

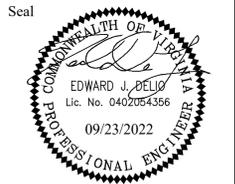
SUMMARY OF LIGHT POLE DETAILS							
SHEET NO.	LIGHT POLE LABEL	POLE TYPE	FOUNDATION	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
D15.11	LP01	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	111 + 46.5	32.1	SOUTH
D15.11	LP02	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	110 + 86.2	31.9	SOUTH
D15.11	LP03	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	110 + 26.2	31.9	SOUTH
D15.11	LP06	EXISTING SINGLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	108 + 40.3	31.3	SOUTH
D15.10	LP07	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	107 + 77.7	34.2	SOUTH
D15.10	LP08	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	107 + 24.2	49.3	SOUTH
D15.10	LP09	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	106 + 87.7	30.1	SOUTH
D15.10	LP10	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	106+25.5	30.5	SOUTH
D15.10	LP11	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	106 + 23.3	30.1	SOUTH
D15.10	LP12	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	105 + 61.8	30.1	SOUTH
D15.10	LP13	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	104 + 93.5	30.0	SOUTH
D15.10	LP14	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	104 + 77.4	30.5	SOUTH
D15.10	LP15	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	104 + 29.0	30.2	SOUTH
D15.10	LP16	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	103 + 71.4	30.9	SOUTH
D15.10	LP17	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	103 + 45.1	47.4	SOUTH
D15.10	LP18	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	102 + 78.6	30.9	SOUTH
D15.9	LP19	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	102 + 31.3	31.0	SOUTH
D15.9	LP20	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	101 + 84.6	30.8	SOUTH
D15.9	LP21	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	101 + 82.4	38.5	SOUTH
D15.9	LP22	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	101 + 14.5	30.4	SOUTH
D15.9	LP24	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	99 + 35.3	29.9	SOUTH
D15.9	LP25	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	98 + 81.1	29.9	SOUTH
D15.9	LP27	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	98 + 01.1	29.9	SOUTH
D15.9	LP28	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	97 + 98.8	30.5	SOUTH
D15.9	LP29	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	97 + 49.6	30.1	SOUTH
D15.8	LP30	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	96+68.6	30.5	SOUTH
D15.8	LP31	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	96 + 44.6	30.3	SOUTH
D15.8	LP32	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	95 + 84.6	30.5	SOUTH
D15.8	LP33	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	95 + 81.5	30.0	SOUTH
D15.8	LP34	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	93 + 93.5	34.9	SOUTH
D15.8	LP35	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	93 + 09.7	30.6	SOUTH
D15.7	LP36	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	92 + 37.7	30.4	SOUTH
D15.7	LP37	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	91 + 93.8	31.1	SOUTH
D15.7	LP38	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	91 + 72.1	30.6	SOUTH
D15.7	LP39	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	90 + 67.7	30.5	SOUTH
D15.7	LP40	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	90+ 84.89	39.7	SOUTH
D15.7	LP42	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	89 + 79.6	39.7	SOUTH
D15.7	LP45	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	88 + 40.2	30.3	NORTH
D15.7	LP46	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	90 + 06.4	30.5	NORTH
D15.7	LP47	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	91 + 04.6	30.5	NORTH
D15.7	LP48	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	90 + 91.9	38.3	NORTH
D15.7	LP49	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	91 + 84.9	45.0	NORTH
D15.7	LP50	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	92 + 34.1	31.4	NORTH
D15.7	LP51	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	92 + 34.7	30.5	NORTH
D15.8	LP52	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	93 + 15.7	31.5	NORTH
D15.8	LP53	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	93 + 23.5	30.5	NORTH
D15.8	LP54	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	93 + 79.8	31.2	NORTH
D15.8	LP55	EXISTING SINGLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	94 + 84.3	67.7	NORTH
D15.8	LP56	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	95 + 08.4	31.3	NORTH
D15.8	LP57	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	95 + 58.3	31.2	NORTH
D15.8	LP58	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	96 + 42.8	31.3	NORTH
D15.8	LP59	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	96 + 92.9	31.0	NORTH
D15.8	LP60	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	97 + 42.7	31.3	NORTH
D15.9	LP61	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	98 + 26.2	31.6	NORTH
D15.9	LP62	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	98 + 74.5	32.8	NORTH
D15.9	LP63	EXISTING DOUBLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	99 + 52.3	33.2	NORTH
D15.9	LP64	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	99 + 92.9	30.7	NORTH
D15.9	LP65	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	100 + 75.7	31.3	NORTH
D15.9	LP66	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	101 + 26.2	31.5	NORTH
D15.9	LP67	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	101+ 95.23	31.0	NORTH
D15.10	LP68	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	102 + 60.2	31.5	NORTH
D15.10	LP69	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	103 + 45.0	30.9	NORTH
D15.10	LP70	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	104 + 11.9	31.3	NORTH
D15.10	LPE01	PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE TO BE INSTALLED BY OTHERS	N/A	COLUMBIA PIKE	103+71.70	31.5	NORTH
D15.10	LP72	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	104 + 90.6	32.1	NORTH
D15.10	LPE02	PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE TO BE INSTALLED BY OTHERS	N/A	COLUMBIA PIKE	104+75.70	30.5	NORTH
D15.10	LP74	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	105 + 54.1	31.3	NORTH
D15.10	LPE03	PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE TO BE INSTALLED BY OTHERS	N/A	COLUMBIA PIKE	105+79.70	31.3	NORTH
D15.10	LPE04	PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE TO BE INSTALLED BY OTHERS	N/A	COLUMBIA PIKE	106+83.70	30.5	NORTH
D15.10	LP77	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	106 + 75.1	31.3	NORTH
D15.10	LP78	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	107 + 63.3	31.4	NORTH
D15.11	LP80	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	108 + 34.9	30.9	NORTH
D15.11	LP81	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	109 + 62.2	30.5	NORTH
D15.11	LP82	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	110 + 80.1	31.0	NORTH
D15.11	LP83	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	111 + 01.4	29.9	NORTH
D15.11	LP84	EXISTING SINGLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	111 + 59.9	51.8	NORTH
D15.11	LP85	EXISTING SINGLE CARLYLE LED TO REMAIN	N/A	COLUMBIA PIKE	111 + 46.5	140.6	NORTH
D15.9	LP86	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	99 + 16.6	30.5	SOUTH
D15.10	LP186	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	107+77.7	31.8	SOUTH
D15.10	LP189	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	STANDARD DEPTH	COLUMBIA PIKE	103+35.7	31.9	NORTH
D15.10	LP190	EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE**	SHALLOW DEPTH	COLUMBIA PIKE	107+38.8	30.5	NORTH
D15.9	LP191	EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED*	N/A	COLUMBIA PIKE	101+85.1	31.5	NORTH

- NOTES:  
1. A TOTAL OF 17 EXISTING CARLYLE LIGHT POLES SHALL BE SALVAGED AND RETURNED TO THE ARLINGTON COUNTY TRADES CENTER LOCATED AT 4300 29TH STREET SOUTH, ARLINGTON, VA 22206.  
2. REFERENCE POINT OF LIGHT POLES IS THE CENTER OF THE POLE  
3. \*INCLUDES REMOVING POLE, REMOVING AND RESTORING POLE FOUNDATION, REMOVING AND RESTORING/INSTALLING 45Y.  
4. \*\* FURNISH AND INSTALL STANDARD OR SHALLOW FOUNDATION FOR CARLYLE POLE.



