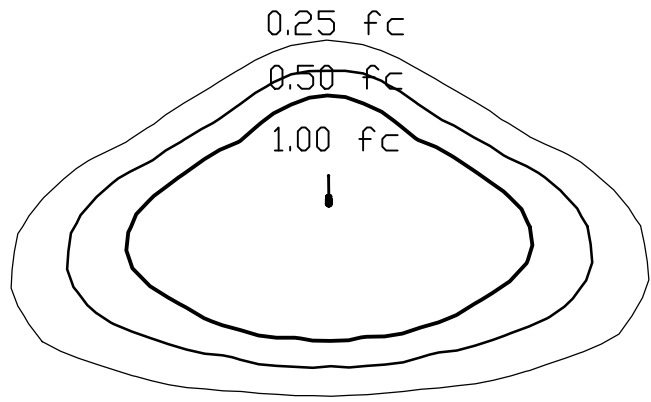


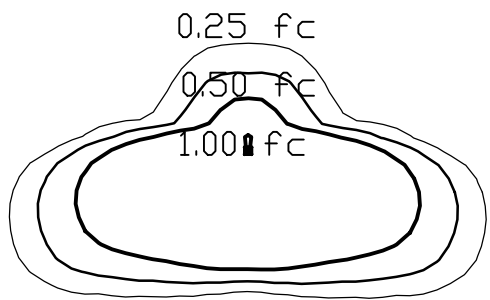
LIGHTING GENERAL NOTES:

1. STREET LIGHTS AND CONDUIT SHALL BE INSTALLED AS DESIGNATED ON THE PLANS. ORNAMENTAL POLES, LIGHTS, AND BASES SHALL BE FURNISHED BY NOLAND COMPANY OR APPROVED EQUAL, 2101 STAPLES MILL ROAD, RICHMOND VA, 23230. FOUNDATIONS SHALL BE HANDOVER POLE FOUNDATION, PER DETAIL SHEET. PEDESTRIAN LUMINAIRES SHALL BE 150 WATT EQUIVALENT LIGHT EMITTING DIODE (LED) WITH 6-IN. TYPE V OPTICS. LUMINAIRE MODEL SHALL BE PHILIPS LIGHTING CHARLESTON (1229) BLACK FINISH, CLEAR ACRYLIC PANEL/GLOBE, MEDIUM SOCKET, 240 V, OR APPROVED EQUAL.
2. PEDESTRIAN LUMINAIRES SHALL BE MOUNTED TO 14’ DECORATIVE BLACK POLE. POLE MODEL SHALL BE PHILIPS LIGHTING ANCHOR BASE POST (316-) OR APPROVED EQUAL.
3. THE CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES (DPU) SHALL FINISH AND INSTALL ELECTRICAL SERVICE AND ALL WIRING FOR LIGHTING CIRCUITS TO PEDESTRIAN LUMINAIRES. CONTRACTOR SHALL COORDINATE WITH GARRICK BAYTON (804-646-7690, 804-317-2816, OR GARRICK.BAYTON@RICHMONDGOV.COM)
4. JUNCTION BOXES SHALL BE NEW BASIS MODEL #PW 1324/12, OR APPROVED EQUAL. JUNCTION BOX COVERS SHALL BE MARKED "LIGHTING".
5. CONDUITS SHOWN ON THESE PLANS ARE DIAGRAMMATIC. ACTUAL CONDUIT RUNS SHALL CONFORM TO FIELD CONDITIONS. CONDUIT SHALL BE INSTALLED ACCORDING TO DETAIL SHEETS. A NYLON PULL-CORD MUST BE PROVIDED IN ALL CONDUIT. CONTRACTOR SHALL BACKFILL TRENCH WITH NO. 21B AGGREGATE AND ASPHALT IN ACCORDANCE WITH TYPICAL PAVEMENT SECTION. CABLES INSIDE OF CONDUIT SHALL BE INSTALLED BY DPU FORCES. CONTRACTOR MUST CONTACT MR. RICHARD MOORE (TEL. # 646-8568) OR MR. KENNY DAVIS (PAGER NO. 783-4855) PRIOR TO INSTALLATION OF STREET LIGHTING ITEMS.
6. CONTRACTOR SHALL CONTACT GARRICK BAYTON (804-646-7690) OR MS. TRACY WRIGHT (804-363-5601) PRIOR TO INSTALLATION OF LIGHTING EQUIPMENT. CERTAIN UTILITIES WITHIN THE VICINITY OF THIS PROJECT AREA ARE SHOWN ON THE PLANS. THE UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATELY LOCATED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES BEFORE PROCEEDING WITH THE WORK.
7. ALL LIGHTING CONDUITS SHALL BE INSTALLED WITH A MINIMUM DEPTH OF 36”.
8. ALL UNDERGROUND CONDUITS SHALL BE SLOPED TO DRAIN TO THE NEAREST JUNCTION BOX. IF THIS CANNOT BE ACCOMPLISHED, DRAINAGE TEES SHALL BE PROVIDED AT THE LOW POINT OF THE CONDUIT RUN. DRAINAGE TEES SHALL BE INCIDENTAL TO CONDUIT.
9. AREAS AROUND THE PROPOSED LIGHTING EQUIPMENT SHALL BE GRADED AS APPROVED BY THE ENGINEER.
10. CONDUITS SHALL BE INSTALLED WITH LARGE RADIUS OFFSETS (5’ MINIMUM RADIUS) TO BYPASS DRAINAGE INLETS, MANHOLES, AND OTHER OBSTRUCTIONS. GROUND RODS SHALL BE INSTALLED AT ALL LIGHT POLE FOUNDATIONS, JUNCTION BOXES, ELECTRICAL SERVICES AND CONTROL CABINETS.
11. ALL ELECTRICAL WORK SHALL BE PERFORMED AND ALL MATERIAL PROVIDED SHALL BE IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
12. THE ELECTRICAL/LIGHTING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED ON THIS PROJECT. THE ELECTRICAL/LIGHTING CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND GENERAL SUPERINTENDENT THE LOCATIONS OF ALL CONDUIT AND POLE BASES TO ELIMINATE CONSTRUCTION CONFLICTS.
13. ALL FIELD CHANGES MUST BE APPROVED BY DPU STREETLIGHT ENGINEER.
14. ALL ELECTRICAL WORK SHALL BE PERFORMED AND ALL MATERIAL PROVIDED SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, TO ALL LOCAL AND SPECIAL LAWS, AND/OR TO ORDINANCES GOVERNING SUCH MATERIAL. CODE SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS FOR THE ELECTRICAL WORK AND IF THERE IS A CONFLICT BETWEEN THE REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS AND THE CODE, THE MORE STRINGENT REQUIREMENT WILL APPLY AS DETERMINED AND APPROVED BY THE ENGINEER. WHEN THESE REQUIREMENTS DO NOT GOVERN, AND WHERE NOT OTHERWISE SPECIFIED, ELECTRICAL MATERIALS SHALL CONFORM TO THE STANDARDIZATION RULES OF THE INSTITUTE OF ELECTRICAL ENGINEERS.
15. CONDUIT IS TO BE 2” (INCH) SCHEDULE 40 PVC. NO MORE THAN TWO 90° BENDS IN A SINGLE CONDUIT RUN.
16. ALL STREET, DRIVEWAY AND ALLEY CROSSINGS ARE TO BE 2-2” CONDUITS CONCRETE ENCASED, WITH A MINIMUM OF 4” OF ENCASEMENT ON TOP, AND 2” ON THE SIDES AND BOTTOM. HANDHOLE REQUIRED ON BOTH ENDS OF CROSSING.
17. ELECTRICAL WARNING TAPE PLACED ON TOP OF ENCASEMENT AND AGAIN AT LEAST 12” ABOVE ENCASEMENT. FOR NON-ENCASED CONDUIT, WARNING TAPE SHOULD BE PLACED AS LEAST 12” ABOVE CONDUIT.
18. SINGLE RUNS OF 2” SCHEDULE 40 PVC FROM POLE BASE TO POLE BASE UNLESS OTHERWISE NOTED.
19. NO RUNS OVER 300’ (FT) WITHOUT A SECONDARY ENCLOSURE.
20. ALL CONNECTIONS TO CITY GRID MUST BE PERFORMED BY DPU STREETLIGHTS.
21. NO ONE SHALL ENTER DPU MANHOLE/SECONDARY ENCLOSURE WITHOUT DPU INSPECTOR PRESENT.
22. INSPECTIONS FOR ALL STAGES OF CONSTRUCTIONS OF POLE BASE MUST BE SCHEDULED 48 HRS PRIOR TO BACKFILL AND/OR CONCRETE POUR. CONTACT DPU STREETLIGHT INSPECTOR, ROBERT PARHAM AT 804-363-3437.
23. ALL FIELD CHANGES MUST BE APPROVED BY DPU STREETLIGHT ENGINEER.
24. HORIZONTAL AND VERTICAL CRITERIA BASED ON IES RP-08-18 CRITERIA FOR LOW AND MEDIUM PEDESTRIAN WALKWAYS (TABLES 12-1, 12-4, 16-2 & 16-3).
25. UNIFORMITY (AVG/MIN) IS A “NOT TO EXCEED” CRITERIA.
26. AVERAGE VALUES SHOULD BE EQUAL TO OR GREATER THAN CRITERIA IN TABLE.
27. MINIMUM VERTICAL ILLUMINATION POINT, TAKE 5 TH ABOVE GRADE, FOR PEDESTRIANS/CYCLISTS TRAVELING IN LISTED DIRECTION AND ROTATED 90 DEGREES. VERTICAL ILLUMINATION POINT CALCULATED FOR FACIAL RECOGNITION PURPOSES. MINIMUM VERTICAL VALUES SHOULD BE GREATER THAN OR EQUAL TO CRITERIA IN TABLE.
28. EXISTING COBRAHEAD LIGHTING ASSUMED TO BE MOUNTED AT 26 FT ABOVE THE ROADWAY.

EXISTING LUMINAIRE ISO LEGEND



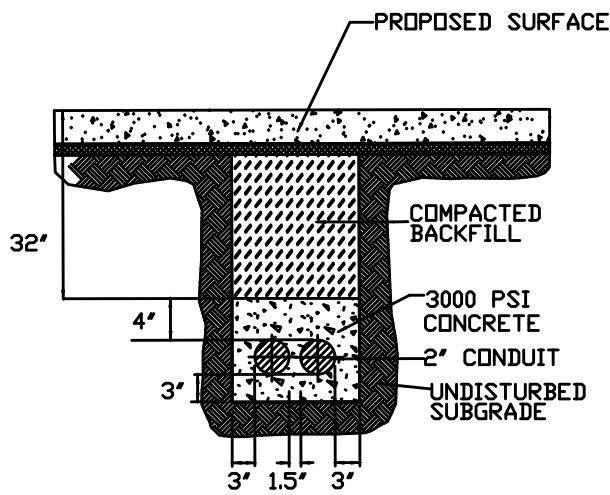
PROPOSED LUMINAIRE ISO LEGEND



INDEX OF SHEETS:

24(1)	GENERAL NOTES & INDEX OF SHEETS
24(2)	LIGHTING DETAILS
24(3) – 24(19)	HORIZONTAL PHOTOMETRICS PLAN SHEETS

Type	Manufacturer	Catalog Number and IES File	Wattage and Type	Initial Lamp Lumens (Lumens)	Mounting Height	Classification
Architectural	Philips Hadco (Baltimore Lantern)	VX68164 - Clear (vx68164-g2-c-3-w5-h.ies)	103W LED	8,462	13	Type III, Cutoff Reflector



STREET LIGHT CONDUIT TRENCH DETAIL (2-2”)

NOT TO SCALE

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of _____, 20____
3. Ordinance Number _____
4. Adopted _____
5. Accepted _____

Existing Legend

Storm Sewer
Sanitary Sewer (sewer)
Gas Line
Electric Line
Overhead Utility
Telephone/Telegraph
Water Line
Property Line
Storm Basin
Storm or Sanitary Manhole
Fire Hydrant / Valve

Water Meter
Existing Curb Cut Ramp
Gas Meter / Valve
Pole
Power/Light Pole
Guy Anchor
Tree

*WM
HCR
*GV
PP
LP
S

Proposed Legend

Sanitary Sewer
Storm/ (San) Manhole
Basin
Curb Cut Ramp
Decorative Light
Conduit
Conduit (Encased)

SDMH
CSMH
S

WM
HCR
GV
PP
LP
S

CITY OF RICHMOND
ESTABLISHED 1771

Technical

Surveys Superintendent
Project Manager
Maintenance Engineer
City Traffic Engineer

Administrative

Capital Project Administrator
City Engineer
Director of Public Works

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

RK&K

Responsive People • Creative Solutions

SHOCKOE VALLEY STREET IMPROVEMENTS
GENERAL LIGHTING NOTES SHEET & LEGEND

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale
DRAWN BY: Alexander
CHECKED BY: ASamberg

REVIEWED BY:

