ave / Margate Rd — D-3(1) VARIABLE x 32"

19 — Margate Rd / Bellona Ave — D-3(1) VARIABLE x 32"

20,22 — ONLY — R3-5L (30"x36")

21 — York Rd, NORTH / MARYLAND 45 / SOUTH — M95-1-NL (MOD) (72"x40")

23 — York Rd, SOUTH / MARYLAND 45 / NORTH — M95-1-NR (MOD) (72"x40")

24, 25, 26, 27, 28, 29 — R10-4(1) (9"x12") W/ APS

NEMA PHASING

Ø 2, Ø 4, Ø 2 ALT, Ø 4 ALT, Ø 6, Ø 7, Ø 8, Ø 6 ALT

SEE SPECIAL NOTE #3

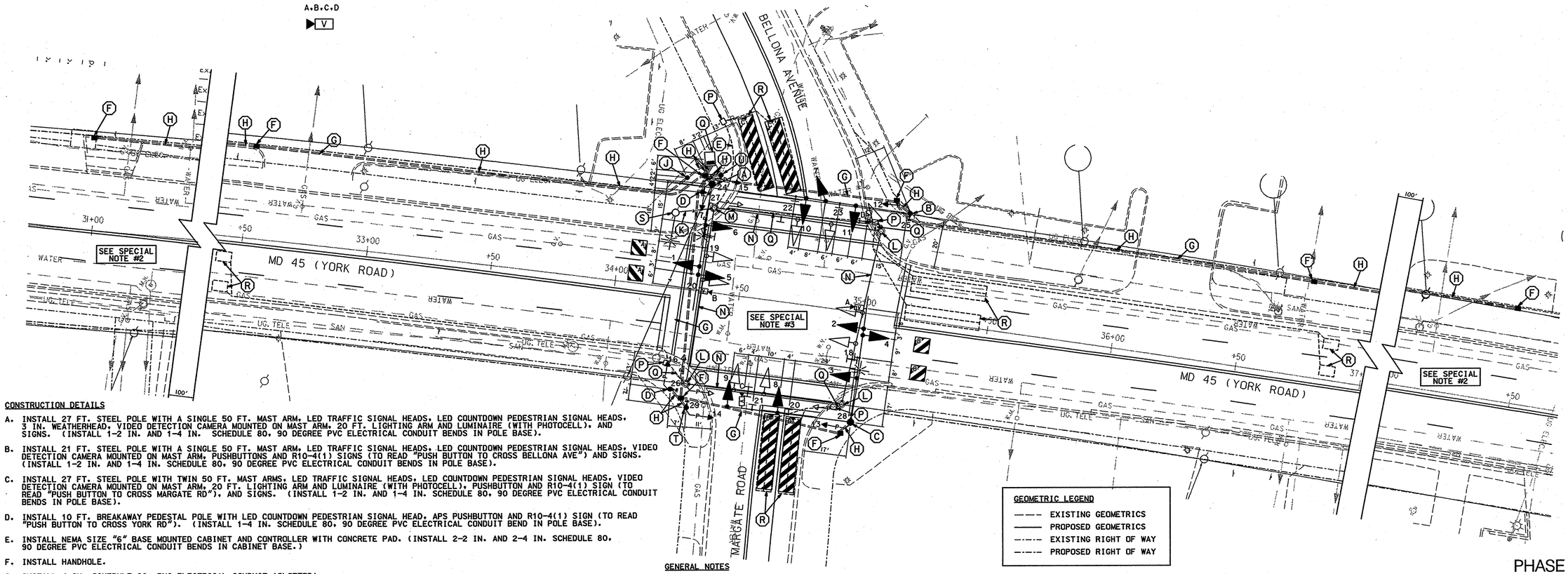
FLASHING OPERATION

PHASING NOTES:

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

PROPOSED VIDEO DETECTION CAMERAS

A,B,C,D



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A SINGLE 50 FT. MAST ARM, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, 3 IN. WEATHERHEAD, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, 20 FT. LIGHTING ARM AND LUMINAIRE (WITH PHOTOCELL), AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL 21 FT. STEEL POLE WITH A SINGLE 50 FT. MAST ARM, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, PUSHBUTTONS AND R10-4(1) SIGNS (TO READ "PUSH BUTTON TO CROSS BELLONA AVE") AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

C. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, 20 FT. LIGHTING ARM AND LUMINAIRE (WITH PHOTOCELL), PUSHBUTTON AND R10-4(1) SIGN (TO READ "PUSH BUTTON TO CROSS MARGATE RD"), AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND R10-4(1) SIGN (TO READ "PUSH BUTTON TO CROSS YORK RD"). (INSTALL 1-4 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. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)

F. INSTALL HANDHOLE.

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

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

J. PROPOSED UNDERGROUND ELECTRICAL SERVICE BY BGE FORCES. METERED PEDESTAL POLE INSTALLED BY CONTRACTOR.

K. DISCONNECT EXISTING OVERHEAD ELECTRICAL SERVICE.

L. REMOVE EXISTING STRAIN POLE, SIGNAL HEADS, AND PUSHBUTTONS. REMOVE FOUNDATION 12 IN. BELOW GRADE.

M. REMOVE EXISTING STRAIN POLE, POLE MOUNTED CABINET, PEDESTRIAN SIGNAL HEAD, AND SIGNS. REMOVE FOUNDATION 12 IN. BELOW GRADE.

N. REMOVE EXISTING SPAN WIRE, TRAFFIC SIGNAL HEADS, AND SIGNS.

P. REMOVE EXISTING HANDHOLE.

Q. CAP AND ABANDON EXISTING CONDUIT.

R. ABANDON EXISTING LOOP DETECTOR.

S. REMOVE EXISTING LUMINAIRE FROM BGE POLE.

T. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND R10-4(1) SIGN (TO READ "PUSH BUTTON TO CROSS MARGATE RD"). (INSTALL 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

U. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND R10-4(1) SIGN (TO READ "PUSH BUTTON TO CROSS BELLONA AVE"). (INSTALL 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

SPECIAL NOTES

1. VIDEO DETECTION ZONES SHALL BE ADJUSTED THROUGHOUT CONSTRUCTION OF THE MD 45 WIDENING PROJECT (BA7065171). THE FINAL DETECTION ZONES FOR LEFT-TURNS WILL BE ESTABLISHED AT THE COMPLETION OF THE WIDENING PROJECT WHEN FINAL PAVEMENT MARKINGS ARE IN PLACE.
2. MICROLOOP PROBE SETS SHALL BE INSTALLED IN FINAL MD 45 TRAVEL LANE LOCATIONS IMMEDIATELY PRIOR TO THE FINAL MD 45 PAVEMENT OVERLAY (SEE FINAL SIGNAL PLAN).
3. LEFT-TURN ARROWS FOR TRAFFIC SIGNAL HEADS 1,2,4, AND 5 PLUS SIGNS 19 AND 21 SHALL BE COVERED UNTIL THE LEFT-TURN LANES ON MD 45 ARE COMPLETELY CONSTRUCTED AND OPERATIONAL.
4. EXISTING PAVEMENT MARKINGS ARE SHOWN. SEE FINAL SIGNING AND PAVEMENT MARKING PLANS FOR PROPOSED PAVEMENT MARKINGS.
5. NEW INTERCONNECT SHALL BE INSTALLED DURING PHASE 1 PRIOR TO REMOVING EXISTING INTERCONNECT.

GEOMETRIC LEGEND

- EXISTING GEOMETRICS
- PROPOSED GEOMETRICS
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY

PHASE 1

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	E RECONSTRUCT SIGNAL DUE TO WIDENING 3/06 BA7065171
OFFICE DIRECTOR	

ORIGINAL ON FILE

PLOTTED: 03/02/2006
FILE: G:\46740\DESIGN\ENGINEERING\PLANSET\SS05MD45.DGN

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

MARYLAND 45 (YORK ROAD) WIDENING
CAVAN DRIVE TO RIDGELY ROAD

SIGNALIZATION PLAN – MD 45 at Bellona Avenue / Margate Road

SCALE 1"=20' DATE _____ CONTRACT NO. BA7065171

DESIGNED BY _____ COUNTY BALTIMORE
DRAWN BY _____ LOGMILE 03004503.92
CHECKED BY _____ T.I.M.S. NO. F159
F.A.P. NO. SEE TITLE SHEET TOD NO. _____

DRAWING NO. 4591E SS-05 OF SS-25 | SHEET NO. 73 OF 137