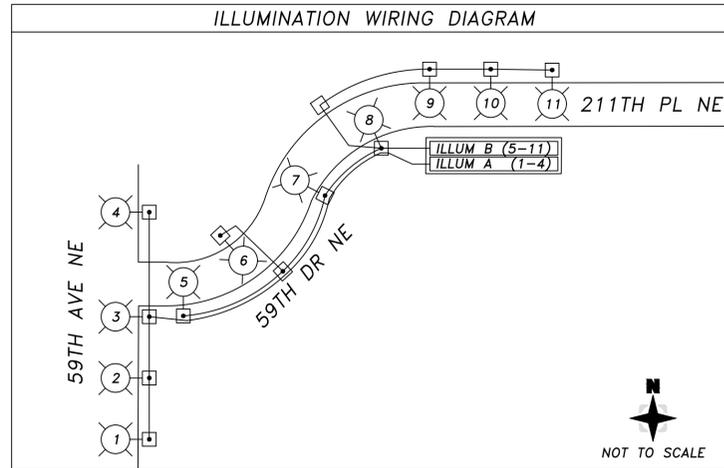




# SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.



CALCULATION AREA	TARGET / ACTUAL		AREA TYPE
	AVG. MAINTAINED (FC)	UNIFORMITY RATIO AVG. FC / MIN. FC	
59TH AVE NE	0.90***	4.00:1*	LOCAL COMMERCIAL
59TH AVE NE SIDEWALK	1.08	3.60:1	
59TH DR NE	0.10**	10.0:1**	LOW PEDESTRIAN ACTIVITY
INTERSECTION 59TH AVE NE & 59TH DR NE	1.04	1.73:1	
59TH DR NE TO 211TH PL NE	0.90*	4.00:1*	STOP CONTROLLED INTERSECTION
59TH DR NE TO 211TH PL NE SIDEWALK	1.11	1.39:1	
	0.90***	4.00:1*	LOCAL COMMERCIAL
	1.15	2.88:1	
	0.10**	10.0:1**	LOW PEDESTRIAN ACTIVITY
	0.88	4.40:1	

\* LIGHT LEVEL CRITERIA FOR ROADWAY AND INTERSECTION BASED ON WSDOT M22-01.21 DESIGN MANUAL CHAPTER 1040 ILLUMINATION, EXHIBIT 1040-44 LIGHT LEVEL REQUIREMENTS FOR CONVENTIONAL ROADWAYS, LOCATION TYPE 1040.02(1) STOP AND SIGNAL CONTROLLED INTERSECTIONS.

\*\* LIGHT LEVEL CRITERIA FOR SIDEWALKS BASED ON ANSI/IES RP-8-22 STANDARD FOR LOCAL ROADWAYS WITH LOW PEDESTRIAN CONFLICT AREA CLASSIFICATION.

\*\*\* LIGHT LEVEL CRITERIA FOR ROADWAYS BASED ON CITY OF ARLINGTON STREET LIGHTING GUIDE, TABLE 2-5 MINIMUM ROADWAY ILLUMINATION, STANDARD FOR RESIDENTIAL AND LOCAL ROADWAY WITH COMMERCIAL AREA CLASSIFICATION.

### ILLUMINATION CONSTRUCTION NOTES

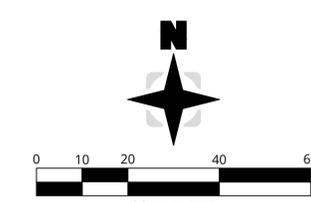
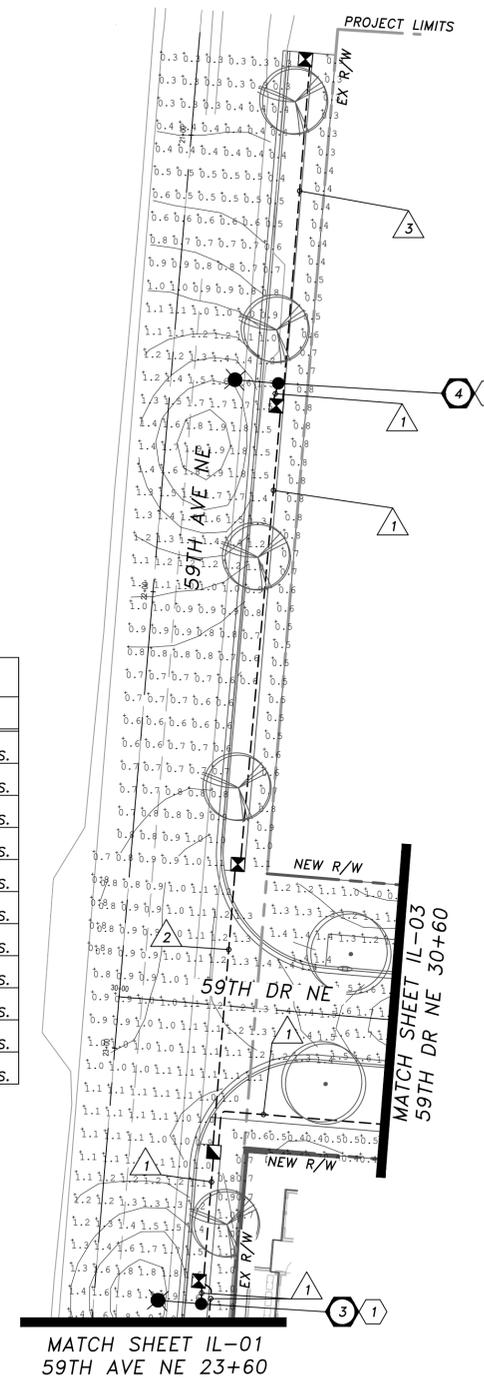
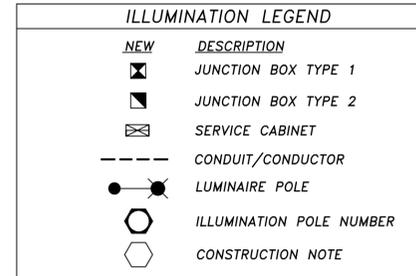
- CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30. CONTRACTOR SHALL VERIFY BOLT PATTERN PRIOR TO POURING FOUNDATION. FURNISH AND INSTALL NEW STREET LIGHT POLE AND ARM TO NEW FOUNDATION. INSTALL NEW LED FIXTURE PER THE ILLUMINATION POLE SCHEDULE, THIS SHEET. CONTRACTOR SHALL COORDINATE WITH CITY OF ARLINGTON TO SCHEDULE INSTALLATION, AS WELL AS COMPLETION OF ALL FORMS/APPLICATIONS AND PAYMENT OF ALL ASSOCIATED FEES.

### ILLUMINATION POLE SCHEDULE

LUM. POLE NO.	STREET	STATION	OFFSET	MOUNTING HEIGHT	ARM LENGTH	POLE	LUMINAIRE TYPE	WATTAGE / TYPE	INITIAL LUMENS	COLOR TEMP	BASE	COMMENT
1	59TH AVE NE	26+43.5	23.5' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
2	59TH AVE NE	25+11.0	23.5' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
3	59TH AVE NE	23+54.0	23.5' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
4	59TH AVE NE	21+52.5	23.5' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
5	59TH DR NE	30+64.5	18.0' RT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
6	59TH DR NE	31+52.0	14.5' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
7	59TH DR NE	32+37.5	23.5' RT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
8	211TH PL NE	33+63.0	18.0' RT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
9	211TH PL NE	34+78.0	14.0' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
10	211TH PL NE	36+66.0	14.0' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
11	211TH PL NE	38+03.5	14.0' LT	38'	6'	1254 INDUSTRIES HUNTINGTON SERIES TAPERED DECORATIVE POLE	LEOTEK GCM2-40H-MV-3000K-3R-950	121W LED	13,040	3,000K	SLIP	CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-04. FURNISH AND INSTALL POLE, ARM, AND FIXTURE PER MANUFACTURER'S INSTRUCTIONS.

