

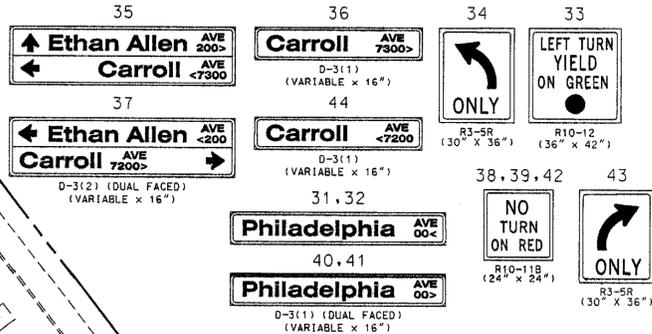


MD 195 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

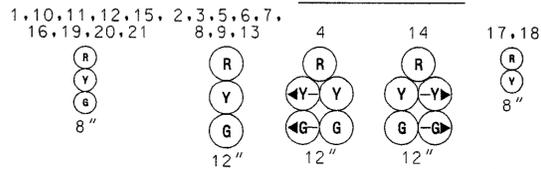
**GENERAL NOTES**

1. 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.
2. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE FROM EXISTING CONDUIT.

**EXISTING SIGNS**



**EXISTING SIGNAL HEADS TO REMAIN**



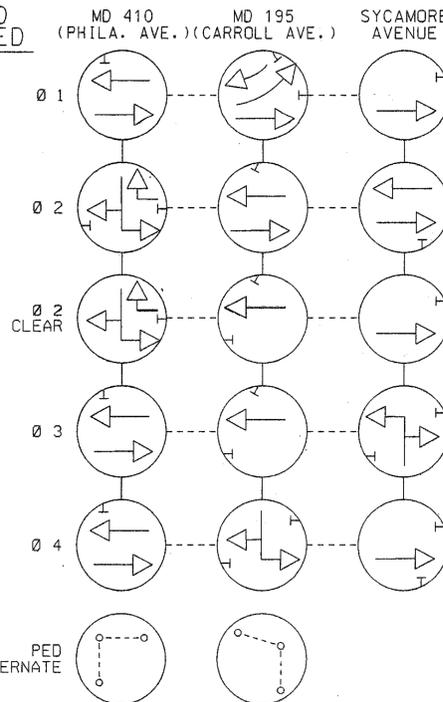
**PROPOSED SIGNAL HEAD**



**EXISTING SIGNAL HEAD TO BE REMOVED**



**NEMA PHASING**



**SPECIAL NOTES:**

1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING CONDUIT TO AVOID DAMAGING EXISTING LOOP DETECTOR LEAD-IN AND EXISTING CONDUIT.
2. THE TACTILE ARROWS FOR THE AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH CITY OF TAKOMA PARK STREETSCAPE CONTRACTOR. THE CONTRACTOR SHALL CONTACT IIONA BLANCHARD AT (301) 891-7205 TO COORDINATE CONSTRUCTION ACTIVITIES SCHEDULE. THE TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED AT THE SAME TIME AS THE STREETSCAPE IMPROVEMENTS.

