

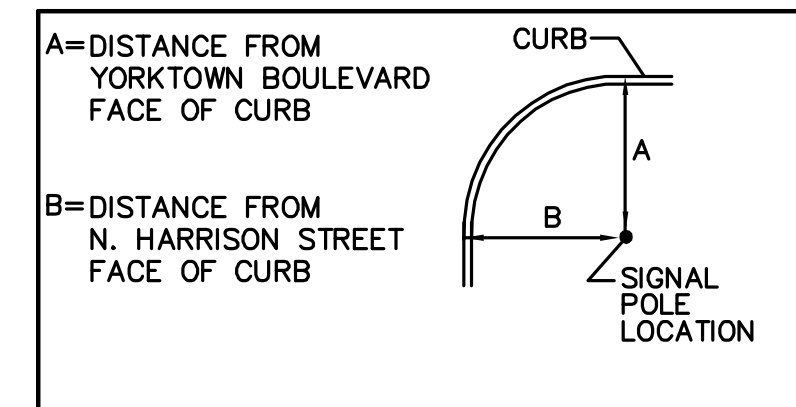
GENERAL NOTES

- 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 CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC CONTROL ITEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST REVISIONS OF THE ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, VIRGINIA WORK AREA PROTECTION MANUAL, VDOT ROAD AND BRIDGE SPECIFICATIONS, VDOT ROAD AND BRIDGE STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATION (ACSS) R-5.1, R-5.1A.
- PEDESTAL POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ACCSS, R-5.6A.
- PEDESTAL POLES SHALL BE VALMONT WA17-AS LIGHTING POLE OR COUNTY APPROVED SUBSTITUTE.
- PEDESTAL POLE MOUNTED SIGNAL HEADS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT STD. SMB-3.
- PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT STD. PA-2. PEDESTRIAN SIGNAL INDICATIONS SHALL BE IN ACCORDANCE WITH VDOT STD. SP-8.
- ALL SIGNAL DISPLAYS SHALL BE LED DISPLAYS. PEDESTRIAN SIGNALS SHALL BE LED WITH COUNTDOWN.
- CONTROLLER CABINET FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ACCSS, R-5.7.
- NEW CONTROLLER CABINET SHALL BE FURNISHED WITH BATTERY BACKUP EQUIPMENT PER ARLINGTON COUNTY REQUIREMENTS.
- LOOP DETECTION SHALL BE INSTALLED PER VDOT STD JD-1C.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, ETC. THAT ARE DAMAGED DURING CONSTRUCTION.
- THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS. THE COUNTY WILL INSTALL THE SYSTEM TIMINGS AND FINE TUNE AS NECESSARY. CONTACT: MR. WASIM RAJA, 703-228-7588.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION, PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL TEMPORARY DEVICES.
- THE CONTRACTOR SHALL SUBMIT "AS-BUILT" DRAWINGS TO THE COUNTY OF ARLINGTON UPON JOB COMPLETION AND FINAL INSPECTION.
- THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL WHEN REQUIRED AND SHALL SEED OR SOD ALL DISTURBED AREAS.
- ALL CONDUITS PASSING BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND AVOIDING ALL UNDERGROUND UTILITIES DURING CONSTRUCTION ACTIVITIES.
- THE FOUNDATION SIZES SHOWN IN THE POLE SCHEDULE ARE TYPICAL SIZES, AND ARE PROVIDED BY THE COUNTY FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL PEDESTAL POLE FOUNDATION DESIGNS, INCLUDING ALL GEOTECHNICAL INVESTIGATIONS NECESSARY TO OBTAIN SOILS ANALYSES FOR DESIGN PURPOSES.
- THE CONTRACTOR SHALL STAKE NEW POLE LOCATIONS AND OBTAIN APPROVAL FROM THE COUNTY ENGINEER (OR DESIGNATED REPRESENTATIVE CONTACT) PRIOR TO INSTALLATION. CONTACT MR. RANDOLPH COOPER, 703-228-6655.
- THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT PEDESTAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN EXISTING RIGHT-OF-WAY.
- THE CONTRACTOR SHALL INSTALL ALL PERMANENT PAVEMENT MARKINGS. VDOT STD. CLASS B, TYPE 1 (THERMOPLASTIC) PAVEMENT MARKINGS ARE REQUIRED UNLESS OTHERWISE SPECIFIED. EXISTING PAVEMENT MARKINGS NOT IN AGREEMENT WITH THIS PLAN ARE TO BE REMOVED BEFORE NEW MARKINGS ARE INSTALLED. PERMANENT MARKINGS ARE TO BE SPOTTED AND FIELD VERIFIED BY THE COUNTY PRIOR TO INSTALLATION BY THE CONTRACTOR.
- ALL EQUIPMENT SHALL BE GROUNDED BASED ON CURRENT EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04(A) AND ARLINGTON COUNTY SPECIAL PROVISIONS FOR EQUIPMENT GROUNDED. COMMUNICATIONS INTERCONNECT SHALL BE SPLICED AND SHALL HAVE ELECTRICAL SURGE SUPPRESSION BASED ON CURRENT EDITION OF THE ARLINGTON COUNTY'S SPECIAL PROVISIONS.
- ANY NOTES NOT MENTIONED IN THIS SECTION WILL REVERT TO ARLINGTON COUNTY AND/OR VDOT STANDARDS.