**ARLINGTON VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
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Fax: 703-674-1300



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: BA  
Drawn: PNH  
Checked: EJD  
Miss Utility Transmittal #:

Filename: 010073-D-0-0.dwg  
Path: \\NVA-ARL\Y:\1010091\_Columbia Pike Multimodal\Production\Task  
1 - 7 Final Design of Columbia Pike Segment\Report\011512\_100%  
Design\PlotSheet  
Plotted: September 23, 2022  
Plotted by: Miguel.Tyshing

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

LIGHTING SUMMARIES  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D

SCALE: HOR. N/A VERT. N/A SHEET: D15.1 of D15.14



**ARLINGTON VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL SERVICES

*Rita D. Araya*  
RITA ARAYA  
BUREAU CHIEF, DES. DEVELOPMENT SERVICES

3/7/2023  
APPROVAL DATE



COLUMBIA PIKE SEGMENT D SERVICE POLES									
SERVICE POLE #	SHEET NO.	SERVICE LOCATION	CIRCUIT BREAKER SIZE		WIRE SIZE		CIRCUIT	CARLYLE LED LIGHT POLES SERVED	
			EXISTING	PROPOSED MIN	EXISTING	PROPOSED MIN			
SP6	D15.15	Garfield Street	(3) 20 amp	(3) 20 amp	#2, #4, #8	#6	A	LP85, LP84, LP82	
SP3	D15.14	Cleveland Street	20 amp	20 amp	#4	#6	A	LP06, LP08, LP10, LP14, LP17, LP18, LP21, LP186	
SP2	D15.12	Wayne Street	20 amp	20 amp	#2	#4, #2	A	LP55, LP57, LP58, LP59, LP60, LP61, LP62, LP63, LP67, LPE01, LPE02, LPE03, LPE04	
SP1 (NEW)	D15.11	Between Veitch Street and Courthouse Road	20 amp	20 amp	#4, #6	#6	A	LP46, LP47, LP49, LP51, LP53 PART OF SEGMENT C: LP116, LP117, LP119, LP120, LP122	
			20 amp	20 amp	#6	#6	B	LP28, LP30, LP32, LP34, LP35, LP37, LP39, LP86 PART OF SEGMENT C: LP97, LP98, LP100, LP101, LP103, LP104	

ADDITION OF CIRCUIT BREAKERS AND MAIN BREAKERS AND THE COST OF CONNECTING TO EXISTING CIRCUIT BREAKERS AT THE SPECIFIED ELECTRIC SERVICE IS SUBSIDIARY TO THE INSTALLATION OF THE LIGHT POLES. CONTRACTOR SHALL FIELD-VERIFY ALL SERVICE DETAILS. EXISTING LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING THE ENTIRE CONSTRUCTION PHASE. EXISTING LIGHT POLES, SHOWN AS TO REMAIN IN THE FUTURE, SHALL REMAIN OPERATIONAL IN THE FUTURE.

**SERVICE #1**  
VOLTAGE DROP CALCULATIONS  
PROJECT ELECTRICAL DESIGN DATA  
SERVICE VOLTAGE: 120 VOLT  
SYSTEM PHASES: 3 WIRE W/ GND  
CONDUCTOR TYPE: RMC CONDUIT  
POWER FACTOR: 0.9  
MAXIMUM VOLTAGE DROP: 3.00 %

**FEDER CONDUCTORS**

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES		BRANCH FROM NODE		LUMINAIRE SUMMARY		NODE VOLTAGE DROP (%)	% VOLTAGE DROP				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	LUMINAIRE QUANTITY			VA	CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)
1	SERVICE #1	GB	SE-010/R	50	4	0.308	0.056	0.031	0.008	48	3011.026	27.59	0.93	0.83	119.17	0.69%
2	SERVICE #1	GB								0	0	0.00	0.00	0.00		
3	SERVICE #1	GB								0	0	0.00	0.00	0.00		
4	SERVICE #1	GB								0	0	0.00	0.00	0.00		
5	SERVICE #1	GB								0	0	0.00	0.00	0.00		

**CIRCUIT: CKT A**

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES		THIS NODE		BRANCH FROM NODE		LUMINAIRE SUMMARY		NODE VOLTAGE DROP (%)	% VOLTAGE DROP				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	LUMINAIRE QUANTITY	VA	CURRENT (A)			NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)		
1	SERVICE #1	GB	15	4	0.308	0.056	0.009	0.002	BRANCH B	8	551.836	20	1379.59	11.80	0.10	0.10	119.06	0.99%
2	SERVICE #1	GB	80	4	0.308	0.056	0.049	0.009				20	1379.59	11.80	0.58	0.68	118.51	0.55%
3	SERVICE #1	GB	100	4	0.308	0.056	0.062	0.011				12	827.754	6.90	0.42	1.07	118.09	0.90%
4	SERVICE #1	GB	300	4	0.308	0.056	0.190	0.036				10	689.756	5.75	1.07	2.15	117.02	1.79%
5	SERVICE #1	GB	125	6	0.491	0.064	0.123	0.016				8	551.836	4.60	0.94	2.69	116.48	2.34%
6	SERVICE #1	GB	115	6	0.491	0.064	0.113	0.016				6	413.877	3.45	0.97	3.09	116.11	2.59%
7	SERVICE #1	GB	130	6	0.491	0.064	0.128	0.017				4	275.918	2.30	0.28	3.34	115.83	2.79%
8	SERVICE #1	GB	130	6	0.491	0.064	0.128	0.017				2	137.959	1.15	0.14	3.48	116.88	2.90%
9	SERVICE #1	GB	5	6	0.491	0.064	0.005	0.001				8	551.836	4.60	0.22	0.22	119.15	0.02%
10	SERVICE #1	GB	80	6	0.491	0.064	0.079	0.010				6	413.877	3.45	0.28	0.28	118.89	0.23%
11	SERVICE #1	GB	50	6	0.491	0.064	0.054	0.007				4	275.918	2.30	0.40	0.40	118.77	0.33%
12	SERVICE #1	GB	90	6	0.491	0.064	0.086	0.012				2	137.959	1.15	0.10	0.20	118.67	0.41%

