

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING SPAN WIRE TRAFFIC SIGNAL TO A MAST-ARM TRAFFIC SIGNAL WITH APS AND CPS UPGRADES AT THE INTERSECTION OF MD 355 (FREDERICK RD) AT MD 118 (GERMANTOWN RD) IN MONTGOMERY COUNTY. VIDEO DETECTION IS TO BE USED ON ALL APPROACHES, AS WELL AS SAMPLING DETECTION IN THE NORTHBOUND, SOUTHBOUND AND WESTBOUND DIRECTIONS.

MD 355 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL CONTINUE TO OPERATE IN A SEMI-ACTUATED MODE USING 8 NEMA PHASES. THE LEFT TURNS WILL CONTINUE TO OPERATE WITH EXCLUSIVE LEFT-TURN PHASING. AUDIBLE PEDESTRIAN SIGNALS, NEW CURB AND GUTTER AND SIDEWALK WITH ADA RAMPS AND DETECTABLE WARNING SURFACE MATERIAL SHALL BE INSTALLED ON EACH CORNER OF THE INTERSECTION.

SPECIAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
2. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
3. 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 ALL UTILITIES MAY BE LOCATED 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.
4. CONTACT MR. MIKE KINNEY AT (240) 777-8760 SEVENTY-TWO HOURS IN ADVANCE OF NEEDING THE EXISTING MONTGOMERY COUNTY TRAFFIC SURVEILLANCE CAMERA AND CABINET RELOCATED TO THE PROPOSED SIGNAL POLE.
5. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.81 - 02.
6. APS WILL FUNCTION AS FOLLOWS:
 - TO CROSS MD 355
 - A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE WAIT TO CROSS FREDERICK AT GERMANTOWN.
 - B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
 - TO CROSS MD 118
 - A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE WAIT TO CROSS GERMANTOWN AT FREDERICK.
 - B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
7. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MR. JEFFREY WENZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318

MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (301) 513-7350

MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. RICHARD L. DAFF SR., CHIEF - TRAFFIC OPERATIONS DIVISIONS
PHONE: (410) 787-7630

