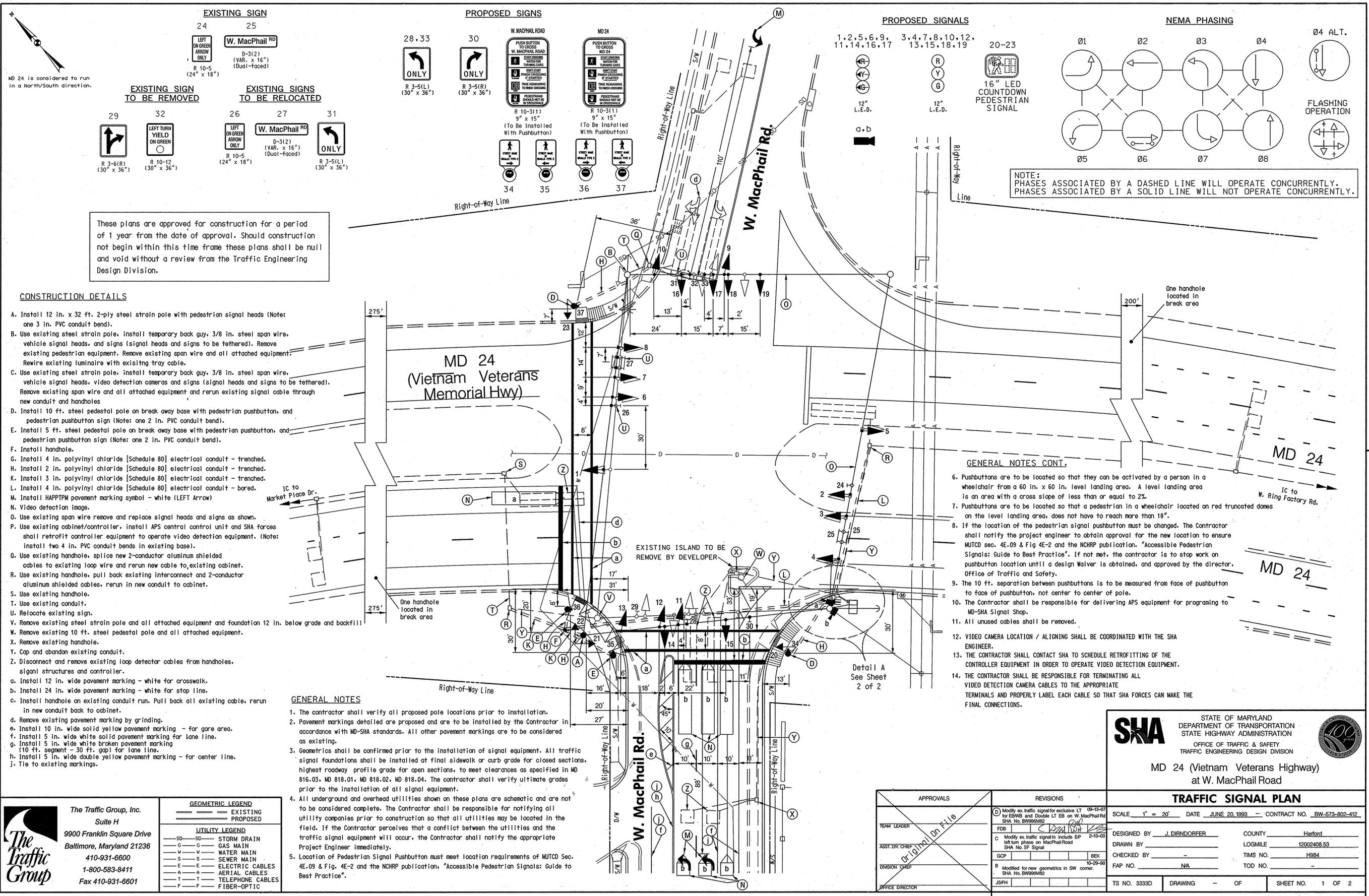


BORDER REV. DATE: W/09/12/2009/07

DRILL HOLES

DRILL HOLES

DRILL HOLES



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

CONSTRUCTION DETAILS

- A. Install 12 in. x 32 ft. 2-ply steel strain pole with pedestrian signal heads (Note: one 3 in. PVC conduit bend).
- B. Use existing steel strain pole, install temporary back guy, 3/8 in. steel span wire, vehicle signal heads, and signs (signal heads and signs to be tethered). Remove existing pedestrian equipment. Remove existing span wire and all attached equipment. Rewire existing luminaire with existing tray cable.
- C. Use existing steel strain pole, install temporary back guy, 3/8 in. steel span wire, vehicle signal heads, video detection cameras and signs (signal heads and signs to be tethered). Remove existing span wire and all attached equipment and rerun existing signal cable through new conduit and handholes.
- D. Install 10 ft. steel pedestal pole on break away base with pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
- E. Install 5 ft. steel pedestal pole on break away base with pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
- F. Install handhole.
- G. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- H. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- L. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- M. Install HAPPTM pavement marking symbol - white (LEFT Arrow)
- N. Video detection image.
- O. Use existing span wire remove and replace signal heads and signs as shown.
- P. Use existing cabinet/controller, install APS central control unit and SHA forces shall retrofit controller equipment to operate video detection equipment. (Note: install two 4 in. PVC conduit bends in existing base).
- Q. Use existing handhole, splice new 2-conductor aluminum shielded cables to existing loop wire and rerun new cable to existing cabinet.
- R. Use existing handhole, pull back existing interconnect and 2-conductor aluminum shielded cables, rerun in new conduit to cabinet.
- S. Use existing handhole.
- T. Use existing conduit.
- U. Relocate existing sign.
- V. Remove existing steel strain pole and all attached equipment and foundation 12 in. below grade and backfill.
- W. Remove existing 10 ft. steel pedestal pole and all attached equipment.
