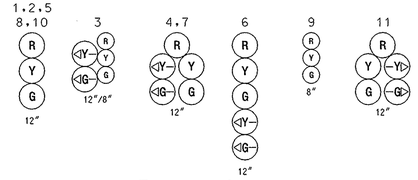
MD 108 is considered to run in an East/West direction.

EXISTING SIGNALS



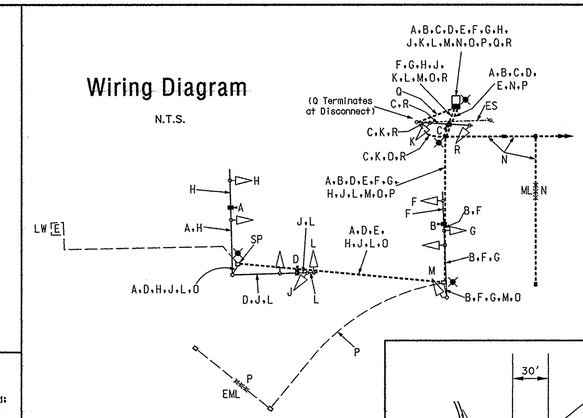
EXISTING SIGNS

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11
Phase 1 & 6	R	R	G G	G G	G	R	R	R	R	R	R G
1 Change	R	R	G Y	G Y	G	R	R	R	R	R	R Y
Phase 2 & 6	G	G	G	G	G	R	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	R	R
Phase 3 & 8	R	R	R	R	R	G G	G G	G	R	R	R
3 Change	R	R	R	R	R	G Y	G Y	G	R	R	R
Phase 4 & 8	R	R	R	R	R	G	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

Wiring Diagram

N.T.S.



A, B, C, D — Video Detector Cable

E — 2-Conductor Cable (Aluminum Shielded)

F, G, H, J, K, L, M, R — 7-Conductor Electrical Cable (No. 14 A.W.G.)

N — Non-Invasive Micro-loop Detector Lead-in Cable

O — Bare Copper Ground Wire (No. 6 A.W.G.)

P — Existing Non-Invasive Micro-loop Detector Lead-in Cable

Q — 1-Conductor (No. 4 A.W.G.) (3 pieces) for Traffic Signal Electrical Service

SP — Splice Aluminum Shielded Cable To Existing Loop Wire

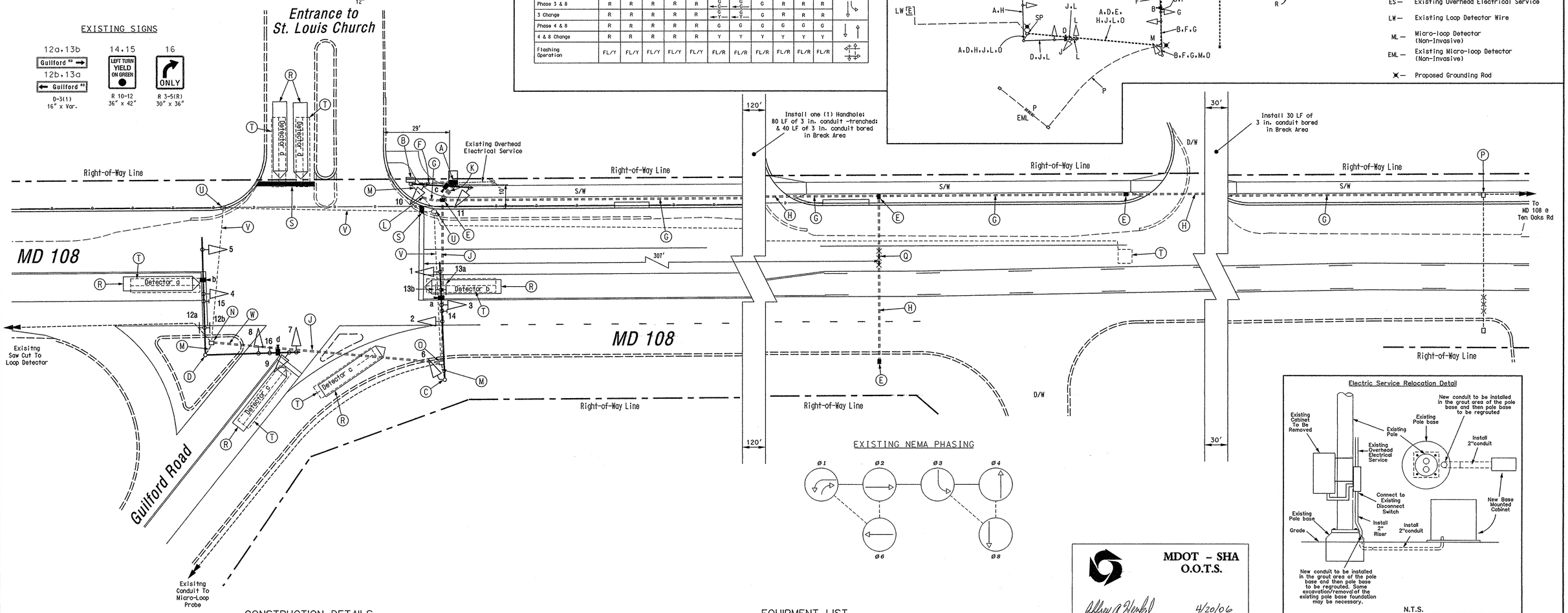
ES — Existing Overhead Electrical Service

