NOTE:
MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONSTRUCTION DETAILS

. 27' STEEL POLE WITH A 38' MAST ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND PEDESTRIAN EDUCATION SIGN AS SHOWN. (NOTE: 1-3", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND.) (NOTE: POLE MUST BE CUT TO 21' HEIGHT AND CLEANED, GALVANIZED AND CAPPED.)

. 27' STEEL POLE WITH A 60' MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND PEDESTRIAN EDUCATION SIGN AS SHOWN. (NOTE: 1-3", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND.) (NOTE: POLE MUST BE CUT TO 21' HEIGHT, CLEANED, GALVANIZED AND CAPPED.)

. 27' STEEL POLE WITH TWIN 50'-60' MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, PEDESTRIAN EDUCATION SIGN, 1-2" WEATHERHEAD, SERVICE CONTROL AND DISTRIBUTION EQUIPMENT. (NOTE: 1-2", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND 1-3", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND.) (NOTE: POLE MUST BE CUT TO HEIGHT, CLEANED, GALVANIZED AND CAPPED.)

. 10' BREAKAWAY PEDESTAL POLE, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND PEDESTRIAN EDUCATION SIGN AS SHOWN. (NOTE: 1-3", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND.)

. NEMA SIZE "6" BASE-MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN. (NOTE: 2-2", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND AND 2-4", 90° POLYVINYL CHLORIDE (SCHEDULE 80) BENDS.)

. HANDHOLE (FRAME AND COVER) FOR TRAFFIC SIGNAL EQUIPMENT.

. 6' X 30' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING QUADRUPOLE TYPE (3-6-3).

. 1" LIQUID TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

. 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (SLOTTED).

. 3" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED).

. 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED).

. 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED).

. PAVEMENT MARKING AS SHOWN.

/ HANDHOLE INSTALLED BY LIGHTING CONTRACTOR.

D OVERHEAD ELECTRICAL SERVICE TO BE INSTALLED BY CONNECTIV POWER.

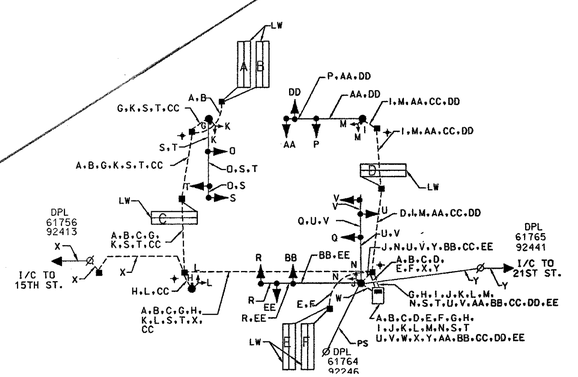
G OVERHEAD INTERCONNECT CABLE TO BE REMOVED AND REPLACED. (SEE WIRING DIAGRAM)

. 1-2" POLYVINYL CHLORIDE (SCHEDULE 40) RISER, 1-2" WEATHERHEAD AND 1-3", 90° POLYVINYL E (SCHEDULE 80) BEND ONTO EXISTING UTILITY POLE FOR INTERCONNECT AS SHOWN.

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	R G	R G	R	R G	R G	R	R	R	R	R	R	R	DW WK	DW WK	DW WK	DW WK	DW WK	DW WK	DW WK	DW WK
	TO PHASE 1 & 6 OR PHASE 2 & 5												DW	DW	DW	DW	DW	DW	DW	DW
	G G	G G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
	R	R	R	G G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
	R	R	R	G G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
E	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
E	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
ANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A B C D E F — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
- G H I — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- L M N O P R S T U V — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- A B C D E F G H I J K L M N O P R S T U V — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- — 3-WIRE ELECTRICAL CABLE (NO. 4 A.W.G.)
- — 12-PAIR, VOICE-GRADE INTERCONNECT CABLE (NO 19 AWG) (SELF-SUPPORTING)
- — STRANDED BARE COPPER GROUND WIRE (#6 A.W.G.)
- — LOOP WIRE (NO. 14 A.W.G.)
- — PROPOSED OVERHEAD SERVICE TO BE INSTALLED BY CONNECTIV
- — GROUND ROD

PROPOSED SIGNS

21,24 — LEFT TURN YIELD ON GREEN, R 10-12, 36"X42"

23 — RIGHT LANE, BUSES AND RIGHT TURNS ONLY, R3-14(MOD), 30" x 36"

22,25 — 17TH ST, D3-2 (VARIABLE X 16") DUAL FACED

26 — RESTRICTED LANE, ENDS, R3-12, 30"x 42"

27 — ONLY, R3-5(L), 30" x 36"

28,29 — Coastal HWY, D3-2 (VARIABLE X 16") DUAL FACED

PROPOSED SIGNALS (BLACK FACED)

3,6-12 — R, Y, G, 12"

2,5 — R, Y, G, 12"

1,4 — 12" R, Y, G; 8" R, Y, G, 12"

13-20 — 12"

