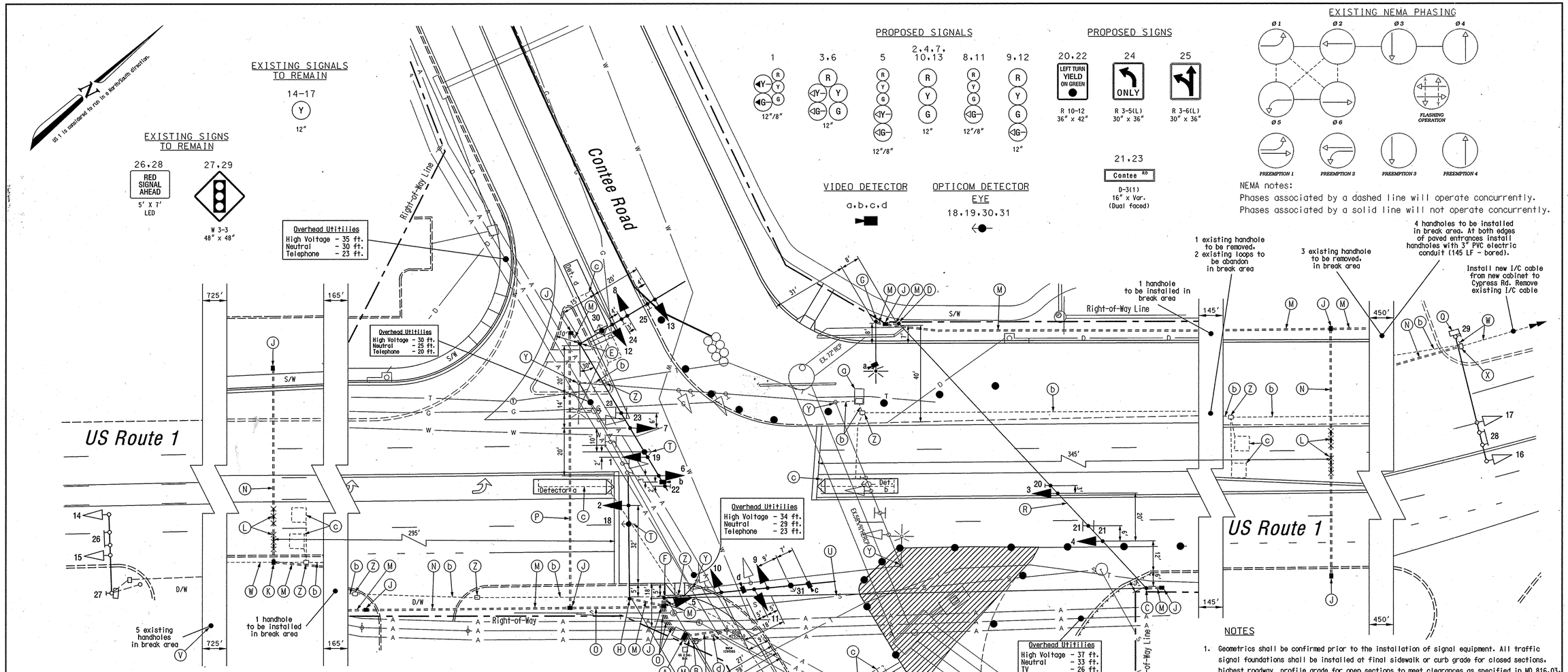


## CONSTRUCTION DETAILS

A. Install base mounted NEMA 6 cabinet/controller and all necessary equipment for a MD-SHA Typ. 807.05-01 underground service (Note: three 4 in., one 3 in., one 2 in. PVC conduit bends).
B. Install electrical service pedestal per MD SHA 807.05-01.
C. Install 12 in. x 32 ft. 2-ply steel strain pole (Note: one 3 in. PVC conduit bend).
D. Install 12 in. x 32 ft. 2-ply steel strain pole (Note: one 3 in. PVC conduit bend; pole base foundation to be 15 ft. in depth).
E. Install 23 ft. [cut from 27 ft.] steel twin mast arm pole with 50 ft. and 70 ft. mast arms, vehicle signal heads, signs, video detector cameras, and opticom detector eye (Note: one 3 in. PVC conduit bend).
F. Install 21 ft. [cut from 27 ft.] steel mast arm pole with a 70 ft. mast arm, vehicle signal heads, video detector cameras, opticom detector eye(with 20 ft. extra cable), and back guy. Install 25 ft. of extra cable per signal head for use in final build out (Note: two 3 in. PVC conduit bends, one 3 in. weatherhead).
G. Install 27 ft. steel mast arm pole with a 20 ft. luminaire arm, 250 watt HPS luminaire, and video detector camera (Note: Mast arm to be installed during later phase, one 3 in. PVC conduit bend, pole base foundation to be 15 ft. in depth).
H. Install 27 ft. steel mast arm pole with a 50 ft. mast arm and vehicle signal heads (Note: One 3 in. conduit bend).
J. Install handhole.
K. Install handhole on existing conduit run.
L. Install non-invasive micro-loop probe (set of three). To be installed with 20 ft. of extra cable for use during construction phases.
M. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
N. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
O. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
P. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
Q. Install new 7-conductor cable from existing HiB cabinet to new cabinet/controller at US 1 and Contee Road Intersection.
R. Install ⅜ in. steel span wire, vehicle signal heads, and signs as shown (signal and signs to be tethered).
T. Install Opticom Detector Eye (coil approx. 25 ft. of cable for relocation during construction phases).
U. Install ⅜ in. steel span wire for cable runs.
V. Use nearest undisturbed existing handhole, pull back existing 7-conductor cable from existing controller and rerun in new conduit back to new cabinet/controller.
W. Use existing conduit.
X. Use existing handhole.
Y. Remove existing steel strain pole and all existing equipment.
Z. Remove existing handhole.
a. Remove existing cabinet/controller.
b. Cap and abandon existing conduit.
c. Abandon existing loop detectors.
d. Install 4 in. PVC [Schedule 80] electrical conduit for proposed underground electrical service by BG&E.
e. Install 2 in. PVC [Schedule 80] electrical conduit for proposed phone service by Verizon.

## NOTES

1. 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.
2. 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 Maintenance of Traffic Phase or are to be considered as existing.
3. Revision 'E' is a revision to the traffic signal built under S.H.A. Contract No.: XX1005185.
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.

# MOT PHASE I

GEOMETRIC LEGEND
- EXISTING GEOMETRICS
- PROPOSED GEOMETRICS
- FUTURE GEOMETRICS

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

Revision "G"

The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

REVISIONS

| | | |
|---|---|---|
| 6 | Reconstruct Traffic Signal due to Geometric Widening | 5/20/05 |

FDB/JES CJS DMD

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION
(Maintenance of Traffic Signal Plan)
*US Route 1 at Contee Road*

| | | | |
|---|---|---|---|
| DRAWN BY: | F.A.P. NO. AC-STPG-000S(683)E | TS NO. 1536G-X1 | SHEET NO. |
| CHECKED BY: | S.H.A. NO. XX1005185 | | |
| SCALE: 1" = 20' | COUNTY: Prince George's | T.I.M.S. NO. F-750 | 1 OF 10 |
| DATE: | LOG MILE: 16000111.49 | | |

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