**CIRCUIT CKT A VOLTAGE DROP SUMMARY:** MAX VOLTAGE DROP: 2.86% ACCEPTABLE. MIN CKT CKT A BRANCH BREAKER SIZE: 20 AMPS

**CIRCUIT: CKT B**

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES		THIS NODE		BRANCH FROM NODE		LUMINAIRE SUMMARY		NODE VOLTAGE DROP (%)	% VOLTAGE DROP				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	LUMINAIRE QUANTITY	VA	CURRENT (A)			NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)		
1	SERVICE #1	GB	15	4	0.308	0.056	0.009	0.002	BRANCH B	14	965.713	28	1811.424	16.10	0.15	0.15	118.02	0.12%
2	SERVICE #1	GB	5	6	0.491	0.064	0.005	0.001				14	965.713	8.00	0.04	0.18	118.88	0.19%
3	SERVICE #1	GB	205	6	0.491	0.064	0.280	0.038				12	827.754	6.90	0.78	1.50	117.07	1.79%
4	SERVICE #1	GB	115	6	0.491	0.064	0.113	0.016				10	689.756	5.75	0.82	2.72	116.45	2.28%
5	SERVICE #1	GB	130	6	0.491	0.064	0.123	0.016				8	551.836	4.60	0.94	2.67	116.20	2.47%
6	SERVICE #1	GB	115	6	0.491	0.064	0.113	0.016				6	413.877	3.45	0.98	3.42	115.84	3.02%
7	SERVICE #1	GB	140	6	0.491	0.064	0.137	0.018				4	275.918	2.30	0.28	3.37	115.24	3.27%
8	SERVICE #1	GB	90	6	0.491	0.064	0.086	0.012				2	137.959	1.15	0.10	0.20	118.54	0.30%
9	SERVICE #1	GB	125	6	0.491	0.064	0.123	0.016				14	965.713	8.00	0.96	0.96	119.22	0.79%
10	SERVICE #1	GB	115	6	0.491	0.064	0.113	0.016				12	827.754	6.90	0.78	0.89	118.77	0.71%
11	SERVICE #1	GB	80	6	0.491	0.064	0.079	0.010				10	689.756	5.75	0.82	2.12	117.05	1.77%
12	SERVICE #1	GB	50	6	0.491	0.064	0.054	0.007				8	551.836	4.60	0.68	2.87	116.20	2.47%
13	SERVICE #1	GB	85	6	0.491	0.064	0.083	0.011				6	413.877	3.45	0.28	0.28	118.93	0.23%
14	SERVICE #1	GB	130	6	0.491	0.064	0.128	0.017				4	275.918	2.30	0.28	3.52	115.65	2.93%
15	SERVICE #1	GB	115	6	0.491	0.064	0.113	0.016				2	137.959	1.15	0.12	3.25	115.52	3.04%

**CIRCUIT CKT B VOLTAGE DROP SUMMARY:** MAX VOLTAGE DROP: 4.02% ACCEPTABLE. MIN CKT CKT B BRANCH BREAKER SIZE: 20 AMPS

**SERVICE #2**  
VOLTAGE DROP CALCULATIONS  
PROJECT ELECTRICAL DESIGN DATA  
SERVICE VOLTAGE: 120 VOLT  
SYSTEM PHASES: 3 WIRE W/ GND  
CONDUCTOR TYPE: RMC CONDUIT  
POWER FACTOR: 0.9  
MAXIMUM VOLTAGE DROP: 3.00 %

**FEDER CONDUCTORS**

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES		BRANCH FROM NODE		LUMINAIRE SUMMARY		NODE VOLTAGE DROP (%)	% VOLTAGE DROP				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	LUMINAIRE QUANTITY			VA	CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)
1	SERVICE #2	GB	SE-010/R	50	2	0.194	0.031	0.010	0.003	25	1724.4875	14.37	0.38	0.38	118.72	0.24%
2	SERVICE #2	GB								0	0	0.00	0.00	0.00		
3	SERVICE #2	GB								0	0	0.00	0.00	0.00		
4	SERVICE #2	GB								0	0	0.00	0.00	0.00		
5	SERVICE #2	GB								0	0	0.00	0.00	0.00		

**CIRCUIT: CKT A**

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES		THIS NODE		BRANCH FROM NODE		LUMINAIRE SUMMARY		NODE VOLTAGE DROP (%)	% VOLTAGE DROP				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	LUMINAIRE QUANTITY	VA	CURRENT (A)			NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)		
1	SERVICE #2	LP85	20	2	0.194	0.031	0.008	0.002				25	1724.4875	14.37	0.11	0.11	119.80	0.09%
2	SERVICE #2	LP87	80	2	0.194	0.031	0.031	0.008				24	1693.508	13.80	0.43	0.55	119.17	0.46%
3	SERVICE #2	LP84	80	2	0.194	0.031	0.031	0.008				22	1517.681	12.85	0.40	0.58	118.77	0.79%
4	SERVICE #2	LP86	90	2	0.194	0.031	0.019	0.005				20	1379.59	11.80	0.23	1.17	118.54	0.98%
5	SERVICE #2	LP82	90	2	0.194	0.031	0.031	0.005				18	1241.631	10.26	0.20	1.38	118.34	1.15%
6	SERVICE #2	LP81	80	2	0.194	0.031	0.031	0.008				16	1103.672	9.20	0.29	1.87	118.05	1.30%
7	SERVICE #2	LP82	90	2	0.194	0.031	0.031	0.005				14	965.713	8.00	0.16	1.69	117.88	1.50%
8	SERVICE #2	LP83	80	2	0.194	0.031	0.031	0.008				12	827.754	6.90	0.22	2.04	117.88	1.70%
9	SERVICE #2	LP82	240	4	0.308	0.056	0.062	0.011				10	689.756	5.75	1.00	3.89	116.81	2.41%
10	SERVICE #2	LP81	170	4	0.308	0.056	0.105	0.019				8	551.836	4.60	0.47	3.39	116.35	2.80%
11	SERVICE #2	LP82	160	4	0.308	0.056	0.082	0.011				6	413.877	3.45	0.21	3.87	116.15	2.89%
12	SERVICE #2	LP83	100	4	0.308	0.056	0.062	0.011				4	275.918	2.30	0.14	3.71	116.01	3.09%
13	SERVICE #2	LP84	100	4	0.308	0.056	0.062	0.011				2	137.959	1.15	0.07	3.78	115.84	3.15%
14	SERVICE #2	LP84	100	4	0.308	0.056	0.062	0.011				0	0	0.00	0.00	0.00	3.78	3.15%

