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

CONSTRUCTION DETAILS

A. USE EXISTING SIGNAL STRUCTURE. REMOVE EXISTING TRAFFIC AND PEDESTRIAN SIGNAL HEADS AND R3-5 SIGN. INSTALL NEW TRAFFIC SIGNAL HEADS. R10-12 SIGN. PEDESTRIAN SIGNAL HEAD. PEDESTRIAN PUSBUTTON AND EDUCATION SIGN. IN THEIR PRESENT LOCATION OR AS SHOWN.

B. USE EXISTING SIGNAL STRUCTURE.REMOVE EXISTING TRAFFIC AND PEDESTRIAN SIGNAL HEADS WITH INSTALL NEW TRAFFIC SIGNAL HEADS. PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON AND EDUCATION SIGN IN THEIR PRESENT LOCATION OR AS SHOWN. (NOTE: INSTALL 1-3" PVC 90° BEND) INTO EXISTING FOUNDATION.

C. ~~USE EXISTING PEDESTAL POLE. REMOVE EXISTING AND INSTALL NEW PEDESTRIAN SIGNAL HEAD AND EDUCATIONAL PUSHBUTTON SIGN.~~

D. ~~REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER. CUT BACK CONCRETE FOUNDATION APPROXIMATELY 1' AND REPLACE CABINET AND CONTROLLER AS CLOSE TO THE BACK OF THE EXISTING CONCRETE PAD AS POSSIBLE. (SEE TYPICAL) NEW ELECTRICAL SERVICE IS TO BE INSTALLED ON THE SIDE OF THE CABINET AS SHOWN.~~

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

F. USE EXISTING HANDHOLE.

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

H. INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

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

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

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

M. USE EXISTING CONDUIT. 2

N. INSTALL PAVEMENT MARKING AS SHOWN. SEE SHEET SD-02 FOR LOCATION OF PATTERNED ASPHALT CROSSWALKS.

O. EXISTING UNDERGROUND ELECTRICAL SERVICE TO BE REROUTED BY CONNECTIV POWER (DUE TO RELOCATION OF CONTROLLER CABINET.)

P. USE NEW HANDHOLE INSTALLED BY LIGHTING CONTRACTOR.

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

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

S. USE NEW CONDUIT INSTALLED BY LIGHTING CONTRACTOR.

PROPOSED SIGNS

21,22: Coastal HWY — D3-2 (VARIABLE X 16") DUAL FACED

19: LEFT TURN YIELD ON GREEN — R 10-12 36"X42"

EXISTING SIGNS

18,20: 12TH ST — D3-2 (VARIABLE X 16") DUAL FACED

17: LEFT TURN YIELD ON GREEN — R 10-12 36"X42"

PROPOSED SIGNALS

(Black Faced)

3,6-12 · 2,5 · 1,4 · 13-16

NEMA PHASING

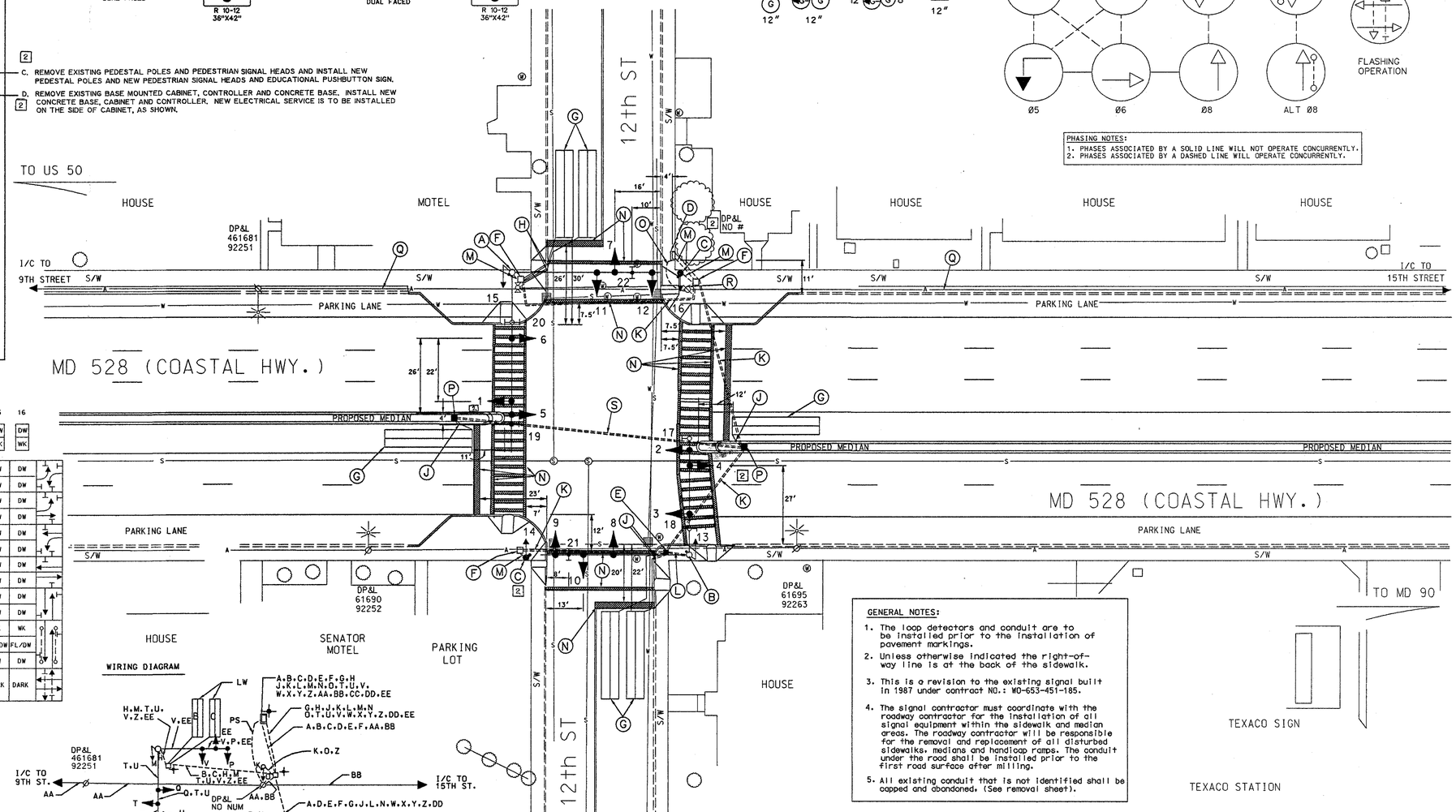
Ø1 · Ø2 · Ø4 · ALT Ø4 · Ø5 · Ø6 · Ø8 · ALT Ø8

