15 IS ASSUMED TO RUN
N EAST-WEST DIRECTION

PROPOSED SIGNS

29 — WEST, MARYLAND 115 — ASSOCIATED SHIELD ASSEMBLY (48" X 75")

33 — WEST, MARYLAND 115 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")

34 — EAST, MARYLAND 115 — ASSOCIATED SHIELD ASSEMBLY (48" X 75")

EXISTING SIGN TO BE RELOCATED
(SHOWN AT FINAL LOCATION)

19 — Muncaster RD 7200>

27 — Muncaster RD 7200> — D-3(1) (MOD.) (DUAL FACED) (VARIABLE x 16")

EXISTING SIGNS TO REMAIN

26,30,35 — LEFT TURN YIELD ON GREEN — R10-12 (36" X 42")

31 — ONLY — R3-5(1) (30" X 36")

32 — ONLY — R3-5R (30" X 36")

PROPOSED SIGNS

22 — Redland RD 17700>

24 — <RD 17700> Redland — D-3(1) (MOD.) (DUAL FACED) (VARIABLE x 16")

20,25 — ONLY — R3-5L (30" X 36")

21,35 — LEFT TURN YIELD ON GREEN — R10-12 (36" X 42")

23 — ONLY — R3-5R (30" X 36")

36 — ONLY — R3-5(1) (30" X 36")

37 — R3-6 (30" X 36")

EXISTING SIGNALS TO REMAIN

5,8,10 — R Y G — 12"

6,9 — R Y G — 12"

13,14,16-18

EXISTING SIGNAL TO BE REMOVED

1A — R Y G — 12"/8"

PROPOSED SIGNALS

1,2,4,7,11 — R Y G — 12"

3,12 — R Y G — 12"