RACEWAY CONDUIT SIZE	ILLUMINATION WIRING SCHEDULE					
	ILLUM. #8	SVC. POWER 3/0	EQUIP. GRND. *	DETECT. PULL WIRE	CONDUIT FILL	ALLOW. FILL
1 2" SCH40 PVC	2		1		0.17	0.86
2 2" SCH80 PVC	2		1		0.17	0.75
3 2" SCH40 PVC SPARE				1	---	0.86
4 3" SCH80 PVC		3			0.94	1.68
5 2" SCH40 PVC	4		1		0.28	0.86
6 2" SCH80 PVC	4		1		0.28	0.75

\* EQUIPMENT GROUND SIZE SHALL BE EQUAL TO OR LARGER THAN THE LARGEST WIRE SIZE IN THE CONDUIT.



REVISION	DATE	BY



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ISSUE DATE: 06-11-2025  
JOB NO.: TENW #2024-143  
DESIGNED BY: BL/KEW/TDR  
DRAWN BY: BL/KEW/TDR  
APPROVED BY: DMA



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BRAD MACHAT

QUARTERRA SR 530 SITE  
ARLINGTON, WA  
FRONTAGE ILLUMINATION PLAN

IL-02  
SHEET:  
2  
OF  
22





# SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.

**CONDUIT COUPLING** - INSTALL FLUSH WITH TOP OF BARRIER (DO NOT GLUE PVC STUBOUT)

3" (IN) DIAM. x 3/4" (IN) GROUT WELL (TYP.)

3/4" (IN) CHAMFER (TYP.)

#7 REINFORCING STEEL BAR

#4 REINFORCING STEEL HOOP

CLAMP CONDUCTOR TO ANCHOR BOLT WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE (NO WELDING)

GROUNDING CONDUCTOR - NON-INSULATED #4 AWG STRANDED COPPER

HEAVY HEX NUT (TYP.) - SIZE TO MATCH ANCHOR BOLT - SEE TABLE

ROUND WASHER SIZE TO MATCH ANCHOR BOLT (TYP.) - SEE TABLE

STRAP TEMPLATE ASSEMBLY (TYP.) - SEE DETAIL

ANCHOR BOLT (TYP.) - SEE TABLE

1" (IN) DIAM. CONDUIT - CAP EACH END - PROVIDE ADDITIONAL CONDUIT FOR COMMUNICATION OR SIGNAL CABLE WHERE SHOWN IN THE CONTRACT

EXTEND THE CONDUIT 6" (IN) MIN. BEYOND THE FOUNDATION OR THE CONTROLLED-DENSITY BACKFILL

#4 HOOP (TYP.)

CLAMP CONDUCTOR TO STEEL REINFORCING BAR WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE

(D + 1/16" (IN)) DIAM. HOLE (TYP.) - SEE TABLE

1/4" (IN) STEEL BAR (TYP.) - 2" (IN) WIDE x 1'-3" LONG

CONCRETE CLASS 4000P

#7 (TYP.)

2 1/2" CLR.

SEE SLIP BASE FOR DETAILS NOT SHOWN

ELEVATION VIEW  
FIXED BASE

36"

EIGHT #7 BARS, EVENLY SPACED

CENTER THE CONDUIT IN THE FOUNDATION

1'-3" DIAM. BOLT CIRCLE (TYP.)

#4 HOOP (TYP.)

TOP VIEW  
FIXED BASE

2'-10" MIN.

2" CLR.

3/4" (IN) CHAMFER (TYP.)

3" MIN.

5 1/4"

TYPE A: 1/4" (IN) HOOPS @ 8" SPACING

TYPE B: 1/4" (IN) HOOPS @ 11" SPACING

TYPE A: 1'-4" x 1'-0" (SEE NOTES 3 & 4)

TYPE B: 1'-8" x 1'-0" (SEE NOTES 3 & 4)

2 1/2" CLR.

4" MIN.

ISOMETRIC VIEW  
ANCHOR BOLT ASSEMBLY  
(SLIP BASE SHOWN)

LUMINAIRE HEIGHT (FT) (H1)	MAST ARM TYPE	MAST ARM LENGTH (FT)	ANCHOR BOLT DIAMETER (IN) "D"
20' TO 50'	SINGLE	6' TO 16'	1"
20' TO 50'	DOUBLE	6' TO 8'	1"
20' TO 45'	DOUBLE	10' TO 16'	1"
46' TO 50'	DOUBLE	10' TO 16'	1 1/8"

TOP VIEW  
STRAP TEMPLATE ASSEMBLY

1'-1" (TYP.)

NOTES

- See **Standard Plan J-28.40** for Luminaire Pole base mounting details.
- The Strap Templates shall be held in place by nuts, 6" (in) from the top of the foundation and 3" (in) from the bottom of the anchor bolts. Eighteen heavy duty hex nuts and six round washers are required for a slip base assembly. Eighteen heavy duty hex nuts and six plate washers are required for a fixed base assembly.
- Use Steel Light Standard Foundation **Type A** on level ground or slopes not exceeding 4H : 1V. Use **Type B** for slopes steeper than 4H : 1V, but not exceeding 2H : 1V. Slopes steeper than 2H : 1V shall require a special design.
- These foundations are designed for a minimum of 2000 PSF (TYPE A) or 1500 PSF (TYPE B) allowable lateral bearing pressure for the soil. A special foundation shall be required for soil with allowable lateral bearing pressure lower than 1500 PSF.
- The Luminaire Pole height shall not exceed 50' (ft) (H1).
- Slip bases shall not be installed on 50' (ft) (H1) poles with Double Mast Arms, nor on poles weighing more than 1000 lbs.
- Slip bases are required on poles installed inside the Design Clear Zone, and on poles installed behind traffic barrier that are within the traffic barrier deflection zone.
- Foundations constructed within Media Filter Drains shall be increased in depth by the depth of the Media Filter Drain.
- Exposed portions of the foundation shall be formed to create a Class 2 surface finish. All forming shall be removed upon completion of foundation construction.
- For excavation, concrete placement, and backfill options, see METHOD 1 and METHOD 2 on Sheet 2 of 2.
- The anchor bolts shall be high-strength steel, manufactured from ASTM F1554 Grade 105, with heavy hex nuts and hardened washers. Galvanize the anchor bolts according to ASTM F2329.
- The foundation shall be grounded in accordance with the requirements of **Standard Specification Section 8-20.3(4)**.
- See **Standard Plans C-8b** and **C-85.14** for steel light standards on traffic barrier.

SLIP BASE

FIXED BASE

ANCHOR BOLT LAYOUT

TRAFFIC

STATE OF WASHINGTON  
ARLIND P. ZELDENRUST  
25470  
PROFESSIONAL ENGINEER  
Jun 18, 2024

**STEEL LIGHT STANDARD FOUNDATION TYPES A & B**  
**STANDARD PLAN J-28.30-04**  
SHEET 1 OF 2 SHEETS  
APPROVED FOR PUBLICATION Jun 18, 2024  
Mark A. Davis  
STATE DESIGN ENGINEER  
Washington State Department of Transportation

EDGE OF SHOULDER

LUMINAIRE POLE

POLE BASE

SLOPE ROUNDING

EMBANKMENT WIDENING

UNDISTURBED SOIL (TYP.)

CONCRETE CLASS 4000P

3'-0" DIAM.

UNDISTURBED SOIL

(CASE A SHOWN)

**METHOD 1**  
NO SUBSURFACE FORM

EDGE OF SHOULDER

LUMINAIRE POLE

POLE BASE

SLOPE ROUNDING

EMBANKMENT WIDENING

UNDISTURBED SOIL (TYP.)

CONCRETE CLASS 4000P

3'-0" DIAM.

UNDISTURBED SOIL

(CASE A SHOWN)

**METHOD 2**  
METAL (SUBSURFACE) FORM REQUIRED

NOTE

These foundation Construction Methods are applicable to all Steel Light Standard Placement Cases. See **Standard Plans J-28.22, J-28.24, and J-28.26**.

When the existing soil will not retain a vertical face, over-excavate the foundation area and install a 36" (in) diameter corrugated metal (pipe) form. The corrugated metal form shall not extend more than 5" (in) +/- 1" (in) below any portion of the foundation that will remain exposed upon final grading. Continue forming to full height using a paper or cardboard form to achieve a smooth finish on final exposed cement concrete. Support the form as necessary to remain plumb.

See **Standard Plans J-28.24** and **J-28.26** for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Backfill with controlled-density fill or compacted borrow in accordance with **Standard Specification Section 8-20.3(2)**.

Construct the embankment widening (if required).

