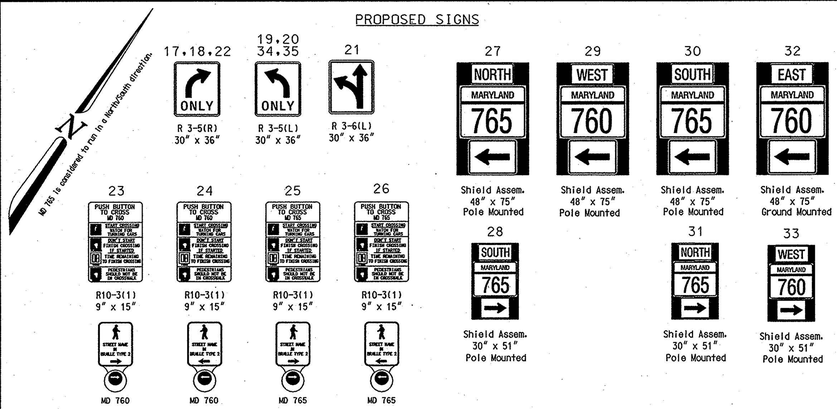
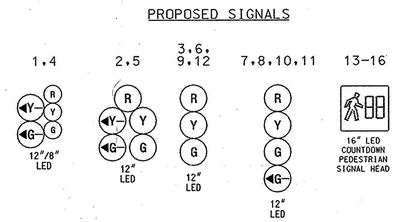
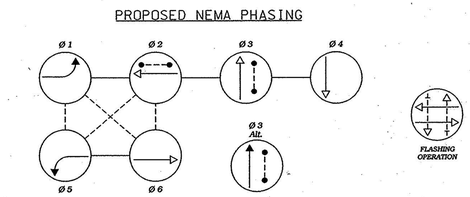
PROPOSED SIGNS



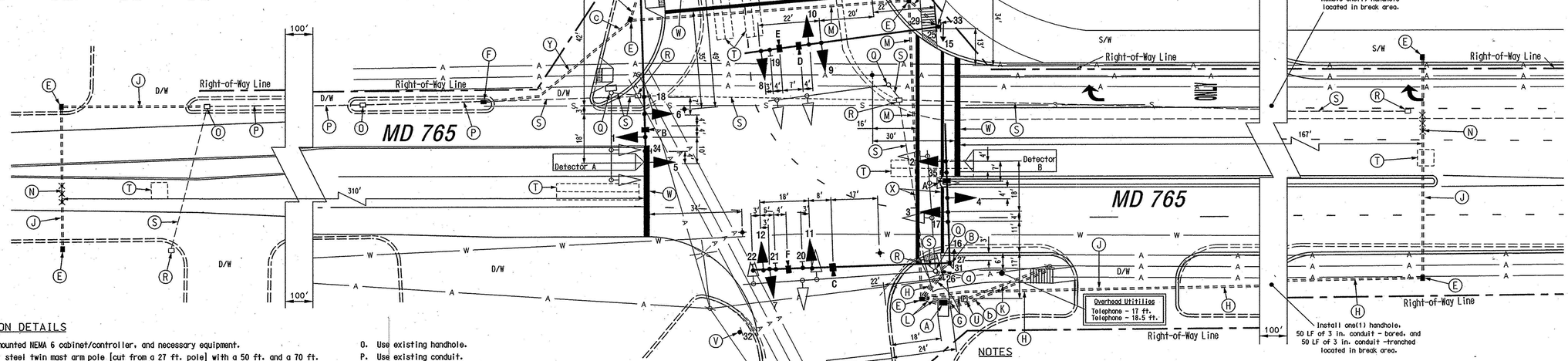
PROPOSED SIGNALS



PROPOSED NEMA PHASING



NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.