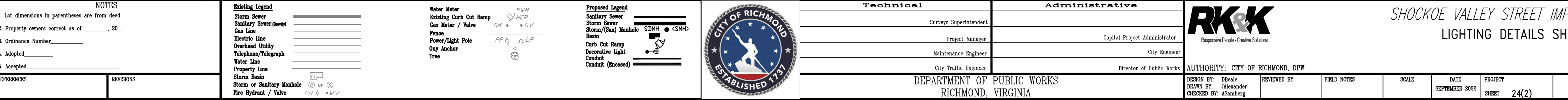
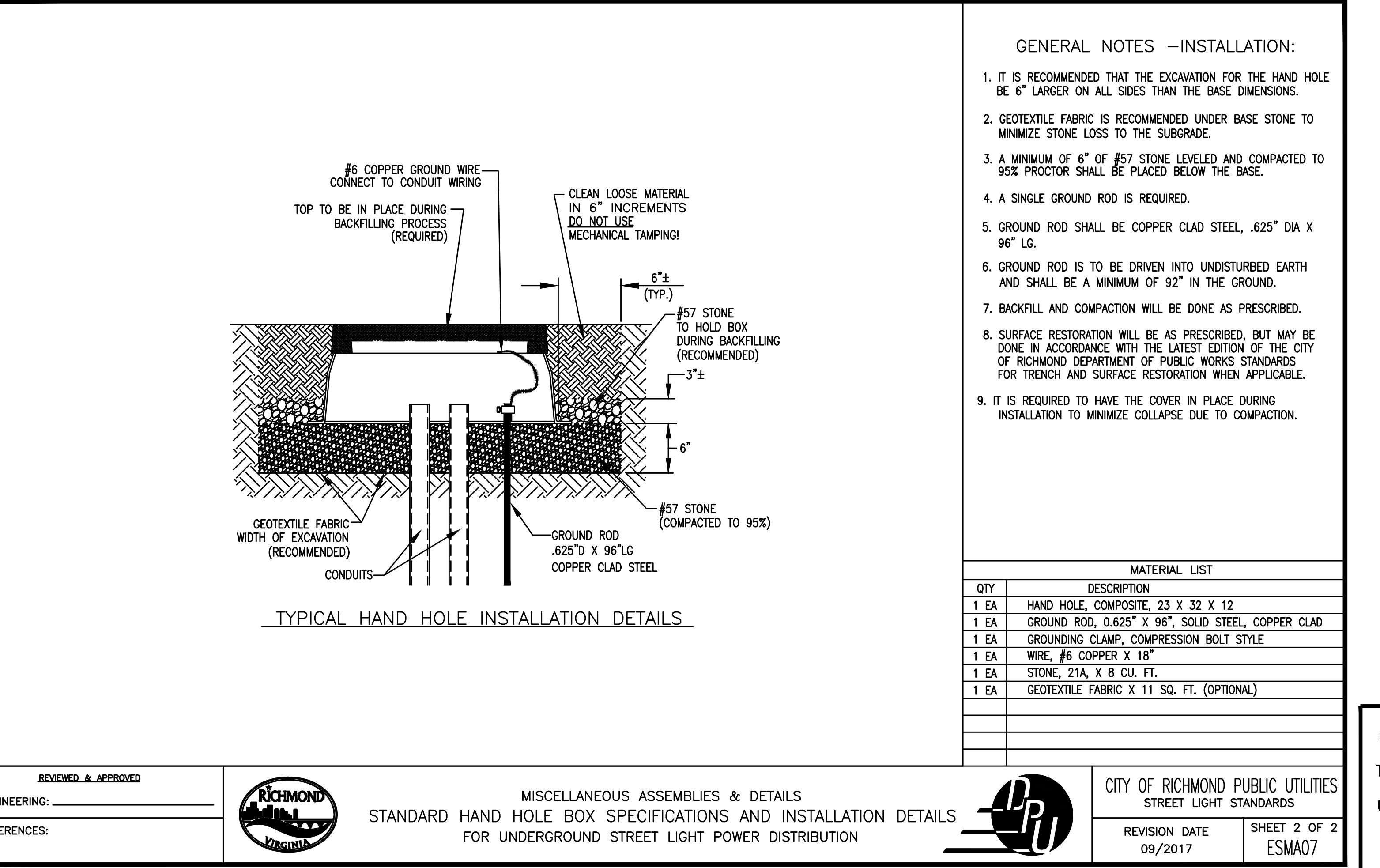
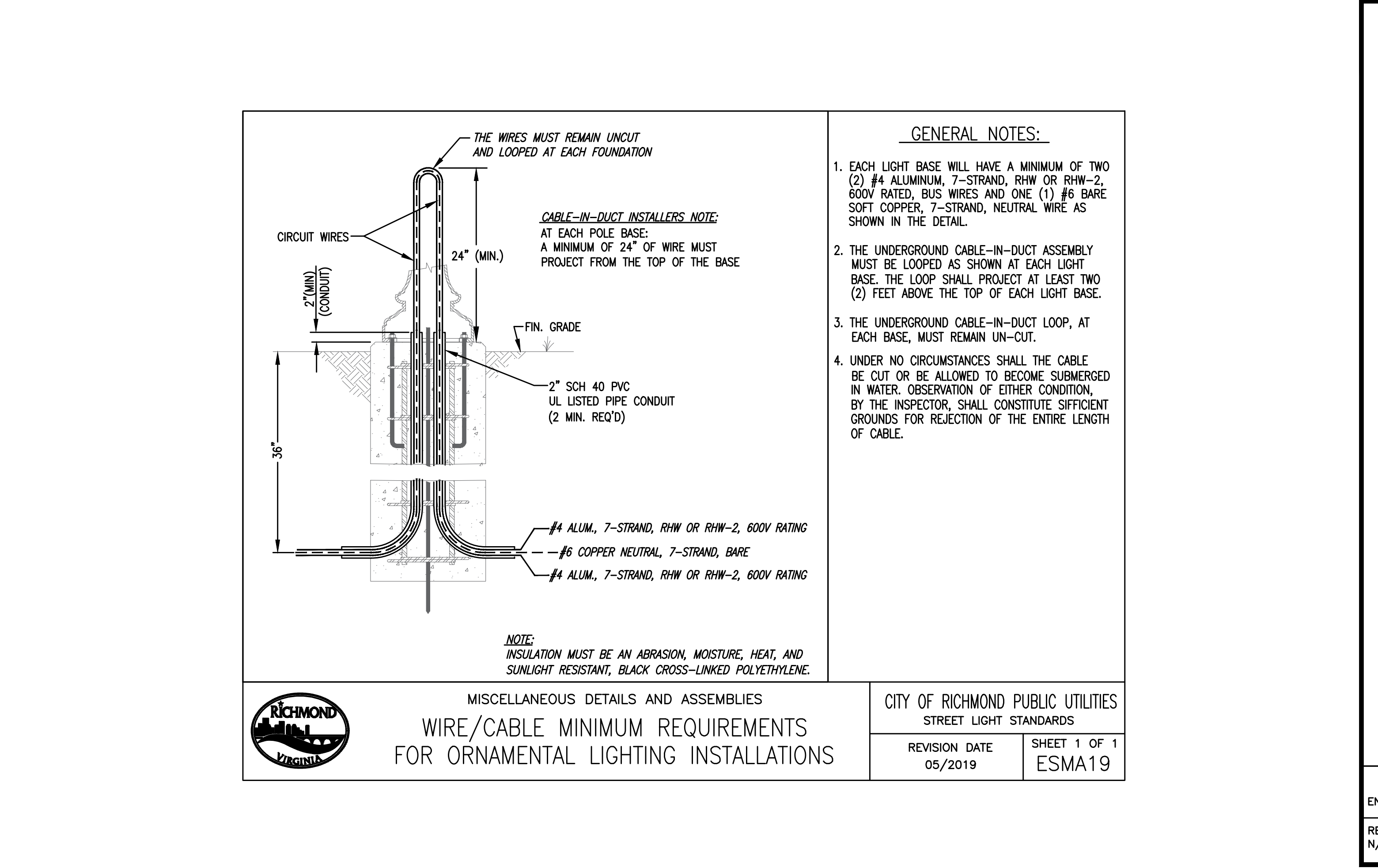
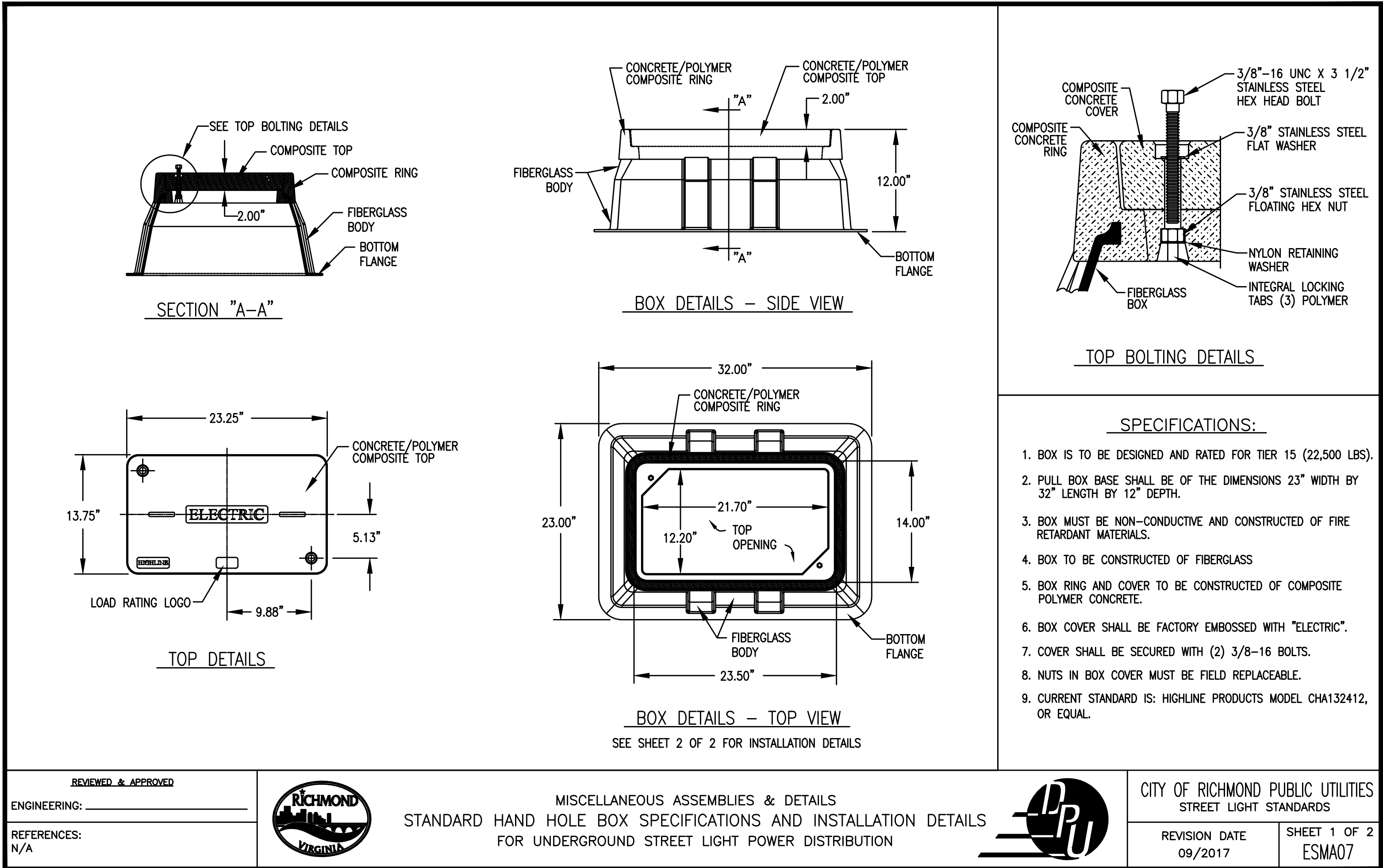
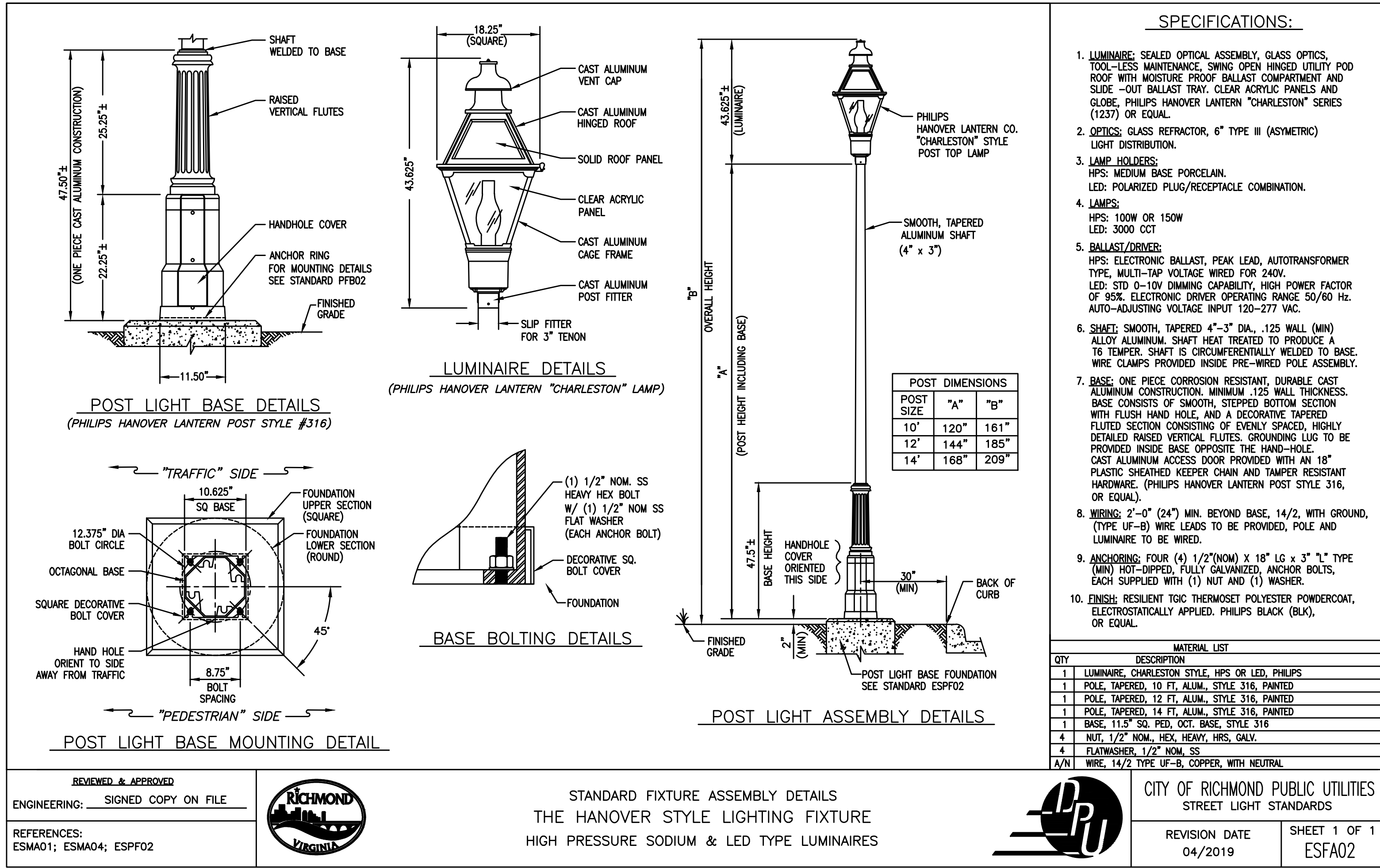
FIELD NOTES

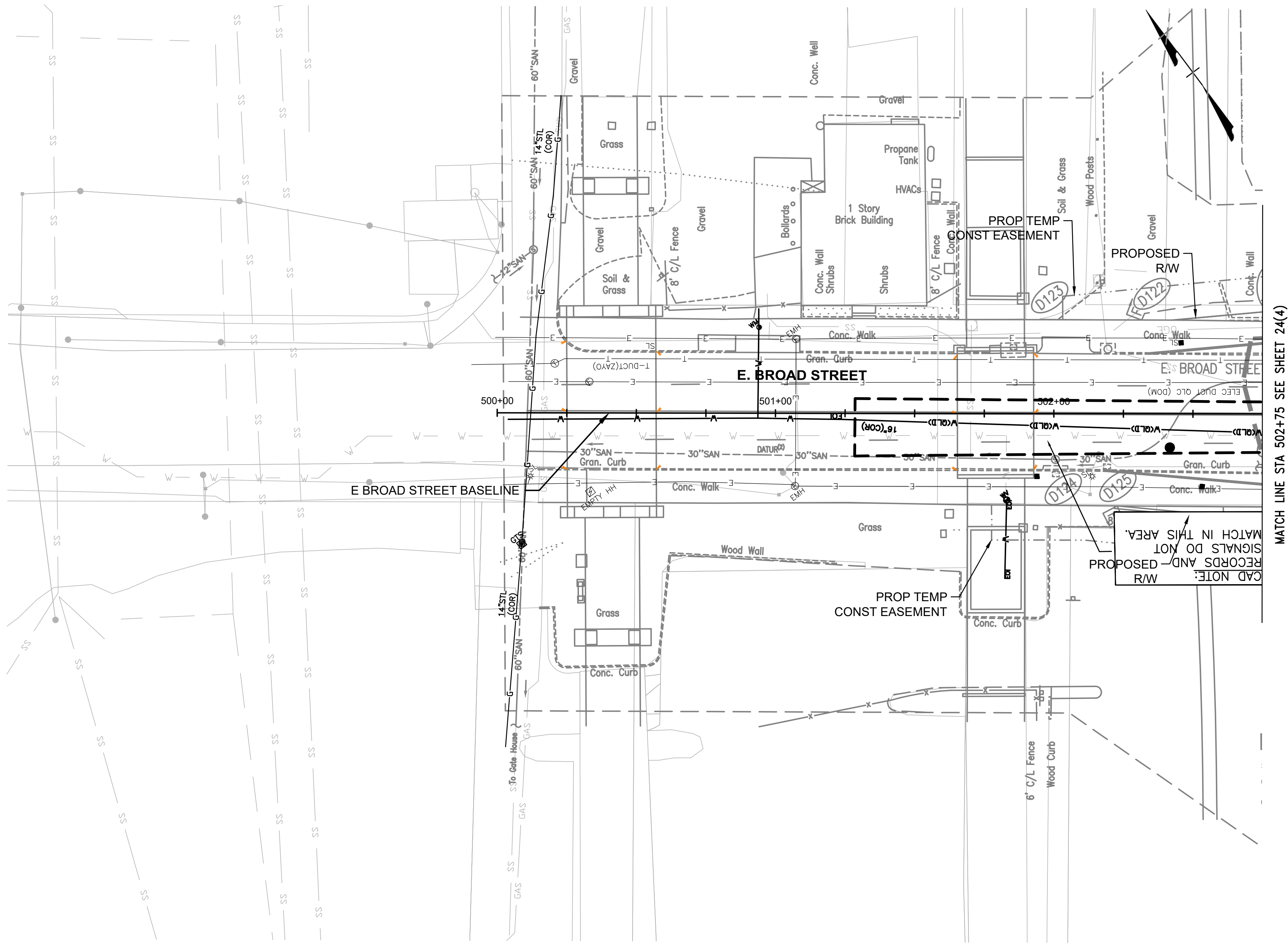
SCALE

DATE
SEPTEMBER 2022

PROJECT
SHEET 24(1)

DRAWING NO.
0-28633





MATCH LINE STA 502+75 SEE SHEET 24(4)

Broad Street (From N 16th Street to N 17th Street)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Mn.	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria	1.5					4.0
Broad St. EB (Western Project Limits to Crane St.)	2.6	7.7	0.7	-	-	3.7
Broad St. WB (Western Project Limits to N 17th St.)	3.0	7.7	0.8	-	-	3.8
Pedestrian Facilities Criteria	0.5			0.2	0.2	4.0
Broad St. EB Sidewalk (Western Project Limits to Crane St.)	1.6	6.7	0.2	0.1	0.1	8.0
Broad St. WB Sidewalk (Western Project Limits to N 17th St.)	1.6	6.5	0.1	0.1	0.0	16.0
END OF PROJECT LIMITS / NO ADJACENT LIGHTING						

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____

Proposed Legend	
Sanitary Sewer	_____
Storm Sewer	_____
Storm/San/ Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit	_____
Conduit (Encased)	_____