TEMPORARY SLOPE OR SHORE AS REQUIRED (TYP.)

OVER-EXCAVATED AREA SHALL BE BACKFILLED WITH CONTROLLED-DENSITY FILL (CDF), OR WITH COMPACTED BORROW IN ACCORDANCE WITH STANDARD SPECIFICATION 8-20.3(2)

LIMITS OF STRUCTURE EXCAVATION

UNDISTURBED SOIL

1'-0" (TYP.)

3'-0" DIAM.

UNDISTURBED SOIL

TYPE A: 1'-4" x 1'-0"

TYPE B: 1'-8" x 1'-0"

TYPE A: 1'-4" x 1'-0"

TYPE B: 1'-8" x 1'-0"

CONSTRUCTION METHODS

STATE OF WASHINGTON  
ARLIND P. ZELDENRUST  
25470  
PROFESSIONAL ENGINEER  
Jun 18, 2024

**STEEL LIGHT STANDARD FOUNDATION TYPES A & B**  
**STANDARD PLAN J-28.30-04**  
SHEET 2 OF 2 SHEETS  
APPROVED FOR PUBLICATION Jun 18, 2024  
Mark A. Davis  
STATE DESIGN ENGINEER  
Washington State Department of Transportation

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JOB NO.: TENW #2024-143

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FRONTAGE ILLUMINATION DETAILS

IL-05

SHEET: 5 OF 22



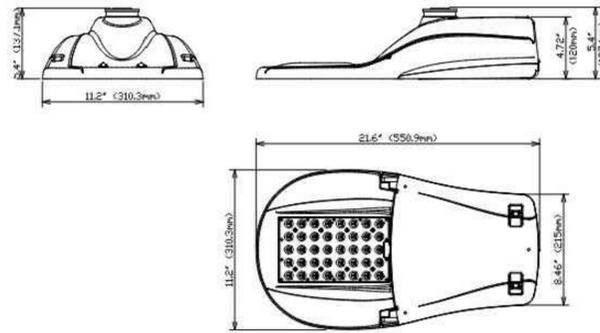
SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.



**GreenCobra™ Midsize LED Street Light  
GCM H-Series Specification Data Sheet**

**Luminaire Data**

**Weight** 10 lbs [4.6 kg]  
**EPA** 0.44 ft<sup>2</sup>



Project  
Type  
Catalog No.

**Ordering Information**

Sample Catalog No. GCM2 30H MV NW 2R GY 700 PCR7 WL

Product	LED Code	Voltage	Color Temperature	Distribution	Finish <sup>1</sup>	30H Drive Current Code <sup>2</sup>	Options
GCM2	30H	MV 120-277V HV 347-480V	WW 3000K	2S Type 2 Short	GY Gray	530	FDC <sup>1</sup> Fixed Drive Current
			NW 4000K	2R Type 2 Medium	DB Dark Bronze	610	FFA <sup>4</sup> Full field Adjustability
			CW 5000K	3R Type 3 Medium	BK Black	700	LPCR Less Photocontrol Receptacle
				4 Type 4		850	PCR7 <sup>5</sup> ANSI 7-wire Photo-control Receptacle
				5 Type 5		1A	PCR7-CR <sup>6</sup> Control Ready 7-wire PC Receptacle
GCM2	40H					40H Drive Current Code <sup>2</sup>	
						575	WL Utility Wattage Label
						700	4B 4-Bolt Mounting Bracket
						850	RWG Rubber Wildlife Guard
						950	SWTB Straight Wire Terminal Block
			1A	BBL Bubble Level			

**Notes:**

- 1 Gray, Black, and Dark Bronze standard. Consult factory for other finishes.
- 2 Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
- 3 Non-field adjustable, fixed drive current. Specify required drive current. Not available with PCR7-CR option.
- 4 The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
- 5 Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
- 6 Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If a lower drive current is required, consult factory.
- 7 Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire.
- 8 Flush mounted cul-de-sac shield. Shield cuts light off at 1/2 mounting height behind luminaire and 1-1/2 mounting height on either side of luminaire.
- 9 Specify Color (GY, DB, BK)
- 10 Specify MV (120-277V) or HV (347V-480V)

Accessories*	
HSSGCM <sup>7</sup>	House Side Shield, Snap-On*
CSSGCM <sup>8</sup>	Cul-De-Sac Side Shield, Snap-On*
SPB <sup>9</sup>	Square Pole Horizontal Arm Bracket
RPB <sup>9</sup>	Round Pole Horizontal Arm Bracket
PTB <sup>9</sup>	Pole Top Tenon Horizontal Arm Bracket
PTB2 <sup>9</sup>	Pole Top Tenon Horizontal Arm Bracket (2@180°)
WB <sup>9</sup>	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
PC <sup>10</sup>	Twist Lock Photocontrol
LLPC <sup>10</sup>	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

\*Accessories are ordered separately and not to be included in the catalog number. For factory installed HSS, CSS consult factory.



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**GreenCobra™ Midsize LED Street Light  
GCM H-Series Specification Data Sheet**

**Performance Data: 3000K (WW)**

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) <sup>1</sup>	Efficacy (Lm/W)
GCM2	30H	530	48	5770	120
		610	58	6700	116
		700	68	7620	112
		850	82	8800	107
		1A	101	10480	104
GCM2	40H	575	73	8780	120
		700	88	10230	116
		850	107	11960	112
		950	121	13040	108
		1A	135	14080	104

**Notes:**

1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

**Performance Data: 4000K (NW) and 5000K (CW)**

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) <sup>1</sup>	Efficacy (Lm/W)
GCM2	30H	530	48	6330	132
		610	58	7440	128
		700	68	8550	126
		850	82	9830	120
		1A	101	11720	116
GCM2	40H	575	73	9590	131
		700	88	11260	128
		850	107	13270	124
		950	121	14390	119
		1A	135	15430	114

**Notes:**

1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

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REVISION	DATE	BY



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FRONTAGE ILLUMINATION DETAILS