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.

2 C. REMOVE EXISTING PEDESTAL POLES AND PEDESTRIAN SIGNAL HEADS AND INSTALL NEW PEDESTAL POLES AND NEW PEDESTRIAN SIGNAL HEADS AND EDUCATIONAL PUSHBUTTON SIGN.

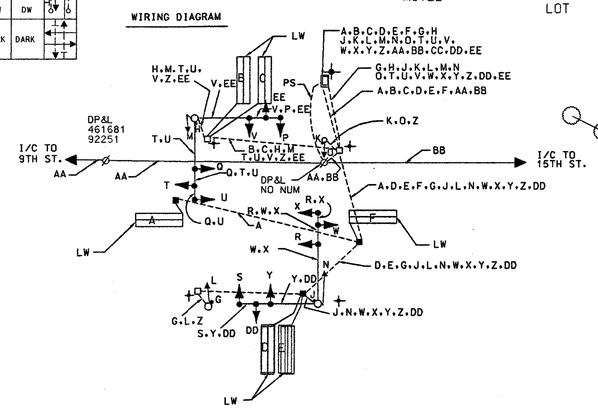
2 D. REMOVE EXISTING BASE MOUNTED CABINET, CONTROLLER AND CONCRETE BASE. INSTALL NEW CONCRETE BASE, CABINET AND CONTROLLER. NEW ELECTRICAL SERVICE IS TO BE INSTALLED ON THE SIDE OF CABINET, AS SHOWN.



PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 1 & 5	G	G	R	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5												DW	DW	DW	DW	
PHASE 1 & 6	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
1 CHANGE	Y	Y	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 & 5	R	R	R	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	
5 CHANGE	R	R	R	G	Y	G	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	WK	WK	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW	
4 & 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	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	

WIRING DIAGRAM



WIRING KEY

2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)	
2-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)	
3-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G)	
5-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)	
7-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)	
Z - STRANDED BARE COPPER GROUNDWIRE (NOW 6 A.W.G.)	
AA, BB - 12-PAIR, VOICE-GRADE INTERCONNECT CABLE (NO 19 AWG) (SELF-SUPPORTING)	
CC - 3-WIRE ELECTRICAL CABLE (NO. 4 A.W.G.)	
LW - LOOP WIRE (NO. 14 A.W.G.)	
PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY CONNECTIV POWER	
GROUND ROD	

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 1987 under contract NO.: WO-653-451-185.
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).

2 REDLINE NO.2 11/ /00

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
TASK38A

REVISIONS	APPROVALS
B 4-28-00 REPLACE EXISTING SIGNAL HEADS. RECUT LOOPS (CONT. NO.: WO7005184	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
RRZ	ASST. DISTRICT ENGINEER, TRAFFIC
A 10-2-90 INSTALL LOOP DETECTORS ON SIDE STREET	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
ERS	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (COASTAL HWY.) AND 12th ST.

DRAWN BY: S.R. BARANOWSKI	F.A.P. NO.		TS NO. 2312 B	SHEET NO.
CHECKED BY: R R ZACHERL	S.H.A. NO.			
SCALE: 1"= 20'	COUNTY:	WORCESTER	T.I.M.S. NO.	53 OF 89
DATE: 2-10-87	LOG MILE:	23052807.79		