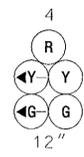
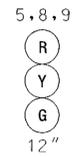
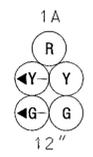
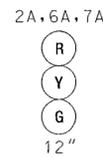


US 29 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

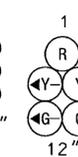
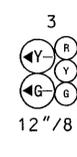
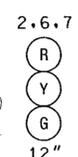
EXISTING SIGNAL HEADS TO REMAIN



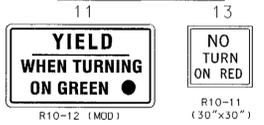
EXISTING SIGNAL HEADS TO BE REMOVED



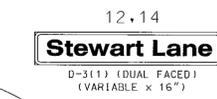
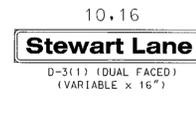
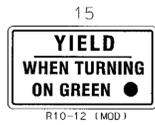
PROPOSED SIGNAL HEADS



EXISTING SIGNS TO BE RELOCATED (SHOWN AT FINAL LOCATION)



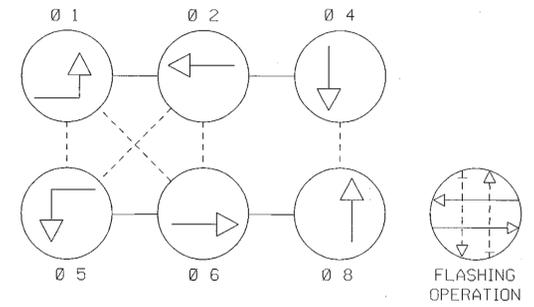
EXISTING SIGNS TO REMAIN



CONSTRUCTION DETAILS

- A. INSTALL 12 IN. X 32 FT. STEEL STRAIN POLE AND RELOCATED STREET LIGHTING ARM AND LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS IN POLE BASE).
- B. INSTALL 3/8 IN. STEEL SPAN WIRE AND SIGNAL HEADS.
- C. INSTALL HANDHOLE.
- D. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
- E. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/2 IN. FLEXIBLE TUBING.
- F. USE EXISTING CONDUIT.
- G. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- H. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
- J. USE EXISTING HANDHOLE
- K. ABANDON EXISTING LOOP DETECTOR.
- L. REMOVE EXISTING HANDHOLE.
- M. CAP AND ABANDON EXISTING CONDUIT.
- N. USE EXISTING SPAN WIRE.
- O. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
- P. USE EXISTING STEEL STRAIN POLE.
- Q. REMOVE EXISTING STEEL STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE. REMOVE EXISTING BACK GUYS. RELOCATE EXISTING STREET LIGHTING ARM AND LUMINAIRE TO NEW STRAIN POLE.
- R. REMOVE EXISTING STEEL SPAN WIRE AND SIGNAL HEADS.
- S. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND RELOCATE SIGNS ON SPAN WIRE AS NOTED.
- T. REMOVE EXISTING 12-PAIR COMMUNICATION CABLE AND RE-ATTACH TO PROPOSED SPAN WIRE AND STRAIN POLE.
- U. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. TETHER WIRE, SIGNAL HEADS AND RELOCATED SIGNS. (SIGNAL HEADS 1 AND 3 AND SIGN 11 SHALL BE ATTACHED TO BOTTOM TETHER WIRE.)

