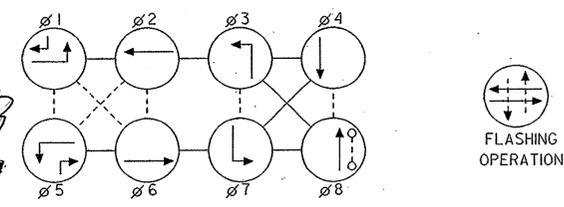
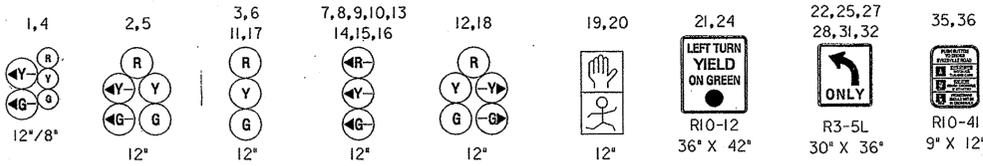


PROPOSED SIGNS/SIGNALS

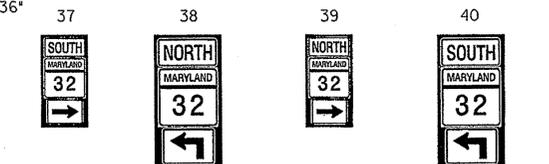
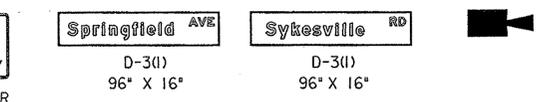
NEMA PHASING



MD 32 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES

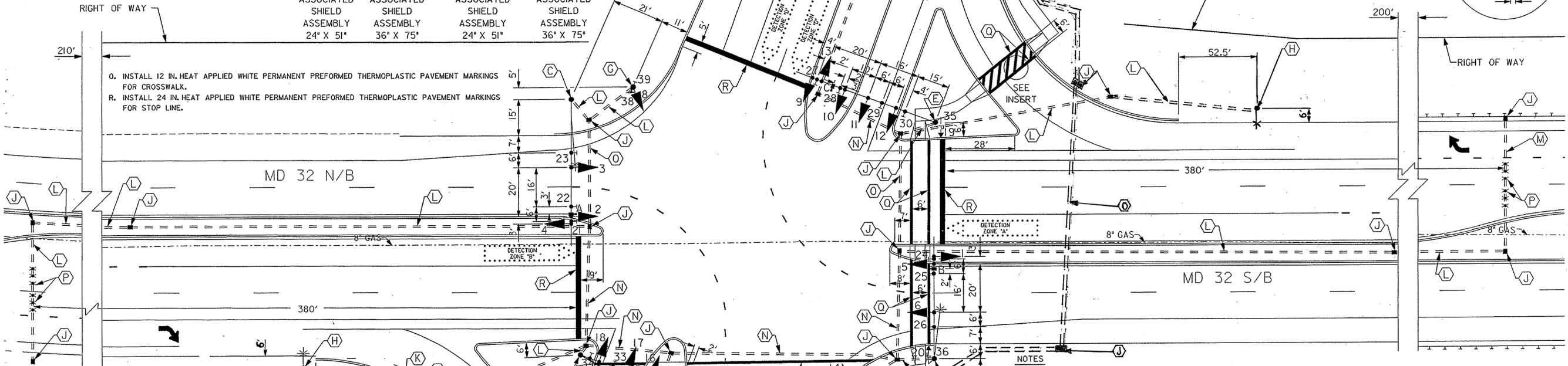
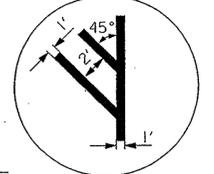


ASSOCIATED SHIELD ASSEMBLY 24' X 51'
 ASSOCIATED SHIELD ASSEMBLY 36' X 75'
 ASSOCIATED SHIELD ASSEMBLY 24' X 51'
 ASSOCIATED SHIELD ASSEMBLY 36' X 75'

NEMA NOTES

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
 PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

