

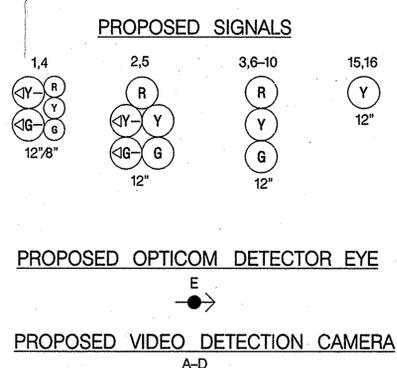
DRILL HOLES

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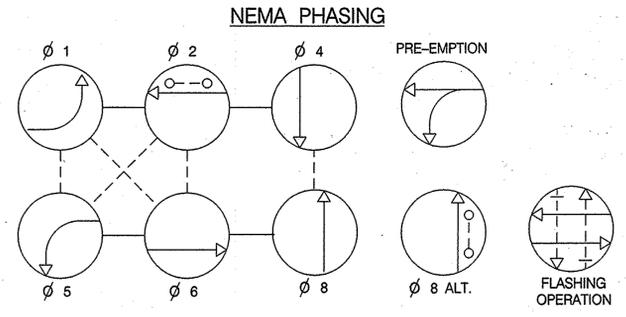
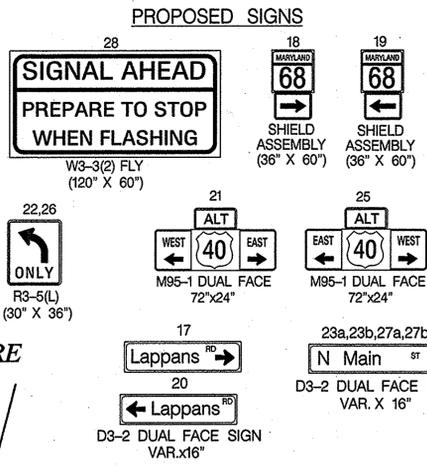
DRILL HOLES



US 40 ALT. IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



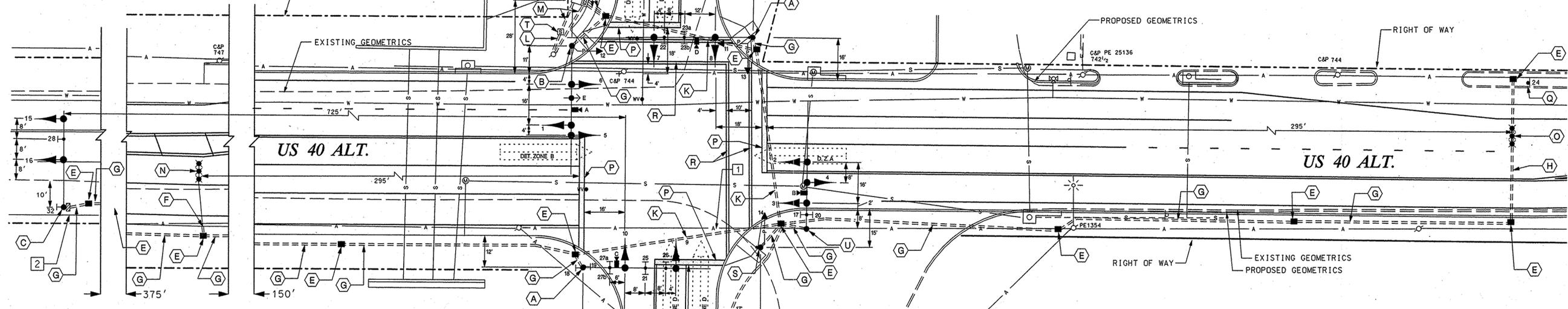
SITE ACCESS



PHASING NOTES:

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

2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- A. INSTALL 16.5 FT. MAST ARM POLE, 50 FT. MAST ARM WITH A 15 FT. "T" DIMENSION, VIDEO DETECTION CAMERA, SIGNAL HEADS, SIGN, PEDESTRIAN SIGNALS, PUSHBUTTON, AND SIGN. (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- B. INSTALL 16.5 FT. MAST ARM POLE, 50 FT. MAST ARM WITH A 15 FT. "T" DIMENSION, VIDEO DETECTION CAMERA, SIGNAL HEADS, SIGN, OPTICOM DETECTOR EYE AND PEDESTRIAN SIGNAL. (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- C. INSTALL 16.5 FT. MAST ARM POLE AND 60 FT. MAST ARM WITH A 15 FT. "T" DIMENSION, SIGNAL HEADS, W3-3(2) SIGN, AND A POLE MOUNTED "G" FLASHER CABINET WITH 2-CIRCUIT FLASHER WITH SPECIAL RELAY. (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS) CUT 60 FT. MAST ARM TO 35 FT. IN LENGTH
- D. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH CONTROL AND DISTRIBUTION EQUIPMENT, SPECIAL RELAY, AND ALL NECESSARY EQUIPMENT. (NOTE: INSTALL 2-4 IN. AND 2-2 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- E. INSTALL ELECTRICAL HANDHOLE
- F. INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (DETECTOR WIRE SLEEVE)
- G. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- H. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
- J. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- K. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
- L. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED - POWER SERVICE
- M. INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- N. INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
- O. INSTALL NON-INVASIVE PROBE WITH 1000 FT. LEAD-IN
- P. INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
- Q. INSTALL W3-3 SIGN ON TWO 4 IN. X 4 IN. WOOD POSTS 500' PRIOR TO THE INTERSECTION
- R. INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
- S. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
- T. INSTALL METERED SERVICE PEDESTAL
- U. INSTALL 16.5 FT. MAST ARM POLE, 50 FT. MAST ARM WITH A 15 FT. "T" DIMENSION, VIDEO DETECTION CAMERA, SIGNAL HEADS AND SIGN. (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)

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 UTILITIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. 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 CLEARANCE 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.
3. DUE TO THE UNKNOWN LOCATION OF UTILITY POLES TO BE RELOCATED, THE QUANTITIES FOR THE PHONE DROP AND ELECTRIC SERVICE HAVE BEEN ASSUMED AND MUST BE CONFIRMED BY THE CONTRACTOR.
4. THE LOCATION OF PROPOSED GEOMETRICS MUST BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
5. LOOP DETECTORS AND CONDUIT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
6. PAVEMENT MARKINGS NOT DETAILED ON THIS PLAN ARE TO BE INSTALLED BY OTHERS.
7. MAST ARMS SHALL NOT BE CUT UNTIL THE FOUNDATION IS INSTALLED AND SIGNAL HEAD LOCATIONS CONFIRMED.

UTILITY HEIGHTS

- CATV = 19' - 1"
- NEUTRAL = 27' - 0"
- PRIMARY = 34' - 4"
- C & P = 18' - 6"
- NEUTRAL = 24' - 6"
- PRIMARY = 31' - 6"

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	_____	A
ELECTRICAL	_____	E
TELEPHONE	_____	T
GAS	_____	G
SEWER	_____	S
WATER	_____	W
CABLE TV	_____	TV

MD 68 (LAPPANS RD)

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SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
 US 40 ALT. AND MD 68
 BOONSBORO, MD

SCALE 1"=20' DATE 9-8-05 CONTRACT NO. BW996M82

DESIGNED BY T. ZAYDEL COUNTY WASHINGTON
 DRAWN BY K. SCHMID LOGMILE 2100409.18
 CHECKED BY T.J.M.S. NO. F 974
 F.A.P. NO. N/A TOD NO.

DRAWING NO. TS-4281 SHEET NO. 1 OF 2