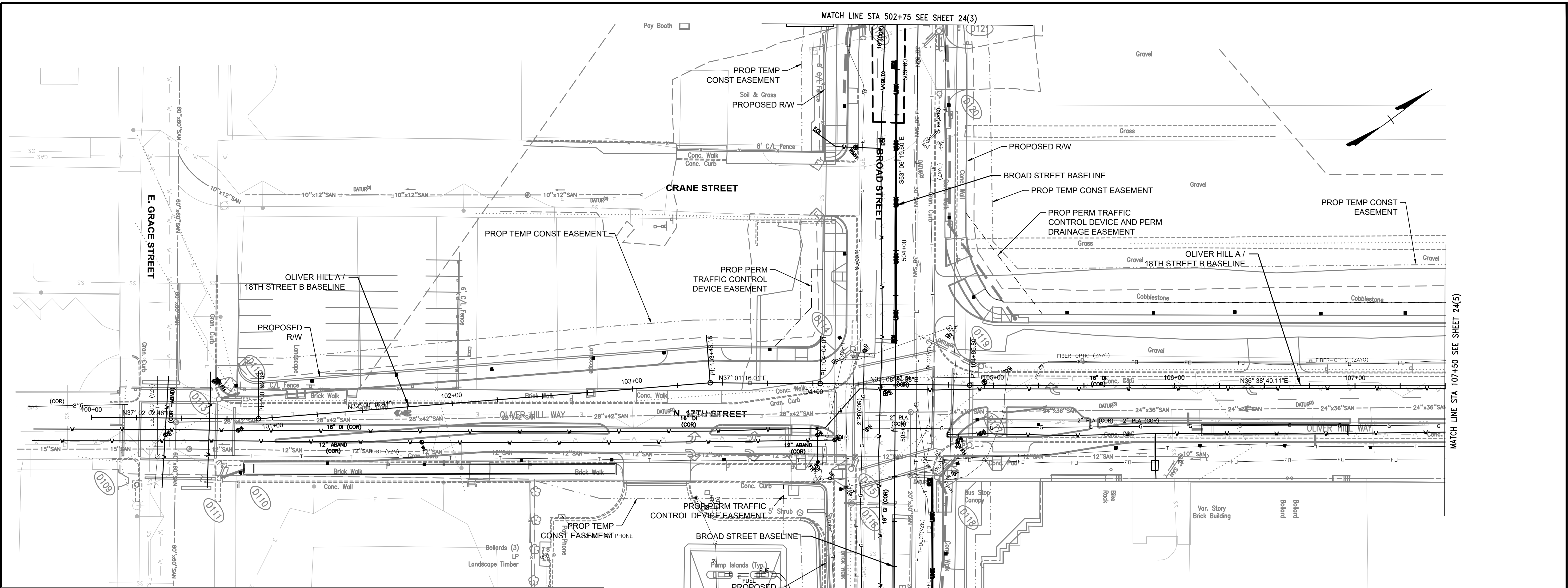
Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

RK&K Responsive People • Creative Solutions		SHOCKOE VALLEY STREET IMPROVEMENTS LIGHTING PLAN SHEET	
AUTHORITY: CITY OF RICHMOND, DPW		DESIGN BY: DBeale	REVIEWED BY:
DRAWN BY: Alexander		FIELD NOTES	SCALE
CHECKED BY: ASamberg		DATE SEPTEMBER 2022	PROJECT SHEET 24(3)
		DRAWING NO. 0-28633	



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



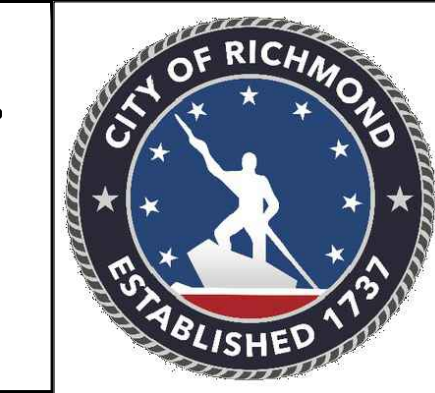
N 17th Street/Oliver Hill Way (Grace Street to Marshall Street)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria	1.5							4.0
Broad St. EB (Western Project Limits to N 17th St.)	2.6	7.7	0.7	-	-	-	-	3.7
Broad St. WB (Western Project Limits to N 17th St.)	3.0	7.7	0.8	-	-	-	-	3.8
Broad St. EB (N 17th St. to N 18th St.)				-	-	-	-	
Broad St. WB (N 17th St. to N 18th St.)				-	-	-	-	
N 17th St. NB (Grace St. to Broad St.)	2.1	3.8	0.7	-	-	-	-	2.9
N 17th St. SB (Grace St. to Broad St.)	4.7	8.2	2.9	-	-	-	-	1.6
Oliver Hill Way NB (Broad St. to Marshall St.)	0.8	3.7	0.3	-	-	-	-	2.5
Oliver Hill Way SB (Broad St. to Marshall St.)	2.7	8.2	0.3	-	-	-	-	9.0
Intersection of N 17th St./Oliver Hill Way/Broad St.	2.0	6.9	0.7	-	-	-	-	2.9
Intersection of N 17th St./Oliver Hill Way/Broad St. - North Leg Crosswalk	2.0	4.4	0.8	-	-	-	-	2.5
Intersection of N 17th St./Oliver Hill Way/Broad St. - East Leg Crosswalk	3.4	8.7	0.7	-	-	-	-	4.9
Intersection of N 17th St./Oliver Hill Way/Broad St. - South Leg Crosswalk	1.9	3.7	1.0	-	-	-	-	1.9
Intersection of N 17th St./Oliver Hill Way/Broad St. - West Leg Crosswalk	1.9	6.2	0.8	-	-	-	-	2.4
Pedestrian Facilities Criteria	0.5			0.2	0.2	0.2	0.2	4.0
Broad St. EB Sidewalk (Western Project Limits to Crane St.)	1.6	6.7	0.2	-	-	0.1	0.1	8.0
Broad St. EB Sidewalk (Crane St. to N 17th St.)				-	-			
Broad St. WB Sidewalk (Western Project Limits to N 17th St.)	1.6	6.5	0.1	-	-	0.1	0.0	16.0
Broad St. EB Sidewalk (N 17th St. to N 18th St.)				-	-			
Broad St. WB Sidewalk (N 17th St. to N 18th St.)				-	-			
N 17th St. NB Sidewalk (Grace St. to Broad St.)	2.6	7.2	0.3			-	-	8.7
N 17th St. SB Sidewalk (Grace St. to Broad St.)	4.5	8.1	1.1			-	-	4.1
Oliver Hill Way NB Sidewalk (Broad St. to Marshall St.)	1.5	8.2	0.2			-	-	7.5
Oliver Hill Way SB Sidewalk (Broad St. to Marshall St.)	2.2	7.2	0.4			-	-	5.5
N 17th St. NB Bike Path (Grace St. to Broad St.)	4.4	8.5	0.3			-	-	14.7
Oliver Hill Way NB Bike Path (Broad St. to Marshall St.)	4.7	8.0	1.0			-	-	4.7
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION								
END OF PROJECT LIMITS / NO ADJACENT LIGHTING								

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Proposed Legend	
Sanitary Sewer	_____
Storm (San) Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____

Proposed Legend	
Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____



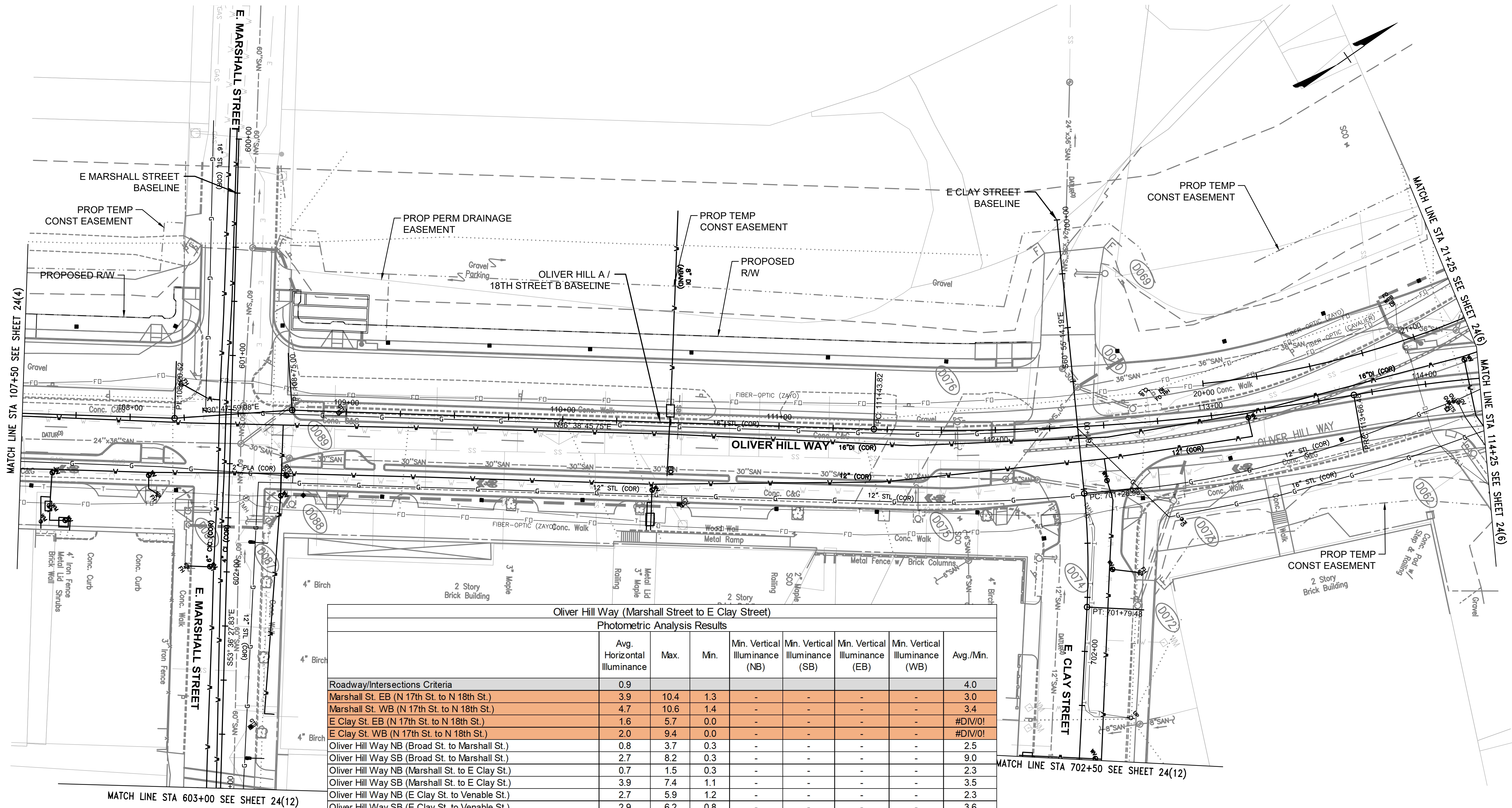
Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

RK&K Responsive People • Creative Solutions		SHOCKOE VALLEY STREET IMPROVEMENTS LIGHTING PLAN SHEET	
AUTHORITY: CITY OF RICHMOND, DPW		DESIGN BY: DBeale	REVIEWED BY: _____
DRAWN BY: Alexander		FIELD NOTES	SCALE
CHECKED BY: ASamberg		DATE SEPTEMBER 2022	PROJECT SHEET 24(4)
		DRAWING NO. 0-28633	



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Oliver Hill Way (Marshall Street to E Clay Street)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria								
Marshall St. EB (N 17th St. to N 18th St.)	0.9							4.0
Marshall St. WB (N 17th St. to N 18th St.)	3.9	10.4	1.3	-	-	-	-	3.0
E Clay St. EB (N 17th St. to N 18th St.)	4.7	10.6	1.4	-	-	-	-	3.4
E Clay St. WB (N 17th St. to N 18th St.)	1.6	5.7	0.0	-	-	-	-	#DIV/0!
Oliver Hill Way NB (Broad St. to Marshall St.)	2.0	9.4	0.0	-	-	-	-	#DIV/0!
Oliver Hill Way SB (Broad St. to Marshall St.)	0.8	3.7	0.3	-	-	-	-	2.5
Oliver Hill Way NB (Marshall St. to E Clay St.)	2.7	8.2	0.3	-	-	-	-	9.0
Oliver Hill Way SB (Marshall St. to E Clay St.)	0.7	1.5	0.3	-	-	-	-	2.3
Oliver Hill Way NB (E Clay St. to Venable St.)	3.9	7.4	1.1	-	-	-	-	3.5
Oliver Hill Way SB (E Clay St. to Venable St.)	2.7	5.9	1.2	-	-	-	-	2.3
I-95 Off-Ramp	2.9	6.2	0.8	-	-	-	-	3.6
Intersection of Oliver Hill Way/Marshall St.	4.4	7.1	2.7	-	-	-	-	1.6
Intersection of Oliver Hill Way/Marshall St. - North Leg Crosswalk	3.0	8.1	0.7	-	-	-	-	4.2
Intersection of Oliver Hill Way/Marshall St. - East Leg Crosswalk	2.5	4.4	1.1	-	-	-	-	2.3
Intersection of Oliver Hill Way/Marshall St. - South Leg Crosswalk	7.1	9.7	4.4	-	-	-	-	1.6
Intersection of Oliver Hill Way/Marshall St. - West Leg Crosswalk	2.0	4.3	0.8	-	-	-	-	2.5
Intersection of Oliver Hill Way/E Clay St.	1.6	3.1	0.7	-	-	-	-	2.3
Intersection of Oliver Hill Way/E Clay St. - East Leg Crosswalk	2.2	6.2	0.6	-	-	-	-	3.6
Intersection of Oliver Hill Way/E Clay St. - South Leg Crosswalk	4.0	7.9	1.7	-	-	-	-	2.4
Pedestrian Facilities Criteria	1.4	3.4	0.3	-	-	-	-	4.7
Marshall St. EB Sidewalk (N 17th St. to N 18th St.)	0.4			0.1	0.1	0.1	0.1	4.0
Marshall St. WB Sidewalk (N 17th St. to N 18th St.)	1.8	3.6	0.9	-	-	-	-	2.0
E Clay St. EB Sidewalk (N 17th St. to N 18th St.)	2.5	6.4	0.8	-	-	-	-	3.1
E Clay St. WB Sidewalk (N 17th St. to N 18th St.)	0.4	1.3	0.0	-	-	-	-	#DIV/0!
Oliver Hill Way NB Sidewalk (Broad St. to Marshall St.)	1.0	5.3	0.0	-	-	-	-	#DIV/0!
Oliver Hill Way SB Sidewalk (Broad St. to Marshall St.)	1.5	8.2	0.4					3.8
Oliver Hill Way NB Sidewalk (Marshall St. to E Clay St.)	2.2	7.2	0.2					11.0
Oliver Hill Way SB Sidewalk (Marshall St. to E Clay St.)	1.8	8.2	0.2					9.0
Oliver Hill Way NB SUP (E Clay St. to Venable St.)	1.4	6.4	0.1					14.0
Oliver Hill Way NB Bike Path (Broad St. to Marshall St.)	2.2	7.8	0.4					5.5
Oliver Hill Way NB Bike Path (Marshall St. to E Clay St.)	4.4	8.5	0.3					14.7
Oliver Hill Way NB Bike Path (Marshall St. to E Clay St.)	5.4	8.8	2.6					2.1
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION								

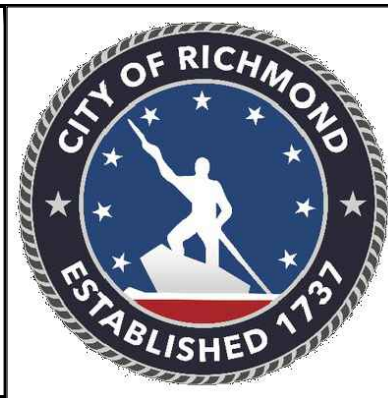


70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION

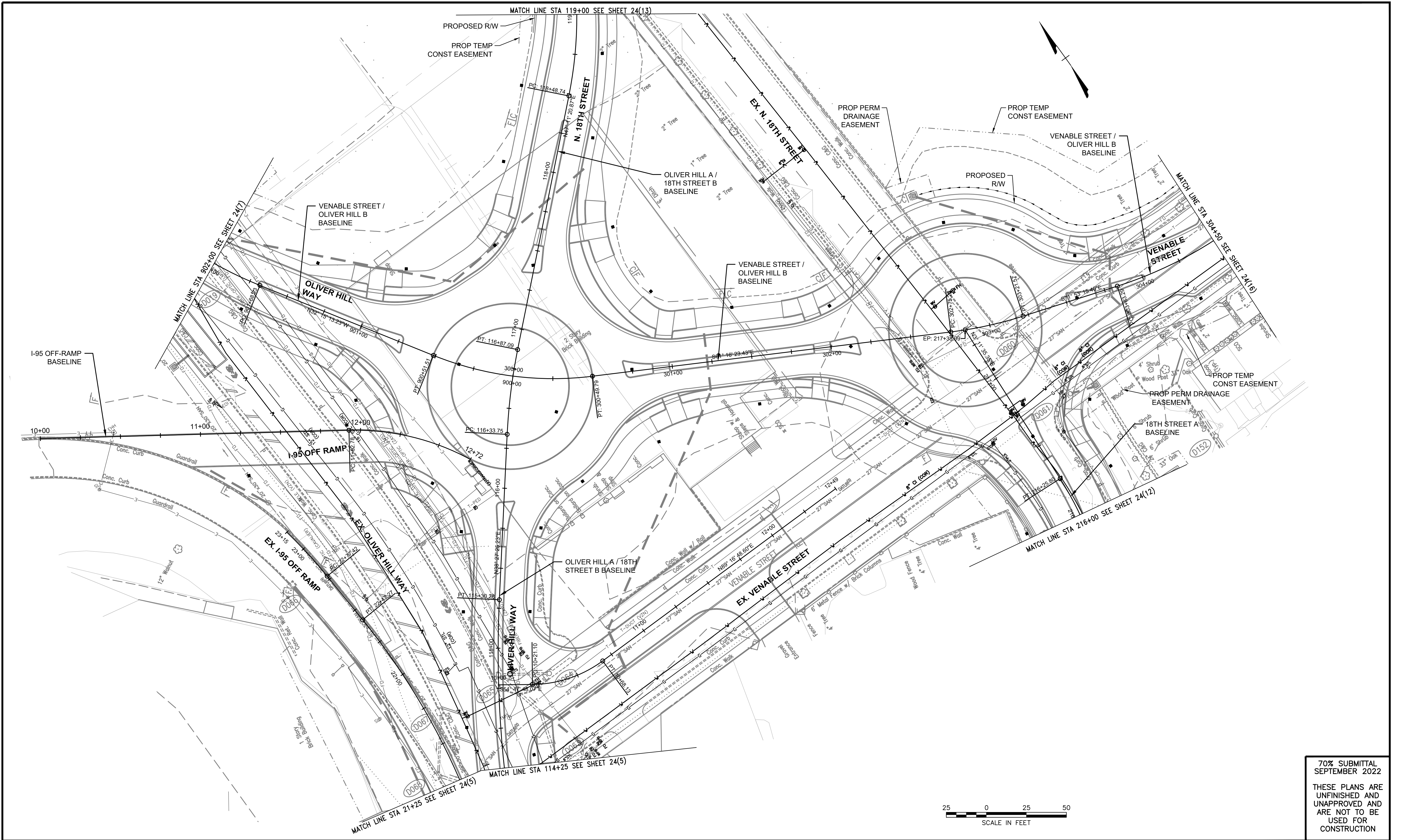
NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (san)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____
Proposed Legend	
Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____
Sanitary Sewer	_____
Storm (San) Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____