NEMA PHASING

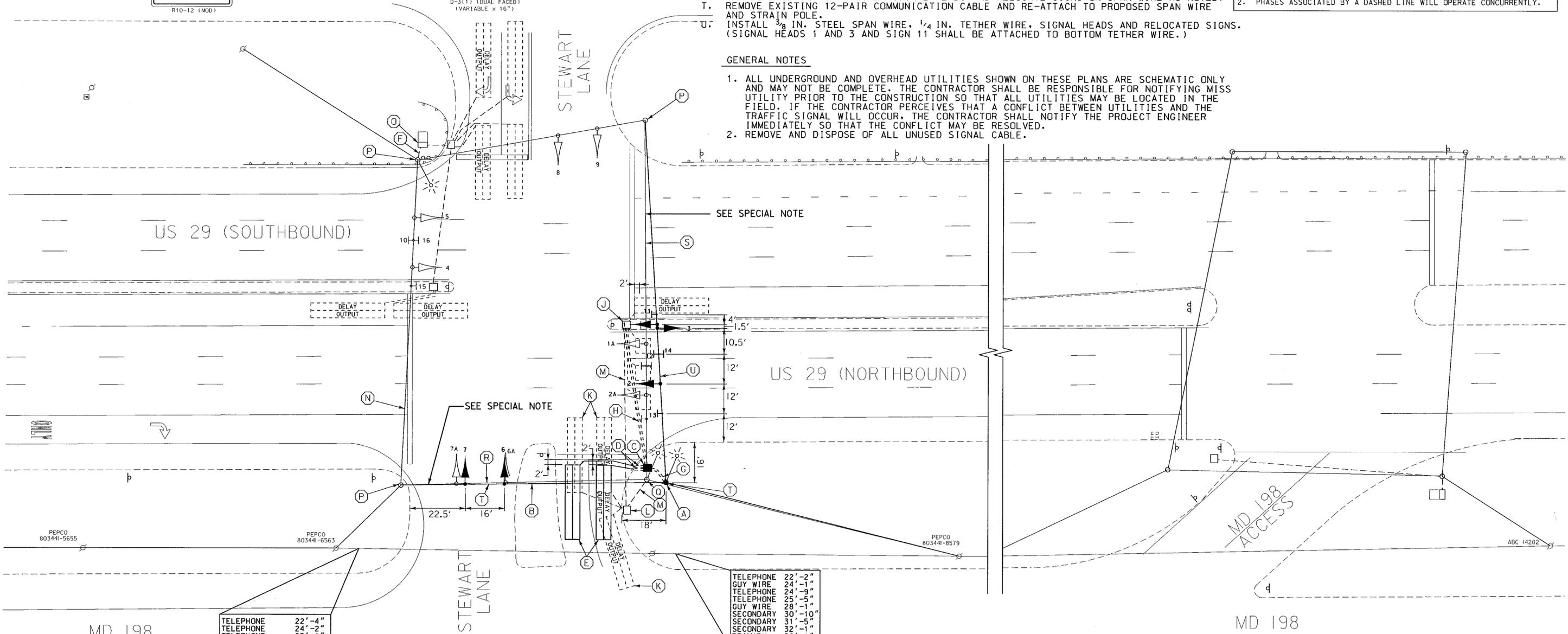


PHASING NOTES:

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

GENERAL NOTES

- 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.
- REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.



TELEPHONE	22'-2"
GUY WIRE	24'-1"
TELEPHONE	24'-9"
TELEPHONE	25'-5"
GUY WIRE	28'-1"
SECONDARY	30'-10"
SECONDARY	31'-5"
SECONDARY	32'-1"
PRIMARY	36'-1"
PRIMARY	40'-5"

TELEPHONE	22'-4"
TELEPHONE	24'-2"
TELEPHONE	25'-1"
TELEPHONE	25'-0"
CABLE	26'-6"
COMMUNICATION	27'-9"
SECONDARY	31'-10"
SECONDARY	32'-7"
SECONDARY	33'-2"
PRIMARY	37'-6"

SPECIAL NOTE:

- THE CONTRACTOR SHALL REMOVE EXISTING TRAFFIC SIGNAL HEADS, AS SOON AS PROPOSED TRAFFIC SIGNAL HEADS ARE OPERATIONAL TO REDUCE LOAD ON EXISTING STRAIN POLES.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

WR&A
Whitman, Reardon
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS	APPROVALS
<p>REPLACE DAMAGED STRAIN POLE AND ASSOCIATED EQUIPMENT SHA NO. 27863715008 NML MSHA REDESIGN</p>	<p>TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>ASST. TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>CHEF TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>DIRECTOR, TRAFFIC & SAFETY</p>

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
US 29 (COLUMBIA PIKE) @ STEWART LANE

DRAWN BY: J.E.L.	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: J.C.R.	S.H.A. NO.	TS-2647B	
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.	1 OF 2
DATE: 6/22/81	LOG MILE: 15002905.11	G156	