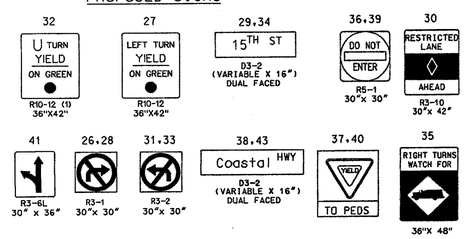
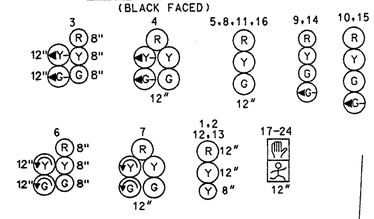
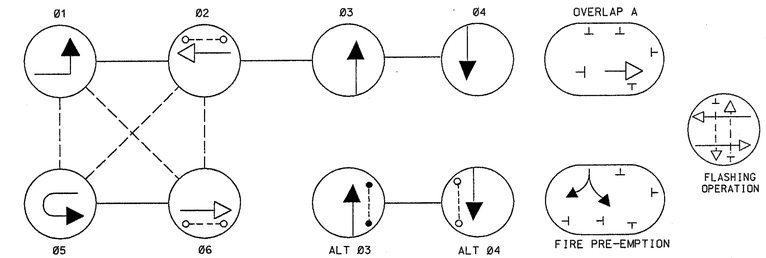
PROPOSED SIGNS



PROPOSED SIGNALS
(BLACK FACED)