Technical		Administrative	
Surveys Superintendent		Capital Project Administrator	
Project Manager		City Engineer	
Maintenance Engineer		Director of Public Works	
City Traffic Engineer			
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA			

RK&K Responsive People • Creative Solutions		SHOCKOE VALLEY STREET IMPROVEMENTS LIGHTING PLAN SHEET	
AUTHORITY: CITY OF RICHMOND, DPW		DESIGN BY: DBeale	REVIEWED BY: _____
DRAWN BY: Alexander		FIELD NOTES	SCALE
CHECKED BY: ASamberg		DATE SEPTEMBER 2022	PROJECT SHEET 24(5)
		DRAWING NO. 0-28633	



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of _____, 20__
3. Ordinance Number _____
4. Adopted _____
5. Accepted _____

REFERENCES

REVISIONS	
-----------	--

Existing Legend

- Storm Sewer
- Sanitary Sewer (san)
- Gas Line
- Electric Line
- Overhead Utility
- Telephone/Telegraph
- Water Line
- Property Line
- Storm Basin
- Storm or Sanitary Manhole
- Fire Hydrant / Valve

Proposed Legend

- Sanitary Sewer
- Storm (San) Manhole
- Basin
- Curb Cut Ramp
- Decorative Light
- Conduit (Encased)

Water Meter

- Existing Curb Cut Ramp
- Gas Meter / Valve
- Fence
- Power/Light Pole
- Guy Anchor
- Tree

Proposed Legend

- Sanitary Sewer
- Storm (San) Manhole
- Basin
- Curb Cut Ramp
- Decorative Light
- Conduit (Encased)

Technical	Administrative
Surveys Superintendent	Capital Project Administrator
Project Manager	City Engineer
Maintenance Engineer	Director of Public Works
City Traffic Engineer	

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

RK&K
Responsive People • Creative Solutions

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(6)	DRAWING NO. 0-28633
-------------------	--------------	-------------	-------	------------------------	------------------------	------------------------

SHOCKOE VALLEY STREET IMPROVEMENTS
LIGHTING PLAN SHEET

Oliver Hill Way (E Clay St. to Venable Street) & Venable St. (Oliver Hill Way to N 18th St.)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria	0.9							4.0
Oliver Hill Way A/18th St. B NB (E Clay St. to Venable St.)	2.7	5.9	1.2	-	-	-	-	2.3
Oliver Hill Way A/18th St. B SB (E Clay St. to Venable St.)	2.9	6.2	0.8	-	-	-	-	3.6
Oliver Hill Way A/18th St. B NB (Venable St. to O St.)	6.4	9.9	3.7	-	-	-	-	1.7
Oliver Hill Way A/18th St. B SB (Venable St. to O St.)	5.4	9.6	2.0	-	-	-	-	2.7
Oliver Hill Way B NB (Venable St. to Brown St.)	2.4	5.3	0.6	-	-	-	-	4.0
Oliver Hill Way B SB (Venable St. to Brown St.)	2.9	7.0	0.5	-	-	-	-	5.8
Venable St. EB (18th St. A to Mosby St.)	2.1	4.4	0.7	-	-	-	-	3.0
Venable St. WB (18th St. A to Mosby St.)	2.0	6.4	0.8	-	-	-	-	2.5
Intersection of Mosby St./Carrington St. - Crosswalk	0.7	1.2	0.4	-	-	-	-	1.8
Roundabout Criteria	0.9							4.0
Oliver Hill Way/Venable St. - North Leg Entrance (Oliver Hill A)	3.7	8.4	1.7	-	-	-	-	2.2
Oliver Hill Way/Venable St. - North Leg Departure (Oliver Hill A)	3.6	5.8	1.9	-	-	-	-	1.9
Oliver Hill Way/Venable St. - North Leg Crosswalk (Oliver Hill A)	4.2	6.7	1.9	-	-	-	-	2.2
Oliver Hill Way/Venable St. - East Leg Entrance	2.2	4.8	0.7	-	-	-	-	3.1
Oliver Hill Way/Venable St. - East Leg Departure	2.4	5.4	0.7	-	-	-	-	3.4
Oliver Hill Way/Venable St. - East Leg Crosswalk	2.9	4.9	1.5	-	-	-	-	1.9
Oliver Hill Way/Venable St. - South Leg Entrance	4.7	8.0	2.3	-	-	-	-	2.0
Oliver Hill Way/Venable St. - South Leg Departure	4.6	6.1	3.3	-	-	-	-	1.4
Oliver Hill Way/Venable St. - South Leg Crosswalk	4.2	7.8	2.6	-	-	-	-	1.6
Oliver Hill Way/Venable St. - West Leg Entrance (Oliver Hill B)	3.5	6.6	0.7	-	-	-	-	5.0
Oliver Hill Way/Venable St. - West Leg Departure (Oliver Hill B)	2.4	6.2	0.3	-	-	-	-	8.0
Oliver Hill Way/Venable St. - West Leg Crosswalk (Oliver Hill B)	2.2	3.7	1.0	-	-	-	-	2.2
Oliver Hill Way/Venable St. - West Leg Entrance (I-95 Off-Ramp)	2.9	6.9	0.2	-	-	-	-	14.5
Oliver Hill Way/Venable St. - West Leg Crosswalk (I-95 Off-Ramp)	2.6	3.2	1.9	-	-	-	-	1.4
Oliver Hill Way/Venable St. - Roundabout	2.2	7.6	0.3	-	-	-	-	7.3
Venable St./N 18th St. - East Leg Entrance	1.7	2.2	0.9	-	-	-	-	1.9
Venable St./N 18th St. - East Leg Departure	3.4	5.6	1.0	-	-	-	-	3.4
Venable St./N 18th St. - East Leg Crosswalk	1.8	5.0	0.8	-	-	-	-	2.3
Venable St./N 18th St. - South Leg Entrance	3.1	5.2	1.5	-	-	-	-	2.1
Venable St./N 18th St. - South Leg Departure	2.0	4.7	0.5	-	-	-	-	4.0
Venable St./N 18th St. - South Leg Crosswalk	1.9	3.4	0.9	-	-	-	-	2.1
Venable St./N 18th St. - West Leg Entrance	2.8	5.9	0.9	-	-	-	-	3.1
Venable St./N 18th St. - West Leg Departure	1.6	2.2	0.7	-	-	-	-	2.3
Venable St./N 18th St. - West Leg Crosswalk	1.3	2.9	0.7	-	-	-	-	1.9
Venable St./N 18th St. - Roundabout	3.4	9.5	1.1	-	-	-	-	3.1
Pedestrian Facilities Criteria	0.4							4.0
Oliver Hill Way A/18th St. B NB SUP (E Clay St. to Venable St.)	2.2	7.8	0.4	-	-	-	-	5.5
Oliver Hill Way A/18th St. B NB SUP (Venable St. to O St.)	3.9	6.4	3.3					1.2
Oliver Hill Way A/18th St. B SB SUP (Venable St. to O St.)	4.1	6.7	2.4					1.7
Venable St./Oliver Hill Way B NB SUP (Brown St. to Oliver Hill Way A)	2.6	8.2	0.2	-	-	-	-	13.0
Venable St./Oliver Hill Way B SB SUP (Brown St. to Oliver Hill Way A)	2.5	8.2	0.3	-	-	-	-	8.3
I-95 Off-Ramp/Oliver Hill Way A/18th Street B SB SUP	1.3	5.8	0.4	-	-	-	-	3.3
Venable St. EB SUP (Between Roundabouts)	2.5	7.9	0.4	-	-	-	-	6.3
Venable St. WB SUP (Between Roundabouts)	3.3	8.3	0.3	-	-	-	-	11.0
Venable St. WB SUP (18th St. to Mosby St.)	2.9	8.3	0.8	-	-	-	-	3.6
Venable St. EB Sidewalk (18th St. to Mosby St.)	3.4	9.1	0.6	-	-	-	-	5.7
18 St. A NB Sidewalk (E Clay St. to Venable St.)	2.8	9.5	0.7	-	-	-	-	4.0
18 St. A SB Sidewalk (E Clay St. to Venable St.)	2.1	7.3	0.6	-	-	-	-	3.5
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION								
END OF PROJECT LIMITS / NO ADJACENT LIGHTING								

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (san/s)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____

Proposed Legend	
Sanitary Sewer	_____
Storm/San) Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____



Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	



RK&K
Responsive People • Creative Solutions

SHOCKOE VALLEY STREET IMPROVEMENTS

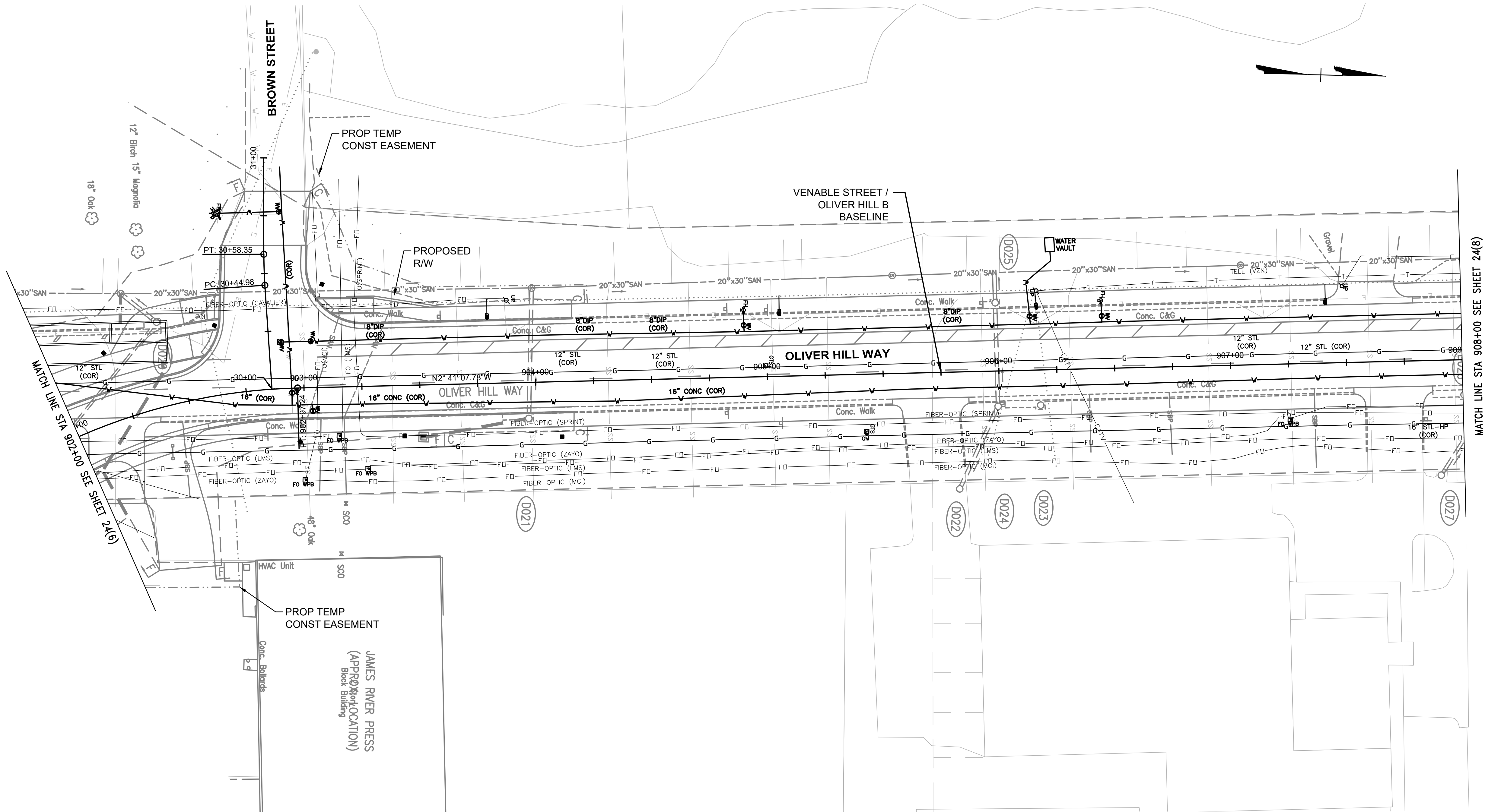
LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(6A)	DRAWING NO. 0-28633
DRAWN BY: Alexander						
CHECKED BY: ASamberg						

70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Oliver Hill Way (Venable St. to O St.)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min.
Roadway/Intersections Criteria	0.9					4.0
Oliver Hill Way B NB (Venable St. to Brown St.)	3.9	6.4	3.3	-	-	1.2
Oliver Hill Way B SB (Venable St. to Brown St.)	4.1	6.7	2.4	-	-	1.7
Oliver Hill Way B NB (Brown St. to O St.)	5.1	8.6	2.1	-	-	2.4
Oliver Hill Way B SB (Brown St. to O St.)	0.9	6.3	0.4	-	-	2.3
Intersection of Oliver Hill Way/Brown St.	2.8	7.3	0.6	-	-	4.7
Intersection of Oliver Hill Way/Brown St. - Crosswalk	4.9	7.7	3.1	-	-	1.6
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Venable St./Oliver Hill Way B NB SUP (Brown St. to Oliver Hill Way A)	2.6	8.2	0.2			13.0
Venable St./Oliver Hill Way B SB SUP (Brown St. to Oliver Hill Way A)	2.5	8.2	0.3			8.3

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____
Proposed Legend	
Sanitary Sewer	_____
Storm (San) Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____

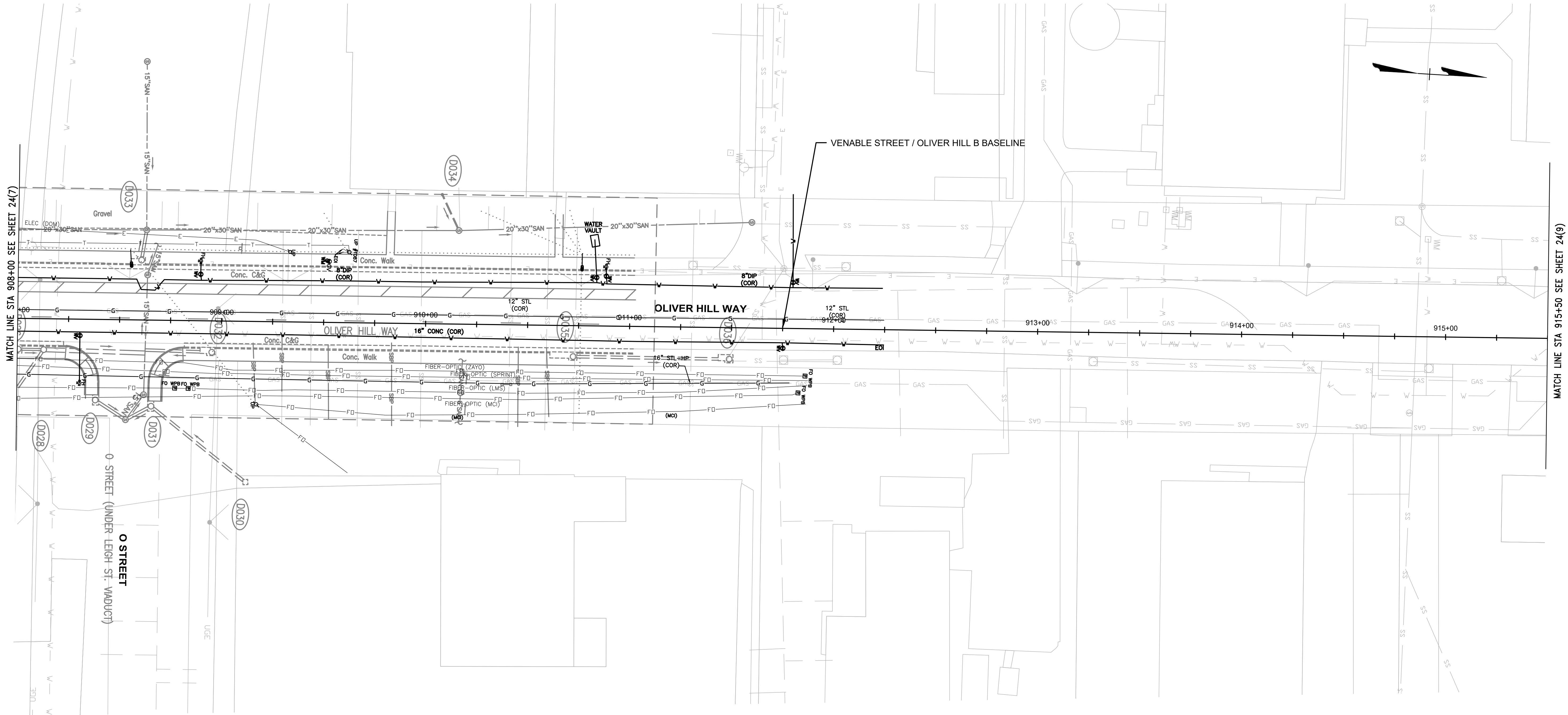


Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

RK&K Responsive People • Creative Solutions		SHOCKOE VALLEY STREET IMPROVEMENTS LIGHTING PLAN SHEET	
AUTHORITY: CITY OF RICHMOND, DPW		DESIGN BY: DBeale	REVIEWED BY: _____
DRAWN BY: Alexander		FIELD NOTES	SCALE
CHECKED BY: ASamberg		DATE SEPTEMBER 2022	PROJECT SHEET 24(7)
		DRAWING NO. 0-28633	