**CIRCUIT CKT A VOLTAGE DROP SUMMARY:** MAX VOLTAGE DROP: 3.15% ACCEPTABLE. MIN CKT CKT A BRANCH BREAKER SIZE: 20 AMPS

**SERVICE #3**  
VOLTAGE DROP CALCULATIONS  
PROJECT ELECTRICAL DESIGN DATA  
SERVICE VOLTAGE: 120 VOLT  
SYSTEM PHASES: 3 WIRE W/ GND  
CONDUCTOR TYPE: RMC CONDUIT  
POWER FACTOR: 0.9  
MAXIMUM VOLTAGE DROP: 3.00 %

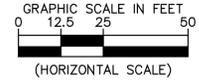
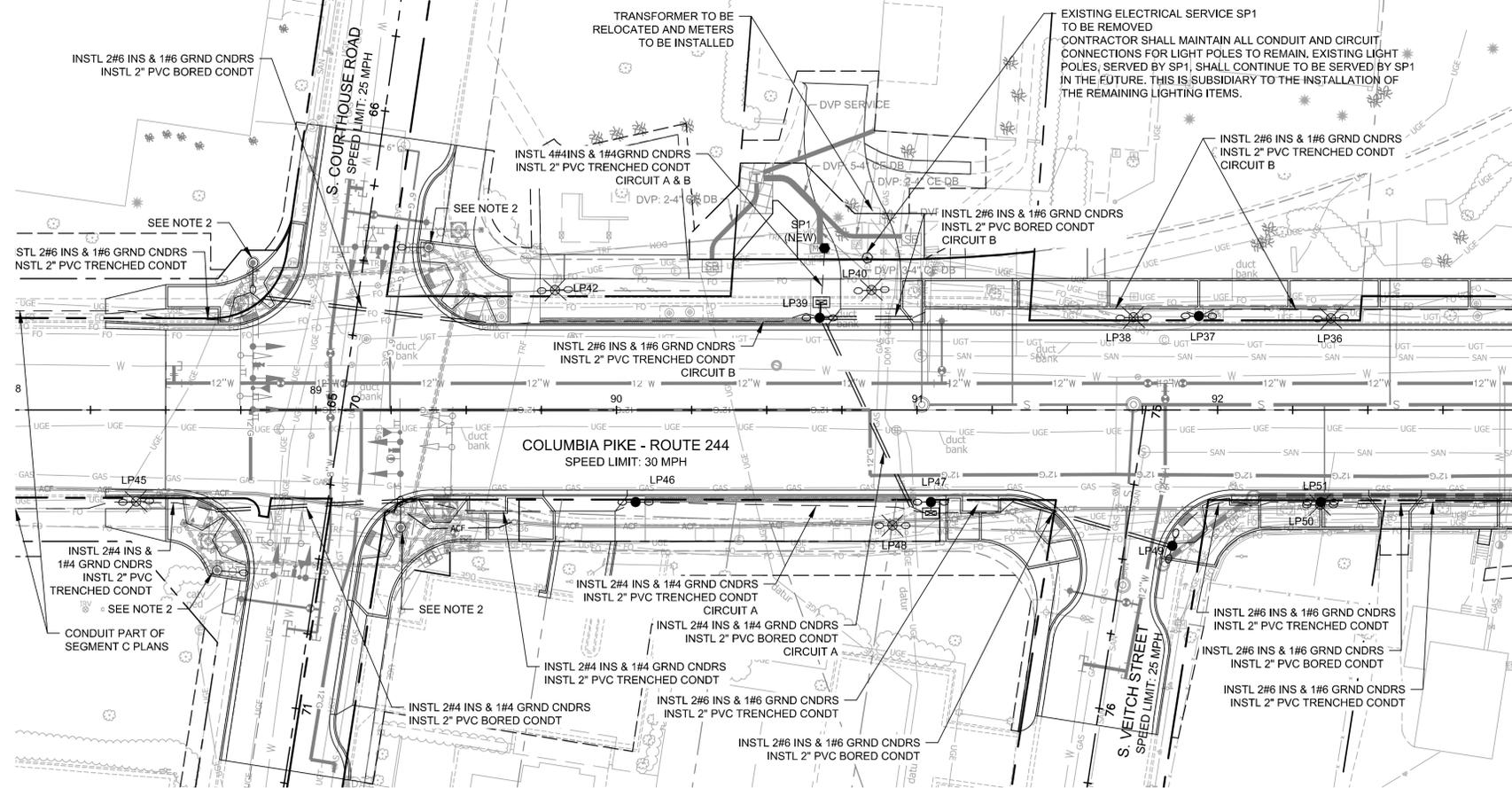
**FEDER CONDUCTORS**

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES		BRANCH FROM NODE		LUMINAIRE SUMMARY		NODE VOLTAGE DROP (%)	% VOLTAGE DROP					
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	LUMINAIRE QUANTITY			VA	CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	
1	SERVICE #3	GB	SE-010/R	50	6	0.491	0.064	0.049	0.008			16	1103.672	9.20	0.43	0.43	119.0





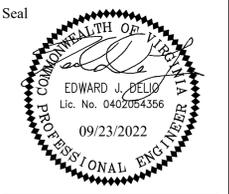




MATCHLINE STA. 93+00 SEE SHEET D

**ARLINGTON VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL SERVICES  
 Facilities & Engineering Division  
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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: BA  
 Drawn: PNH  
 Checked: EJD  
 Miss Utility Transmittal #:

Filename: 010073-D-LITE.dwg  
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 Plotted: September 23, 2022  
 Plotted by: Miguel Tyshing

