MD 185 (Connecticut Ave.) is considered to run in a North/South direction.

PROJECT DESCRIPTION

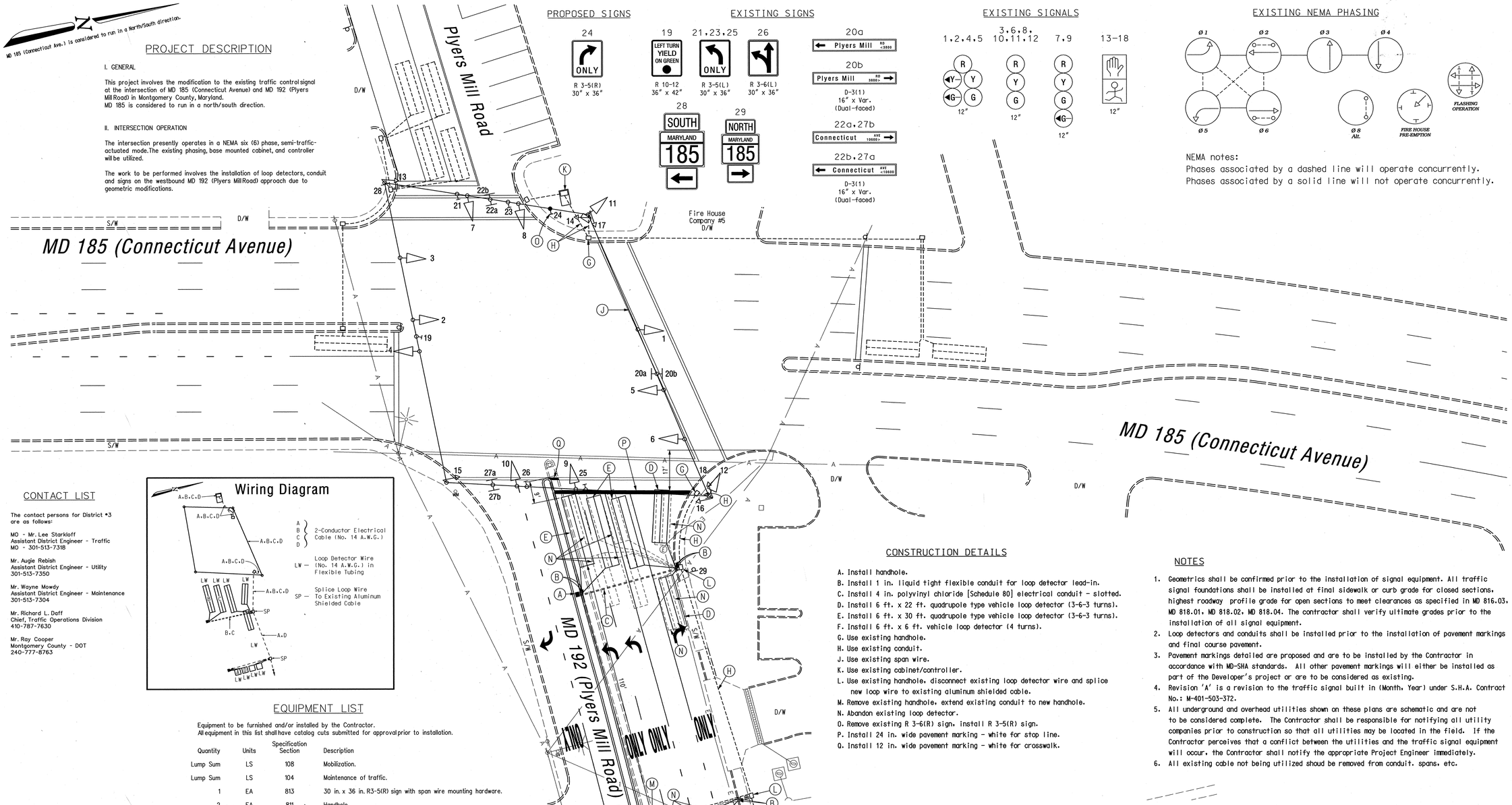
I. GENERAL

This project involves the modification to the existing traffic control signal at the intersection of MD 185 (Connecticut Avenue) and MD 192 (Plyers Mill Road) in Montgomery County, Maryland.
MD 185 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection presently operates in a NEMA six (6) phase, semi-traffic-actuated mode. The existing phasing, base mounted cabinet, and controller will be utilized.