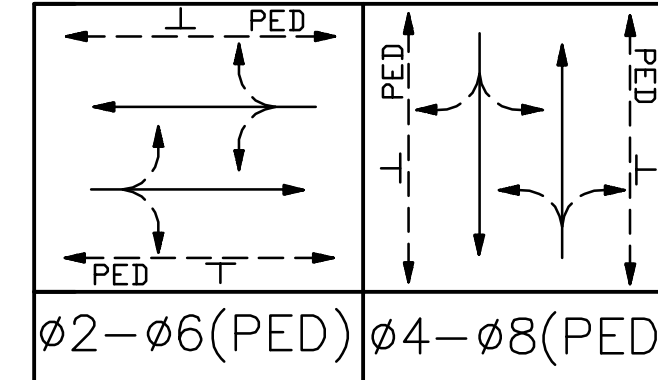
POLE SCHEDULE						
TYPE	FOUNDATION*	FOUNDATION*		POLE LOCATION (SEE DETAIL)		LUMINAIRE MOUNTED ON TOP OF PEDESTAL POLE
		DIAMETER	DEPTH	A	B	
(A) R-5.6A	2 FT.	3 FT.	16 FT.	12 FT.	150 HPS	
(B) R-5.6A	2 FT.	3 FT.	13 FT.	12 FT.	150 HPS	
(C) R-5.6A	2 FT.	3 FT.	-	15 FT.**	150 HPS	
(D) R-5.6A	2 FT.	3 FT.	-	9 FT.**	150 HPS	
(E) R-5.6A	2 FT.	3 FT.	12 FT.	10 FT.	150 HPS	
(F) R-5.6A	2 FT.	3 FT.	17 FT.	14 FT.	150 HPS	

* CONTRACTOR SHALL VERIFY FOUNDATION DESIGN WITH COUNTY PRIOR TO INSTALLATION.
** DISTANCE TO LOCATION OF POLE FOUNDATION IS FROM EXISTING CURB NOSE.

POLE LOCATION DETAIL (NTS)



PHASING DIAGRAM

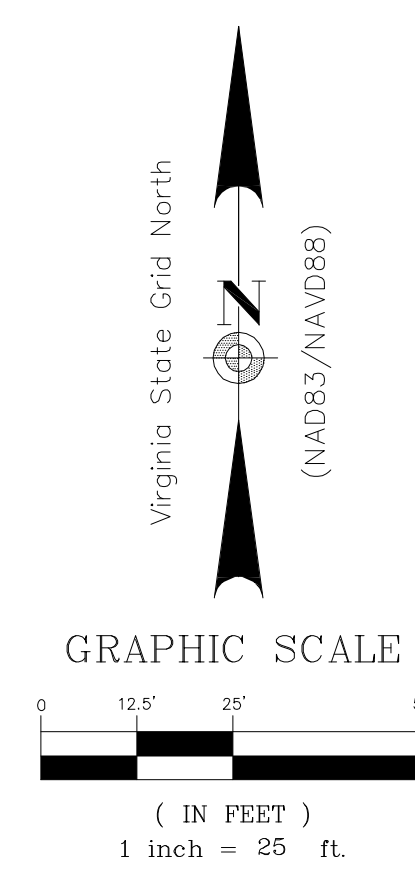


90% PLANS NOT FOR CONSTRUCTION

COLOR SEQUENCE CHART

PHASE	02-06 (PED)	04-08 (PED)	FLASH
SIGNAL	1	2	
2	G	Y	
4		G	R
6	G	Y	
8		G	R
2P	WK	BLANK	
4P		WK	BLANK
6P	WK	BLANK	
8P		WK	BLANK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" OR "DON'T WALK" SIGNAL INDICATION