70% SUBMITTAL
SEPTEMBER 2022
THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Oliver Hill Way (O St. to Coalter St.)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Mn.	Mn. Vertical Illuminance (NB)	Mn. Vertical Illuminance (SB)	Avg./Mn.
Roadway/Intersections Criteria	0.9					4.0
Oliver Hill Way NB (Brown St. to O St.)	5.1	8.6	2.1	-	-	2.4
Oliver Hill Way SB (Brown St. to O St.)	0.9	6.3	0.4	-	-	2.3
Oliver Hill Way NB (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way SB (O St. to Coalter St.)	-	-	-	-	-	-
Intersection of O St.	-	-	-	-	-	-
Intersection of O St. - Crosswalk	-	-	-	-	-	-
Pedestrian Facilities Criteria	0.5			0.2	0.2	4.0
Oliver Hill Way NB Sidewalk (Brown St. to O St.)	5.1	8.6	2.1	-	-	2.4
Oliver Hill Way SB Sidewalk (Brown St. to O St.)	-	-	-	-	-	-
Oliver Hill Way NB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way SB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way SB Bike Path (Brown St. to O St.)	-	-	-	-	-	-
Oliver Hill Way SB Bike Path (O St. to Coalter St.)	-	-	-	-	-	-
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION						



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION

NOTES

- Lot dimensions in parentheses are from deed.
- Property owners correct as of _____, 20__
- Ordinance Number _____
- Adopted _____
- Accepted _____

Existing Legend

- Storm Sewer
- Sanitary Sewer (san)
- Gas Line
- Electric Line
- Overhead Utility
- Telephone/Telegraph
- Water Line
- Property Line
- Storm Basin
- Storm or Sanitary Manhole
- Fire Hydrant / Valve

Proposed Legend

- Water Meter
- Existing Curb Cut Ramp
- Gas Meter / Valve
- Fence
- Power/Light Pole
- Guy Anchor
- Tree

City of Richmond

ESTABLISHED 1771

Technical

Surveys Superintendent

Project Manager

Maintenance Engineer

City Traffic Engineer

Administrative

Capital Project Administrator

City Engineer

Director of Public Works

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

RK&K

Responsive People • Creative Solutions

SHOCKOE VALLEY STREET IMPROVEMENTS

LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale
DRAWN BY: Alexander
CHECKED BY: ASamberg

REVIEWED BY:

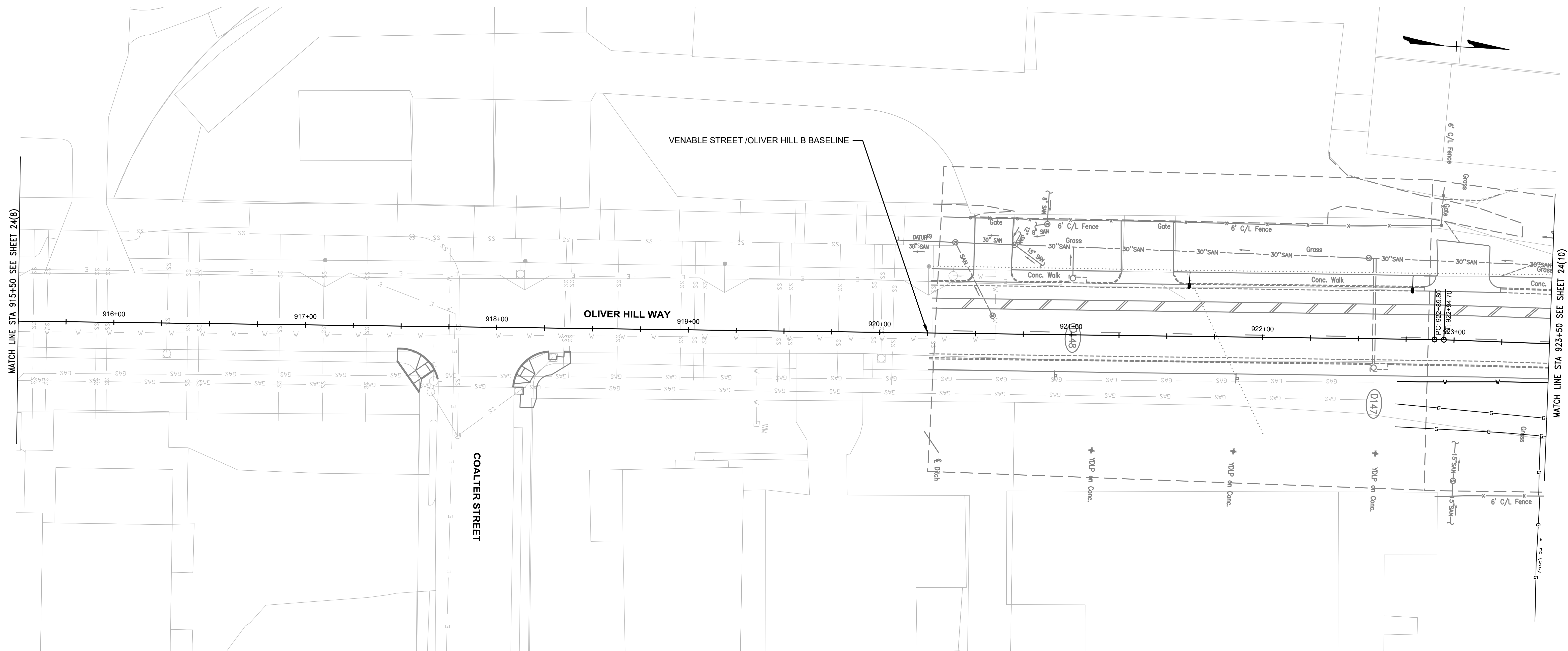
FIELD NOTES

SCALE

DATE
SEPTEMBER 2022

PROJECT
SHEET 24(8)

DRAWING NO.
0-28633



Oliver Hill Way (Coalter St. to Balding St.)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min
Roadway/Intersections Criteria	0.90					4.00
Oliver Hill Way NB (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way SB (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way NB (Coalter St. to Balding St.)	-	-	-	-	-	-
Oliver Hill Way SB (Coalter St. to Balding St.)	-	-	-	-	-	-
Intersection of Coalter St.	-	-	-	-	-	-
Intersection of Coalter St. - Crosswalk	-	-	-	-	-	-
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Oliver Hill Way NB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way SB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way NB Sidewalk (Coalter St. to Balding St.)	-	-	-	-	-	-
Oliver Hill Way SB Sidewalk (Coalter St. to Balding St.)	-	-	-	-	-	-
Oliver Hill Way SB Bike Path (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way SB Bike Path (Coalter St. to Balding St.)	-	-	-	-	-	-
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION						

A horizontal scale bar with markings at 25, 0, 25, and 50. The bar is divided into segments: the first 25-foot segment is black and white checkered, the next 25-foot segment is solid black, and the final 50-foot segment is solid white. The text "SCALE IN FEET" is centered below the bar.

70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION

NOTES 1. Lot dimensions in parentheses are from deed. 2. Property owners correct as of _____, 20__. 3. Ordinance Number_____ 4. Adopted_____ 5. Accepted_____		Existing Legend <
---	--	--



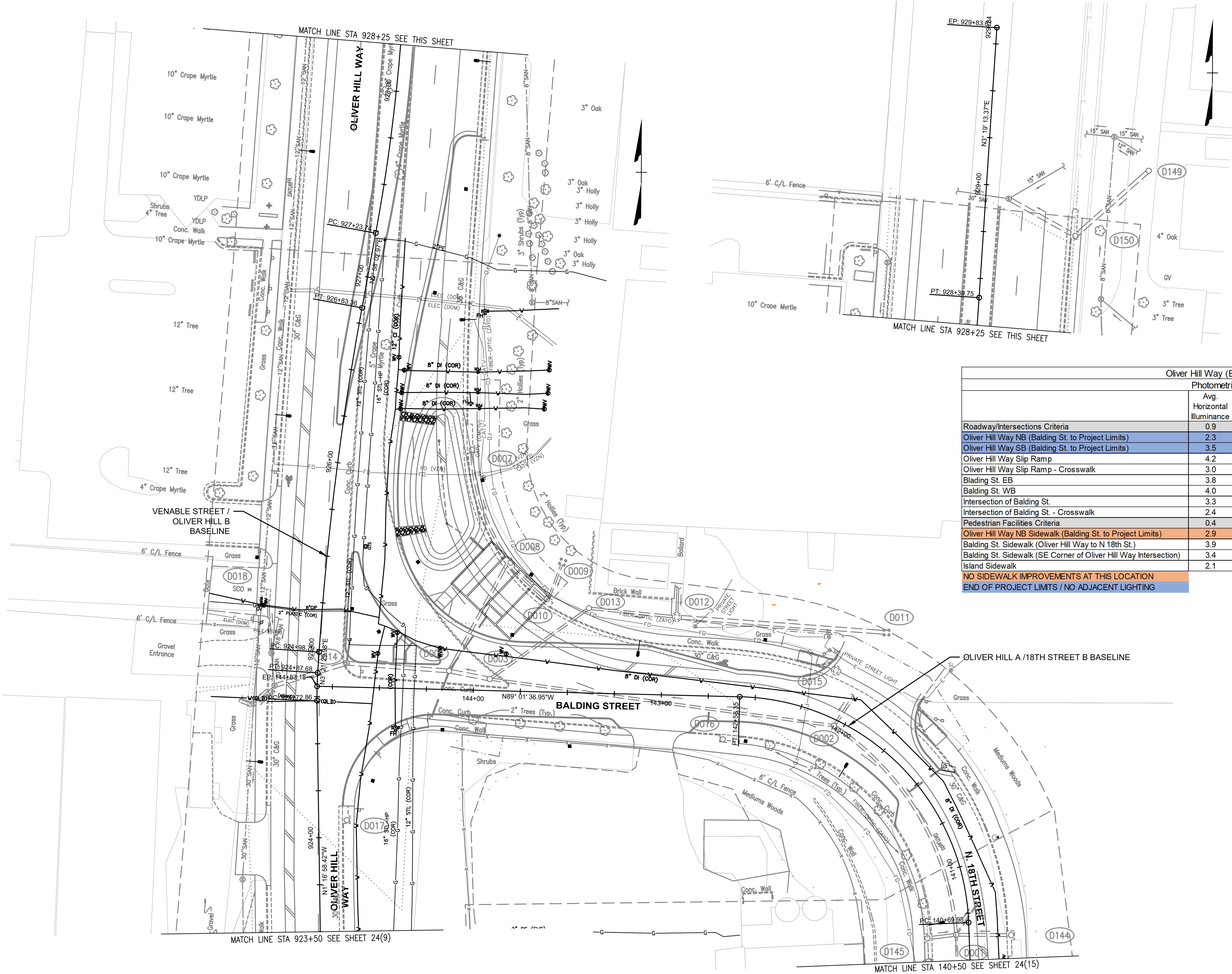
Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	



SHOCKOE VALLEY STREET IMPROVEMENTS

LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW						
DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE	PROJECT	DRAWING NO.
DRAWN BY: JAlexander				SEPTEMBER 2022	SHEET 24(9)	0-28633
CHECKED BY: ASamberg						



Oliver Hill Way (Balding St. Project Limits)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria	0.9							4.0
Oliver Hill Way NB (Balding St. to Project Limits)	2.3	4.4	1.4	-	-	-	-	1.6
Oliver Hill Way SB (Balding St. to Project Limits)	3.5	9.5	1.3	-	-	-	-	2.7
Oliver Hill Way Slip Ramp	4.2	9.5	0.9	-	-	-	-	4.7
Oliver Hill Way Slip Ramp - Crosswalk	3.0	3.1	2.8	-	-	-	-	1.1
Blading St. EB	3.8	9.3	1.7	-	-	-	-	2.3
Balding St. WB	4.0	9.5	2.4	-	-	-	-	1.7
Intersection of Balding St.	3.3	8.1	1.5					2.2
Intersection of Balding St. - Crosswalk	2.4	2.7	2.3	-	-	-	-	1.0
Pedestrian Facilities Criteria	0.4			0.1	0.1	0.1	0.1	4.0
Oliver Hill Way NB Sidewalk (Balding St. to Project Limits)	2.9	6.5	0.6	-	-	-	-	4.8
Balding St. Sidewalk (Oliver Hill Way to N 18th St.)	3.9	8.5	1.7	-	-	-	-	2.3
Balding St. Sidewalk (SE Corner of Oliver Hill Way Intersection)	3.4	8.4	1.2	-	-	-	-	2.8
Island Sidewalk	2.1	3.9	1.3	-	-	-	-	1.6
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION								
END OF PROJECT LIMITS / NO ADJACENT LIGHTING								

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of _____, 20__
3. Ordinance Number _____
4. Adopted _____
5. Accepted _____

REFERENCES	REVISIONS

Existing Legend

- Storm Sewer
- Sanitary Sewer (sewer)
- Gas Line
- Electric Line
- Overhead Utility
- Telephone/Telegraph
- Water Line
- Property Line
- Storm Basin
- Storm or Sanitary Manhole
- Fire Hydrant / Valve

Proposed Legend

- Water Meter
- Existing Curb Cut Ramp
- Gas Meter / Valve
- Fence
- Power/Light Pole
- Guy Anchor
- Tree

City of Richmond

ESTABLISHED 1771

Technical	Administrative
Surveys Superintendent	Capital Project Administrator
Project Manager	City Engineer
Maintenance Engineer	Director of Public Works
City Traffic Engineer	

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA



Responsive People • Creative Solutions

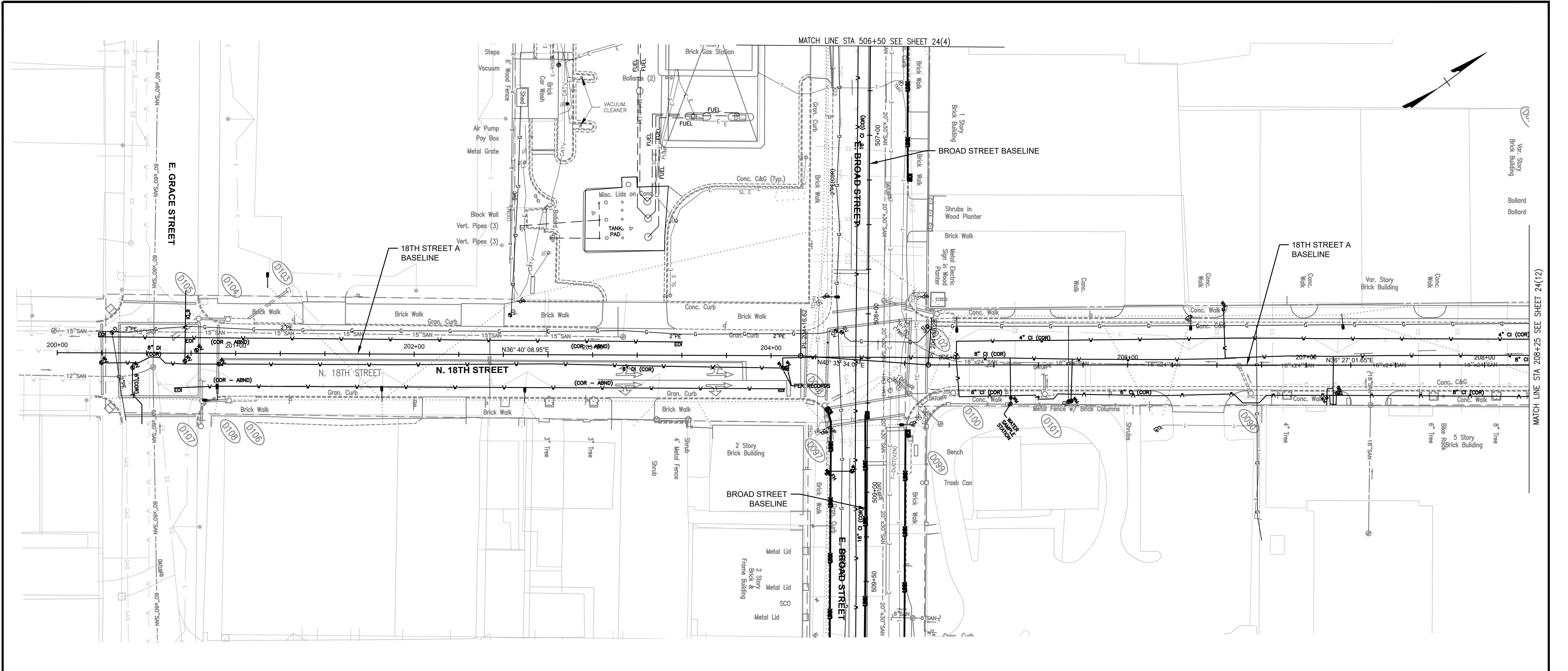
SHOCKOE VALLEY STREET IMPROVEMENTS

LIGHTING PLAN SHEET

70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(10)	DRAWING NO. 0-28633
-------------------	--------------	-------------	-------	------------------------	-------------------------	------------------------



