DRILL HOLES

BORDER REV: DATE: June 1, 2004

NOTE: MD 118 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

PROPOSED SIGNS

R10-3(1) 9" x 15" — 33
R10-3(1) 9" x 15" — 34
R10-3(1) 9" x 15" — 35,37
R10-3(1) 9" x 15" — 36,38

MD 118 (GERMANTOWN RD)

CRYSTAL ROCK DRIVE

EXISTING SIGNS

21,23 Crystal Rock Dr. 19800

27,28 Germantown Rd. 19800

D-3(1) (VAR×16") DUAL FACE

25 R3-6 (30"×36")

26 R3-5(R) (30"×36")

20,24 R3-5(L) (30"×36")

22 R10-12 (30"×36") EXISTING SIGN TO BE REMOVED

29 SHIELD ASSEMBLY (30"×51")

30 SHIELD ASSEMBLY (48"×75")

31 SHIELD ASSEMBLY (30"×51")

32 SHIELD ASSEMBLY (48"×75")

PROPOSED SIGNALS

14-19 LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

EXISTING SIGNALS

1,2 — 12"

3,4,7,10,13 — 12"

5,6

8,9

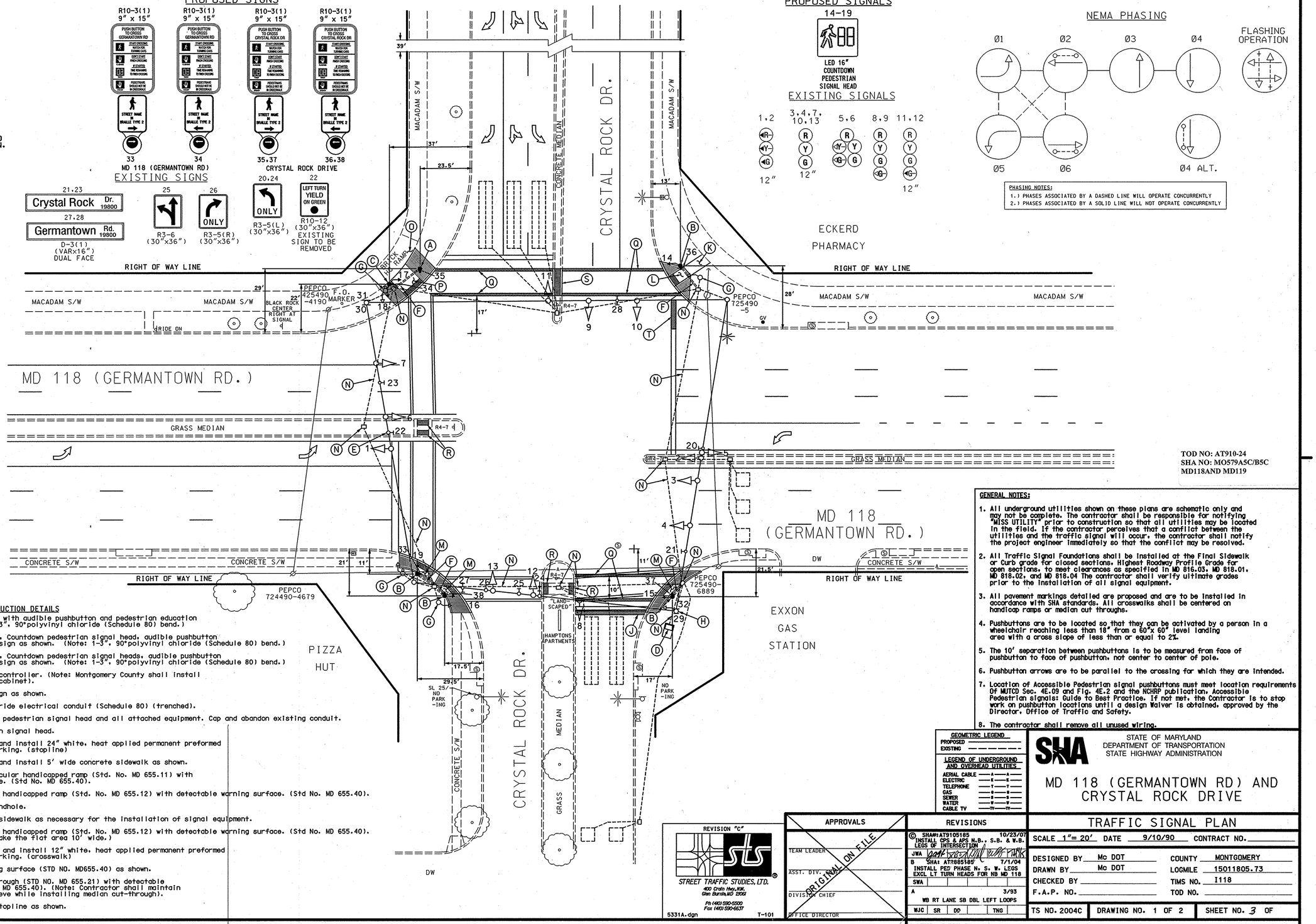
11,12 — 12"