LW — Existing Loop Detector Wire

ML — Micro-loop Detector (Non-Invasive)

EML — Existing Micro-loop Detector (Non-Invasive)

Proposed Grounding Rod



EXISTING NEMA PHASING

MDOT - SHA
O.O.T.S.

4/20/06
S.H.A. Approval Date

T.S.- 3161B Log Mile -13010803.45

CONSTRUCTION DETAILS

A. Install base mounted NEMA 6 cabinet. Install/relocate existing controller.
B. Use existing pole. Install video detection camera. Remove existing cabinet and relocate controller. Re-route existing electrical service to new cabinet (see detail).
C. Use existing pole. Install video detection camera.
D. Use existing pole. Install video detection cameras.
E. Install handhole.
F. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
G. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
H. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
J. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
K. Install 2 pcs. of 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
L. Tie new conduit to existing conduit.
M. Use existing conduit.
N. Use existing handhole. Splice new aluminum shielded cable to existing loop wire.
O. Use existing handhole. Pull back existing micro-loop lead-in cable and reroute to new cabinet.
P. Use existing handhole for MD 108 @ Ten Oaks intersection.
Q. Install non-invasive mirco-loop probe (set of 3).
R. New video detection zone.
S. Install 24 in. wide pavement marking - white for stop line.
T. Disconnect existing loop detector.
U. Remove existing handhole.
V. Cap and abandon existing conduit.
W. Remove/replace concrete in island as necessary for installation of conduit.

EQUIPMENT LIST

Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	816	Standard S.H.A. traffic signal controller, base mounted NEMA 6 cabinet, one (1) four-channel loop detector amplifier, and video detection equipment (Note: The existing controller is to be relocated to this cabinet. The Cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).
4	EA	---	Video Detection Camera and cable (1- 150 LF, 1- 250 LF, 2 - 350 LF)
1	EA	---	Non-Invasive Micro -loop probe (set of 3) with 500 ft. lead-in cable.
1	CY	205	Test pit excavation.
5	EA	811	Handhole.
75	LF	810	1-conductor electrical cable (No. 4 A.W.G.) (3 pieces).
200	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
1450	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
250	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
15	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
425	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
225	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
25	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
175	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
4	EA	804	Ground rod -3/4in. diameter x 10 ft. length.
1	EA	810	Loop detector splice.
30	LF	549	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	Remove/replace concrete in island.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.
Lump Sum	LS	---	Relocate existing micro loop cable.
Lump Sum	LS	---	Electrical service relocation (see detail).

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

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

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

St. Louis Church

MD 108 @ Guilford Road

Traffic Signal Modification Plan

NO.	REVISION DESCRIPTION	BY	DATE

SCALE: 1" = 20'
DRAWN BY: J. Dirndorfer
DESIGNED BY: J. Dirndorfer
CHECKED BY: J. Dirndorfer
DATE: April 20, 2006
JOB NO: 2002-0910
SHEET NO: 1 of 1
LOCATION: Howard County, MD
FILE: ttg-base.DGN

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