N 18th Street (Grace Street to Marshall Street)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (VB)	Avg./Min.
Roadway/Intersections Criteria	0.9							4.0
Broad St. EB (N 17th St. to N 18th St.)	2.6	9.7	0.1	-	-	-	-	26.0
Broad St. WB (N 17th St. to N 18th St.)	1.4	7.2	0.1	-	-	-	-	14.0
N 18th St. NB (Grace St. to Broad St.)	4.0	11.3	0.2	-	-	-	-	20.0
N 18th St. SB (Grace St. to Broad St.)	2.5	7.6	0.2	-	-	-	-	12.5
N 18th St. NB (Broad St. to Marshall St.)	2.3	5.7	0.8	-	-	-	-	2.9
N 18th St. SB (Broad St. to Marshall St.)	4.2	9.7	0.7	-	-	-	-	5.9
Intersection of N 18th St./Broad St.	5.3	7.8	2.9	-	-	-	-	1.8
Intersection of N 18th St./Broad St. - North Leg Crosswalk	5.2	6.8	3.7	-	-	-	-	1.4
Intersection of N 18th St./Broad St. - East Leg Crosswalk	6.2	10.2	1.8	-	-	-	-	3.4
Intersection of N 18th St./Broad St. - South Leg Crosswalk	2.1	4.3	1.0	-	-	-	-	2.1
Intersection of N 18th St./Broad St. - West Leg Crosswalk	6.2	10.2	2.8	-	-	-	-	2.2
Pedestrian Facilities Criteria	0.5			0.2	0.2	0.2	0.2	4.0
Broad St. EB Sidewalk (N 17th St. to N 18th St.)	2.0	6.4	0.1	-	-	-	-	19.5
Broad St. WB Sidewalk (N 17th St. to N 18th St.)	1.1	6.2	0.1	-	-	-	-	11.0
N 18th St. NB Sidewalk (Grace St. to Broad St.)	2.1	10.4	0.1	-	-	-	-	21.0
N 18th St. SB Sidewalk (Grace St. to Broad St.)	1.1	4.0	0.2	-	-	-	-	5.5
N 18th St. NB Sidewalk (Broad St. to Marshall St.)	1.2	6.0	0.5	-	-	-	-	2.4
N 18th St. SB Sidewalk (Broad St. to Marshall St.)	2.3	6.1	0.5	-	-	-	-	4.5

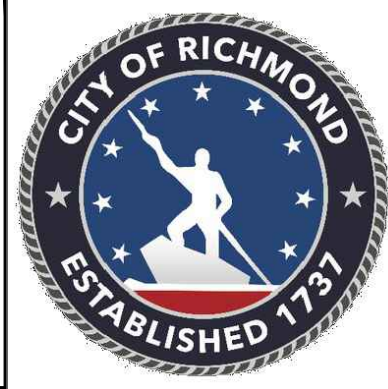
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

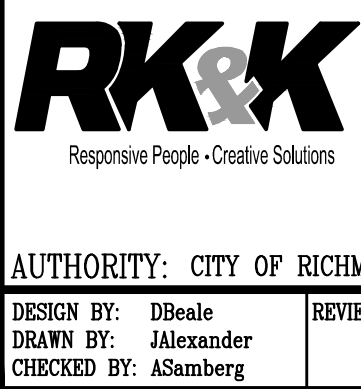
Existing Legend	
Storm Sewer	_____
Sanitary Sewer (san)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Proposed Legend	
Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____

Proposed Legend	
Sanitary Sewer	_____
Storm Sewer	_____
Storm/San Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit	_____
Conduit (Encased)	_____



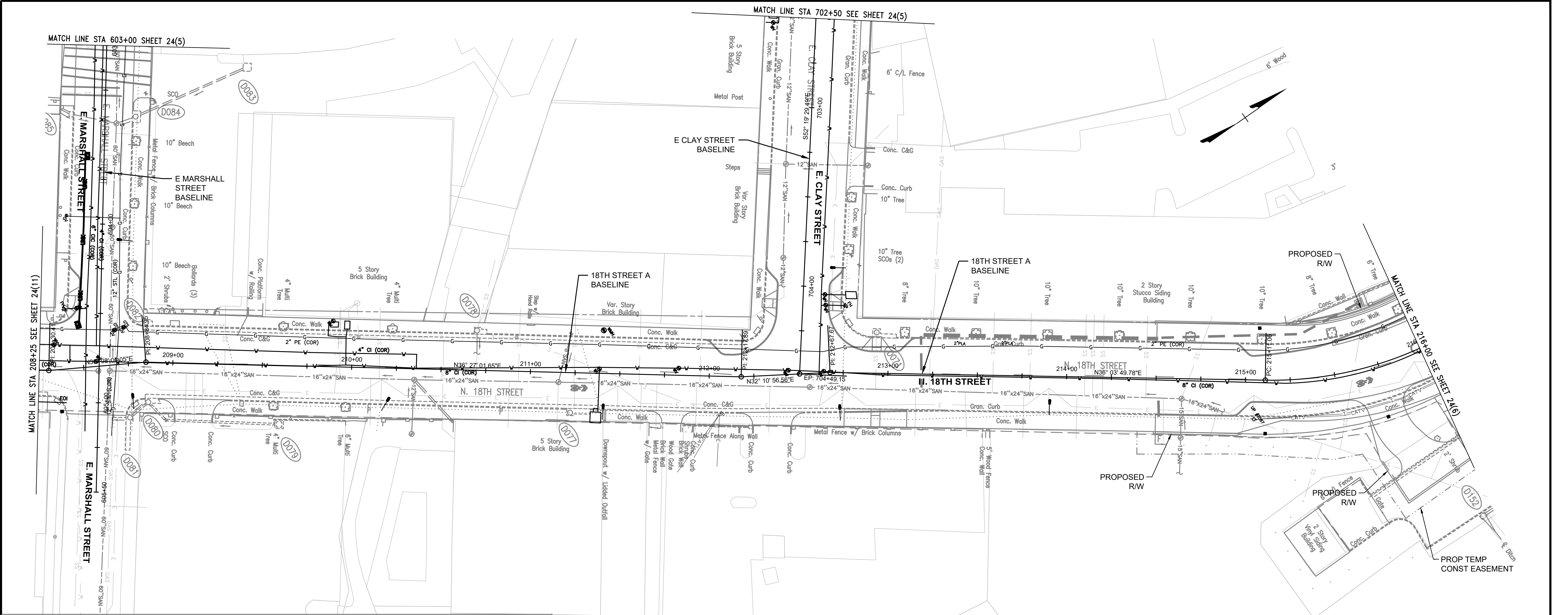
Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	



SHOCKOE VALLEY STREET IMPROVEMENTS LIGHTING PLAN SHEET					
DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(11)
DRAWN BY: Alexander					DRAWING NO. 0-28633
CHECKED BY: ASamberg					



70% SUBMITTAL
SEPTEMBER 2022
THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



N 18th Street (Marshall Street Venable Street)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria	0.9							4.0
Marshall St. EB (N 17th St. to N 18th St.)	3.9	10.4	1.3		-	-	-	3.0
Marshall St. WB (N 17th St. to N 18th St.)	4.7	10.6	1.4		-	-	-	3.4
E Clay St. EB (N 17th St. to N 18th St.)	1.6	5.7	0.0		-	-	-	#DIV/0!
E Clay St. WB (N 17th St. to N 18th St.)	2.0	9.4	0.0		-	-	-	#DIV/0!
N 18th St. NB (Marshall St. to E Clay St.)	3.5	9.4	0.6		-	-	-	5.8
N 18th St. SB (Marshall St. to E Clay St.)	2.3	6.1	0.7		-	-	-	3.3
N 18th St. NB (E Clay St. to Venable St.)	2.8	9.5	0.7		-	-	-	4.0
N 18th St. SB (E Clay St. to Venable St.)	2.1	7.3	0.6		-	-	-	3.5
Intersection of N 18th St./Marshall St.	5.8	9.3	2.4		-	-	-	2.4
Intersection of N 18th St./Marshall St. - North Leg Crosswalk	5.7	9.7	1.5		-	-	-	3.8
Intersection of N 18th St./Marshall St. - East Leg Crosswalk	7.2	9.3	4.9		-	-	-	1.5
Intersection of N 18th St./Marshall St. - South Leg Crosswalk	4.2	8.5	1.7		-	-	-	2.5
Intersection of N 18th St./Marshall St. - West Leg Crosswalk	2.1	2.5	1.6		-	-	-	1.3
Intersection of N 18th St./E Clay St.	4.1	9.5	1.4		-	-	-	2.9
Intersection of N 18th St./E Clay St. - West Leg Crosswalk	2.5	3.6	1.3		-	-	-	1.9
Pedestrian Facilities Criteria	0.4			0.1	0.1	0.1	0.1	4.0
Marshall St. EB Sidewalk (N 17th St. to N 18th St.)	1.8	3.6	0.9					2.0
Marshall St. WB Sidewalk (N 17th St. to N 18th St.)	2.5	6.4	0.8					3.1
E Clay St. EB Sidewalk (N 17th St. to N 18th St.)	0.4	1.3	0.0					#DIV/0!
E Clay St. WB Sidewalk (N 17th St. to N 18th St.)	1.0	5.3	0.0					#DIV/0!
N 18th St. NB Sidewalk (Marshall St. to E Clay St.)	2.5	7.4	0.2					12.5
N 18th St. SB Sidewalk (Marshall St. to E Clay St.)	0.9	1.8	0.4					2.1
N 18th St. NB Sidewalk (E Clay St. to Venable St.)	3.2	8.1	0.3					10.7
N 18th St. SB Sidewalk (E Clay St. to Venable St.)	2.0	7.6	0.3					6.5

NO SIDEWALK IMPROVEMENTS AT THIS LOCATION

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____

Proposed Legend	
Sanitary Sewer	_____
Storm (San) Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____



Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

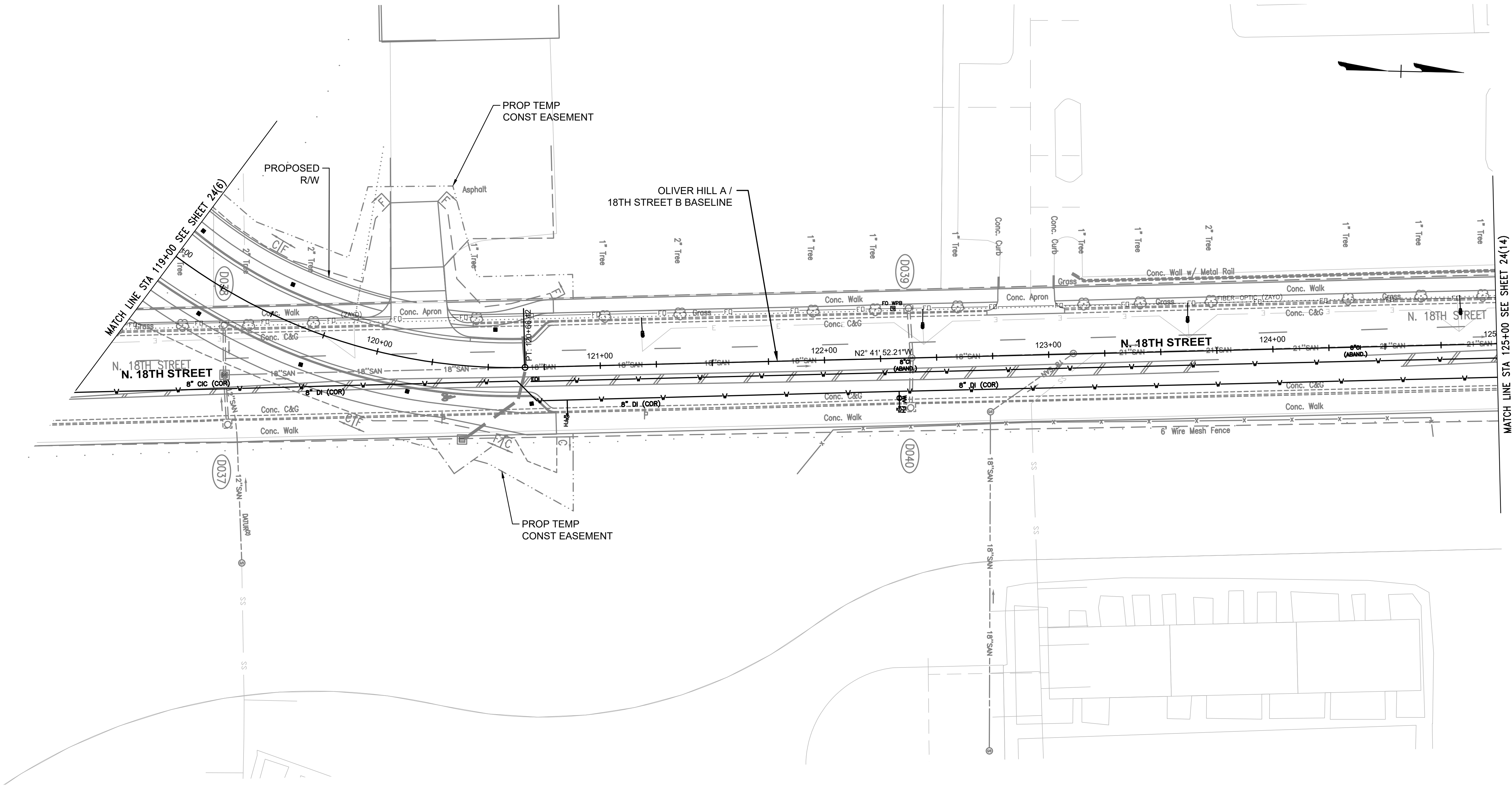
RK&K Responsive People - Creative Solutions	
AUTHORITY: CITY OF RICHMOND, DPW	

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET	DRAWING NO. 0-28633
DRAWN BY: Alexander					24(12)	
CHECKED BY: ASamberg						



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Oliver Hill Way (Venable St. to O St.)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min.
Roadway/Intersections Criteria	0.9					4.0
Oliver Hill Way A NB (Venable St. to O St.)	6.4	9.9	3.7	-	-	1.7
Oliver Hill Way A SB (Venable St. to O St.)	5.4	9.6	2.0	-	-	2.7
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Oliver Hill Way A NB Sidewalk (Venable St. to O St.)	3.9	6.4	3.3	-	-	1.2
Oliver Hill Way A SB Sidewalk (Venable St. to O St.)	4.1	6.7	2.4	-	-	1.7

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Proposed Legend	
Sanitary Sewer	_____
Storm Sewer	_____
Storm/San Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____