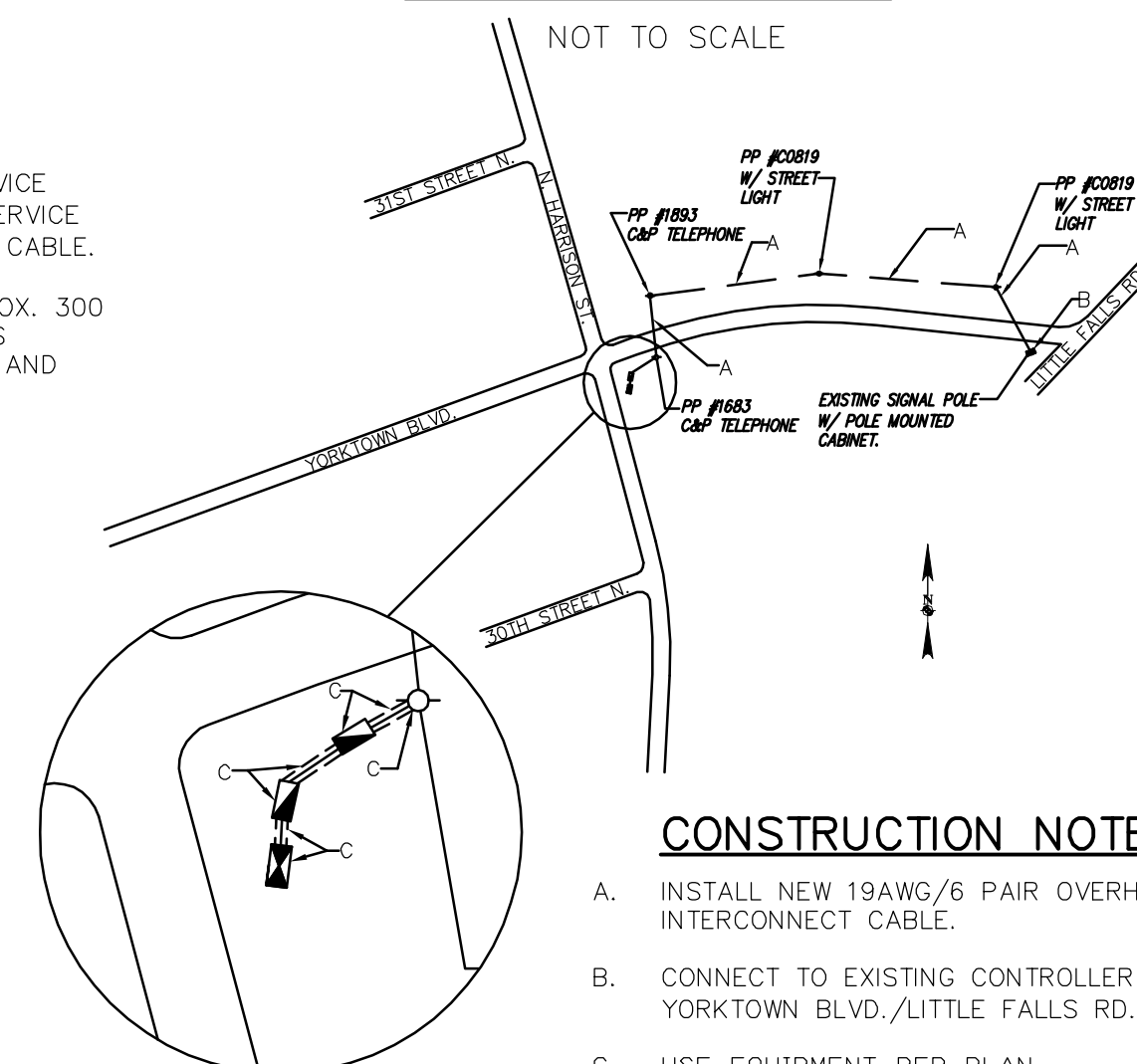
CONDUIT ROUTE DESCRIPTIONS

1	2" PVC - (3) 14AWG/7C, (1) 14AWG/2C, (1) 10AWG/2C
2	3" RGS - (3) 14AWG/7C, (1) 14AWG/2C, (1) 10AWG/2C
3	3" RGS - (5) 14AWG/7C, (1) 14AWG/2C, (2) 10AWG/2C
4	2" PVC - (1) 19AWG/6 PAIR INTERCONNECT 2" PVC - (1) 8AWG/4C POWER SERVICE
5	(3) 3" PVC - (20) 14AWG/7C, (4) 14AWG/2C, (6) 10AWG/2C (2) 14AWG/2C (s)
6	2" PVC - (1) 19AWG/6 PAIR INTERCONNECT 2" PVC - (1) 8AWG/4C POWER SERVICE
7	3" PVC - (5) 14AWG/7C, (1) 14AWG/2C, (1) 10AWG/2C
8	(2) 3" RGS - (10) 14AWG/7C, (2) 14AWG/2C, (3) 10AWG/2C (1) 14AWG/2C (s)
9	2" PVC - (3) 14AWG/7C, (1) 14AWG/2C, (1) 10AWG/2C
10	3" RGS - (7) 14AWG/7C, (1) 14AWG/2C, (2) 10AWG/2C (1) 14AWG/2C (s)
11	3" RGS - (5) 14AWG/7C, (1) 14AWG/2C, (1) 10AWG/2C (1) 14AWG/2C (s)
12	3" PVC - (5) 14AWG/7C, (1) 14AWG/2C, (1) 10AWG/2C
13	1" RGS - (1) 14AWG/2C (s)
14	2" PVC - (2) 14AWG/7C, (1) 10AWG/2C
15	2" PVC - (2) 14AWG/7C, (1) 10AWG/2C
16	1" RGS - (1) 14AWG/2C (s)