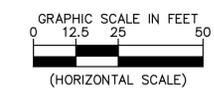
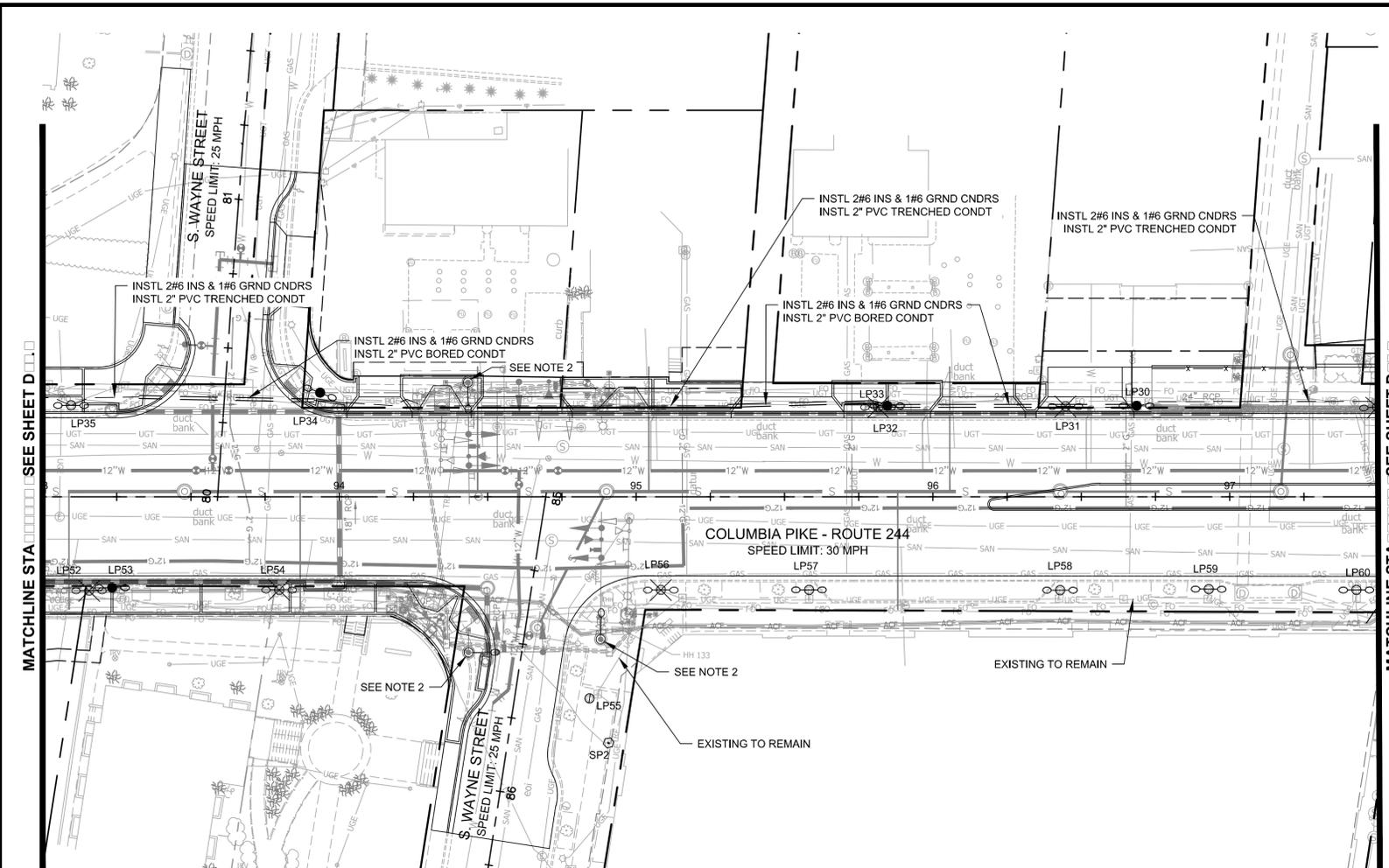
ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**STREET LIGHTING PLAN**  
**COLUMBIA PIKE - ROUTE 244**  
**COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS**  
**SEGMENT D**  
 STA. 88+00 TO STA. 93+00

SCALE: HOR. 1" = 25' VERT. N/A SHEET: D15.7 of D15.14

- LEGEND**
- PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE
  - PROPOSED DOUBLE CARLYLE LED TO BE INSTALLED BY OTHERS
  - EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE
  - EXISTING DOUBLE CARLYLE LED TO REMAIN
  - PROPOSED LED ON PED POLE
  - EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED
  - EXISTING/PROPOSED LUMINAIRE ON TRAFFIC SIGNAL POLE
  - EXISTING SINGLE PHASE ELECTRICAL SERVICE
  - PROPOSED 200 AMP SINGLE PHASE ELECTRICAL SERVICE
  - PROPOSED QUARTZITE JUNCTION BOX
  - EXISTING JUNCTION BOX
  - PROPOSED 2" SCHD 40 PVC CONDUIT
  - PROPOSED 2" SCHD 40 PVC BORED CONDUIT
  - EXISTING CONDUIT

- GENERAL NOTES:**
- PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
  - LUMINAIRE ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.



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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: BA  
 Drawn: PNH  
 Checked: EJD  
 Miss Utility Transmittal #:

Filename: 010073-D-LITE.dwg  
 Path: \\s:\va\2022\09\01 Columbia Pike Multimodal\Production\Task  
 Design\PlanSheet  
 Plotted: September 23, 2022  
 Plotted by: Miguel.Tyshing

**LEGEND**

- PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE
- PROPOSED DOUBLE CARLYLE LED TO BE INSTALLED BY OTHERS
- EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE
- EXISTING DOUBLE CARLYLE LED TO REMAIN
- PROPOSED LED ON PED POLE
- EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED
- EXISTING/PROPOSED LUMINAIRE ON TRAFFIC SIGNAL POLE
- ⬡ EXISTING SINGLE PHASE ELECTRICAL SERVICE
- ⬢ PROPOSED 200 AMPS SINGLE PHASE ELECTRICAL SERVICE
- ⬤ PROPOSED QUARTZITE JUNCTION BOX
- ⬤ EXISTING JUNCTION BOX
- PROPOSED 2" SCHD 40 PVC CONDUIT
- PROPOSED 2" SCHD 40 PVC BORED CONDUIT
- EXISTING CONDUIT

**GENERAL NOTES:**

1. PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
2. LUMINAIRES ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.