City of Richmond	
Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____



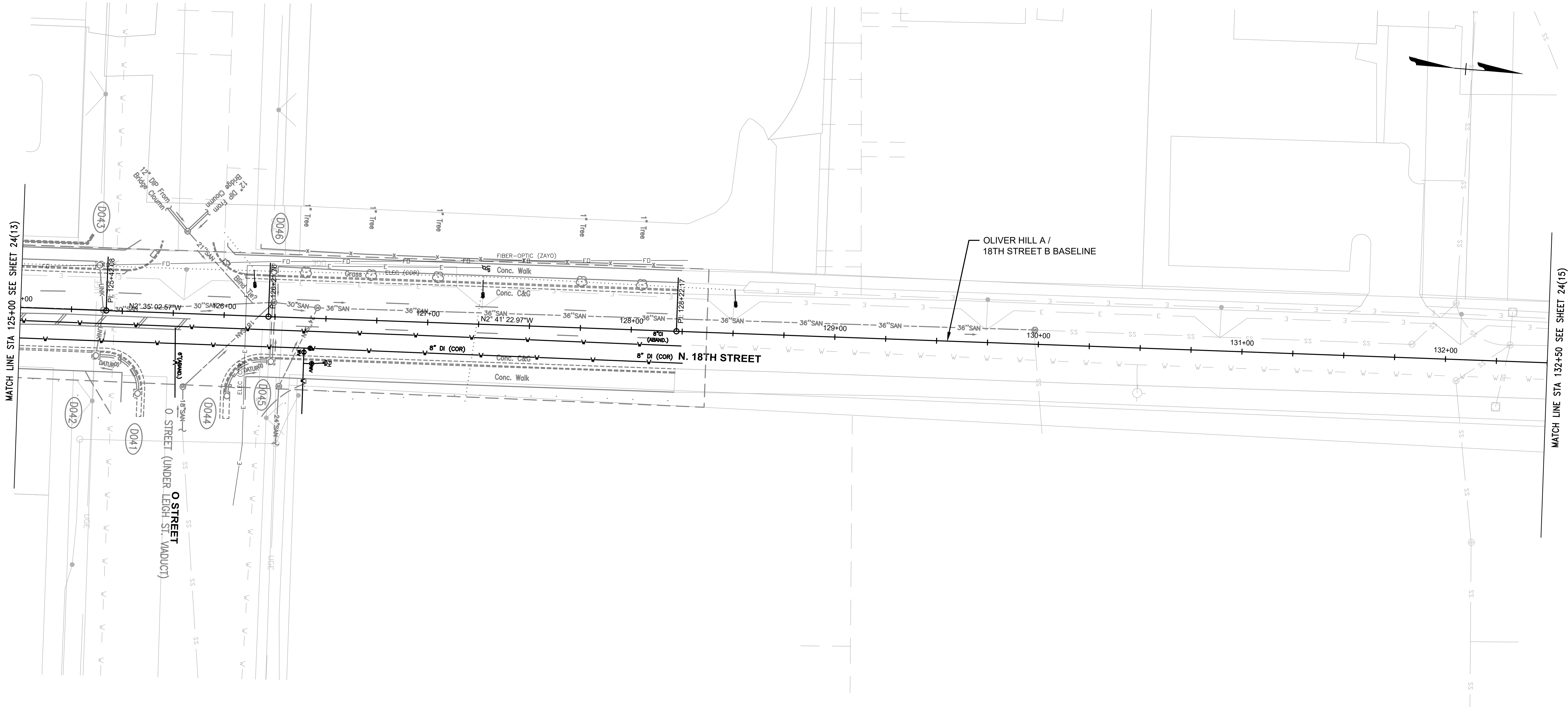
Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

RK&K Responsive People • Creative Solutions		SHOCKOE VALLEY STREET IMPROVEMENTS LIGHTING PLAN SHEET	
AUTHORITY: CITY OF RICHMOND, DPW		DESIGN BY: DBeale	REVIEWED BY: _____
DRAWN BY: Alexander		FIELD NOTES	SCALE
CHECKED BY: ASamberg		DATE SEPTEMBER 2022	PROJECT SHEET 24(13)
		DRAWING NO. 0-28633	



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Oliver Hill Way (O St. to Coalter St.)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min.
Roadway/Intersections Criteria	0.9					6.0
Oliver Hill Way A NB (Venable St. to O St.)	-	-	-	-	-	-
Oliver Hill Way A SB (Venable St. to O St.)	-	-	-	-	-	-
Oliver Hill Way A NB (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way A SB (O St. to Coalter St.)	-	-	-	-	-	-
Intersection of Oliver Hill Way A/O St.	-	-	-	-	-	-
Intersection of Oliver Hill Way A/O St. - North Leg Crosswalk	-	-	-	-	-	-
Intersection of Oliver Hill Way A/O St. - East Leg Crosswalk	-	-	-	-	-	-
Intersection of Oliver Hill Way A/O St. - South Leg Crosswalk	-	-	-	-	-	-
Intersection of Oliver Hill Way A/O St. - West Leg Crosswalk	-	-	-	-	-	-
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Oliver Hill Way A NB Sidewalk (Venable St. to O St.)	-	-	-	-	-	-
Oliver Hill Way A SB Sidewalk (Venable St. to O St.)	-	-	-	-	-	-
Oliver Hill Way A NB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way A SB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
NO SIDEWALK IMPROVEMENTS AT THIS LOCATION						

NOTES	
1. Lot dimensions in parentheses are from deed.	
2. Property owners correct as of _____, 20__	
3. Ordinance Number _____	
4. Adopted _____	
5. Accepted _____	
REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____

Proposed Legend	
Sanitary Sewer	_____
Storm (San) Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit	_____
Conduit (Encased)	_____



Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

SHOCKOE VALLEY STREET IMPROVEMENTS
LIGHTING PLAN SHEET

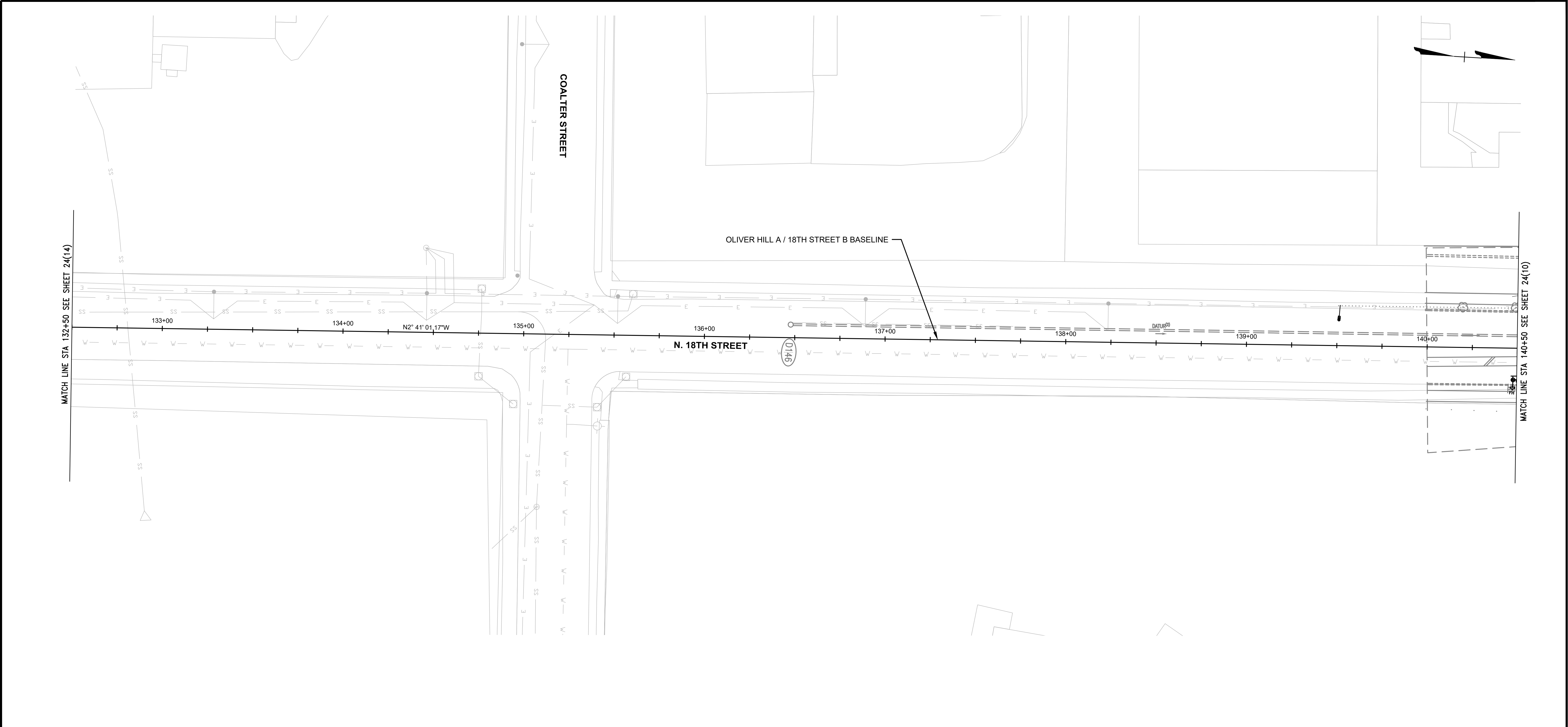
DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(14)	DRAWING NO. 0-28633
-------------------	--------------	-------------	-------	------------------------	-------------------------	------------------------

AUTHORITY: CITY OF RICHMOND, DPW



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Oliver Hill Way (Coader St. to Balding St.)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min.
Roadway/Intersections Criteria	0.7					6.0
Oliver Hill Way ANB (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way ASB (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way ANB (Coader St. to Balding St.)	-	-	-	-	-	-
Oliver Hill Way ASB (Coader St. to Balding St.)	-	-	-	-	-	-
Intersection of Oliver Hill Way A/Coader St.	-	-	-	-	-	-
Intersection of Oliver Hill Way A/Coader St. - North Leg Crosswalk	-	-	-	-	-	-
Intersection of Oliver Hill Way A/Coader St. - East Leg Crosswalk	-	-	-	-	-	-
Intersection of Oliver Hill Way A/Coader St. - South Leg Crosswalk	-	-	-	-	-	-
Intersection of Oliver Hill Way A/Coader St. - West Leg Crosswalk	-	-	-	-	-	-
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Oliver Hill Way ANB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way ASB Sidewalk (O St. to Coalter St.)	-	-	-	-	-	-
Oliver Hill Way ANB Sidewalk (Coader St. to Balding St.)	-	-	-	-	-	-
Oliver Hill Way ASB Sidewalk (Coader St. to Balding St.)	-	-	-	-	-	-

NO SIDEWALK IMPROVEMENTS AT THIS LOCATION

NOTES

1. Lot dimensions in parentheses are from deed.

2. Property owners correct as of _____, 20__

3. Ordinance Number _____

4. Adopted _____

5. Accepted _____

REFERENCES

REVISIONS

Existing Legend

Storm Sewer

Sanitary Sewer (san)

Gas Line

Electric Line

Overhead Utility

Telephone/Telegraph

Water Line

Property Line

Storm Basin

Storm or Sanitary Manhole

Fire Hydrant / Valve

② or ③

FH

WV

Water Meter

Existing Curb Cut Ramp

Gas Meter / Valve

Fence

Power/Light Pole

Guy Anchor

Tree

W/M

HCR

GV

PP

LP

Proposed Legend

Sanitary Sewer

Storm Sewer

Storm/San) Manhole

Basin

Curb Cut Ramp

Decorative Light

Conduit

Conduit (Encased)

SDMH

CSMH

CITY OF RICHMOND

ESTABLISHED 1771

Technical

Administrative

Surveys Superintendent

Project Manager

Maintenance Engineer

City Traffic Engineer

Capital Project Administrator

City Engineer

Director of Public Works

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

RK&K

Responsive People • Creative Solutions

SHOCKOE VALLEY STREET IMPROVEMENTS

LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale

DRAWN BY: Alexander

CHECKED BY: ASamberg

REVIEWED BY:

FIELD NOTES

SCALE

DATE

SEPTEMBER 2022

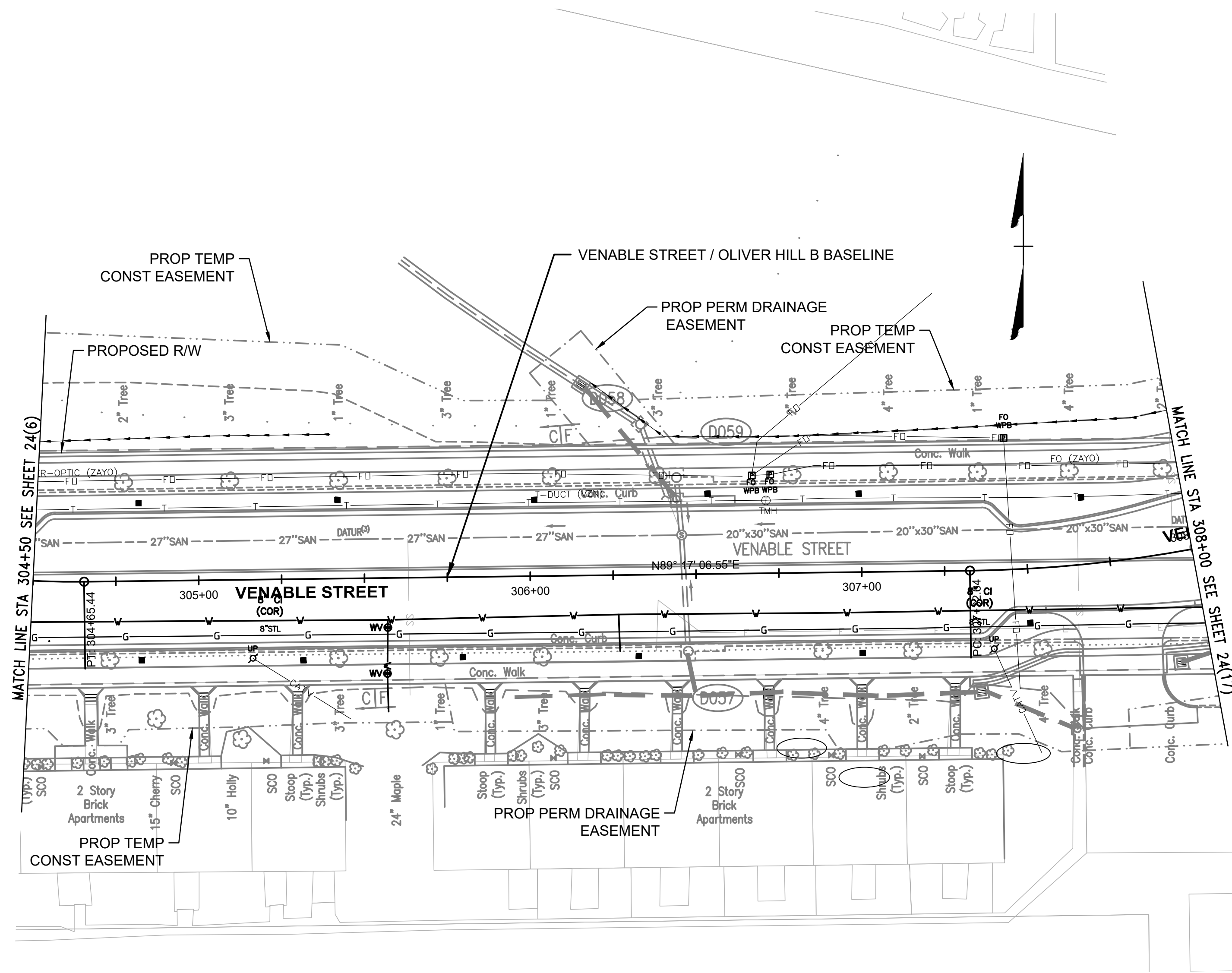
PROJECT

SHEET

24(15)

DRAWING NO.

0-28633



Mosby Street (From Venable to Carrington Street)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min.
Roadway/Intersections Criteria	0.7					6.0
Venable St. WB (18th St. to Mosby St.)	2.1	4.4	0.7	-	-	3.0
Venable St. EB (18th St. to Mosby St.)	2.0	6.4	0.8	-	-	2.5
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Venable St. WB SUP (18th St. to Mosby St.)	2.9	8.3	0.8	-	-	3.6
Venable St. EB Sidwalk (18th St. to Mosby St.)	3.4	9.1	0.6	-	-	5.7

- NOTES
1. Lot dimensions in parentheses are from deed.
 2. Property owners correct as of _____, 20__.
 3. Ordinance Number _____.
 4. Adopted _____.
 5. Accepted _____.

