F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

US 301 IS ASSUMED TO TRAVEL IN AN NORTH/SOUTH DIRECTION.

PROJECT DESCRIPTION

I GENERAL

THIS PROJECT INVOLVES REPLACING THE LOOP DETECTORS AND PROBES ON THE NORTHBOUND LANES OF U.S. 301 AND THE WESTBOUND LANE OF MD. 6 IN CHARLES COUNTY. THIS REVISION IS DUE TO THE RESURFACING PROJECT CH-6095177.

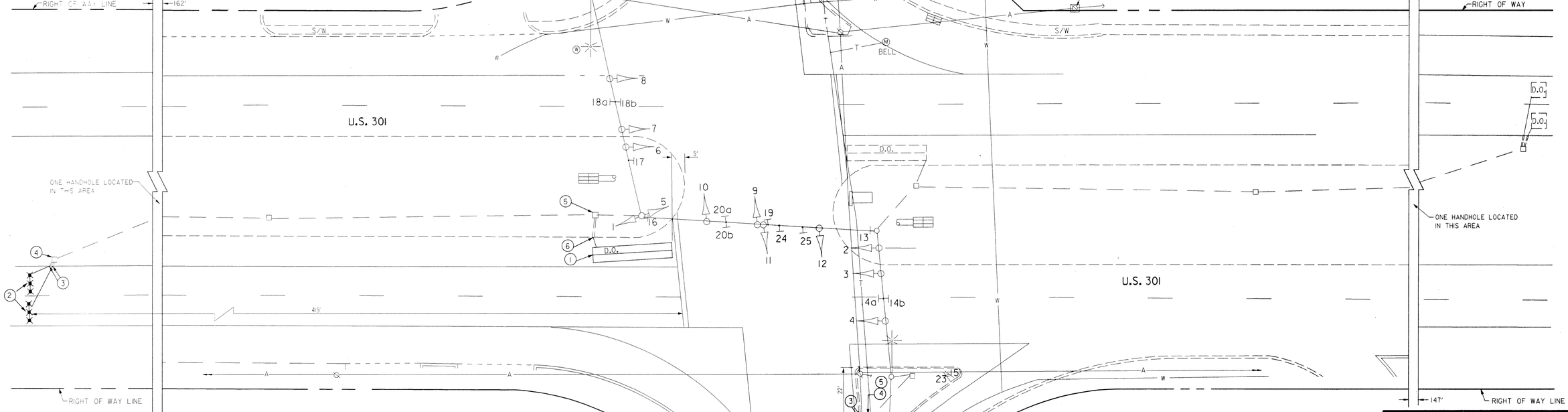
II INTERSECTION OPERATION

THE EXISTING NEMA SIX PHASE, FULL TRAFFIC ACTUATED OPERATION SHALL BE MAINTAINED.

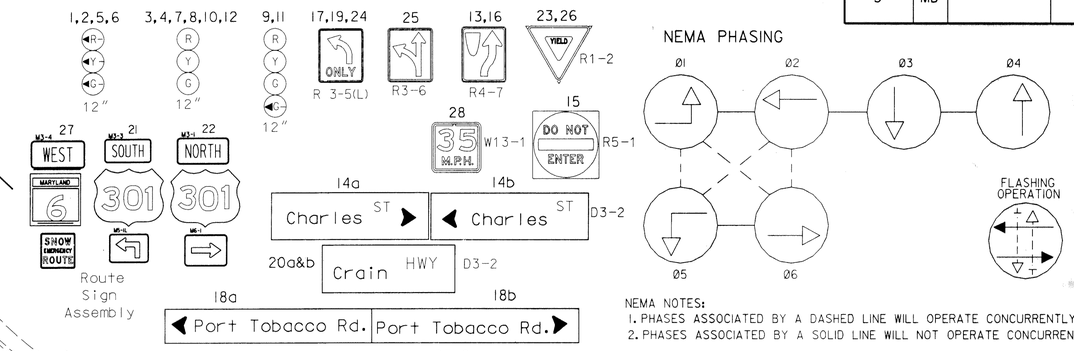
EQUIPMENT LISTS

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM	CATEGORY CODE	DESCRIPTION	QUANTITY	UNIT
8001	805011	1 INCH ELECTRICAL CONDUIT GALVANIZED SLEEVE	12	L.F.
8002	805160	1 INCH LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE.	40	L.F.
8003	810011	LOOP DETECTOR CABLE SPLICED TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED).	45	L.F.
8004	862101	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG).	1450	L.F.
8005	862102	SAWCUT FOR SIGNAL LOOP DETECTOR.	375	L.F.
8006	800000	MICROLOOP PROBE SET OF THREE WITH 1000 FT. LEAD-IN	4	EA.



