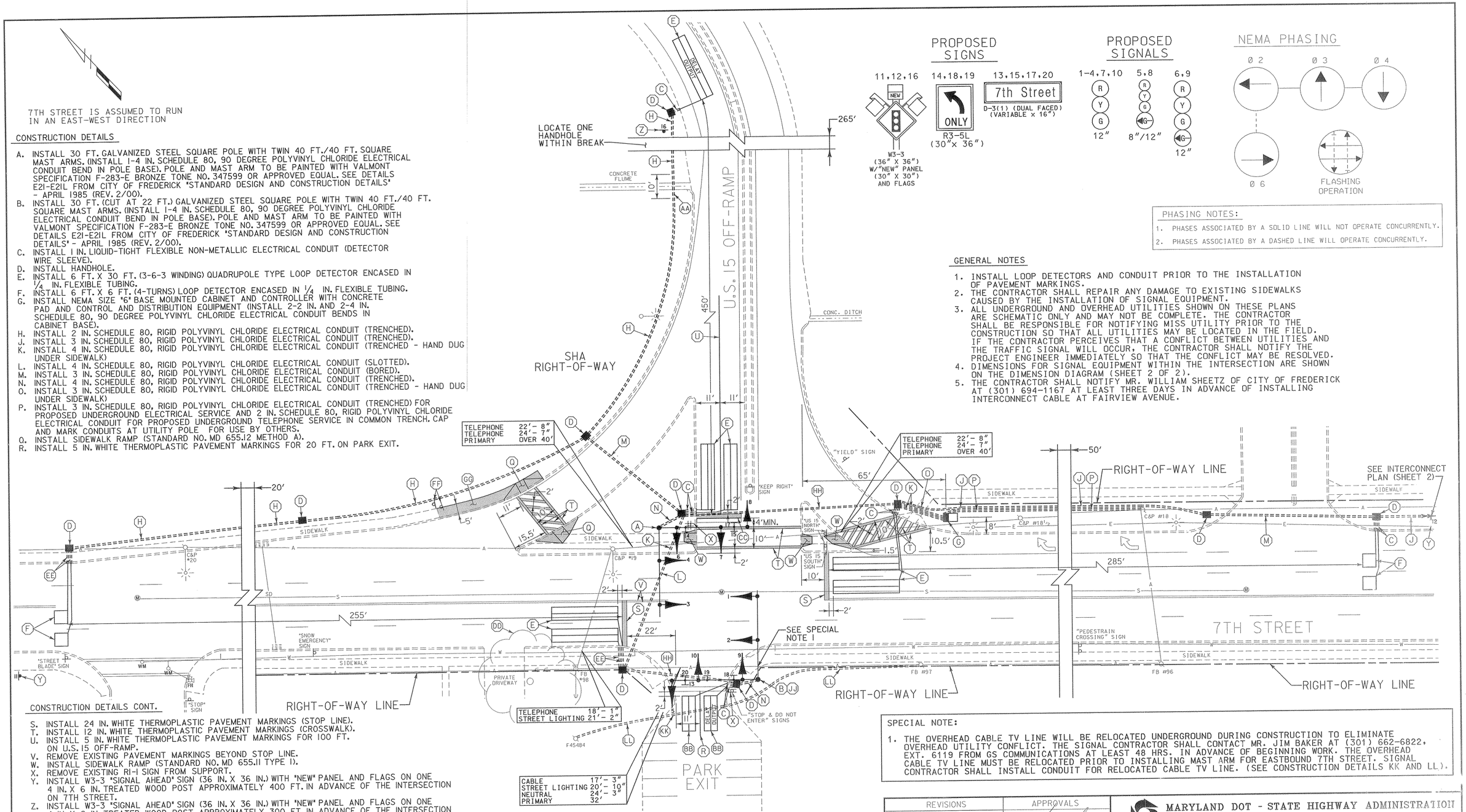
7TH STREET IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

