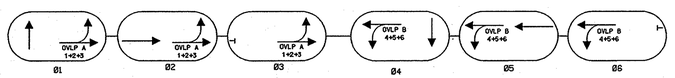
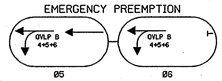
NEMA PHASING

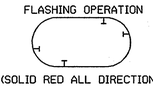


NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

EMERGENCY PREEMPTION



FLASHING OPERATION



(SOLID RED ALL DIRECTIONS)

N

MD 109 IS ASSUMED TO RUN IN AN EAST WEST DIRECTION

PROPOSED SIGNS

14,15 NO TURN ON RED — R10-11b 24"X24"

20,24 STOP HERE ON RED — R10-6 24"X36"

16 YIELD — R1-2 36"X36"X36"

PROPOSED LED SIGNALS

1,2,4 6-13: R Y G — 12"

3,5: R Y G G — 12"

PROPOSED VIDEO DETECTION

a-f

PROPOSED VIDEO DETECTION CAMERA

VIDEO DETECTION ZONE

EXISTING SIGNS TO REMAIN

27,39 DO NOT ENTER

17,32,33 YIELD

28,35

26,40 WRONG WAY

18 SOUTH MONTGOMERY 270

19 NORTH MONTGOMERY 270

30 NORTH MONTGOMERY 270

31 SOUTH MONTGOMERY 270

25,29

41

EXISTING SIGNS TO BE REMOVED DURING CONSTRUCTION

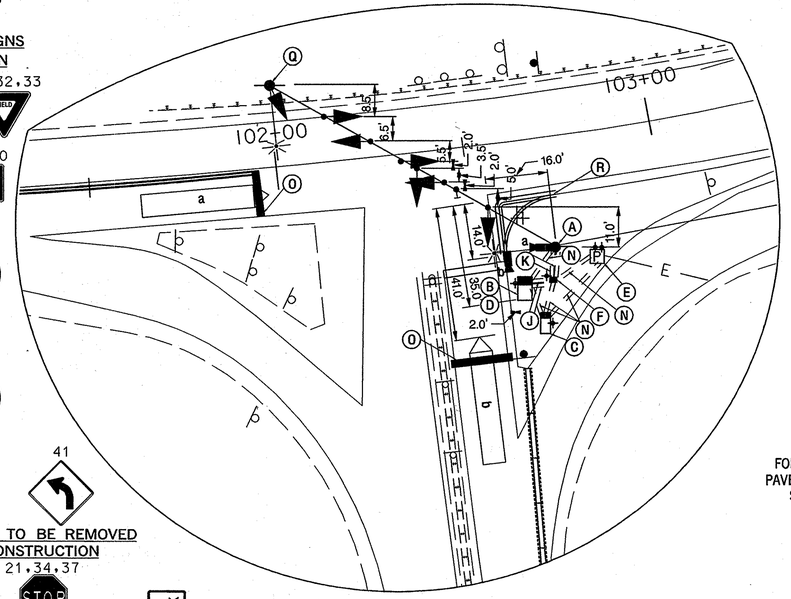
23,36 ONE WAY

21,34,37 STOP

22,38 ONE WAY

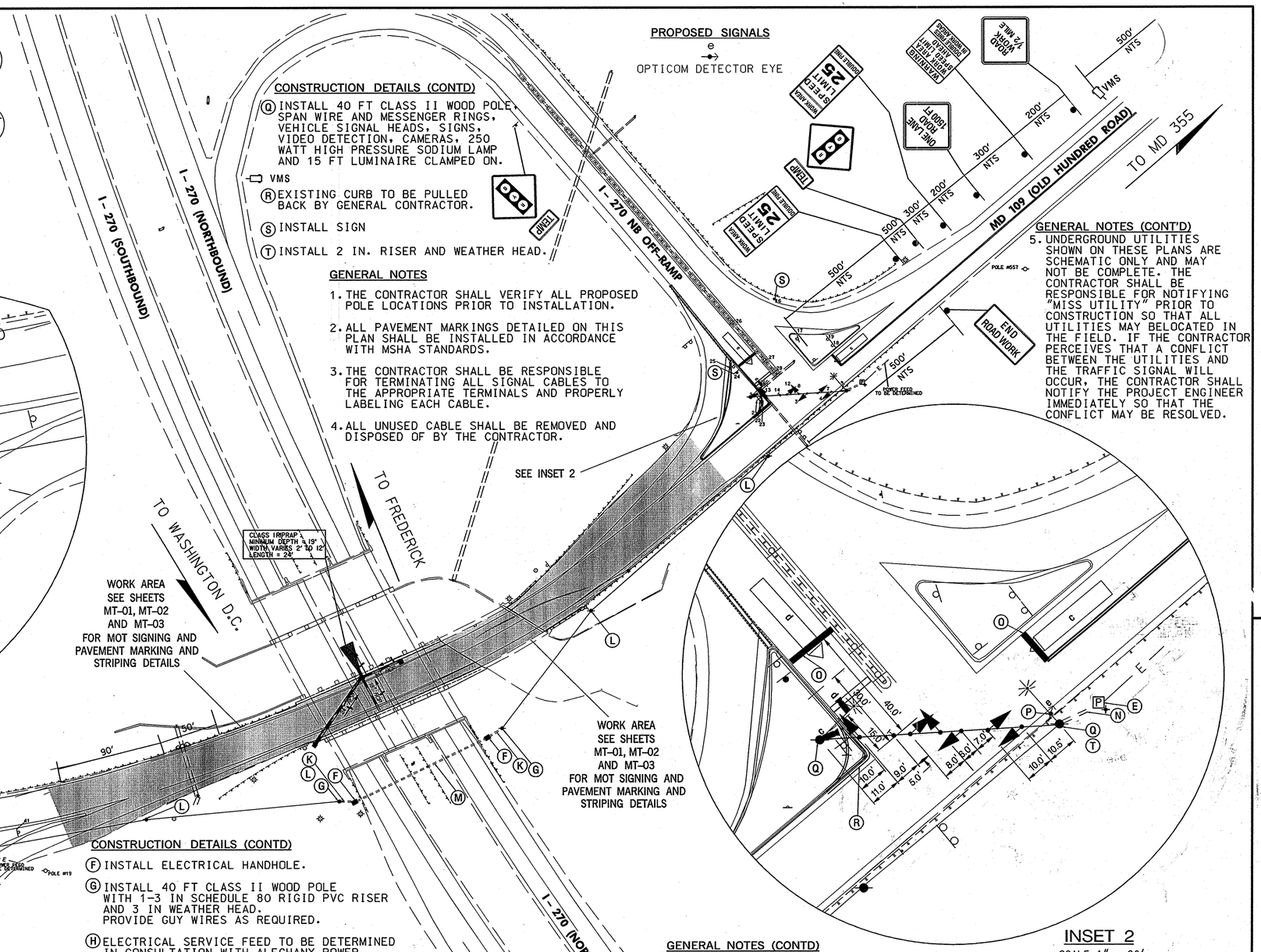
END ROAD WORK

TO BARNESVILLE



INSET 1
SCALE 1" = 20'

SEE INSET 1



INSET 2
SCALE 1" = 20'

PROPOSED SIGNALS

OPTICOM DETECTOR EYE

CONSTRUCTION DETAILS (CONTD)

(Q) INSTALL 40 FT CLASS II WOOD POLE, SPAN WIRE AND MESSENGER RINGS, VEHICLE SIGNAL HEADS, SIGNS, VIDEO DETECTION, CAMERAS, 250 WATT HIGH PRESSURE SODIUM LAMP AND 15 FT LUMINAIRE CLAMPED ON.

VMS

(R) EXISTING CURB TO BE PULLED BACK BY GENERAL CONTRACTOR.