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 Ø4 ALT.

FLASHING OPERATION

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



TOD NO: AT910-24
SHA NO: MO579A5C/B5C
MD118AND MD119

CONSTRUCTION DETAILS

A. Install 5' pedestal pole, with audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 10' pedestal pole, Countdown pedestrian signal head, audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

C. Install 10' pedestal pole, Countdown pedestrian signal heads, audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

D. Use existing cabinet and controller. (Note: Montgomery County shall install 2-wire Control Unit into cabinet).

E. Remove R10-12 overhead sign as shown.

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

G. Remove existing pedestal, pedestrian signal head and all attached equipment. Cap and abandon existing conduit.

H. Remove existing pedestrian signal head.

J. Remove existing stopline and install 24" white, heat applied permanent preformed thermoplastic pavement marking. (stopline)

K. Remove existing sidewalk and install 5' wide concrete sidewalk as shown.

L. Install proposed perpendicular handicapped ramp (Std. No. MD 655.11) with detectable warning surface. (Std No. MD 655.40).

M. Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface. (Std No. MD 655.40).

N. Use existing conduit / handhole.

O. Remove and restore brick sidewalk as necessary for the installation of signal equipment.

P. Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface. (Std No. MD 655.40). (Note: Contractor shall make the flat area 10' wide.)

Q. Remove existing crosswalk and install 12" white, heat applied permanent preformed thermoplastic pavement marking. (crosswalk)

R. Install detectable warning surface (STD NO. MD655.40) as shown.

S. Install New Median cut-through (STD NO. MD 655.21) with detectable warning surfaces (STD NO. MD 655.40). (Note: Contractor shall maintain existing loop conduit sleeve while installing median cut-through).

T. Contractor shall extend Stopline as shown.

GENERAL NOTES:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" 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 will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All Traffic Signal Foundations shall be installed at the 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, and MD 818.04 The contractor shall verify ultimate grades prior to the installation of all signal equipment.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps or median cut throughs.
4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60"x 60" level landing area with a cross slope of less than or equal to 2%.
5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
6. Pushbutton arrows are to be parallel to the crossing for which they are intended.
7. Location of Accessible Pedestrian signal pushbuttons must meet location requirements Of MUTCD Sec. 4E.09 and Fig. 4E.2 and the NCHRP publication, Accessible Pedestrian signals: Guide to Best Practice. If not met, the Contractor is to stop work on pushbutton locations until a design Waiver is obtained, approved by the Director, Office of Traffic and Safety.
8. The contractor shall remove all unused wiring.

GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES
AERIAL CABLE —A—A—
ELECTRIC —E—E—
TELEPHONE —T—T—
GAS —G—G—
SEWER —S—S—
WATER —W—W—
CABLE TV —TV—TV—

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 118 (GERMANTOWN RD) AND CRYSTAL ROCK DRIVE

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 9/10/90 CONTRACT NO.

DESIGNED BY Mc DOT
DRAWN BY Mc DOT
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15011805.73
TIMS NO. I118
TOD NO.

TS NO. 2004C | DRAWING NO. 1 OF 2 | SHEET NO. 3 OF

REVISION "C"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6537

5331A.dgn T-101

APPROVALS
TEAM LEADER
ASST. DIV.
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS

© SHA#:AT9105185 10/23/07
INSTALL CPS & APS N.B., S.B. & W.B. LEGS OF INTERSECTION
JWA
B SHA: AT7885185 7/1/04
INSTALL PED PHASE N. S. W. LEGS EXCL LT TURN HEADS FOR NB MD 118
SWA
A 3/93
WB RT LANE SB DBL LEFT LOOPS
WJC | SR | DD | TNG

PLOTTED: $DATETIME$
FILE: $FILE$

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