MR. KAMAL HAMUD, CHIEF TRAFFIC OPERATIONS DIVISION, MONTGOMERY COUNTY
PHONE: (240) 777-8761

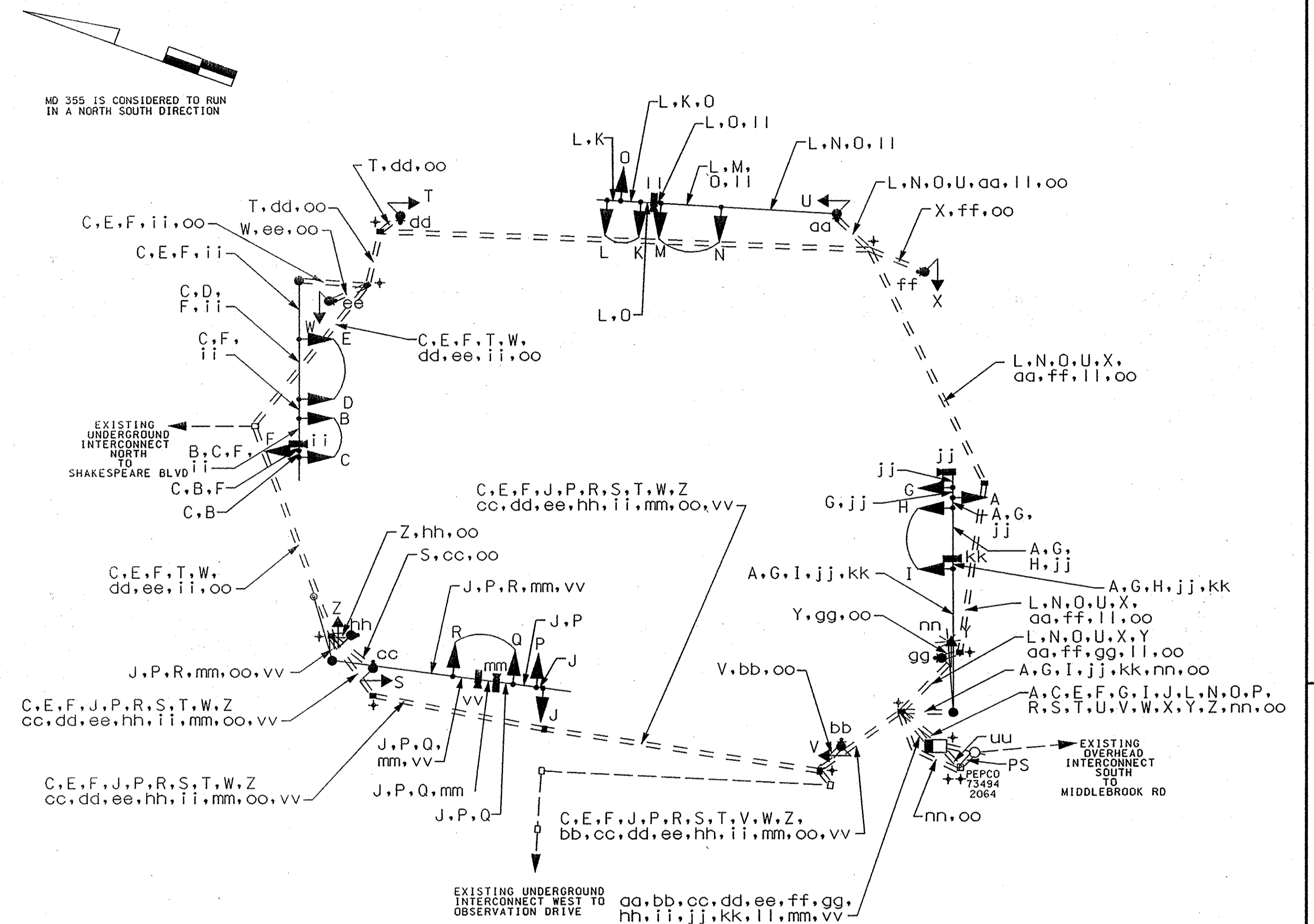
MR. KEITH LORD, MONTGOMERY COUNTY
PHONE: (301) 279-1291

MR. EUGENE BAILEY, SIGN SHOP
PHONE: (410) 787-7676

MR. MIKE KINNEY, MONTGOMERY COUNTY
PHONE: (240) 777-8760

THE POWER COMPANY REPRESENTATIVE IS:
MR. STEVE CUSTER
POTOMAC ELECTRIC POWER COMPANY
8300 OLD MARLBORO PIKE
UPPER MARLBORO, MARYLAND 20772
PHONE: (301) 548-4333