(S) INSTALL SIGN

(T) INSTALL 2 IN. RISER AND WEATHER HEAD.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL PAVEMENT MARKINGS DETAILED ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
4. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

GENERAL NOTES (CONT'D)

5. UNDERGROUND 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 ALL UTILITIES MAY BELOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

CONSTRUCTION DETAILS (CONTD)

(F) INSTALL ELECTRICAL HANDHOLE.

(G) INSTALL 40 FT CLASS II WOOD POLE WITH 1-3 IN SCHEDULE 80 RIGID PVC RISER AND 3 IN WEATHER HEAD. PROVIDE GUY WIRES AS REQUIRED.

(H) ELECTRICAL SERVICE FEED TO BE DETERMINED IN CONSULTATION WITH ALEGHANY POWER.

(J) INSTALL 4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED

(K) INSTALL 3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.

(L) INSTALL 40 FT CLASS II WOOD POLE. PROVIDE GUY WIRES AS REQUIRED.

(M) INSTALL 4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED.

(N) INSTALL 2" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT -TRENCHED.

(O) INSTALL 24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING.

(P) INSTALL OPTICOM DETECTOR EYE.

GENERAL NOTES (CONTD)

5. ALL MOT SIGNS TO BE INSTALLED BY THE GENERAL CONTRACTOR.
6. THE CONTRACTOR SHALL REMOVE SIGNS AS NOTED DURING CONSTRUCTION. ALL SIGNS SHALL BE REPLACED AFTER CONSTRUCTION.
7. EXISTING STRIPING TO BE REMOVED BY GENERAL CONTRACTOR.

CONSTRUCTION DETAILS

(A) INSTALL 40 FT CLASS II WOOD POLE WITH 2-3 IN RISERS AND 1-2 IN RISER, 2-3 IN AND 1-2 IN WEATHER HEAD, SPAN WIRE AND MESSENGER RINGS, VEHICLE SIGNAL HEADS, SIGNS, VIDEO DETECTION, CAMERAS, 250 WATT HIGH PRESSURE SODIUM LAMP AND 15 FT LUMINAIRE CLAMPED ON.

(B) INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE: 2-2 IN. AND 2-4 IN. PVC CONDUIT BENDS).

(C) INSTALL UPS SYSTEM NEMA SIZE 5 BASE MOUNTED CABINET (SHA STANDARDS MD 816.04 AND MD 816.05) WITH ALL NECESSARY EQUIPMENT (NOTE 3-2 IN. PVC CONDUIT BENDS).

(D) INSTALL OPTICOM DISCRIMINATOR MODULE INTO PROPOSED NEMA SIZE 6 BASE MOUNTED CABINET.

(E) INSTALL EMBEDDED METERED SERVICE PEDESTAL FOR ELECTRICAL UTILITY SERVICE AS SHOWN.

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

BY: apowell

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Jacobs Engineering Group Inc.
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Tower Two, Suite 1000
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APPROVALS	
TEAM LEADER	11/10/08
ASST. DIV. CHIEF	11/10/08
DIVISION CHIEF	11/10/08
OFFICE DIRECTOR	

REVISIONS

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

MD 109 (OLD HUNDRED ROAD) AT I-270 NB AND SB ON/OFF RAMPS
HYATTSTOWN, MARYLAND

TEMPORARY TRAFFIC SIGNAL

SCALE 1" = 50' ADVERTISED DATE OCTOBER 2008 CONTRACT NO. MO4225180

DESIGNED BY	HD	COUNTY	MONTGOMERY
DRAWN BY	AP	LOGMILE	15010911.26
CHECKED BY		TIMS NO.	J190
F.A.P. NO.		TOD NO.	

TS NO. 4694 | DRAWING SG-1 OF 2 | SHEET NO. OF

PLOTTED: Thursday, November 06, 2008 AT 12:33 PM
FILE: P:\Ent\63008\dgn\700cadd\702dvlt\Task08-MD109\Final Review\psG-C001_MD109at270RampsRev1108a.dgn