INSERT



CONSTRUCTION DETAILS:

- A. INSTALL NEMA SIZE 6\"/>
- B. INSTALL LIGHTING CONTROL CABINET FOR REMOTE SERVICE WITH METER AND DISCONNECT SWITCH, BANDED TO STRUCTURE OR POST MOUNTED.
- C. INSTALL 27 FT. STEEL POLE WITH 3 IN. ELBOW, 60 FT. MAST ARM, VEHICULAR SIGNAL HEADS, SIGNS, CAMERA AND 20 FT. LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE. CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE.
- D. INSTALL 27 FT. STEEL POLE WITH 3 IN. ELBOW, 50 FT. MAST ARM, VEHICULAR SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, SIGNS, CAMERA AND 20 FT. LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE. CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE.
- E. INSTALL 27 FT. STEEL POLE WITH 3 IN. ELBOW, 60 FT. MAST ARM, VEHICULAR SIGNAL HEADS, CAMERA PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND SIGNS. CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE.
- F. INSTALL 27 FT. STEEL POLE WITH 3 IN. ELBOW, 60 FT. MAST ARM, VEHICULAR SIGNAL HEADS, CAMERA, AND SIGNS, AND 10 FT. LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE.
- G. INSTALL 14 FT. PEDESTAL POLE WITH 2 IN. ELBOW VEHICULAR SIGNAL HEAD AND SIGN (NOTE: INSTALL SIGNAL HEAD 12 FT. ABOVE GRADE).
- H. INSTALL 30 FT. STEEL POLE WITH 6 FT. LIGHTING ARM 250 WATT, 240 VOLT HPS COBRAHEAD LUMINAIRE.
- J. INSTALL HANDHOLE.
- K. INSTALL 2 IN. (SCH 80) PVC ELECTRICAL CONDUIT-TRENCHED.
- L. INSTALL 3 IN. (SCH 80) PVC ELECTRICAL CONDUIT-TRENCHED.
- M. INSTALL 3 IN. (SCH 80) PVC ELECTRICAL CONDUIT-BORED.
- N. INSTALL 4 IN. (SCH 80) PVC ELECTRICAL CONDUIT-TRENCHED.
- O. INSTALL 4 IN. (SCH 80) PVC ELECTRICAL CONDUIT-BORED.
- P. INSTALL NON INVASIVE PROBE SET WITH 1000 FT. LEAD IN.

- 1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES, AS SPECIFIED IN MD 816.03, AND MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF THE SIGNAL EQUIPMENT.
- 2. ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES 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 EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.
- 3. PROPOSED POWER TO BE SUPPLIED BY C&P MD 33 BC&E POLE #128758 LOCATED 1000 FEET NORTH OF THE INTERSECTION AT STATION 184+74, 246 LT. SEE GENERAL INFO SHEET.
- 4. ALL PAVEMENT MARKINGS SHOWN ARE PROPOSED AND UNLESS OTHERWISE NOTED, ARE TO BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.

THE WILSON T. BALLARD CO.
 CONSULTING ENGINEERS
 OWINGS MILLS, MARYLAND

APPROVALS	REVISIONS
<i>Amey K. Beale</i> 1-18-05 TEAM LEADER	GREENLINE REVISION NO. UPDATE PROPOSED POWER SOURCE
<i>[Signature]</i> 1/18/05 ASSIST. DIR. CHIEF	
<i>[Signature]</i> 1/18/05 DIVISION CHIEF	
<i>[Signature]</i> 1/18/05 OFFICE DIRECTOR	

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

MD 32 AT RELOCATED
 MD 851 (SPRINGFIELD AVE)
 (TS 7291)

SCALE 1" = 20' DATE NOV 2004 CONTRACT NO. CL711A21

DESIGNED BY MB	COUNTY CARROLL
DRAWN BY MB	LOGMILE 06003201.12
CHECKED BY RNB	T.I.M.S. NO. F815
F.A.P. NO. SEE TITLE SHEET	TOD NO.

DRAWING NO. TP-1 1 OF 4 SHEET NO. OF

DRILL HOLES