The work to be performed involves the installation of loop detectors, conduit and signs on the westbound MD 192 (Plyers Mill Road) approach due to geometric modifications.



PROPOSED SIGNS

24 — R 3-5(R) 30" x 36"

EXISTING SIGNS

19 — LEFT TURN YIELD ON GREEN — R 10-12 36" x 42"

21,23,25 — ONLY — R 3-5(L) 30" x 36"

26 — R 3-6(L) 30" x 36"

28 — SOUTH MARYLAND 185

29 — NORTH MARYLAND 185

20a — Plyers Mill RD <3800

20b — Plyers Mill RD 3800>

D-3(1) 16" x Var. (Dual-faced)

22a,27b — Connecticut AVE 10800>

22b,27a — Connecticut AVE <10800

D-3(1) 16" x Var. (Dual-faced)

EXISTING SIGNALS

1,2,4,5 — R, Y, G, G — 12"

3,6,8, 10,11,12 — R, Y, G — 12"

7,9 — R, Y, G, G — 12"

13-18 — 12"

EXISTING NEMA PHASING

Ø1, Ø2, Ø3, Ø4, Ø5, Ø6, Ø8 Alt., FIRE HOUSE PRE-EMPTION, FLASHING OPERATION

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

CONTACT LIST

The contact persons for District #3 are as follows:

MO - Mr. Lee Starkloff
Assistant District Engineer - Traffic
MO - 301-513-7318

Mr. Augie Rebish
Assistant District Engineer - Utility
301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
301-513-7304

Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

Mr. Ray Cooper
Montgomery County - DOT
240-777-8763

Wiring Diagram

A, B, C, D — 2-Conductor Electrical Cable (No. 14 A.W.G.)

LW — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing

SP — Splice Loop Wire To Existing Aluminum Shielded Cable

EQUIPMENT LIST

Equipment to be furnished and/or 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	813	30 in. x 36 in. R3-5(R) sign with span wire mounting hardware.
2	EA	811	Handhole.
680	LF	815	Sawcut for signal loop detector.
2500	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
1850	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
30	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
55	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - slotted.
5	EA	810	Loop detector splice.
4	LF	549	12 in. wide HAPPTPM - white for crosswalk.
55	LF	549	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	Remove and dispose of existing traffic equipment.
Lump Sum	LS	---	As-built for S.H.A. [on CADD].

CONSTRUCTION DETAILS

A. Install handhole.
B. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
C. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted.
D. Install 6 ft. x 22 ft. quadrupole type vehicle loop detector (3-6-3 turns).
E. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (3-6-3 turns).
F. Install 6 ft. x 6 ft. vehicle loop detector (4 turns).
G. Use existing handhole.
H. Use existing conduit.
J. Use existing span wire.
K. Use existing cabinet/controller.
L. Use existing handhole, disconnect existing loop detector wire and splice new loop wire to existing aluminum shielded cable.
M. Remove existing handhole, extend existing conduit to new handhole.
N. Abandon existing loop detector.
O. Remove existing R 3-6(R) sign, install R 3-5(R) sign.
P. Install 24 in. wide pavement marking - white for stop line.
Q. Install 12 in. wide pavement marking - white for crosswalk.

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. Loop detectors and conduits shall be installed prior to the installation of pavement markings and final course pavement.
3. 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.
4. Revision 'A' is a revision to the traffic signal built in (Month, Year) under S.H.A. Contract No.: M-401-503-372.
5. 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.
6. All existing cable not being utilized shoud be removed from conduit, spans, etc.

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

Revision 'A'

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

REVISIONS

A — 07/12/05 — Geometric change, add new loops
S.H.A. No.:BW996M82
FDB HGK

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
(Traffic Signal Plan)

MD 185 (Connecticut Ave.) at MD 192/Plyers Mill Rd.

DRAWN BY:	F.A.P. NO. N/A	TS NO. 4445A	SHEET NO.
CHECKED BY:	S.H.A. NO. M-401-503-372		
SCALE: 1" = 20'	COUNTY: Montgomery	T.I.M.S. NO. G748	1 OF 1
DATE:	LOG MILE: 15.01 & 15.04 & 4.46		

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