EXISTING SIGNALS & SIGNS



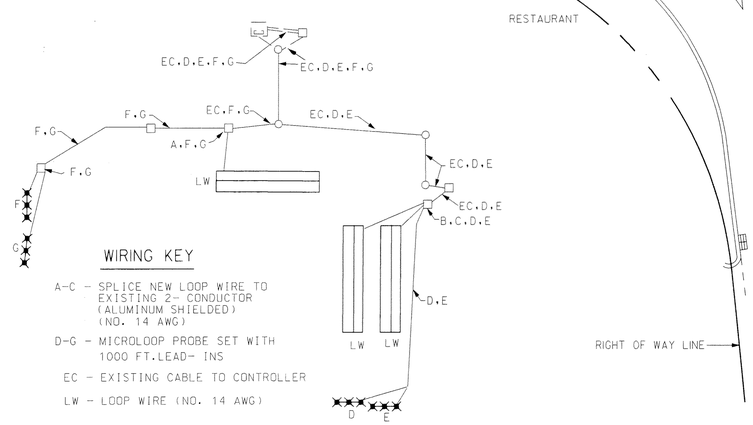
NEMA PHASING

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

SPECIAL NOTES:

1. UTILIZE ALL UNIDENTIFIED EXISTING EQUIPMENT NECESSARY TO COMPLETE REVISION "J".
2. EXISTING HANDHOLES SHALL BE DRAINED AND CLEANED OUT PRIOR TO THE CABLE WORK.
3. D.O. DENOTES DELAY OUTPUT LOOP DETECTOR.

WIRING DIAGRAM



WIRING KEY

A-C – SPLICE NEW LOOP WIRE TO EXISTING 2- CONDUCTOR (ALUMINUM SHIELDED) (NO. 14 AWG)

D-G – MICROLOOP PROBE SET WITH 1000 FT. LEAD- INS

EC – EXISTING CABLE TO CONTROLLER

LW – LOOP WIRE (NO. 14 AWG)

CONSTRUCTION DETAILS:

1. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR (3-6-3 TURNS).
2. INSTALL MICROLOOP PROBE SET OF THREE WITH 1000 FT. LEAD-IN.
3. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR LOOP DETECTOR LEAD-IN INTO EXISTING HANDHOLE. DRAIN THE HANDHOLE IF REQUIRED.
4. INSTALL MICROLOOP PROBE LEAD-INS TO THE CONTROLLER.
5. DISCONNECT OLD LOOPS AND SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) INSIDE EXISTING HANDHOLE.
6. INSTALL 1 IN. ELECTRICAL CONDUIT-GALVANIZED SLEEVE INTO EXISTING HANDHOLE. DRAIN THE HANDHOLE IF REQUIRED.

UTILITY LEGEND

T — T	TELEPHONE CABLES
G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
BC — BC	BURIED CABLE
SD — SD	STORM DRAIN

GEOMETRIC LEGEND

— — — — — —	EXISTING GEOMETRICS
————	PROPOSED GEOMETRICS

UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
813 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

APPROVALS

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

NOTE: A REVISION TO CH-447X-575 WAS ATTACHED TO THE ORIGINAL PLAN OF FILE

REVISIONS

J. 11/90-REBUILT T/S DUE TO O/H LINES; REPLACED EX. LOOP DETECTORS SHA * CH-587-501-585

WM	SR	DAZ	ETP	TH

F. MAY 21, 1985 NEW GEOMETRICS, ADDED LOOP DETECTOR; SHA * 855-25003

DLA	SR	DAZ	ETP	TH

G. 07/90 AS BUILT

WM				

J. 1/98 REPLACE DETECTION DUE TO RESURFACING. CH-6095177

KMM

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

U.S. 301 & MD. 6

FEB. 98

SIGNAL NO.: 08030114.99

DRAWN BY: W.F. FITCH	F.A.P. NO.		PLAN SHEET NO.:	SHEET NO.
CHECK BY: J. SPENCE	S.H.A. NO.	CH-447X-575	TS-82J	1 OF 1
SCALE: 1"=20'	COUNTY	CHARLES		