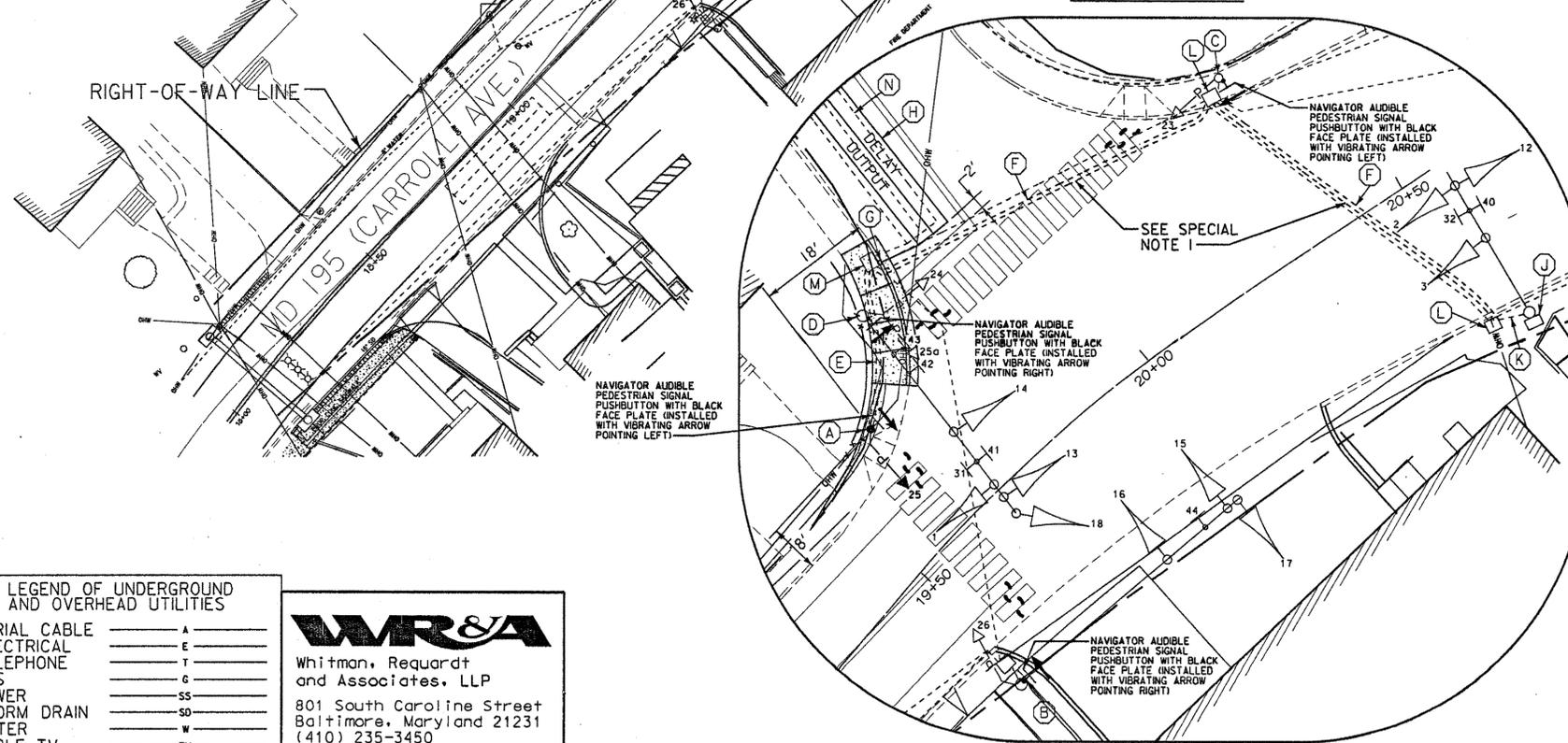
**PHASING NOTES:**

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

**CONSTRUCTION DETAILS**

1. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, 2-WIRE NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON WITH 5 IN. x 7 IN. SIGN SIZE, BLACK FACE PLATE OPTION 'A' INSTALLED WITH VIBRATING ARROW POINTING LEFT, BRAILLE TEXT, AND R10-4(1) SIGN (SIGN TO READ "PUSHBUTTON TO CROSS CARROLL AVENUE"). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE.)
2. USE EXISTING STEEL POLE. INSTALL 2-WIRE NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON WITH 5 IN. x 7 IN. SIGN SIZE, BLACK FACE PLATE OPTION 'A' INSTALLED WITH VIBRATING ARROW POINTING RIGHT, BRAILLE TEXT AND R10-4(1) SIGN (SIGN TO READ "PUSHBUTTON TO CROSS CARROLL AVENUE"). A NEW 1/2 INCH HOLE SHALL BE DRILLED INTO THE STEEL POLE FOR THE WIRING. DISCONNECT EXISTING PUSHBUTTON ELECTRICAL CABLE. REMOVE EXISTING PEDESTRIAN PUSHBUTTON (CLEAN EXISTING DRILLED HOLE FOR WIRING WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREA) AND CONNECT ELECTRICAL CABLE TO NEW AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON. REMOVE EXISTING PEDESTRIAN SIGN.
3. USE EXISTING PEDESTAL POLE. INSTALL 2-WIRE NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON WITH 5 IN. x 7 IN. SIGN SIZE, BLACK FACE PLATE OPTION 'A' INSTALLED WITH VIBRATING ARROW POINTING LEFT AND BRAILLE TEXT. A NEW 1/2 INCH HOLE SHALL BE DRILLED INTO THE PEDESTAL POLE FOR THE WIRING. DISCONNECT EXISTING PUSHBUTTON ELECTRICAL CABLE. REMOVE EXISTING PEDESTRIAN PUSHBUTTON (CLEAN EXISTING DRILLED HOLE FOR WIRING WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREA) AND CONNECT ELECTRICAL CABLE TO NEW AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON.