IL-07  
SHEET:  
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OF  
22

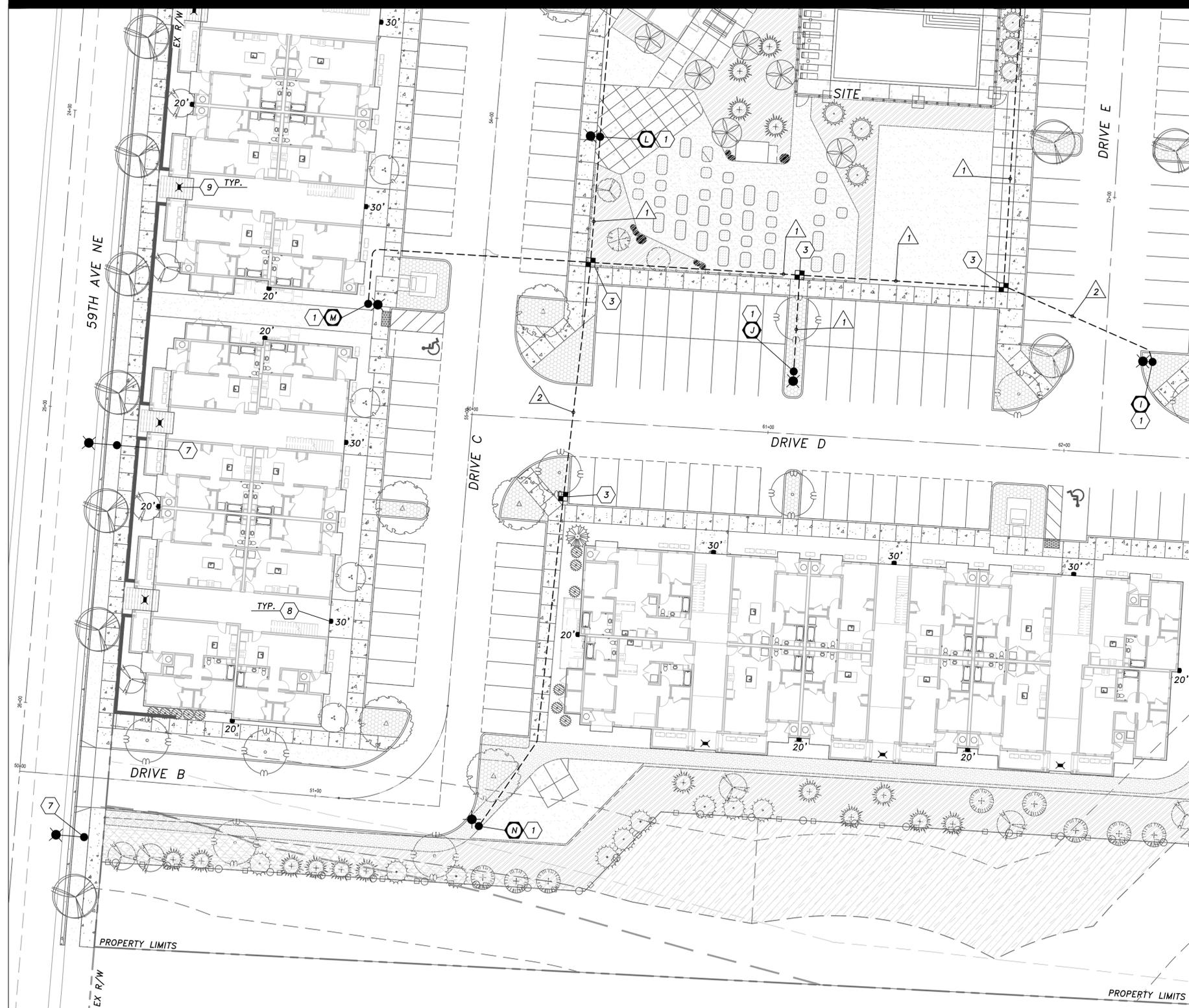






SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M. ILLUMINATION GENERAL NOTES

MATCH LINE - SEE SHEET OS-01



1. DEVELOPER MAY SUBSTITUTE POLE AND FIXTURE STYLES WITH ONES OF COMPARABLE PERFORMANCE AT TIME OF CONSTRUCTION. IF ALTERNATIVE MATERIALS ARE DESIRED, DEVELOPER SHALL PROVIDE MATERIALS SUBMITTALS TO THE CITY FOR APPROVAL PRIOR TO PROCUREMENT.
2. THE JUNCTION BOX AND CONDUIT LOCATIONS SHOWN ARE APPROXIMATE. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF SIDEWALKS UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
3. THE LOCATIONS OF FEATURES AND UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
4. THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE INSPECTOR FOR MATERIALS APPROVAL AT THE EARLIEST POSSIBLE DATE.
5. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY OF ARLINGTON IMMEDIATELY UPON DAMAGE.
7. AS PART OF THE DESIGN PROCESS, THE ENGINEER HAS ATTEMPTED TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH OVERHEAD POWER LINES OR SUBSURFACE UTILITIES. HOWEVER, IT IS POSSIBLE FOR THE EXISTING OR PROPOSED CONDITIONS TO CHANGE PRIOR TO IMPLEMENTATION OF THE SCOPE OF WORK IDENTIFIED ON THESE DOCUMENTS. AS THE FIRST ORDER OF BUSINESS, THE CONTRACTOR SHALL CONFIRM THAT THERE ARE NOT CONFLICTS WITH SUBSURFACE UTILITIES. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THAT THERE IS A MINIMUM 10-FT CIRCUMFERENTIAL CLEARANCE PROVIDED BETWEEN OVERHEAD POWER LINES AND THE PROPOSED LUMINAIRE POLES PRIOR TO POLE PLACEMENT. ADDITIONAL CLEARANCE MAY BE REQUIRED AS DIRECTED BY THE UTILITY. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.

ILLUMINATION CONSTRUCTION NOTES

1. CONSTRUCT TYPE B LUMINAIRE POLE FOUNDATION PER WSDOT STANDARD PLAN J-28.30, SHEET OS-09, AND ILLUMINATION POLE SCHEDULE, SHEET OS-05. FURNISH AND INSTALL NEW 25' MOUNTING HEIGHT LUMINAIRE POLE WITH CURRENT RAR1-160L-100-4K-4F FIXTURE, SEE DETAILS ON SHEET OS-06 AND OS-07. CONTRACTOR TO ENSURE THAT LUMINAIRE POLE BASE IS COMPATIBLE WITH ANCHOR BOLT LAYOUT FOR FIXED BASE DESIGN ON WSDOT STANDARD PLAN J-28.40, SHEET OS-10.
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3. FURNISH AND INSTALL 18"x24"x12" FIBERGLASS HANDHOLE WITH 10"x15" POLYMER CONCRETE COVER (HIGHLINE PRODUCTS CHA101512, OAE) OR SIMILAR PER DETAIL, SHEET OS-07.
4. INSTALL PHOTOCELL ON LIGHT POLE.
5. POWER SOURCE IS ASSUMED TO BE TRANSFORMER AT APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR COMPLETION OF ALL FORMS/APPLICATIONS ASSOCIATED FOR THE NEW SERVICE, INCLUDING PAYMENT OF ALL FEES. THE CONTRACTOR SHALL INSTALL CONDUIT AND CONDUCTORS TO THE POWER SOURCE. CONDUIT SHALL BE CONTINUOUS BETWEEN THE SERVICE CABINET AND THE POWER SOURCE. SNOOPUD SHALL MAKE THE FINAL CONNECTION TO THE POWER SOURCE.
6. FURNISH AND INSTALL TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10, SHEET OS-09.
7. LUMINAIRE POLE AND FIXTURE FOR PUBLIC STREET LIGHTING SHOWN FOR REFERENCE ONLY. SEE FRONTAGE ILLUMINATION PLANS FOR INSTALLATION INFORMATION.
8. INSTALL BUILDING MOUNTED LIGHT AT MOUNTED HEIGHT SHOWN, PER DETAILS ON SHEET OS-08.
9. SURFACE MOUNTED BUILDING ENTRY LIGHT SHOWN FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

MATCH LINE - SEE SHEET OS-04

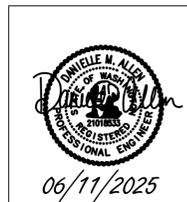
ILLUMINATION WIRING SCHEDULE							
CONDUIT NO.	RACEWAY CONDUIT SIZE	ILLUM. #8		SVC. POWER #3		EQUIP. DETECT. PULL WIRE	
		EX.	NEW	EX.	NEW	EX.	NEW
1	1" SCH40 PVC		2			1	0.17 0.22
2	1.25" SCH80 PVC		2			1	0.17 0.32
3	2" SCH80 PVC			3			0.34 0.75

\* EQUIPMENT GROUND SIZE SHALL BE EQUAL TO OR LARGER THAN THE LARGEST WIRE SIZE IN THE CONDUIT.

ILLUMINATION LEGEND

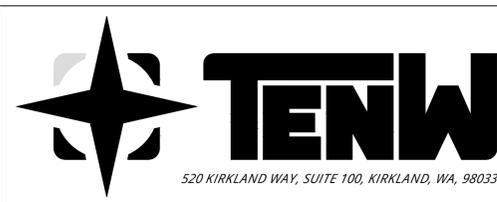
- | NEW | DESCRIPTION   |
|-----|---|
|     | JUNCTION BOX TYPE 2                                 |
|     | OFF-SITE LUMINAIRE POLE                             |
|     | ON-SITE WALL MOUNTED FIXTURE (MH) = MOUNTING HEIGHT |
|     | ON-SITE ENTRY LIGHT                                 |
|     | ON-SITE LUMINAIRE POLE                              |
|     | FIBERGLASS HANDHOLE                                 |
|     | SERVICE CABINET                                     |
|     | ILLUMINATION POLE NUMBER                            |
|     | CONSTRUCTION NOTE                                   |
|     | WIRE NOTE   |
|     | CONDUIT/CONDUCTOR                                   |

REVISION	DATE	BY



TENW CONTACT:  
 DANIELLE ALLEN, P.E.  
 SENIOR PROJECT MANAGER  
 DANIELLE@TENW.COM  
 401-368-8853

ISSUE DATE: 06-11-2025  
 JOB NO.: TENW #2024-143  
 DESIGNED BY: BL/KEW/TDR  
 DRAWN BY: BL/KEW/TDR  
 APPROVED BY: DMA



QUATTERRA MULTIFAMILY COMMUNITIES, LLC  
 1325 FOURTH AVE, SUITE 1300  
 SEATTLE, WA, 98101  
 206-708-2294  
 BRAD MACHAT

