F H W A REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

US 29 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS

21a,21b,23a,23b: Columbia PIKE — D3-2 (Dual Faced)

22: ONLY — R3-5L 30"x36"

24 — R3-6 30"x36"

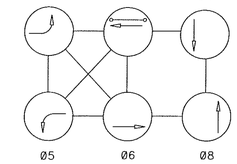
19a,20b: Greencastle RD (3500) | 19b,20a: Greencastle RD (<3500) — D3-2 (Dual Faced)

EXISTING SIGNALS

1,2,5,6 | 3,4,7-14 | 15-18 — 12" | 12" | 12"

NOTES:
- Traffic Signal heads #1,6,7,8,10,11 and 12 are to be relocated on the proposed span as shown.
- Pedestrian signal heads #17 and 19 are to be relocated as shown.

NEMA PHASING



PHASING NOTES
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

A. Install 12" x 32' (2-ply) steel strain pole, pedestrian signal heads, pushbutton with pedestrian education sign, 1-3" weatherhead, 1-1 1/4" weatherhead, 1-1 1/4" riser, meter socket and disconnect switch as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend and 2-3", 90° polyvinyl chloride (Schedule 40) bends.) The pedestrian signal heads shall be relocated from the existing strain pole (See Detail 'V'). The pushbutton with pedestrian education sign shall be relocated from the existing pedestal pole (See Detail 'BB').

B. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend, 1-3", 90° polyvinyl chloride (Schedule 40) bend and 2-4", 90° polyvinyl chloride (Schedule 40) bends.)

C. Install 3/8" steel span wire, new span hangers and electrical cables as shown. Relocate existing traffic signal heads and signs from existing span as shown. (Note: Signs to be tethered using 1/4" tether wire.)

D. Install 3/8" steel span wire, new span hangers and electrical cables as shown. Relocate existing traffic signal heads and signs from existing span as shown.

E. Use existing span wire. Rewire existing traffic signal heads. (See Wiring Diagram.)

F. Install 6' x 22' loop detector encased in 1/4" flexible tubing quadrupole type (3-6-3).

G. Install handhole.

H. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).

J. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

K. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).

L. Install 3" polyvinyl chloride electrical conduit (Scheudle 80) (slotted).

M. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

N. Install 2" polyvinyl chloride electrical conduit (Schedule 40) (trenched).

O. Install 3" polyvinyl chloride electrical conduit (Schedule 40) (trenched).

P. Install 4" polyvinyl chloride electrical conduit (Schedule 40) (trenched).

Q. Use existing steel strain pole.

QQ. Use existing pedestal pole.

R. Use existing handhole. (See Construction Sequence in Project Description.)

S. Use existing conduit. (See Construction Sequence in Project Description.)

T. Relocate existing traffic signal heads and signs from existing span onto new span wire as shown. (See Construction Detail 'C'.) Remove span wire.

U. Relocate existing traffic signal heads and signs from existing span onto new span wire as shown. (See Construction Detail 'D'.) Remove span wire.

V. Remove existing strain pole and all attached equipment. (Cap and abandon attached conduit.)

W. Remove existing handhole. (Cap and abandon attached conduit.)

X. Existing overhead electrical service to be relocated by BGE.

Y. Remove existing section of handicap ramp as necessary to install proposed conduit. Ramp will be rebuilt by onsite concrete contractor.

Z. Remove existing crosswalk tape (not shown on plan) utilizing grinder method. Relace crosswalk as shown.

AA. Remove existing pedestal pole and all attached equipment. (Cap and abandon attached conduit.

GENERAL NOTES:

1. "D.O." indicates a delay-output detector.
2. Loop detectors shall be installed prior to the installation of pavement markings.
3. All proposed pavement markings along the west leg of Greencastle Road are to be installed by Montgomery County DPW&T, except for the stopline and crosswalks.
4. This is a revision to the existing signal built in 1989.

UTILITY LEGEND

T — T	TELEPHONE CABLES
G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
BC	BURIED CABLE
SD	STORM DRAIN

REVISION "B"

STREET TRAFFIC STUDIES, LTD.®
Gateway International
1302 Concourse Drive, Suite 104
Linthicum, Maryland 21090
Ph (410) 859-3553
Fax (410) 859-3579

3257.dgn

REVISIONS

B 7-18-97 MODIFY SIGNAL DUE TO GEO. CHANGES ON N.W. SIDE OF GREENCASTLE RD. SHA NO.: RRZ

A 4/1/94 ADD CROSSWALKS, CURB RAMPS AND PEDESTRIAN SIGNALS. SHA NO.: JRG

APPROVALS

ASST. CHIEF TEDD SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
US 29 @ GREENCASTLE RD.

DRAWN BY: BRUCE THOMPSON
CHECK BY: TBZ
DATE: 1-25-89
SCALE: 1"=20'

COUNTY: MONTGOMERY
LOG MILE: ~~1500290.31~~
F.A.P. NO.
S.H.A. NO.

TS NO. 2538B
T.I.M.S. NO. C-378

SHEET NO. 1 OF 2

1500290.51