NEMA PHASING

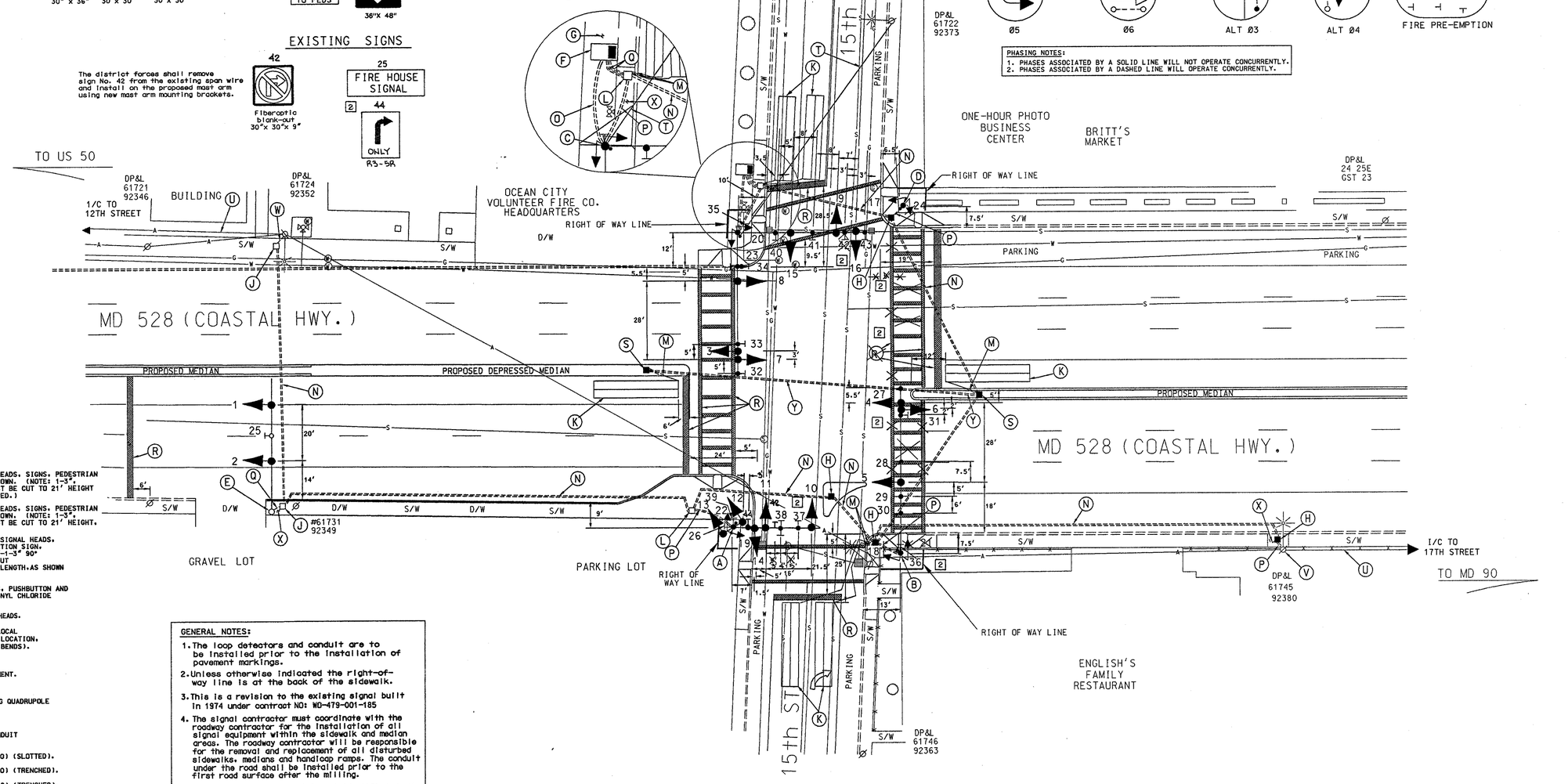


PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

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

EXISTING SIGNS

The district forces shall remove sign No. 42 from the existing span wire and install on the proposed mast arm using new mast arm mounting brackets.



CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH A 38' 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 AND MAST ARM CUT TO 30' LENGTH. CLEANED, GALVANIZED AND CAPPED.)

B. INSTALL 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.)

C. INSTALL 27' STEEL POLE WITH TWIN 50'-50' MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, PEDESTRIAN EDUCATION SIGN, AND CONTROL AND DISTRIBUTION EQUIPMENT AS SHOWN. (NOTE: 1-2"-1-3" 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND).(NOTE: POLE MUST BE CUT TO 21' HEIGHT AND ONE (1) MAST ARM OVER 15th ST. CUT TO 45' LENGTH.AS SHOWN CLEANED, GALVANIZED AND CAPPED.)

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

E. USE EXISTING 21' STEEL POLE WITH 46' MAST ARM. INSTALL NEW SIGNAL HEADS.

F. INSTALL NEMA SIZE "6" BASE- MOUNTED CABINET AND MASTER AND LOCAL CONTROLLERS WITH ALL NECESSARY EQUIPMENT IN THE OLD CABINET LOCATION. "A NEW BASE". NOTE: 2 -2" AND 2 -4". 90° PVC SCHEDULE 80 BENDS).

G. THE AREA WHERE THE OLD CABINET WAS REMOVED IS TO BE GRADED.

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

J. USE EXISTING HANDHOLE.

K. INSTALL 6' X 30' LOOP DETECTOR ENCASED IN ¼" FLEXIBLE TUBING QUADRUPOLE TYPE (3-6-3).

L. ADJUST EXISTING HANDHOLE TO NEW GRADES.

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

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

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

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

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

R. INSTALL PAVEMENT MARKING AS SHOWN. SEE SHEET SD-03 FOR LOCATION OF PATTERNED ASPHALT/ CROSSWALKS.
2

S. USE NEW HANDHOLE INSTALLED BY LIGHTING CONTRACTOR.

T. PROPOSED OVERHEAD ELECTRICAL SERVICE TO BE INSTALLED BY CONNECTIV POWER.

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

V. INSTALL 1-2" POLYVINYL CHLORIDE (SCHEDULE 80) RISER, 1-2" WEATHERHEAD AND 1-2" PVC (SCHEDULE 80) BEND ONTO EXISTING UTILITY POLE FOR INTERCONNECT AS SHOWN.

W. USE EXISTING CONDUIT. REMOVE AND REPLACE EXISTING INTERCONNECT CABLE. (SEE WIRING DIAGRAM)

X. EXISTING SIDEWALK SECTION TO BE REMOVED AND REPLACE AFTER INSTALLATION OF SIGNAL EQUIPMENT.

Y. USE NEW CONDUIT INSTALLED BY LIGHTING CONTRACTOR.

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 the milling.
5. All existing conduit that is not identified shall be capped and abandoned. (See removal sheet.)

2 REDLINE NO.2 11/ 100

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

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.N.W.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

REVISIONS

D 5-1-00 RECONSTRUCT SIGNAL USING MAST ARMS S.H.A. NO: WO-100-5184 — EMM/RRZ — CPL — DPL
C 5-4-92 INSTALL 6'x 30' QUAD LOOP DETECTOR (2-4-2) 12"-18" BEHIND STOPLINE S.H.A. NO.: BW-476-802-112 — DJD
B 5-15-87 INSTALL PRE-EMPTION SIGNAL FOR N.B. TRAFFIC S.H.A. NO.: 855-25004 — RZ
A REVISED LOOP DETECTION S.H.A. NO.: 855-25001

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 15th ST

DRAWN BY: LISA HANDY	COUNTY: WORCESTER	TS NO. 571D	SHEET NO.
CHECK BY:	LOG MILE: 23052807.57	T.I.M.S. NO.	54 OF 89
DATE: 7-10-85	F.A.P. NO.		
SCALE: 1"= 20'	S.H.A. NO. WO-479-001-185		

MAY 05 2000