QUATTERRA SR 530 SITE  
 ARLINGTON, WA

ON-SITE ILLUMINATION PLAN

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 OF  
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**SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M. ILLUMINATION GENERAL NOTES**  
 MATCH LINE - SEE SHEET OS-02

1. DEVELOPER MAY SUBSTITUTE POLE AND FIXTURE STYLES WITH ONES OF COMPARABLE PERFORMANCE AT TIME OF CONSTRUCTION. IF ALTERNATIVE MATERIALS ARE DESIRED, DEVELOPER SHALL PROVIDE MATERIALS SUBMITTALS TO THE CITY FOR APPROVAL PRIOR TO PROCUREMENT.
2. THE JUNCTION BOX AND CONDUIT LOCATIONS SHOWN ARE APPROXIMATE. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF SIDEWALKS UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
3. THE LOCATIONS OF FEATURES AND UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
4. THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE INSPECTOR FOR MATERIALS APPROVAL AT THE EARLIEST POSSIBLE DATE.
5. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY OF ARLINGTON IMMEDIATELY UPON DAMAGE.
7. AS PART OF THE DESIGN PROCESS, THE ENGINEER HAS ATTEMPTED TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH OVERHEAD POWER LINES OR SUBSURFACE UTILITIES. HOWEVER, IT IS POSSIBLE FOR THE EXISTING OR PROPOSED CONDITIONS TO CHANGE PRIOR TO IMPLEMENTATION OF THE SCOPE OF WORK IDENTIFIED ON THESE DOCUMENTS. AS THE FIRST ORDER OF BUSINESS, THE CONTRACTOR SHALL CONFIRM THAT THERE ARE NOT CONFLICTS WITH SUBSURFACE UTILITIES. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THAT THERE IS A MINIMUM 10-FT CIRCUMFERENTIAL CLEARANCE PROVIDED BETWEEN OVERHEAD POWER LINES AND THE PROPOSED LUMINAIRE POLES PRIOR TO POLE PLACEMENT. ADDITIONAL CLEARANCE MAY BE REQUIRED AS DIRECTED BY THE UTILITY. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.

**ILLUMINATION CONSTRUCTION NOTES**

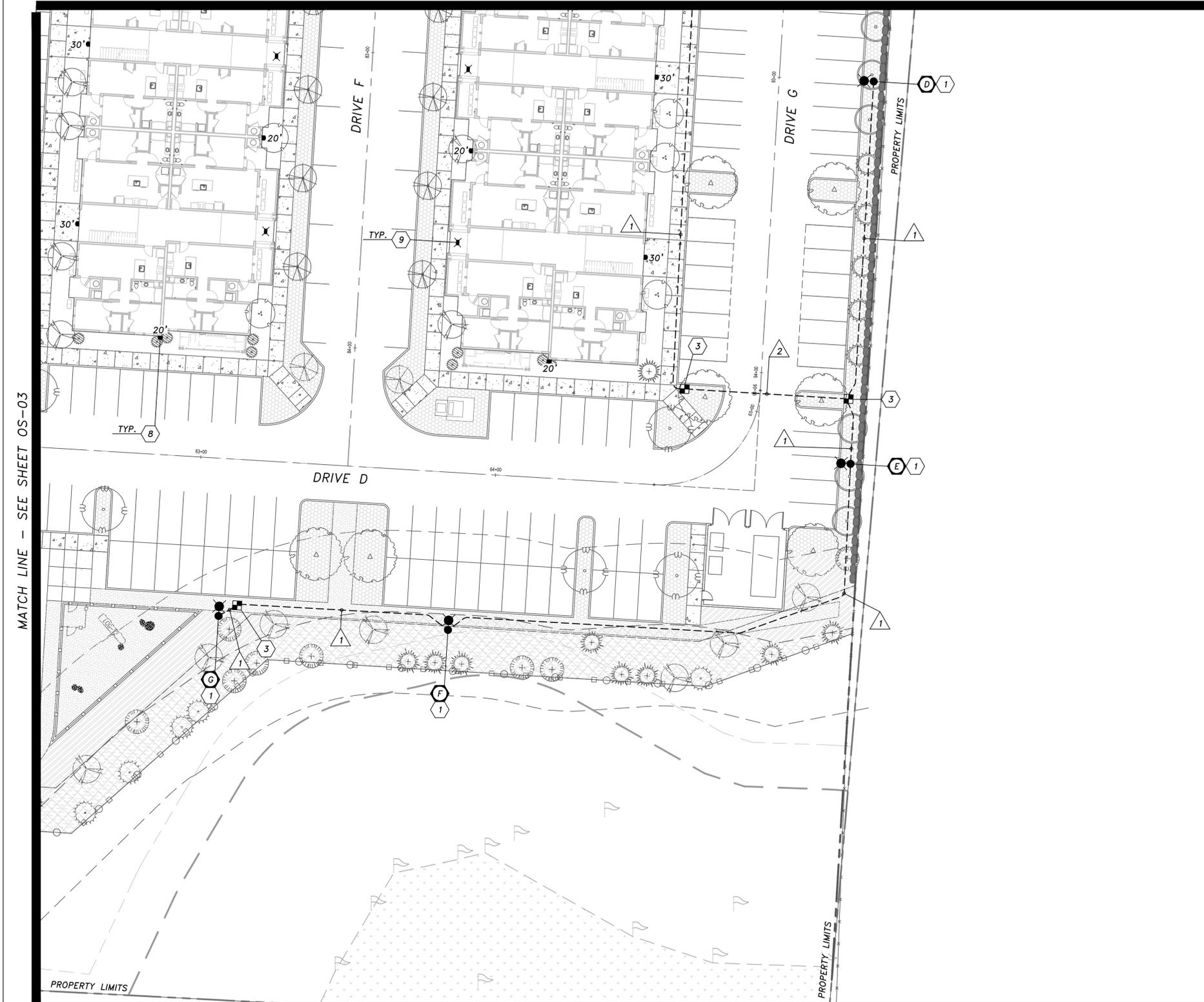
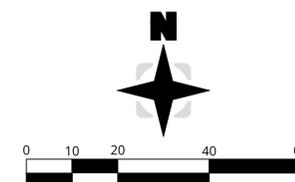
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ILLUMINATION WIRING SCHEDULE							
△ NO.	RACEWAY CONDUIT SIZE	ILLUM. #8		SVC POWER #3		EQUIP. GRND. *	
		EX.	NEW	EX.	NEW	EX.	NEW
1	1" SCH40 PVC		2			1	
2	1.25" SCH80 PVC		2			1	
3	2" SCH80 PVC			3			

\* EQUIPMENT GROUND SIZE SHALL BE EQUAL TO OR LARGER THAN THE LARGEST WIRE SIZE IN THE CONDUIT.

**ILLUMINATION LEGEND**

- | NEW | DESCRIPTION  |
|-----|--|
|     | JUNCTION BOX TYPE 2                                    |
|     | OFF-SITE LUMINAIRE POLE                                |
|     | ON-SITE WALL MOUNTED FIXTURE<br>(MH) = MOUNTING HEIGHT |
|     | ON-SITE ENTRY LIGHT                                    |
|     | ON-SITE LUMINAIRE POLE                                 |
|     | FIBERGLASS HANDHOLE                                    |
|     | SERVICE CABINET  |
|     | ILLUMINATION POLE NUMBER                               |
|     | CONSTRUCTION NOTE                                      |
|     | WIRE NOTE  |
|     | CONDUIT/CONDUCTOR                                      |



△	REVISION	DATE	BY



TENW CONTACT:  
 DANIELLE ALLEN, P.E.  
 SENIOR PROJECT MANAGER  
 DANIELLE@TENW.COM  
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QUARTERRA MULTIFAMILY COMMUNITIES, LLC  
 1325 FOURTH AVE, SUITE 1300  
 SEATTLE, WA, 98101  
 206-708-2294  
 BRAD MACHAT

**QUARTERRA SR 530 SITE  
 ARLINGTON, WA**

**ON-SITE ILLUMINATION PLAN**

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 OF  
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# SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.



DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

### FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



### CONTROL TECHNOLOGY



### SERVICE PROGRAMS



	Weight	EPA at 0'
RAR1	135 lbs / 61 kg	.45ft <sup>2</sup> / 13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft <sup>2</sup> / 17m <sup>2</sup>

### SPECIFICATIONS

#### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

#### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knockie arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

#### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3. Automatically takes fixture off-line for protection when device is compromised
- Controls
  - Photo control, occupancy sensor and wireless available for complete on/off and dimming control
  - 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
  - 0-10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
  - NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

#### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IES recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy American (B) Solutions (link to https://www.currentlighting.com/resources/american-solutions)
- WARRANTY
  - 5 year limited warranty
  - See HLI Standard Warranty for additional information



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DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

### ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires QS10

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
RAR1 Ratio Area Size 1	80L-25	25W - 3000 Lumens	3K7 3000K, 70 CRI	2 IES TYPE II	UNV Universal 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V
	80L-39	39W - 5,200 Lumens	4K7 4000K, 70 CRI	3 IES TYPE II	
	80L-50	50W - 6,000 Lumens	5K7 5000K, 70 CRI	4 IES TYPE II	
	160L-70	70W - 9,000 Lumens		4F IES TYPE IV Forward	
	160L-100	100W - 12,000 Lumens		50W IES TYPE V	
	160L-115	115W - 15,000 Lumens			
RAR2 Ratio Area Size 2	320L-110	110W - 15,000 Lumens			
	320L-140	140W - 19,000 Lumens			
	320L-165	165W - 21,000 Lumens			
	480L-185	185W - 24,000 Lumens			
	480L-210	210W - 27,000 Lumens			
	480L-240	240W - 30,000 Lumens			
	480L-255	255W - 36,000 Lumens			
	480L-295	295W - 42,000 Lumens			
480L-340	340W - 48,000 Lumens				

Mounting	Color	Control Options Network	Options
ASO Arm mount for square pole/flat surface	BLT Black Matte Textured	NXWS16F NX Networked Wireless Enabled Integral NXM2P-LMO PIR Occupancy Sensor with Automatic Dimming Protocol and Bluetooth Programming <sup>12</sup>	BC Backlight control <sup>8</sup>
ASQU Universal arm mount for square pole/flat surface. Does not include round pole adapt or B3 drill pattern	BLS Black Gloss Smooth	NXWS40F NX Networked Wireless Enabled Integral NXM2P-HM3 PIR Occupancy Sensor with Automatic Dimming Protocol and Bluetooth Programming <sup>12</sup>	F Fusing <sup>5</sup>
Mounting Round Poles	DBT Dark Bronze Matte Textured	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>13</sup>	TB Terminal block
A_ Arm mount for round pole/ B3 drill pattern	DBS Dark Bronze Gloss Smooth	Control Options Other	ZPF 2 power feed with 2 drivers <sup>9</sup>
A_U Universal arm mount for round pole	GTT Graphite Matte Textured	SCP_F Programmable occupancy sensor <sup>14</sup>	
Mounting Other	LSG Light Grey Gloss Smooth	7PR 7-Pin twist lock receptacle	
WB Wall bracket	PSS Platinum Silver Smooth	7PR-SC 7-Pin receptacle with shorting cap	
MAF Mast arm fitter for 2-3/8" OD horizontal arm	WHT White Matte Textured	7PR-MD40F Low voltage sensor for 7PR	
K Knockie	WHS White Gloss Smooth	7PR-TL 7-Pin PCB with photocontrol	
	VTG Verde Green Textured	ADD AutoDim Time Based Dimming	
	CC Custom Color	ADT AutoDim Time of Day Dimming	
		BTS-14F Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Protocol and 360° Lens <sup>9</sup>	
		BTS-40F Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Protocol and 360° Lens <sup>9</sup>	
		BTSO-12F Bluetooth® Programmable, BTSMP-DMV-O-PIR Occupancy Sensor with Automatic Dimming Protocol and 360° Lens <sup>9</sup>	

Notes:  
 1 Replace "L" with "T" for 3.5"-4.5" OD pole, "4" for 4.8"-5.25" OD pole, "5" for 5.5"-6.5" OD pole  
 2 Not available with 25, 50, 255, 295 & 340W configurations  
 3 At least one SCPEMOTE required to program SCP motion sensor  
 4 Replace "L" with "R" or "40F" lens  
 5 Must specify voltage  
 6 Networked Controls cannot be combined with other control options  
 7 Not available with 2PF option  
 8 BC not available on 4F distributions  
 9 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage



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DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

### STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

### POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (80°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (80°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (80°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (80°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (80°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (80°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (80°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (80°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (80°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (80°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (80°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (80°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-5TK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-5TK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-3TK-KIT		Kit Only	Not Included						



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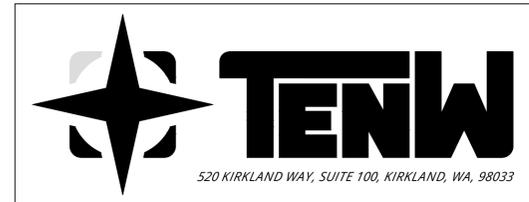
Page 5 of 15  
 Rev 07/22/24  
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REVISION	DATE	BY



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JOB NO.:	TENW #2024-143
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DRAWN BY:	BL/KEW/TDR
APPROVED BY:	DMA



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QUARTERRA SR 530 SITE  
 ARLINGTON, WA  
 ON-SITE ILLUMINATION PLAN DETAILS

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# SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.



Catalog Number	
Project	Type

### FEATURES & SPECIFICATIONS

**APPLICATION** — The high performance luminaire is designed for full cutoff applications where long life, low maintenance, and consistent color rendering are required. Areas with limited accessibility due to fixture location or where heavy pedestrian traffic makes maintenance difficult are ideal applications such as building facade lighting or wall mounted security lighting. The contemporary design style of the luminaire allows it to be seamlessly integrated into existing systems when necessary.

**CONSTRUCTION** — The heavy duty housing is constructed of die cast aluminum. The optical assemblies are sealed in place using a silicone gasket for weather tight protection. IP66 rating available upon request.

**FINISH** — A Super Durable Polyester E-coat powder coat finish is electrostatically applied in our state of the art paint facility. Standard colors available: Black, Bronze, US Green, White. Custom colors available upon request.

**OPTICAL SYSTEM** — Made with a state of the art UV stabilized acrylic high performance refractive optical assemblies that use high transmittance materials to achieve precise photometric distributions. Available in Type II, III, and IV beam configurations. Star Light Friendly (meets or exceeds Dark Sky requirements) in the horizontal position.

**ELECTRICAL SYSTEM** — Available in a high output LED system in 5000K Cool White (+/- 500K), 4000K Neutral White or 3000K Warm White color. Available with 90-300V 50/60 Hz Class II power supply. LED is rated for over 100,000 hours at 55°C ambient temperature. Available with 120-277V 50/60 Hz power supply. 480V and 347V input option. Built-in surge protection up to 6 kV. Built-in Active PFC Function LED driver conforms to UL8750 standards.

### ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

CTLW 1						
SERIES	COLOR TEMP./CCT	NOMINAL LUMENS <sup>1</sup>	OPTICS	VOLTAGE	FINISH	OPTIONS
<b>C</b>	Cool White (5000K)	<b>2L</b> = 2,000 Lumens	<b>T2</b> = Type II	<b>1</b> = Multi-Volt <sup>2</sup>	<b>BZ</b> = Bronze	<b>SCE</b> = Side Conduit Entry (2 x N <sup>1</sup> -14 NPS Conduit)
<b>N</b>	Neutral White (4000K)	<b>3L</b> = 3,000 Lumens	<b>T3</b> = Type III	<b>2</b> = 347-480V	<b>BK</b> = Black	<b>BDSB</b> = Bird-deterrent spikes
<b>W</b>	Warm White (3000K)	<b>4L</b> = 4,000 Lumens	<b>T4</b> = Type IV		<b>GR</b> = US Green	<b>PC3*</b> = Button-Type Photocell 208-277V (1200W)
		<b>5L</b> = 5,000 Lumens			<b>WH</b> = White	<b>P1000PC*</b> = Button-Type Photocell 120V (1000W)
		<b>6L</b> = 6,000 Lumens			<b>SP</b> = Special <sup>3</sup>	<b>HOEB*</b> = LED Battery Pack, 90 min
		<b>7L</b> = 7,000 Lumens				<b>IMS*</b> = Fixture Mount Passive Infrared Motion Sensor
		<b>8L</b> = 8,000 Lumens				(IMS Lenses Below, Ordered Separately)
		<b>9L</b> = 9,000 Lumens				<b>TLWSFSP-L2*</b> = 360° lens, maximum coverage 48" diameter from 8' height (IMS)
		<b>10L</b> = 10,000 Lumens				<b>TLWSFSP-L3*</b> = 360° lens, maximum coverage 40" diameter from 20' height (IMS)
						<b>IMSBTM*</b> = AC Powered Internal Network Wireless PIR & Daylight Harvesting Sensor.
						(MSBTM Lenses Below, Ordered as a Separate Line Item)
						<b>WHBL1*</b> = 360° PIR lens, maximum coverage 80" dia. from 40' height (MSBTM)