INSTALLATION NOTES

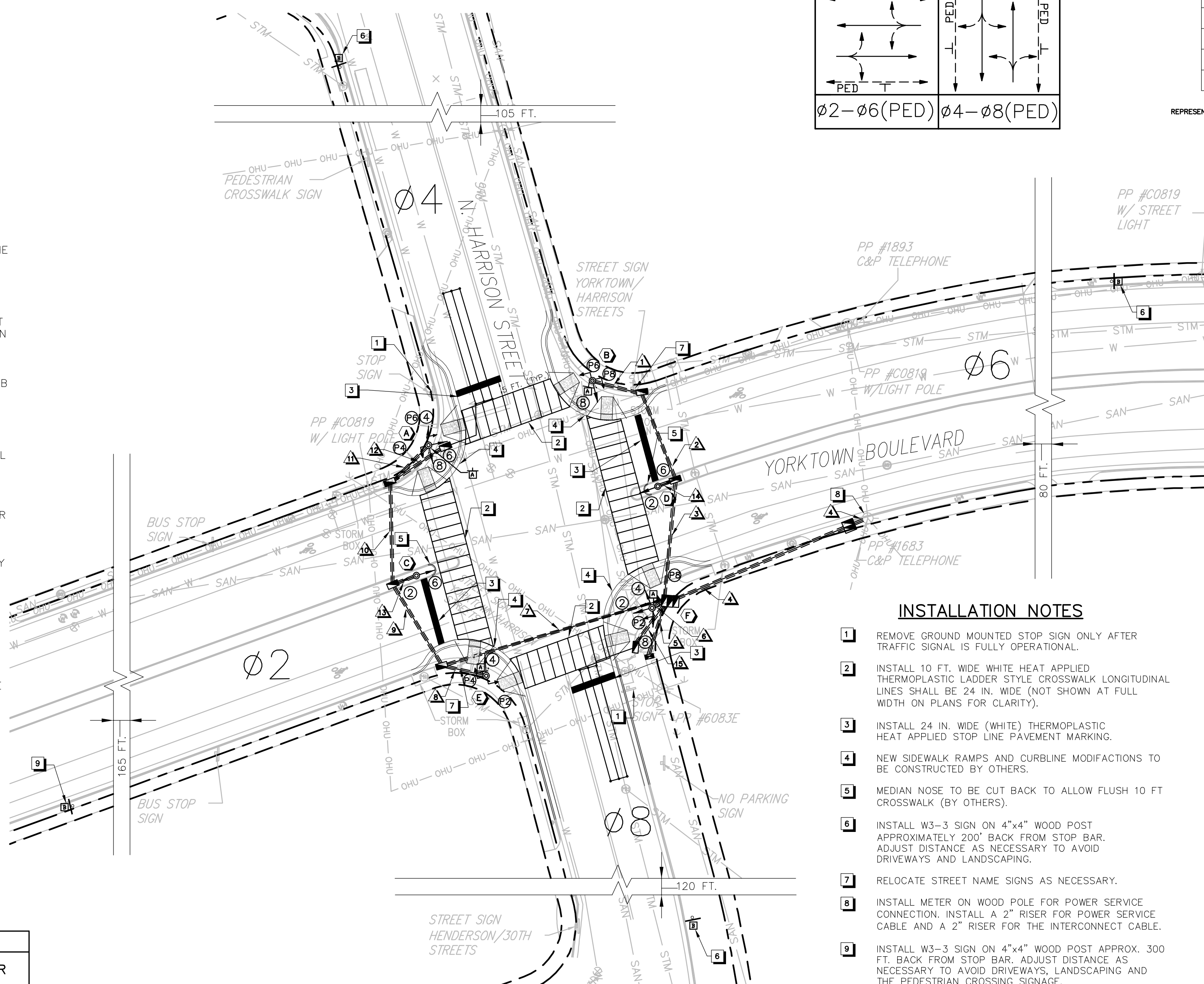
- REMOVE GROUND MOUNTED STOP SIGN ONLY AFTER TRAFFIC SIGNAL IS FULLY OPERATIONAL.
- INSTALL 10 FT. WIDE WHITE HEAT APPLIED THERMOPLASTIC LADDER STYLE CROSSWALK LONGITUDINAL LINES SHALL BE 24 IN. WIDE (NOT SHOWN AT FULL WIDTH ON PLANS FOR CLARITY).
- INSTALL 24 IN. WIDE (WHITE) THERMOPLASTIC HEAT APPLIED STOP LINE PAVEMENT MARKING.
- NEW SIDEWALK RAMPS AND CURBLINE MODIFICATIONS TO BE CONSTRUCTED BY OTHERS.
- MEDIAN NOSE TO BE CUT BACK TO ALLOW FLUSH 10 FT CROSSWALK (BY OTHERS).
- INSTALL W3-3 SIGN ON 4"x4" WOOD POST APPROXIMATELY 200' BACK FROM STOP BAR. ADJUST DISTANCE AS NECESSARY TO AVOID DRIVEWAYS AND LANDSCAPING.
- RELOCATE STREET NAME SIGNS AS NECESSARY.
- INSTALL METER ON WOOD POLE FOR POWER SERVICE CONNECTION. INSTALL A 2" RISER FOR POWER SERVICE CABLE AND A 2" RISER FOR THE INTERCONNECT CABLE.
- INSTALL W3-3 SIGN ON 4"x4" WOOD POST APPROX. 300 FT. BACK FROM STOP BAR. ADJUST DISTANCE AS NECESSARY TO AVOID DRIVEWAYS, LANDSCAPING AND THE PEDESTRIAN CROSSING SIGNAGE.