- X. Remove existing handhole.
- Y. Cap and abandon existing conduit.
- Z. Disconnect and remove existing loop detector cables from handholes, signal structures and controller.
- a. Install 12 in. wide pavement marking - white for crosswalk.
- b. Install 24 in. wide pavement marking - white for stop line.
- c. Install handhole on existing conduit run. Pull back all existing cable, rerun in new conduit back to cabinet.
- d. Remove existing pavement marking by grinding.
- e. Install 10 in. wide solid yellow pavement marking - for gore area.
- f. Install 5 in. wide white solid pavement marking for lane line.
- g. Install 5 in. wide white broken pavement marking (10 ft. segment - 30 ft. gap) for lane lines.
- h. Install 5 in. wide double yellow pavement marking - for center line.
- j. Tie to existing markings.

GENERAL NOTES

1. The contractor shall verify all proposed pole locations prior to installation.
2. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings are to be considered as existing.
3. 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.
4. 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.
5. Location of Pedestrian Signal Pushbutton must meet location requirements of MUTCD Sec. 4E.09 & Fig. 4E-2 and the NCHRP publication, "Accessible Pedestrian Signals: Guide to Best Practice".

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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

APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASSY. DIR. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>D Modify ex. traffic signal for exclusive LT 09-13-07 for ESMB and Double LT EB on W. MacPhail Rd. SHA No. BW996M82</p> <p>C Modify ex. traffic signal to include EP left turn phase on MacPhail Road SHA No. SF Signal 2-13-03</p> <p>GCP</p> <p>B Modified for new geometrics in SW corner. SHA No. BW996M82 10-29-08</p> <p>JSFH</p>

TRAFFIC SIGNAL PLAN			
SCALE 1" = 20'	DATE JUNE 20, 1993	CONTRACT NO. BW-573-802-412	
DESIGNED BY J. DIRNDORFER	COUNTY Harford		
DRAWN BY	LOGMILE 12002408.53		
CHECKED BY	TIMS NO. H984		
FAP NO. N/A	TOD NO.		
TS NO. 3333D	DRAWING - OF	SHEET NO. 1 OF 2	

PLOTTED: Tuesday, September 25, 2007 AT 10:30 AM
FILE: P:\9941094-1117\Des\Traffic\SS-POSS_MDC2\FINAL.dgn