### ACCESSORIES (Order as separate line items)

**TLWSFSIR-100** Remote Handheld Sensor Configuration Tool (For IMS Option)



### NOTES

- Multi-Volt is an auto ranging power supply from 100V to 300V input.
- Custom RAL color matching is available. Contact your sales representative for additional info.
- TLWSFSP-L3 or L7 Lens must be ordered along with this sensor.
- Photo control shield available upon request. Lens must be ordered with IMS option.
- P1000PC operates at 120V and PC3 operates at 208-277V only.
- If selecting the HOEB option alongside the IMS option, the IMS sensor will be 'externally mounted' outside of the fixture. MSBTM not available with HOEB option.
- WHBL1 Lens must be ordered along with the MSBTM sensor.
- 347-480V input available in 8L, 9L, and 10L ONLY.
- Reference Lumen Chart to identify CCT and Optic Type availability for 10L module.
- Some combinations may deviate from ordering logic shown above.



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\*\*All dimensions and specifications are subject to change without notice.\*\*

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## CTLW 1 SERIES

### Cutlass LED - Wall Pack



SERIES	LENGTH HEIGHT & WIDTH
<b>CTLW 1</b>	11.54" x 6.12" x 7.46"

**MOUNTING** — Quick mount bracket connects to a standard J-Box. The bracket has a unique hanging feature to allow easy wire connections. After connections are made, the fixture swings down and is secured with two retaining screws at the bottom of the fixture.

**LISTINGS** — LED Driver listed for wet locations. LED Brake ETL listed for wet locations. Meets US and Canadian safety standards. 40°C to 50°C ambient operation.

EXAMPLE:

**CTLW 1 N 8L T4 1 BZ SCE**

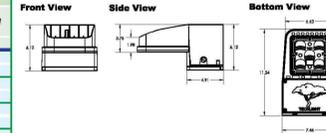
## CTLW 1 Cutlass LED - Wall Pack

### LUMINAIRE CHARACTERISTICS

Output ID	Nominal Lumens	TYPE II			TYPE III			TYPE IV		
		System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W
		BUG Rating			BUG Rating			BUG Rating		
2L	2,000	2,034	14	145	2,032	14	145	2,111	14	151
3L	3,000	3,110	23	135	3,106	23	135	2,857	20	143
4L	4,000	4,171	32	130	4,166	32	130	3,964	29	137
5L	5,000	4,982	36	138	4,911	36	136	4,917	34	145
6L	6,000	6,077	45	135	5,990	45	133	6,064	43	141
7L	7,000	6,889	52	133	7,056	54	131	6,916	50	138
8L	8,000	7,961	61	131	8,109	63	129	8,039	59	136
9L	9,000	9,020	71	127	8,890	71	125	8,872	66	134
10L	10,000	-	-	-	-	-	-	9,698	73	133

### AVAILABLE FIXTURE DIMENSIONS

Dimensions shown are for fixture bodies only. Mounting options must be ordered separately.



### ADDITIONAL FIXTURE OPTIONS & ACCESSORIES



LED's rated for over 50,000 hours at 25°C ambient temperature.



\* = 347-480V Not Available

System Wattage	L70 @ 25°C	Amperage Draw					
		120V	208V	240V	277V	347V	480V
17	>100K	0.14	0.08	0.07	0.06	-	-
26	>100K	0.22	0.13	0.11	0.09	-	-
30	>100K	0.26	0.15	0.13	0.11	-	-
35	>100K	0.29	0.17	0.14	0.13	-	-
37	>100K	0.31	0.18	0.15	0.13	0.11	0.08
39	>100K	0.32	0.19	0.16	0.14	0.11	0.08
42	>100K	0.35	0.20	0.18	0.15	0.12	0.09
47	>100K	0.39	0.22	0.19	0.17	0.13	0.10
53	>100K	0.44	0.25	0.22	0.19	0.15	0.11
59	>100K	0.49	0.28	0.25	0.21	0.17	0.12
65	>100K	0.54	0.31	0.27	0.24	0.19	0.14
71	>100K	0.60	0.34	0.30	0.26	0.21	0.15
78	>100K	0.65	0.37	0.32	0.28	0.22	0.16

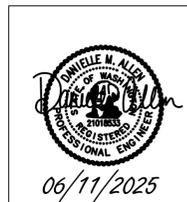


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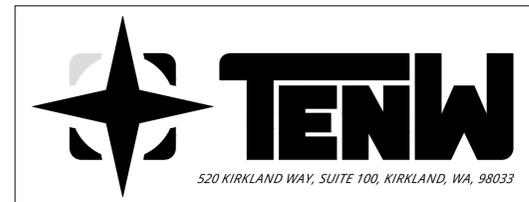
REV: 20240606-05

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ISSUE DATE: 06-11-2025  
 JOB NO.: TENW #2024-143  
 DESIGNED BY: BL/KEW/TDR  
 DRAWN BY: BL/KEW/TDR  
 APPROVED BY: DMA



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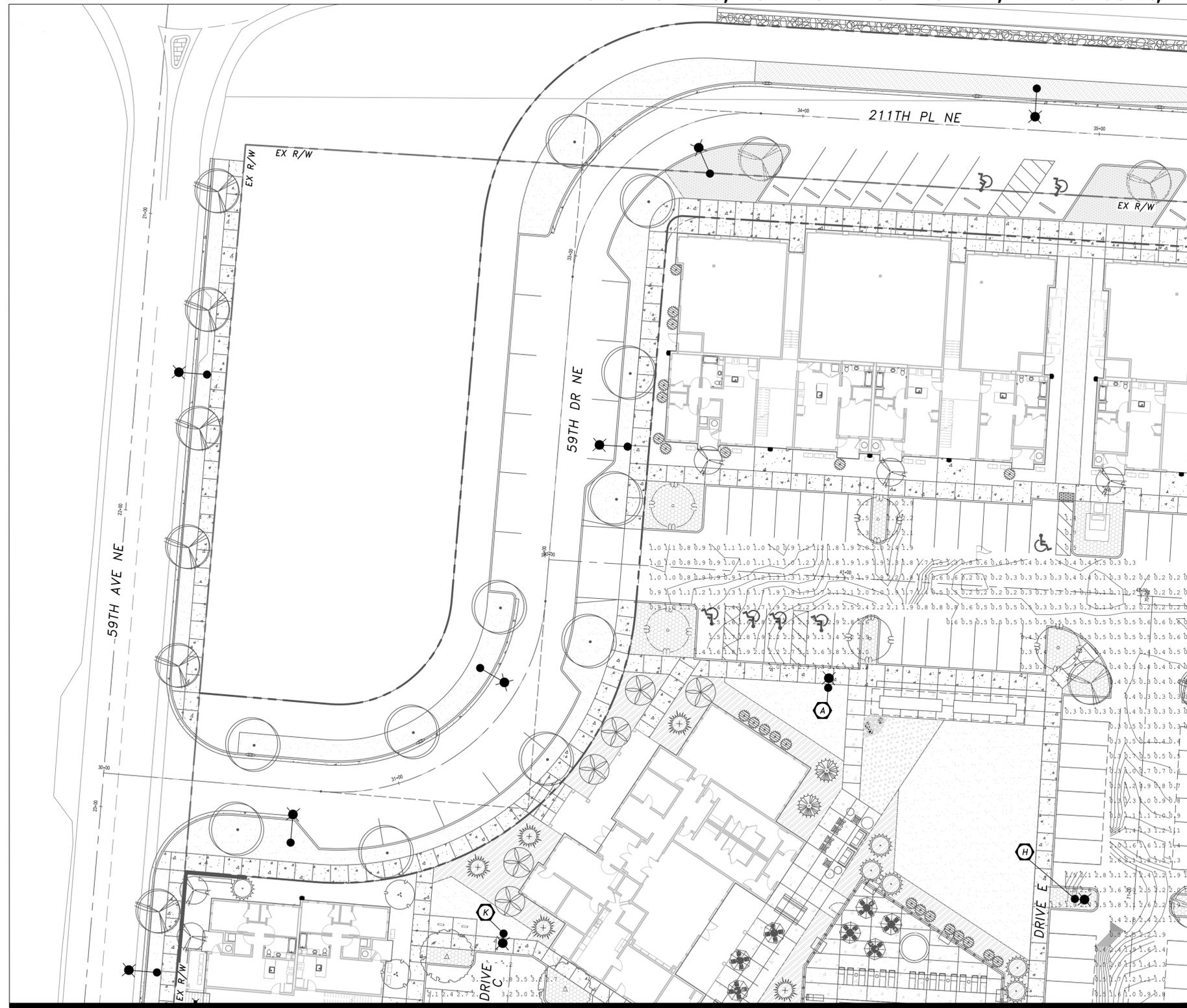
ON-SITE ILLUMINATION PLAN DETAILS