CONSTRUCTION DETAILS

A. INSTALL 30 FT. GALVANIZED STEEL SQUARE POLE WITH TWIN 40 FT./40 FT. SQUARE MAST ARMS. (INSTALL 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN POLE BASE). POLE AND MAST ARM TO BE PAINTED WITH VALMONT SPECIFICATION F-283-E BRONZE TONE NO. 347599 OR APPROVED EQUAL. SEE DETAILS E21-E21L FROM CITY OF FREDERICK "STANDARD DESIGN AND CONSTRUCTION DETAILS" - APRIL 1985 (REV. 2/00).
B. INSTALL 30 FT. (CUT AT 22 FT.) GALVANIZED STEEL SQUARE POLE WITH TWIN 40 FT./40 FT. SQUARE MAST ARMS. (INSTALL 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN POLE BASE). POLE AND MAST ARM TO BE PAINTED WITH VALMONT SPECIFICATION F-283-E BRONZE TONE NO. 347599 OR APPROVED EQUAL. SEE DETAILS E21-E21L FROM CITY OF FREDERICK "STANDARD DESIGN AND CONSTRUCTION DETAILS" - APRIL 1985 (REV. 2/00).
C. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
D. INSTALL HANDHOLE.
E. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
F. INSTALL 6 FT. X 6 FT. (4-TURNS) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
G. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE).
H. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED - HAND DUG UNDER SIDEWALK)
L. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
M. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
N. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
O. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED - HAND DUG UNDER SIDEWALK)
P. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE IN COMMON TRENCH. CAP AND MARK CONDUITS AT UTILITY POLE FOR USE BY OTHERS.
Q. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12 METHOD A).
R. INSTALL 5 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS FOR 20 FT. ON PARK EXIT.



PROPOSED SIGNS

PROPOSED SIGNALS

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.

GENERAL NOTES

1. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
2. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
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. DIMENSIONS FOR SIGNAL EQUIPMENT WITHIN THE INTERSECTION ARE SHOWN ON THE DIMENSION DIAGRAM (SHEET 2 OF 2).
5. THE CONTRACTOR SHALL NOTIFY MR. WILLIAM SHEETZ OF CITY OF FREDERICK AT (301) 694-1167 AT LEAST THREE DAYS IN ADVANCE OF INSTALLING INTERCONNECT CABLE AT FAIRVIEW AVENUE.

CONSTRUCTION DETAILS CONT.

S. INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
T. INSTALL 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK).
U. INSTALL 5 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS FOR 100 FT. ON U.S. 15 OFF-RAMP.
V. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.
W. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.11 TYPE 1).
X. REMOVE EXISTING R1-1 SIGN FROM SUPPORT.
Y. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. X 6 IN. TREATED WOOD POST APPROXIMATELY 400 FT. IN ADVANCE OF THE INTERSECTION ON 7TH STREET.
Z. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. X 6 IN. TREATED WOOD POST APPROXIMATELY 300 FT. IN ADVANCE OF THE INTERSECTION ON U.S. 15 OFF-RAMP.
AA. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
BB. INSTALL 6 FT. X 16 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
CC. REMOVE EXISTING AND INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
DD. TRIM TREE, AS DIRECTED BY THE ENGINEER, FOR INCREASED SIGNAL VISIBILITY.
EE. INSTALL 1 IN. GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
FF. RELOCATE EXISTING R1-2 SIGN AND SUPPORT.
GG. INSTALL 4 IN. CONCRETE SIDEWALK.
HH. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
JJ. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
KK. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED) FOR RELOCATED CABLE TV LINE.
LL. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR RELOCATED CABLE TV LINE. CAP AND MARK CONDUIT AT UTILITY POLES FOR USE BY GS COMMUNICATIONS, INC.

SPECIAL NOTE:

1. THE OVERHEAD CABLE TV LINE WILL BE RELOCATED UNDERGROUND DURING CONSTRUCTION TO ELIMINATE OVERHEAD UTILITY CONFLICT. THE SIGNAL CONTRACTOR SHALL CONTACT MR. JIM BAKER AT (301) 662-6822, EXT. 6119 FROM GS COMMUNICATIONS AT LEAST 48 HRS. IN ADVANCE OF BEGINNING WORK. THE OVERHEAD CABLE TV LINE MUST BE RELOCATED PRIOR TO INSTALLING MAST ARM FOR EASTBOUND 7TH STREET. SIGNAL CONTRACTOR SHALL INSTALL CONDUIT FOR RELOCATED CABLE TV LINE. (SEE CONSTRUCTION DETAILS KK AND LL).

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

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

REVISIONS	APPROVALS
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION 3/16/00
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 3.16.00
	DIRECTOR, TRAFFIC & SAFETY 3/16/00

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

TRAFFIC SIGNALIZATION PLAN
U.S. 15 NB OFF-RAMP AND 7TH STREET

DRAWN BY: S.BLOSS	F.A.P. NO.	FR360A56/B56	TS NO. TS-3991	SHEET NO.
CHECKED BY: N. LEARY	S.H.A. NO.			
SCALE: 1" = 20'	COUNTY:	FREDERICK	T.J.M.S. NO. D533	1 OF 2
DATE: 3/14/00	LOG MILE:			

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