CONSTRUCTION DETAILS

A. Install base mounted NEMA 6 cabinet/controller, and necessary equipment.
B. Install 23 ft. steel twin mast arm pole [cut from a 27 ft. pole] with a 50 ft. and a 70 ft. mast arms, vehicle signal heads, signs, video detection cameras, LED countdown pedestrian signal head, audible pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 3 in. PVC conduit bend).
C. Install 21 ft. steel mast arm pole [cut from a 27 ft. pole] with 70 ft. mast arm, vehicle signal heads, signs, video detection cameras, LED countdown pedestrian signal head, audible pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 3 in. PVC conduit bend).
D. Install 21 ft. steel mast arm pole [cut from a 27 ft. pole] with 70 ft. mast arm, vehicle signal heads, signs, video detection camera , LED countdown pedestrian signal head, audible pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 3 in. PVC conduit bend).
E. Install handhole.
F. Install handhole on existing conduit run.
G. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
H. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
J. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
K. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched to power source with pull string.
L. Install two pieces of 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
M. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
N. Install non-invasive micro-loop probe (set of 3).
O. Use existing handhole.
P. Use existing conduit.
Q. Remove existing signal pole and all attached equipment.
R. Remove existing handhole.
S. Cap and abandon existing conduit.
T. Abandon existing vehicle detector.
U. Install metered service pedestal for underground electrical service per MD-SHA Typical 807.05-01.
V. Install ground mounted sign.
W. Install 24 in. wide pavement marking - white for stop line.
X. Install 12 in. wide pavement marking - white for crosswalk.
Y. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit- slotted in roadway.
Z. Install 10 ft. pedestal pole on break-away base with LED countdown pedestrian signal head, audible pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in PVC conduit bend).
a. Install 4 ft. steel pedestal pole on break away base with audible pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
b. Install 2 in. conduit trenched for phone service by Verizon.
c. Remove and replace existing concrete.

NOTES

1. Video camera location/aligning shall be coordinated with the SHA Engineer.
2. The contractor shall verify all proposed pole and cabinet locations prior to installation.
3. All existing traffic signal equipment removed shall become the property of the signal contractor upon completion of the new signal.
4. All proposed luminaires shall be supplied with a photocell.
5. For final pavement markings refer to the Pavement Marking Plans. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Developer's project or are to be considered as existing.
6. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances 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.
7. Poles are to be located so that they can be activated by a person in a wheelchair from a 60 in. x 60 in. level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.
8. If the location of accessible pedestrian signal pushbutton must be changed, The contractor shall notify the Project Engineer to obtain approval for the new location to ensure MUTCD Sec. 4E.09 & Fig. 4E-2 and the NCHRP publication, "Accessible Pedestrian signals: Guide to Best Practice". If not met, the Contractor is to stop work on pushbutton locations until a design Waiver is obtained, approved by the director, Office of Traffic and Safety.
9. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. 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 appropriate Project Engineer immediately.
10. Contractor shall be responsible for delivering APS equipment for programing to MD-SHA Signal Maintenance Shop. Location of Accesible Signal pushbutton must meet location requirements of the MUTCD See 4E.9 and Fig 4E.3.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

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

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

These plans are approved for construction for a period of 1 yearfrom the date of approval. Should construction not begin within this time frame these plans shall be null and void without a re-view from the Traffic Engineering Design Division.

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS					
(B) March 9, 2007 Reconstruct due to new geometrics. S.H.A. No.:BW996M82					
JJD	RWM	DJD	MAR	DAZ	TH
D REPLACE EB & WB MD 760 DETECTORS					
SHA NO BW 996M82		TIMS H368			10/28/05
TMZ	KMP	JAH			WH
C					Aug. 2000
Install logging E/P for SB MD 765.					
GJS	MAR	DAZ			TH

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

MD 765 at MD 760

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE May 11, 1990 CONTRACT NO. 23854T250650 04

DESIGNED BY R. Zacheryl
DRAWN BY R. Zacheryl
CHECKED BY EMM/DJD
F.A.P. NO. N/A
COUNTY Calvert
LOGMILE 04076501.96
T.I.M.S. NO. I-084
TOD NO.

DRAWING NO. TS - 2643- E
SHEET NO. 1 OF 2

o:\jobs\32032\2003-0298\0as-sw\MD 765 signal.dgn 3/12/2007

DRILL HOLES
DRILL HOLES
DRILL HOLES