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SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.



CALCULATION AREA	DESIGN CRITERIA		TARGET	ACTUAL
	AVG. MAINTAINED FOOT CANDLES	UNIFORMITY RATIO AVG. FC/ MIN. FC		
ON-SITE ROADWAY LIGHTING - DRIVE A THROUGH DRIVE E	0.30 <sup>(1)</sup>	6.00:1 <sup>(1)</sup>		
	<b>1.16</b>			<b>11.60</b>

(1) PER ANSI/IES ROADWAY & PARKING FACILITY LIGHTING TABLE 11-1.

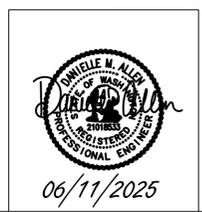
NOTE: PHOTOMETRICS EXCLUDED UNDER CARPORTS. CARPORTS SHALL HAVE THEIR OWN LIGHTING UNDER THE CANOPY. SEE ARCHITECTURAL PLANS FOR MORE DETAILS.

**ILLUMINATION LEGEND**

EXIST.	NEW	DESCRIPTION
		OFF-SITE LUMINAIRE POLE
		ON-SITE LUMINAIRE POLE
		ON-SITE WALL MOUNTED FIXTURE
		ILLUMINATION POLE NUMBER

MATCH LINE - SEE SHEET PC-03

REVISION	DATE	BY



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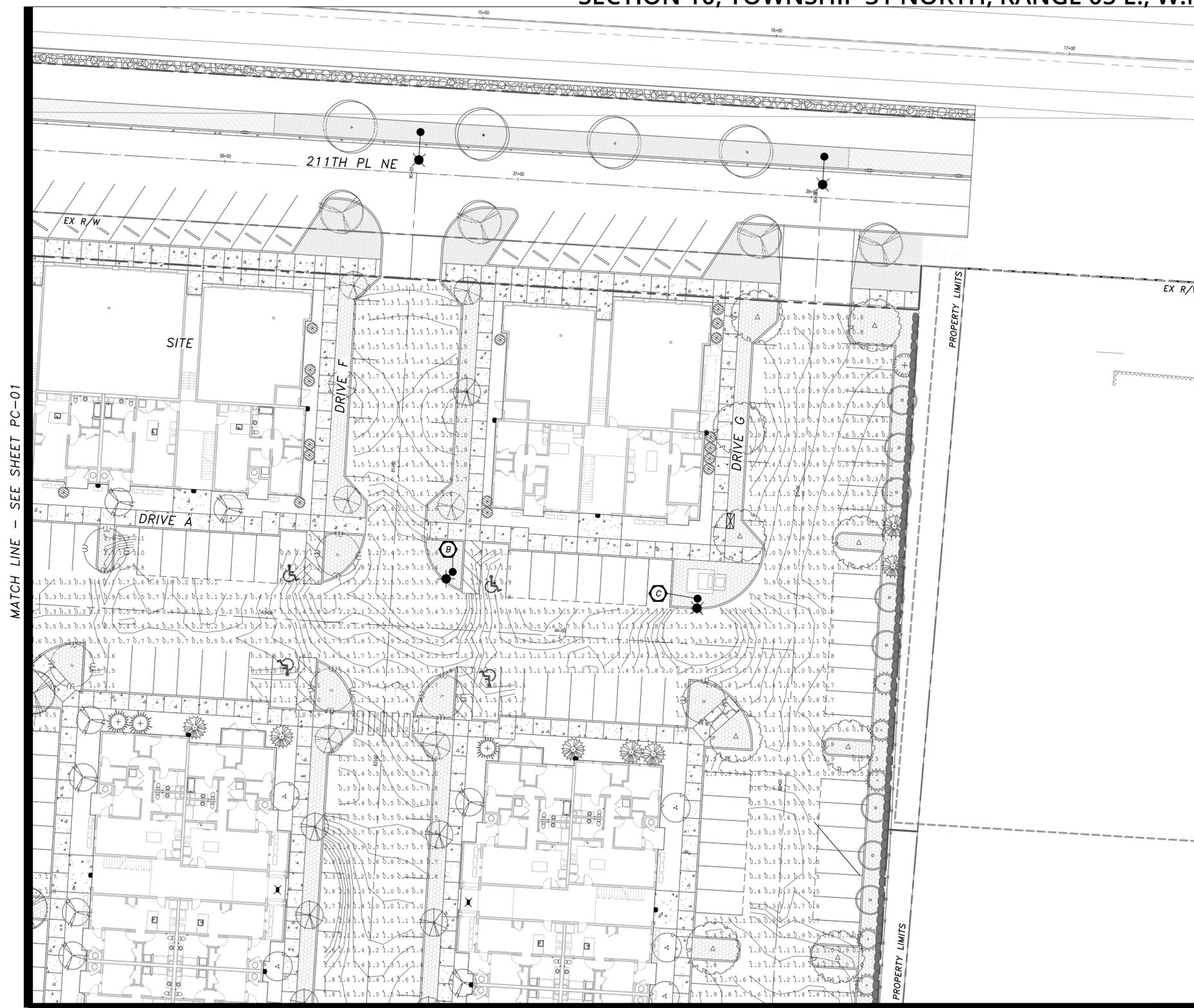
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BRAD MACHAT

**QUARTERRA SR 530 SITE  
ARLINGTON, WA**

**ON-SITE PHOTOMETRIC CALCULATIONS**

PC-01  
SHEET:  
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# SECTION 10, TOWNSHIP 31 NORTH, RANGE 05 E., W.M.

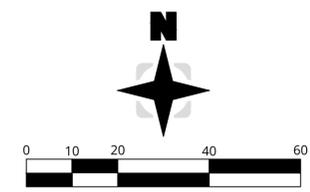


CALCULATION AREA	DESIGN CRITERIA	
	AVG. MAINTAINED FOOT CANDLES	UNIFORMITY RATIO AVG. FC/ MIN. FC
ON-SITE ROADWAY LIGHTING - DRIVE A THROUGH DRIVE E	0.30 <sup>(1)</sup>	6.00:1 <sup>(1)</sup>
	<b>1.16</b>	<b>11.60</b>

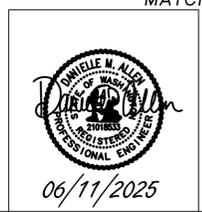
(1) PER ANSI/IES ROADWAY & PARKING FACILITY LIGHTING TABLE 11-1.

NOTE: PHOTOMETRICS EXCLUDED UNDER CARPORTS. CARPORTS SHALL HAVE THEIR OWN LIGHTING UNDER THE CANOPY. SEE ARCHITECTURAL PLANS FOR MORE DETAILS.

ILLUMINATION LEGEND		
EXIST.	NEW	DESCRIPTION
		OFF-SITE LUMINAIRE POLE
		ON-SITE LUMINAIRE POLE
		ON-SITE WALL MOUNTED FIXTURE
		ILLUMINATION POLE NUMBER



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PC-02  
 SHEET:  
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