INTERCONNECT PLAN



CONSTRUCTION NOTES

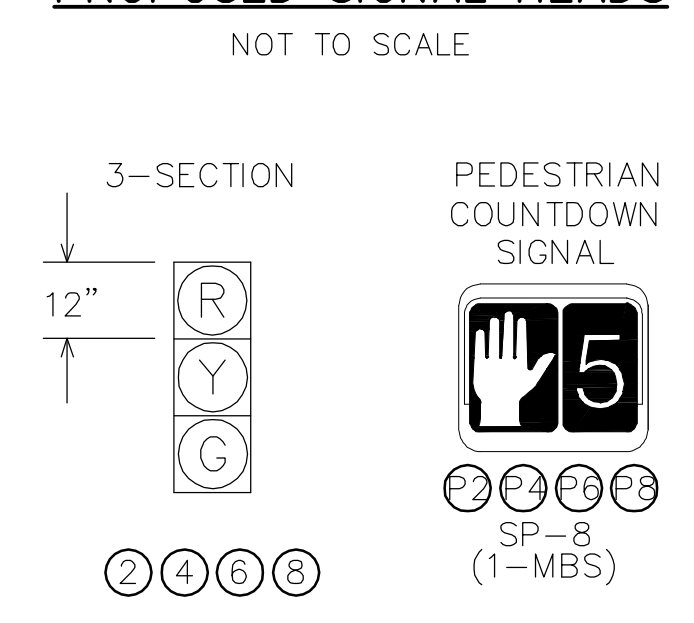
- INSTALL NEW 19AWG/6 PAIR OVERHEAD INTERCONNECT CABLE.
- CONNECT TO EXISTING CONTROLLER AT YORKTOWN BLVD./LITTLE FALLS RD.
- USE EQUIPMENT PER PLAN.



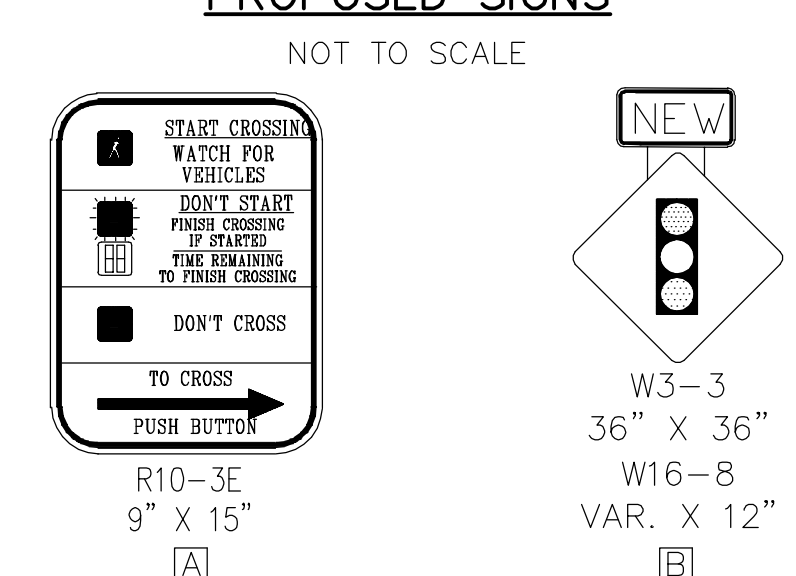
LEGEND

- RIGHT OF WAY
- - - EXISTING SIDEWALK EASEMENT
- W- WATER
- SAN- SANITARY SEWER
- OHU- OVERHEAD UTILITIES
- PM PARKING METER
- + GUY WIRE
- UNDERGROUND ELECTRIC
- OVERHEAD LIGHT
- GAS VALVE
- UTILITY POLE
- WATER VALVE
- GAS METER
- GAS- GAS LINE
- PROPOSED 6' X 40' LOOP DETECTOR
- PROPOSED POLE MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN
- PROPOSED PEDESTAL POLE
- PROPOSED SIGNAL
- PROPOSED PEDESTRIAN SIGNAL
- PROPOSED CONDUIT ROUTE
- PROPOSED JUNCTION BOX
- PROPOSED CONTROLLER CABINET
- △ CONDUIT ROUTE DESCRIPTION
- SIGNAL POLE
- CONSTRUCTION NOTES
- PROPOSED PEDESTRIAN PUSH BUTTON

PROPOSED SIGNAL HEADS



PROPOSED SIGNS



REVISIONS

NO.	DATE	DESCRIPTION

Kimley-Horn and Associates, Inc.
 13221 Woodland Park Road
 Suite 400
 Fairfax, VA 22031
 Phone: 703-674-1300
 Fax: 703-674-1350
 Engineering, Planning, and Environmental Consultants

ARLINGTON VIRGINIA

YORKTOWN BLVD. AND N. HARRISON ST. TRAFFIC SIGNAL DESIGN

SCALE: 1"=25'
 DRAWN BY: MDB
 DESIGNED BY: GDG
 CHECKED BY: KWF
 DATE: 2/15/06

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