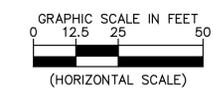
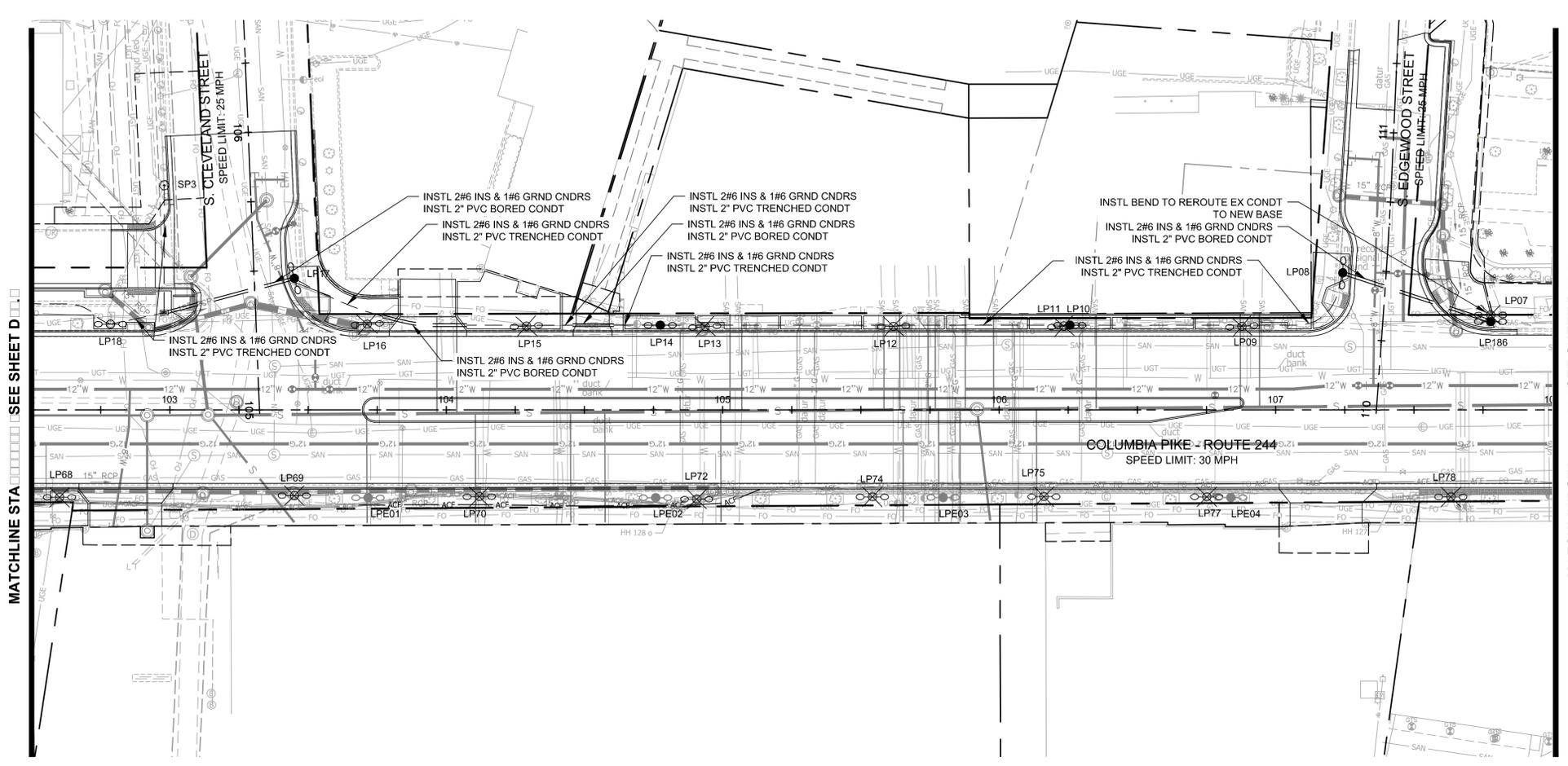
ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**STREET LIGHTING PLAN**  
**COLUMBIA PIKE - ROUTE 244**  
**COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS**  
**SEGMENT D**  
 STA. 93+00 TO STA. 97+50

SCALE: HOR. 1" = 25' VERT. N/A	SHEET: D15.8 of D15.14
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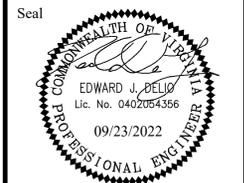






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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_  
 Construction Management Supervisor \_\_\_\_\_  
 Water, Sewer, Streets Bureau Chief \_\_\_\_\_  
 Transportation Director \_\_\_\_\_  
 Project Manager \_\_\_\_\_

Revisions	Date

Designed: BA  
 Drawn: EJD  
 Checked: PNH  
 Miss Utility Transmittal #:

Filename: 010073-D-LITE.dwg  
 Path: \\s-n-a-ar\sv\11810091 Columbia Pike Multimodal\Production\Task  
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 Design\PlanSheet  
 Plotted: September 23, 2022  
 Plotted by: Miguel.Tyshing

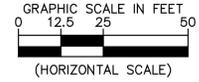
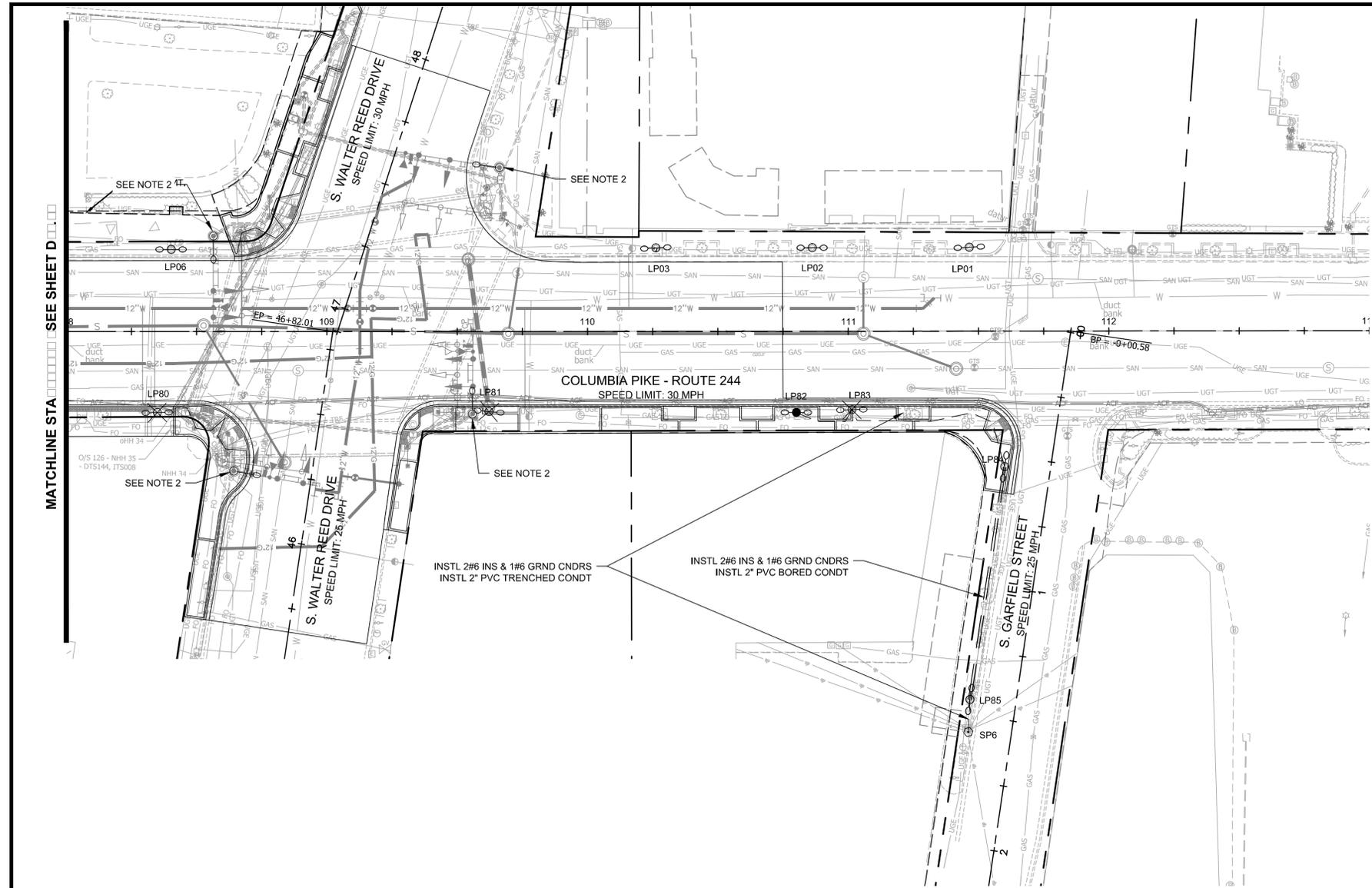
ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**STREET LIGHTING PLAN**  
**COLUMBIA PIKE - ROUTE 244**  
**COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS**  
**SEGMENT D**  
 STA. 102+50 TO STA. 108+00