15

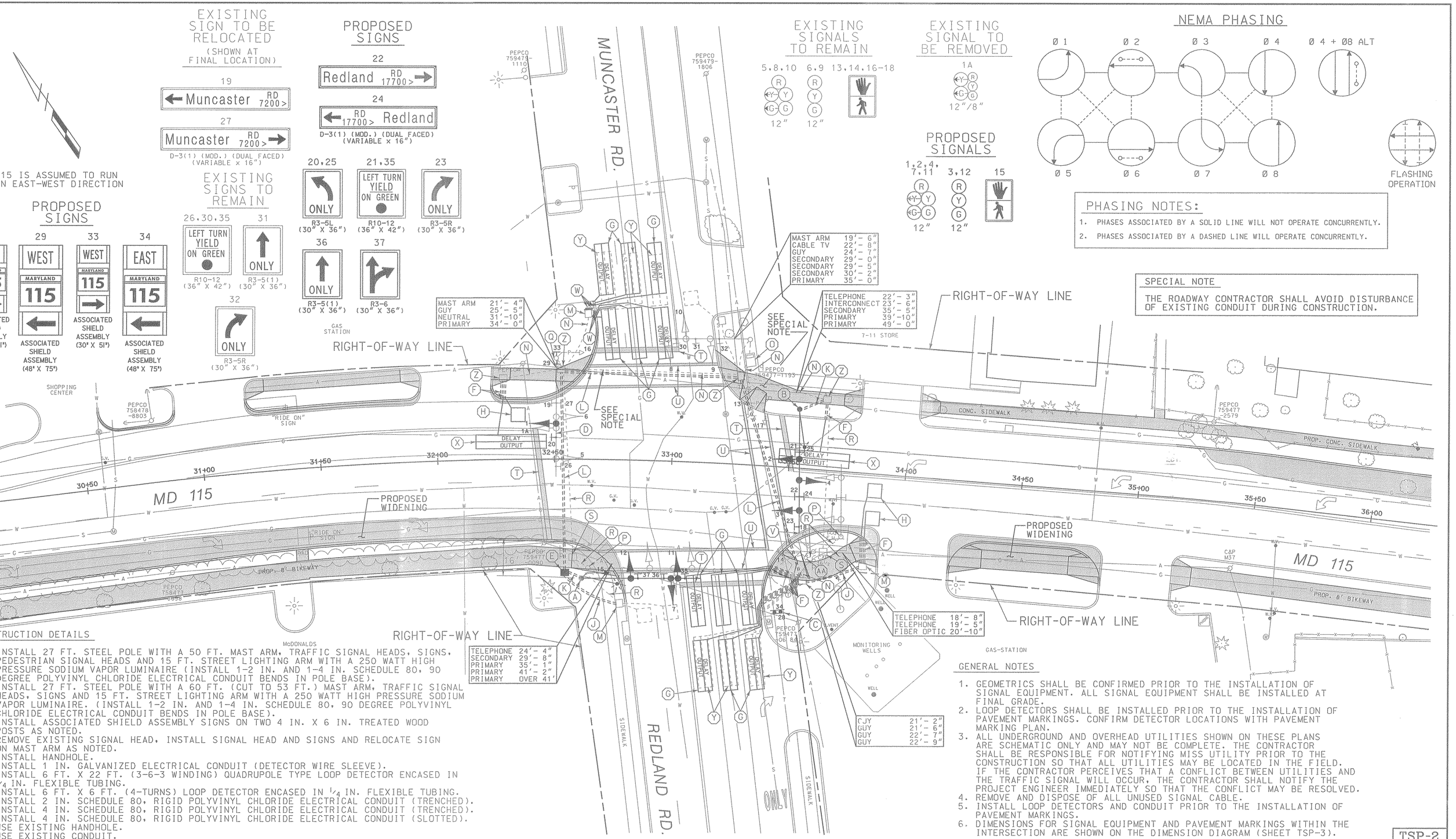
NEMA PHASING

PHASING NOTES:

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

SPECIAL NOTE

THE ROADWAY CONTRACTOR SHALL AVOID DISTURBANCE OF EXISTING CONDUIT DURING CONSTRUCTION.



TRUCTION DETAILS

NSTALL 27 FT. STEEL POLE WITH A 50 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, EDESTRIAN SIGNAL HEADS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH RESSURE SODIUM VAPOR LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 EGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
NSTALL 27 FT. STEEL POLE WITH A 60 FT. (CUT TO 53 FT.) MAST ARM, TRAFFIC SIGNAL EADS, SIGNS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM APOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL HLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
NSTALL ASSOCIATED SHIELD ASSEMBLY SIGNS ON TWO 4 IN. X 6 IN. TREATED WOOD OSTS AS NOTED.
EMOVE EXISTING SIGNAL HEAD, INSTALL SIGNAL HEAD AND SIGNS AND RELOCATE SIGN N MAST ARM AS NOTED.
NSTALL HANDHOLE.
NSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
NSTALL 6 FT. X 22 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
NSTALL 6 FT. X 6 FT. (4-TURNS) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
NSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
NSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
NSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
SE EXISTING HANDHOLE.
SE EXISTING CONDUIT.
SE EXISTING CABINET AND CONTROLLER.
EMOVE EXISTING STEEL POLE, MAST ARM, TRAFFIC SIGNAL HEADS AND SIGNS. REMOVE AND ISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
SE EXISTING STEEL POLE AND INSTALL ASSOCIATED SHIELD ASSEMBLY SIGNS AS NOTED.
BANDON EXISTING CONDUIT.
EMOVE EXISTING HANDHOLE.
NSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
NSTALL 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK).
UT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
NSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR IRE SLEEVE).
NSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
BANDON EXISTING LOOP DETECTOR.
SE EXISTING HANDHOLE AND ADJUST TO FINAL GRADE.
SE EXISTING PEDESTAL POLE.

GENERAL NOTES

1. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED AT FINAL GRADE.
2. LOOP DETECTORS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. CONFIRM DETECTOR LOCATIONS WITH PAVEMENT MARKING PLAN.
3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
4. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
5. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
6. DIMENSIONS FOR SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN THE INTERSECTION ARE SHOWN ON THE DIMENSION DIAGRAM (SHEET TSP-3).

TSP-2

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

WR&A
Whitman, Requardt and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	
E RELOCATE SIGNAL POLES DUE TO GEOMETRIC IMPROVEMENTS	11-99
D RE-CUT LOOPS, ADD SAMPLING AND ADJUST PHASING DUE WIDENING	3-28-96
C RE-DESIGN SIGNAL FOR FUTURE MONT. CO. WIDENING PROJECT	4-13-94

APPROVALS
TEAM LEADER, TRAFFIC ENG. DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENG. DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY
ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 115 & REDLAND RD./MUNCASTER RD.

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CHECKED BY: W.S.W.	S.H.A. NO. AW-453-458-385		
SCALE: 1"= 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.	
DATE: 11-12-75	LOG MILE: 15011501.29		