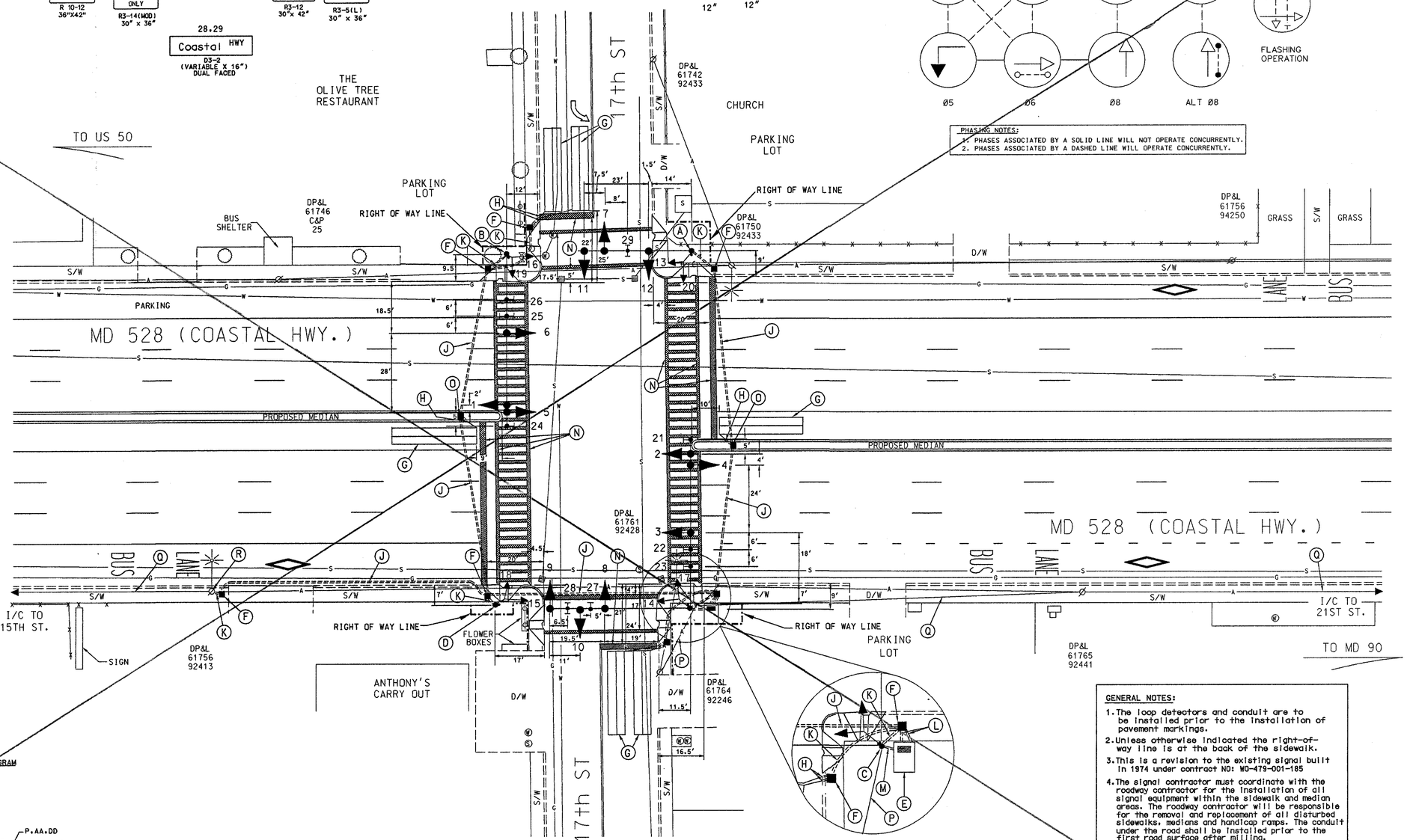
NEMA PHASING

Ø1, Ø2, Ø4, ALT Ø4

Ø5, Ø6, Ø8, ALT Ø8

FLASHING OPERATION

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



GENERAL NOTES:
1. The loop detectors and conduit are to be installed prior to the installation of pavement markings.
2. Unless otherwise indicated the right-of-way line is at the back of the sidewalk.
3. This is a revision to the existing signal built in 1974 under contract NO: WO-479-001-185
4. The signal contractor must coordinate with the roadway contractor for the installation of all signal equipment within the sidewalk and median areas. The roadway contractor will be responsible for the removal and replacement of all disturbed sidewalks, medians and handicap ramps. The conduit under the road shall be installed prior to the first road surface after milling.
5. All existing conduit that is not identified shall be capped and abandoned (See removal sheet.)

1 DELETE THIS SHEET NO 55
REPLACE WITH SHEET No.55A OF 89

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 —

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REVISIONS	
1 REDLINE NO.1	09/25/00
A RECONSTRUCT SIGNAL USING MAST ARMS S.H.A. NO:9/WO7005184	4-28-00

APPROVALS
ASST. CHIEF TEOD 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
MD 528 (COASTAL HWY) AND 17th ST

DRAWN BY: WM MUNK	COUNTY: WORCESTER	TS NO. 361A	SHEET NO.
CHECK BY:	LOG MILE: 23052807.44		
DATE: 2-10-95	F.A.P. NO.	T.I.M.S. NO.	55 OF 89
SCALE: 1"= 20'	S.H.A. NO. WO-479-001-185		