SCALE: HOR. 1" = 25' VERT. N/A	SHEET: D15.10 of D15.14
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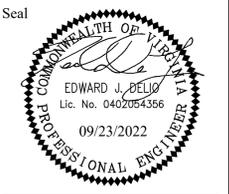
- LEGEND**
- PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE
  - PROPOSED DOUBLE CARLYLE LED TO BE INSTALLED BY OTHERS
  - EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE
  - EXISTING DOUBLE CARLYLE LED TO REMAIN
  - PROPOSED LED ON PED POLE
  - EXISTING CARLYLE LIGHT POLE TO BE REMOVED/RELOCATED
  - EXISTING/PROPOSED LUMINAIRE ON TRAFFIC SIGNAL POLE
  - ⬠ EXISTING SINGLE PHASE ELECTRICAL SERVICE
  - ⬠ PROPOSED 200 AMPS SINGLE PHASE ELECTRICAL SERVICE
  - ⬠ PROPOSED QUARTZITE JUNCTION BOX
  - ⬠ EXISTING JUNCTION BOX
  - PROPOSED 2" SCHD 40 PVC CONDUIT
  - PROPOSED 2" SCHD 40 PVC BORED CONDUIT
  - EXISTING CONDUIT

- GENERAL NOTES:**
- PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
  - LUMINAIRES ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.



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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: BA  
 Drawn: PNH  
 Checked: EJD  
 Miss Utility Transmittal #:

Filename: 010073-D-LITE.dwg  
 Path: \\s-n-a-ar\p\1100091 Columbia Pike Multimodal\Production\Task  
 11 - Final Design of Columbia Pike Segment\Segment 0113.1 - 100%  
 Design\PlanSheet  
 Plotted: September 23, 2022  
 Plotted by: Miguel.Tyshing

**LEGEND**

- PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE
- PROPOSED DOUBLE CARLYLE LED TO BE INSTALLED BY OTHERS
- EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE
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- EXISTING CONDUIT

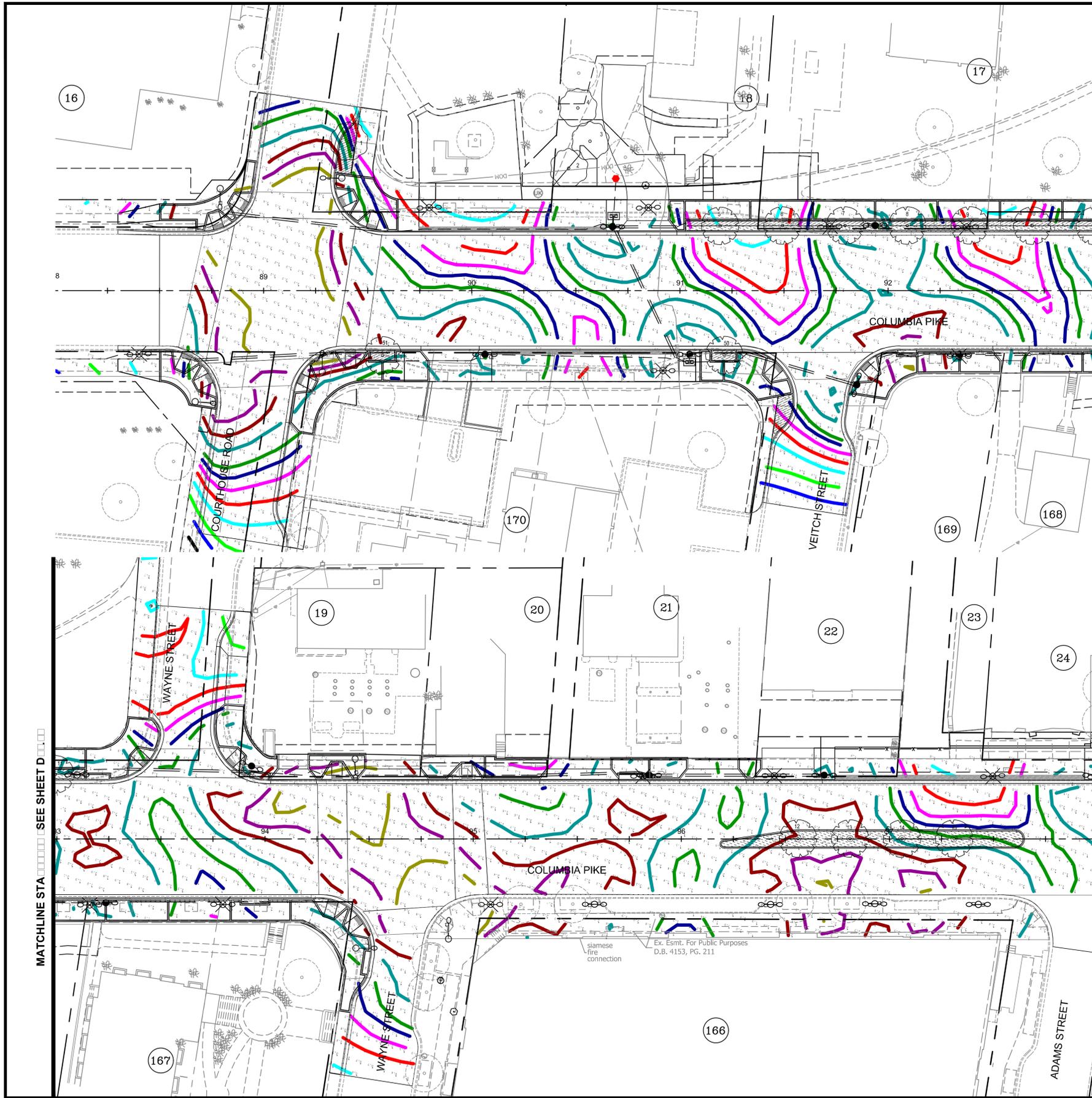
**GENERAL NOTES:**

1. PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
2. LUMINAIRE ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.

ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**STREET LIGHTING PLAN**  
**COLUMBIA PIKE - ROUTE 244**  
**COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS**  
**SEGMENT D**  
 STA. 108+00 TO STA. 113+00

SCALE: HOR. 1" = 25' VERT. N/A	SHEET: D15.11 of D15.14	
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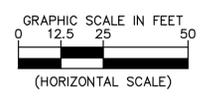


**PHOTOMETRIC LEGEND**

VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2	Black	1.2	Dark Blue
0.3	Blue	1.4	Green
0.4	Light Green	1.8	Teal
0.6	Cyan	2.2	Red
0.8	Red	2.6	Purple
1.0	Magenta	3.0	Olive

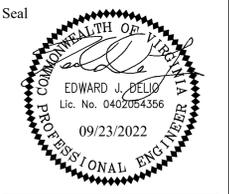
- LEGEND**
- PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE
  - PROPOSED DOUBLE CARLYLE LED TO BE INSTALLED BY OTHERS
  - EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE
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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

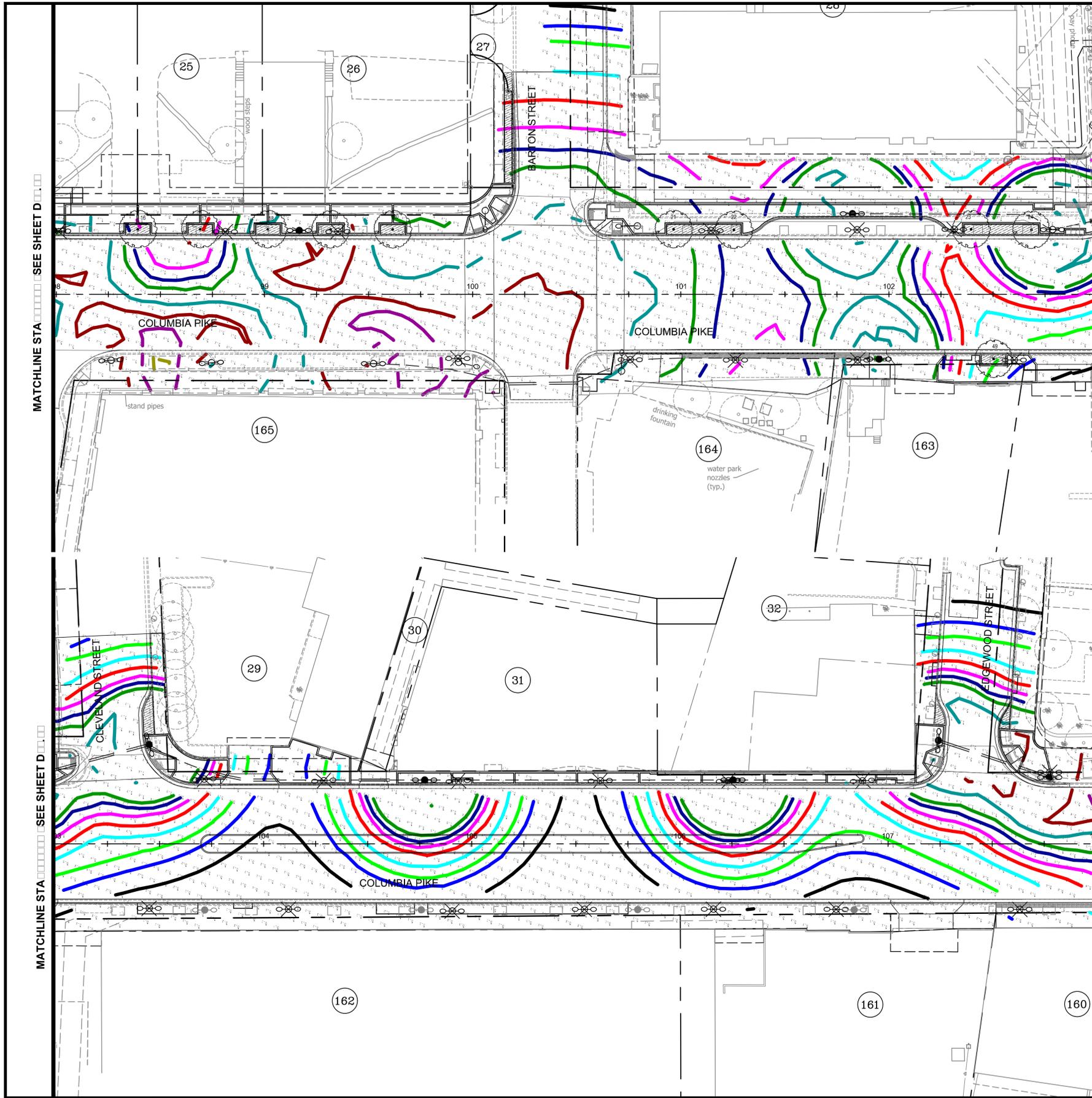
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Drawn: PNH  
Checked: EJD  
Miss Utility Transmittal #:

Filename: 010073-D-PHOTO.dwg  
Path: \\S:\A\2022\11000073 Columbia Pike Multimodal\Production\Task  
Plotted: September 23, 2022  
Plotted by: Miguel.Tyshing

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

**PHOTOMETRIC PLAN**  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D  
STA. 88+00 TO STA. 98+00

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D15.12 of D15.14

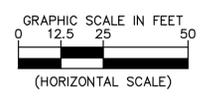


**PHOTOMETRIC LEGEND**

VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2	Black	1.2	Blue
0.3	Blue	1.4	Green
0.4	Green	1.8	Cyan
0.6	Cyan	2.2	Red
0.8	Red	2.6	Purple
1.0	Purple	3.0	Olive

- LEGEND**
- PROPOSED DOUBLE CARLYLE LED ON NEW LIGHT POLE
  - PROPOSED DOUBLE CARLYLE LED TO BE INSTALLED BY OTHERS
  - EXISTING DOUBLE CARLYLE LED ON RELOCATED POLE
  - EXISTING DOUBLE CARLYLE LED TO REMAIN
  - PROPOSED LED ON PED POLE
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  - PROPOSED QUAZITE JUNCTION BOX
  - EXISTING JUNCTION BOX
  - PROPOSED 2" SCHD 40 PVC CONDUIT
  - PROPOSED 2" SCHD 40 PVC BORED CONDUIT
  - EXISTING CONDUIT

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 Miss Utility Transmittal #:  
 Filename: 010073-D-PHOTO.dwg  
 Path: Z:\VA\_A\2022\11010073 Columbia Pike Multimodal\Production\Task  
 Design\Task.dwg  
 Plotted: September 23, 2022  
 Plotted by: Miguel.Tyshing

ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

PHOTOMETRIC PLAN  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D  
 STA. 98+00 TO STA. 108+00

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D15.13 of D15.14