4. USE EXISTING STEEL POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AS SHOWN. PEDESTRIAN PUSHBUTTONS (2) AND R10-4(1) SIGN FOR CROSSING "CARROLL AVE". INSTALL 2 WIRE NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON WITH 5 IN. x 7 IN. SIGN SIZE, BLACK FACE PLATE OPTION 'A' INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND BRAILLE TEXT. A NEW 1/2 INCH HOLE SHALL BE DRILLED INTO THE STEEL POLE FOR THE WIRING. DISCONNECT EXISTING PUSHBUTTON ELECTRICAL CABLE. REMOVE EXISTING PEDESTRIAN PUSHBUTTON (CLEAN EXISTING DRILLED HOLE FOR WIRING WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREA) AND CONNECT ELECTRICAL CABLE TO NEW AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON.
5. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
6. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
7. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
8. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
9. USE EXISTING POLE MOUNTED CABINET. INSTALL CENTRAL CONTROL UNIT IN CABINET.
10. USE EXISTING CONDUIT.
11. USE EXISTING HANDHOLE.
12. ADJUST EXISTING HANDHOLE TO FINAL GRADE.
13. ABANDON EXISTING LOOP DETECTOR.

SCALE: 1" = 15'



**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 \_\_\_\_\_



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and Associates, LLP  
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(410) 235-3450

REVISIONS	APPROVALS
(C) ADDED AUDIBLE PEDESTRIAN PUSHBUTTONS CONTRACT NO. AT5828/85 4/29/05 S.R.B. N.M.L. 10/17/03 (D) ADDED OPTICALLY PROGRAMMED SIGNAL HEADS NOS. 6, 7 AND REPLACED LOOP DETECT. SHA NO. AT3575/85 10/10/03 N.M.L. (C) REVISED V/C TO OVERHEAD AND CONDUIT RUNS CHANGE 7/23/79 S.R. (A) REVISED SIGNALS NOS. 7, 8 AND CONDUIT AT PHILADELPHIA AVENUE 5/07/79 S.R.	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety

**TRAFFIC ENGINEERING DESIGN DIVISION**  
TRAFFIC SIGNALIZATION PLAN

MD 195 (CARROLL AVE.) @ MD 410 (PHILADELPHIA AVE.)  
AND MD 410 (ETHAN ALLEN AVE.) @ MD 195 (CARROLL AVE.)/GRANT AVE./SYCAMORE AVE. (TAKOMA PARK, MD)

DRAWN BY: J. GORDON	F.A.P. NO.	TS NO.
CHECKED BY: D. ZAFRIS	S.H.A. NO. M-320-501-385	TS-860E
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.
DATE: 6/30/75	LOG MILE: 15019500.46	6796

SHEET NO. 1 OF 4

TSP-1