F. H. WA. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD.	SEE TITLE SHEET	130	169

PROPOSED SIGNS

17 — Research Blvd →

18 — ← Research Blvd

D3 - 2 (16" x VARIABLE) DUAL-FACED

19 — Crofton Hill Ln →

20 — ← Crofton Hill Ln

D3 - 2 (16" x VARIABLE) DUAL-FACED

21 — R3-5(L) ONLY

22,23 — R3-6

24,25 — R10-12 LEFT TURN YIELD ON GREEN

26,27,28 — R3-5(R) ONLY

29,30 — R10-3C PUSH BUTTON TO CROSS MD 28 — START CROSSING WAIT FOR TURNING CARS DON'T START FINISH CROSSING IF STARTED PEDESTRIANS SHOULD NOT BE IN CROSSWALK

31 — EAST MARYLAND 28 →

32 — EAST MARYLAND 28 ←

33 — WEST MARYLAND 28 →

34 — WEST MARYLAND 28 ←

35,36,37,38 — Key West Avenue

D3 - 2 (16" x VARIABLE) DUAL-FACED

PROPOSED SIGNALS

1 — R 8", Y 8", G 8"; 12" Y, 12" G

2 — R, Y, G; 12"

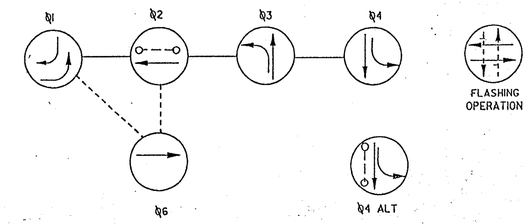
3,4,5,6,9 — R, Y, G

7,8,10,11 — R, Y, G, G; 12"

12 — R, Y, Y, G, G; 12"

13,14,15,16 — 12"

NEMA PHASING



Phasing Notes:

1. Phases associated by a solid line will not operate concurrently.
2. Phases associated by a dashed line will operate concurrently.

NOTE: THE TRAFFIC SIGNAL WORK SHALL BE STAGED TO COINCIDE WITH THE STAGES OF THE ROAD CONSTRUCTION WORK AS DESCRIBED IN THE TRAFFIC CONTROL PLANS. THE CONTRACTOR WILL BE REQUIRED TO ADJUST THE LOCATIONS OF THE SIGNAL HEADS TO ALIGN WITH THE TEMPORARY TRAFFIC LANES AS SHOWN IN TRAFFIC CONTROL PHASES 1, 2, AND 3, AND TO REPOSITION THE HEADS TO THEIR FINAL LOCATIONS AT THE COMPLETION OF THE ROAD WORK. ADDITIONAL SIGNAL CABLE SHOULD BE PROVIDED ON THE SPAN WIRE TO ACCOMPLISH THIS. THIS WORK IS INCIDENTAL TO THE TRAFFIC SIGNAL WORK AND WILL NOT BE PAID SEPARATELY.

LEGEND

PROPOSED GEOMETRY — OR —

EXISTING GEOMETRY — OR —

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	—A—	—A—
ELECTRIC	—E—	—E—
TELEPHONE	—T—	—T—
GAS	—G—	—G—
STORM SEWER		
WATER	—W—	—W—
CABLE TV	—TV—	—TV—
SEWER	—S—	—S—

GENERAL NOTES

1. PAVEMENT MARKINGS, EXCEPT STOP BARS, ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY, AND ARE TO BE INSTALLED BY THE GENERAL CONTRACTOR. SEE SIGNING AND PAVEMENT MARKING PLANS.
2. "D.O." INDICATES A DELAY-OUTPUT LOOP DETECTOR.
3. LOOP DETECTORS AND CONDUIT IN PAVEMENT AREAS ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF FINAL PAVEMENT SURFACE.
4. CONTRACTOR SHALL VERIFY LOCATION OF NEW GEOMETRICS PRIOR TO THE NEW POLE CONSTRUCTION.
5. ROUTE MARKER ASSEMBLIES SHALL BE MOUNTED IN ACCORDANCE WITH ALL SHA STANDARDS.

STATE OF MARYLAND — JOHN CHARLES KLINGELHOEFER — No. 14238 — REGISTERED PROFESSIONAL ENGINEER

AS BUILT PLANS - 7/15/98

REVISIONS

3	ADDENDUM NO. 3 ADDED NOTE	9/20/94
F	RECONSTRUCTION DUE TO WIDENING M 528-503-371	10-25-93
MAM		
E	RECONSTRUCTION DUE TO GEOMETRIC CHANGES S.H.A. NO. BW-254-802-312	8-30-89
RRZ		
D	RECONSTRUCTION DUE TO WIDENING OT-3-88	11-87
DCD		

APPROVALS

ORIGINAL ON FILE

CHIEF, SIGN DESIGN SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS-SURVEYORS-PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
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(301) 982-2800
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RALEIGH, NC-ROCKVILLE, MD-TAMPA, FLA-WEST PALM BEACH, FLA

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION - OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

LOG # 15002820.34

DRAWN BY: S. FOSTER
DES. BY: W.F. FITCH
CHK. BY: W.F. FITCH

MD 28 AND RESEARCH BOULEVARD / CROFTON HILL LANE

COUNTY: MONTGOMERY

DATE: 4-23-93
SCALE: 1" = 20'
F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. M 528-503-371

TS/FILE NO. TS-545F

SHEET NO. 1 OF 1