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (san)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____

Proposed Legend	
Sanitary Sewer	_____
Storm Sewer	_____
Storm/San Manhole	_____
Basin	_____
Curb Cut Ramp	_____
Decorative Light	_____
Conduit (Encased)	_____



Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	



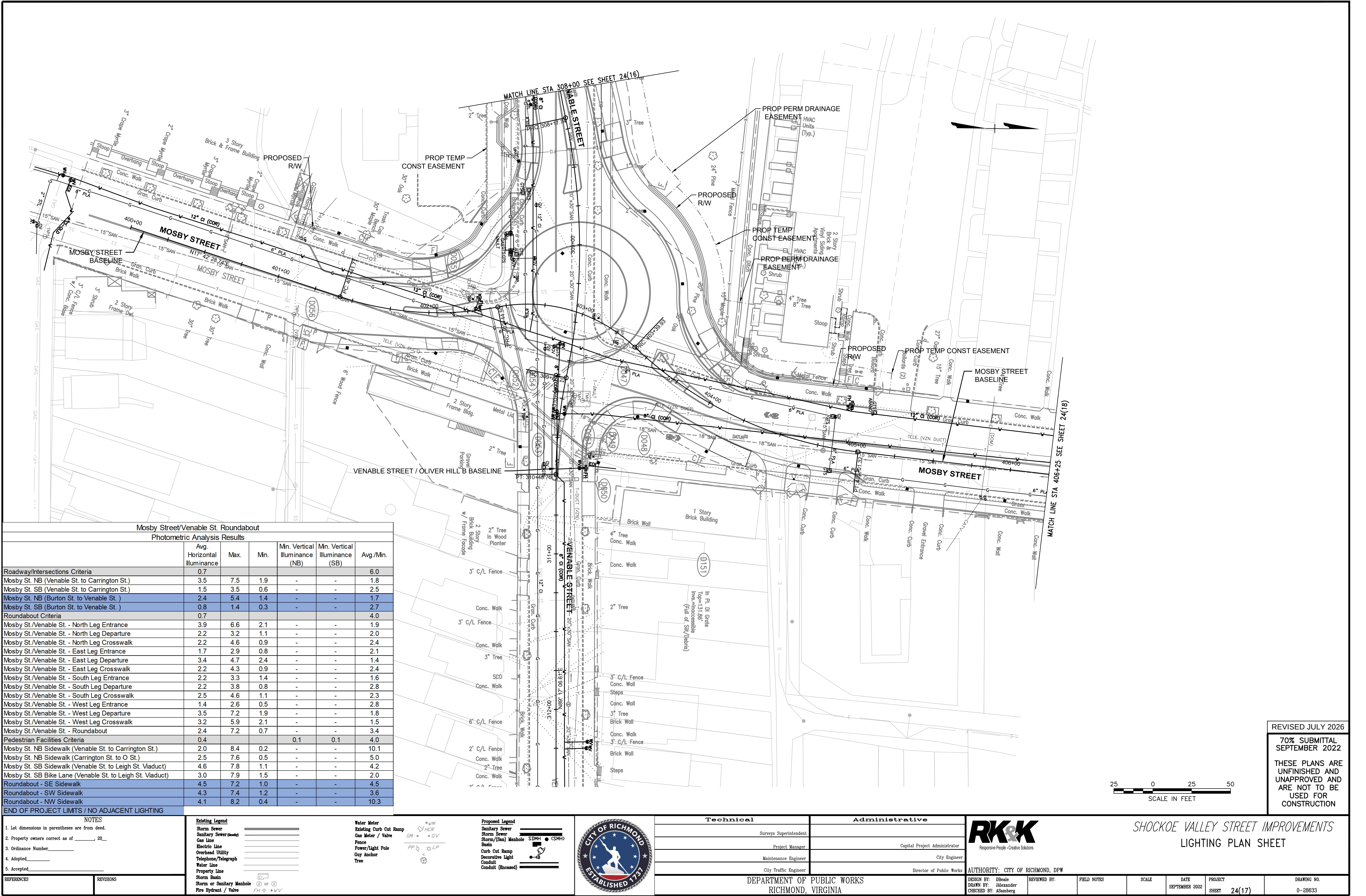
SHOCKOE VALLEY STREET IMPROVEMENTS
LIGHTING PLAN SHEET

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(16)	DRAWING NO. 0-28633
-------------------	--------------	-------------	-------	------------------------	-------------------------	------------------------



70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Mosby Street/Venable St. Roundabout						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Mn. Vertical Illuminance (NB)	Mn. Vertical Illuminance (SB)	Avg./Mn.
Roadway/Intersections Criteria						
Mosby St. NB (Venable St. to Carrington St.)	0.7					6.0
Mosby St. SB (Venable St. to Carrington St.)	3.5	7.5	1.9	-	-	1.8
Mosby St. NB (Burton St. to Venable St.)	1.5	3.5	0.6	-	-	2.5
Mosby St. SB (Burton St. to Venable St.)	2.4	5.4	1.4	-	-	1.7
Mosby St. SB (Burton St. to Venable St.)	0.8	1.4	0.3	-	-	2.7
Roundabout Criteria						
Mosby St./Venable St. - North Leg Entrance	0.7					4.0
Mosby St./Venable St. - North Leg Departure	3.9	6.6	2.1	-	-	1.9
Mosby St./Venable St. - North Leg Crosswalk	2.2	3.2	1.1	-	-	2.0
Mosby St./Venable St. - East Leg Entrance	2.2	4.6	0.9	-	-	2.4
Mosby St./Venable St. - East Leg Departure	1.7	2.9	0.8	-	-	2.1
Mosby St./Venable St. - East Leg Crosswalk	3.4	4.7	2.4	-	-	1.4
Mosby St./Venable St. - South Leg Entrance	2.2	4.3	0.9	-	-	2.4
Mosby St./Venable St. - South Leg Departure	2.2	3.3	1.4	-	-	1.6
Mosby St./Venable St. - South Leg Crosswalk	2.2	3.8	0.8	-	-	2.8
Mosby St./Venable St. - West Leg Entrance	2.5	4.6	1.1	-	-	2.3
Mosby St./Venable St. - West Leg Departure	1.4	2.6	0.5	-	-	2.8
Mosby St./Venable St. - West Leg Crosswalk	3.5	7.2	1.9	-	-	1.8
Mosby St./Venable St. - Roundabout	3.2	5.9	2.1	-	-	1.5
Pedestrian Facilities Criteria	2.4	7.2	0.7	-	-	3.4
Mosby St. NB Sidewalk (Venable St. to Carrington St.)	0.4			0.1	0.1	4.0
Mosby St. NB Sidewalk (Carrington St. to O St.)	2.0	8.4	0.2	-	-	10.1
Mosby St. SB Sidewalk (Venable St. to Leigh St. Viaduct)	2.5	7.6	0.5	-	-	5.0
Mosby St. SB Sidewalk (Venable St. to Leigh St. Viaduct)	4.6	7.8	1.1	-	-	4.2
Mosby St. SB Bike Lane (Venable St. to Leigh St. Viaduct)	3.0	7.9	1.5	-	-	2.0
Roundabout - SE Sidewalk	4.5	7.2	1.0	-	-	4.5
Roundabout - SW Sidewalk	4.3	7.4	1.2	-	-	3.6
Roundabout - NW Sidewalk	4.1	8.2	0.4	-	-	10.3
END OF PROJECT LIMITS / NO ADJACENT LIGHTING						

NOTES

- Lot dimensions in parentheses are from deed.
- Property owners correct as of _____, 20__.
- Ordinance Number _____.
- Adopted _____.
- Accepted _____.

REFERENCES	REVISIONS

Existing Legend	
Storm Sewer	_____
Sanitary Sewer (sewer)	_____
Gas Line	_____
Electric Line	_____
Overhead Utility	_____
Telephone/Telegraph	_____
Water Line	_____
Property Line	_____
Storm Basin	_____
Storm or Sanitary Manhole	_____
Fire Hydrant / Valve	_____

Proposed Legend	
Water Meter	_____
Existing Curb Cut Ramp	_____
Gas Meter / Valve	_____
Fence	_____
Power/Light Pole	_____
Guy Anchor	_____
Tree	_____



Technical	Administrative
Surveys Superintendent	Capital Project Administrator
Project Manager	City Engineer
Maintenance Engineer	Director of Public Works
City Traffic Engineer	

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

SHOCKOE VALLEY STREET IMPROVEMENTS
LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(17)	DRAWING NO. 0-28633
-------------------	--------------	-------------	-------	------------------------	-------------------------	------------------------

Mosby Street (From Leigh Street Viaduct to Carrington Street)								
Photometric Analysis Results								
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Min. Vertical Illuminance (EB)	Min. Vertical Illuminance (WB)	Avg./Min.
Roadway/Intersections Criteria	0.7							6.0
Mosby St. NB (Carrington St. to O St.)	3.4	6.9	1.1	-	-	-	-	3.1
Mosby St. SB (Carrington St. to O St.)	1.3	2.3	0.6	-	-	-	-	2.2
Intersection of Mosby St./Carrington St.	2.5	5.9	0.4	-	-	-	-	6.3
Intersection of Mosby St./Carrington St. - Crosswalk	0.7	1.2	0.4	-	-	-	-	1.8
Roundabout Criteria	0.9							4.0
Mosby St./O St./Leigh St. Viaduct - North Leg Entrance	3.4	6.7	1.1	-	-	-	-	3.1
Mosby St./O St./Leigh St. Viaduct - North Leg Departure	3.0	6.7	0.7	-	-	-	-	4.3
Mosby St./O St./Leigh St. Viaduct - North Leg Crosswalk	2.2	5.7	0.8	-	-	-	-	2.8
Mosby St./O St./Leigh St. Viaduct - North Leg Slip Ramp	2.8	7.7	0.8	-	-	-	-	3.5
Mosby St./O St./Leigh St. Viaduct - East Leg Entrance	1.0	2.3	0.4	-	-	-	-	2.5
Mosby St./O St./Leigh St. Viaduct - East Leg Departure	2.4	3.9	1.4	-	-	-	-	1.7
Mosby St./O St./Leigh St. Viaduct - East Leg Crosswalk	1.5	4.2	0.6	-	-	-	-	2.5
Mosby St./O St./Leigh St. Viaduct - South Leg Entrance	2.9	6.1	1.1	-	-	-	-	2.6
Mosby St./O St./Leigh St. Viaduct - South Leg Departure	2.0	5.9	0.5	-	-	-	-	4.0
Mosby St./O St./Leigh St. Viaduct - South Leg Crosswalk	2.4	4.6	1.4	-	-	-	-	1.7
Mosby St./O St./Leigh St. Viaduct - West Leg Entrance	2.5	5.8	1.1	-	-	-	-	2.3
Mosby St./O St./Leigh St. Viaduct - West Leg Departure	2.8	6.5	0.7	-	-	-	-	4.0
Mosby St./O St./Leigh St. Viaduct - West Leg Crosswalk	2.0	6.7	0.6	-	-	-	-	3.3
Mosby St./O St./Leigh St. Viaduct - Roundabout	1.8	7.0	0.4	-	-	-	-	4.5
Pedestrian Facilities Criteria	0.4			0.1	0.1	0.1	0.1	4.0
Mosby St./O St./Leigh St. Viaduct Bike Lane - Roundabout	3.8	8.2	1.6					2.4
Mosby St. Bike Lane SB (Leigh St. Viaduct to Venable St.)	3.0	7.9	1.5					2.0
Mosby St. NB Sidewalk (Carrington St. to O St.)	2.5	7.6	0.5					5.0
Mosby St. SB Sidewalk (Leigh St. Viaduct to Venable St.)	4.6	7.8	1.1					4.2
Mosby St. NB Sidewalk (Venable St. to Carrington St.)	2.0	8.4	0.2					10.1
Leigh St. Viaduct Sidewalk (North Side)	3.4	7.6	1.1					3.1
Leigh St. Viaduct Sidewalk (South Side)	4.6	7.8	1.1					4.2
O St. Sidewalk (North Side)	4.5	7.3	2.1					2.1
O St. Sidewalk (South Side)	2.5	7.6	0.5					5.0
END OF PROJECT LIMITS / NO ADJACENT LIGHTING								



NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of _____, 20____
3. Ordinance Number _____
4. Adopted _____
5. Accepted _____

Existing Legend

Storm Sewer

Sanitary Sewer (wavy)

Gas Line

Electric Line

Overhead Utility

Telephone/Telegraph

Water Line

Property Line

Storm Basin

Storm or Sanitary Manhole

Fire Hydrant / Valve

Water Meter

Existing Curb Cut Ramp

Gas Meter / Valve

Fence

Power/Light Pole

Guy Anchor

Tree

Proposed Legend

Sanitary Sewer

Storm Sewer

Storm (San) Manhole

Basin

Curb Cut Ramp

Decorative Light

Conduit

Conduit (Encased)

W/M

HCR

GV

PPQ

LP

FS

WV

CITY OF RICHMOND

ESTABLISHED 1771

Technical

Surveys Superintendent

Project Manager

Maintenance Engineer

City Traffic Engineer

Administrative

Capital Project Administrator

City Engineer

Director of Public Works

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

RK&K

Responsive People • Creative Solutions

SHOCKOE VALLEY STREET IMPROVEMENTS

LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale

DRAWN BY: Alexander

CHECKED BY: ASamberg

REVIEWED BY:

FIELD NOTES

SCALE

DATE
SEPTEMBER 2022

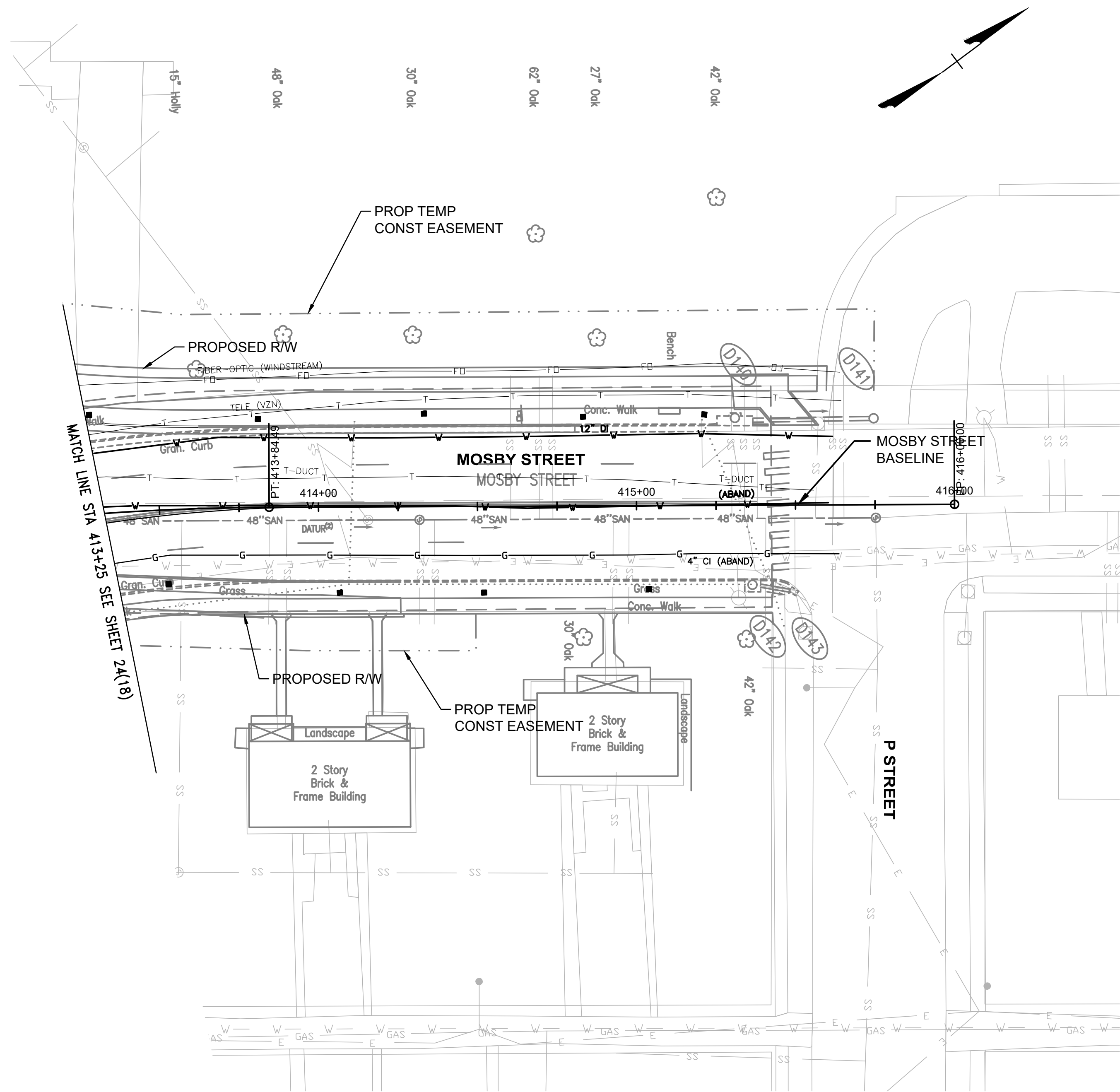
PROJECT
SHEET

DRAWING NO.
0-28633

REVISED JULY 2026

70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE
UNFINISHED AND
UNAPPROVED AND
ARE NOT TO BE
USED FOR
CONSTRUCTION



Mosby Street (From Leigh Street Viaduct/O Street to P Street)						
Photometric Analysis Results						
	Avg. Horizontal Illuminance	Max.	Min.	Min. Vertical Illuminance (NB)	Min. Vertical Illuminance (SB)	Avg./Min.
Roadway/Intersections Criteria	0.7					6.0
Mosby St. NB	1.9	6.3	0.5	-	-	3.8
Mosby St. SB	2.3	7.7	0.7	-	-	3.3
Pedestrian Facilities Criteria	0.4			0.1	0.1	4.0
Mosby St. NB Sidewalk	2.7	8.0	0.2	-	-	13.5
Mosby St. SB Sidewalk	3.1	8.2	1.1	-	-	2.8
END OF PROJECT LIMITS / NO ADJACENT LIGHTING						



REVISED JULY 2026

70% SUBMITTAL
SEPTEMBER 2022

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION

NOTES

1. Lot dimensions in parentheses are from deed.

2. Property owners correct as of _____, 20__.

3. Ordinance Number _____.

4. Adopted _____.

5. Accepted _____.

REFERENCES

REVISIONS

Existing Legend

- Storm Sewer
- Sanitary Sewer (san)
- Gas Line
- Electric Line
- Overhead Utility
- Telephone/Telegraph
- Water Line
- Property Line
- Storm Basin
- Storm or Sanitary Manhole
- Fire Hydrant / Valve

Proposed Legend

- Sanitary Sewer
- Storm (San) Manhole
- Basin
- Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Encased)

Water Meter

Existing Curb Cut Ramp

Gas Meter / Valve

Fence

Power/Light Pole

Guy Anchor

Tree



Technical	Administrative
Surveys Superintendent	
Project Manager	Capital Project Administrator
Maintenance Engineer	City Engineer
City Traffic Engineer	Director of Public Works
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA	

SHOCKOE VALLEY STREET IMPROVEMENTS

LIGHTING PLAN SHEET

AUTHORITY: CITY OF RICHMOND, DPW

DESIGN BY: DBeale	REVIEWED BY:	FIELD NOTES	SCALE	DATE SEPTEMBER 2022	PROJECT SHEET 24(19)	DRAWING NO. 0-28633
-------------------	--------------	-------------	-------	------------------------	-------------------------	------------------------