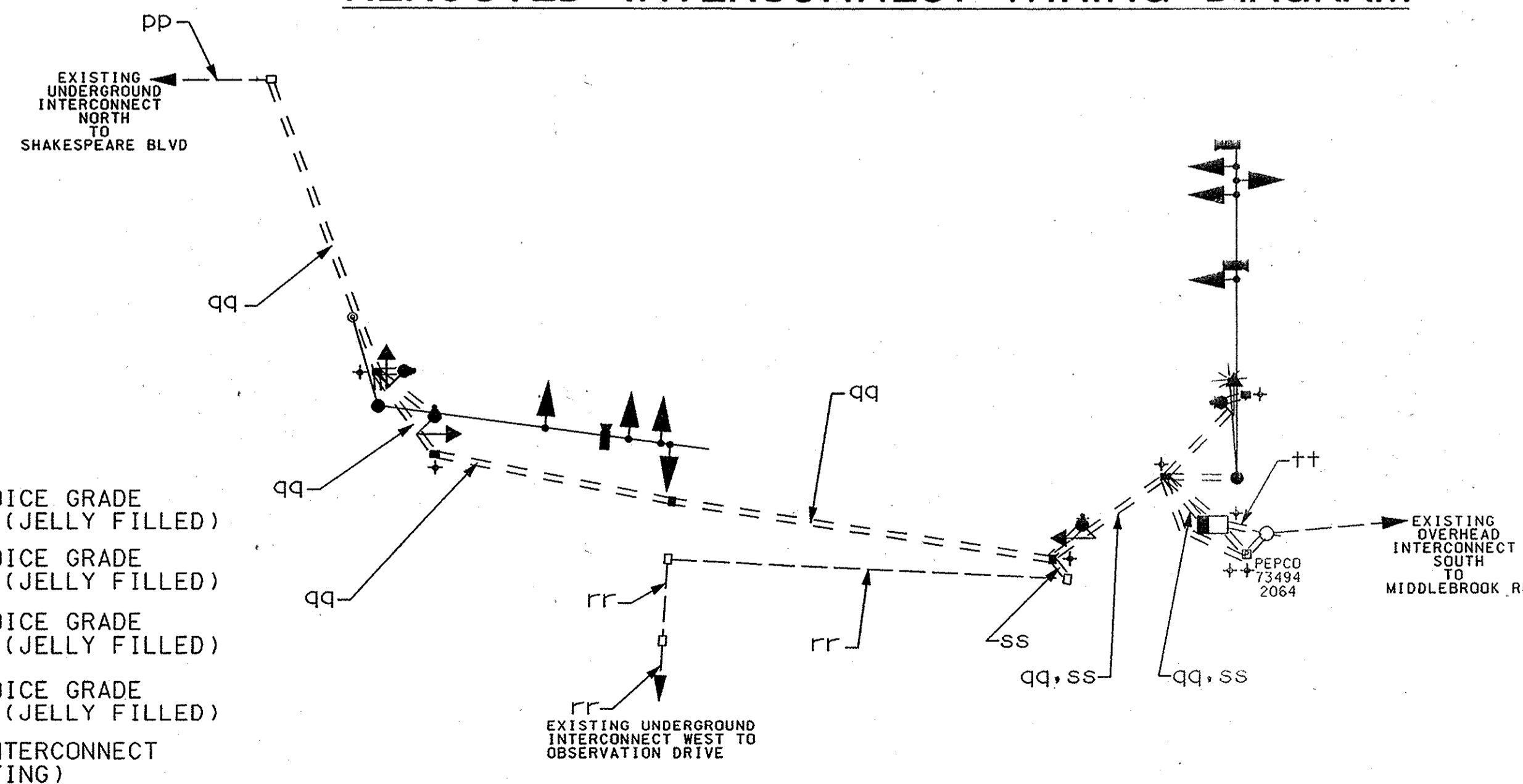
WIRING DIAGRAM



KEY

- A,C, F,G, J,L, O,P } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B,D, E,H, I,K, M,N, Q,R, S,T, U,V, W,X, Y,Z } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- aa,bb, cc,dd, ee,ff, gg,hh } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) {PUSHBUTTON}
- nn } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) {LUMINAIRE}
- ii,jj, kk,ll, mm,vv } VIDEO DETECTION CAMERA LEAD-IN CABLE
- oo } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- uu } POWER SERVICE UNDERGROUND 3-WIRE 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG THHN/THWN)
- ps } 3-WIRE, 1 CONDUCTOR 250 KCML ELECTRICAL CABLE
- + } GROUND ROD

REROUTED INTERCONNECT WIRING DIAGRAM



KEY

- pp } EXISTING 50-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)
- qq } REROUTED 50-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)
- rr } EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)
- ss } REROUTED 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)
- ++ } REROUTED 12-PAIR INTERCONNECT CABLE (SELF-SUPPORTING)

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (FREDERICK ROAD) AT MD 118 (GERMANTOWN ROAD)
LEFT TURN LANE EXTENSION AND TRAFFIC SIGNAL RECONSTRUCTION

TRAFFIC SIGNAL - GENERAL INFORMATION

SCALE	NTS	ADVERTISED DATE	MAY 2008	CONTRACT NO.	MO5635187
DESIGNED BY	DSU	COUNTY	MONTGOMERY		
DRAWN BY	JEH	LOGMILE	15011807.39		
CHECKED BY	DSU	TIMS NO.	G546		
F.A.P. NO.	SEE TITLE SHEET	TOD NO.	<TOD NO>		
TS NO. 2475B	DRAWING	SG-02	OF 3	SHEET NO.	13 OF 18

WBCM
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