

Jurisdiction	El Dorado County - Unincorporated	
Reporting Year	2023	(Jan. 1 - Dec. 31)
Housing Element Planning Period	6th Cycle	05/15/2021 - 05/15/2029

Building Permits Issued by Affordability Summary		
Income Level		Current Year
Very Low	Deed Restricted	48
	Non-Deed Restricted	15
Low	Deed Restricted	32
	Non-Deed Restricted	26
Moderate	Deed Restricted	0
	Non-Deed Restricted	34
Above Moderate		471
Total Units		626

Note: Units serving extremely low-income households are included in the very low-income permitted units totals

Units by Structure Type	Entitled	Permitted	Completed
Single-family Attached	0	0	0
Single-family Detached	9	436	443
2 to 4 units per structure	0	0	0
5+ units per structure	0	81	0
Accessory Dwelling Unit	0	75	50
Mobile/Manufactured Home	0	34	29
Total	9	626	522

Infill Housing Developments and Infill Units Permitted	# of Projects	Units
Indicated as Infill	16	16
Not Indicated as Infill	539	610

Housing Applications Summary	
Total Housing Applications Submitted:	16
Number of Proposed Units in All Applications Received:	4,983
Total Housing Units Approved:	0
Total Housing Units Disapproved:	0

Use of SB 35 Streamlining Provisions - Applications	
Number of SB 35 Streamlining Applications	0
Number of SB 35 Streamlining Applications Approved	0

Units Constructed - SB 35 Streamlining Permits			
Income	Rental	Ownership	Total
Very Low	0	0	0
Low	0	0	0
Moderate	0	0	0
Above Moderate	0	0	0
Total	0	0	0

Streamlining Provisions Used - Permitted Units	# of Projects	Units
SB 9 (2021) - Duplex in SF Zone	0	0
SB 9 (2021) - Residential Lot Split	0	0
AB 2011 (2022)	0	0
SB 6 (2022)	0	0
SB 35 (2017)	0	0

Ministerial and Discretionary Applications	Applications	Units
Ministerial	0	0
Discretionary	16	4983

Density Bonus Applications and Units Permitted	
Number of Applications Submitted Requesting a Density Bonus	1
Number of Units in Applications Submitted Requesting a Density Bonus	161
Number of Projects Permitted with a Density Bonus	0
Number of Units in Projects Permitted with a Density Bonus	0

Housing Element Programs Implemented and Sites Rezoned	Count
Programs Implemented	40
Sites Rezoned to Accommodate the RHNA	0



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EL DORADO COUNTY
PLANNING COMMISSION

[Signature]

DATE: January 9, 2025

EXECUTIVE SECRETARY: Karen L. Garner



Highway 49 at Koki Lane

[illegible]

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. © ARCHITECTS LOCAL 2623	
DATE	AL PROJECT NUMBER
03/13/24	2-242102
	ADD PROJECT NUMBER

1-BED ELEVATIONS



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PRCA

APARTMENT BUILDINGS- EXTERIOR FINISHES



STUCCO

PT 8
SAND FINISH COLOR

CLIQUE SCOP-RES
DFT-847
MONT-76 S

SP-1
MARBLE (BIBINQUE PIERRE)

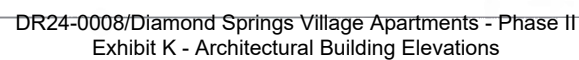
PPC1432 POR 1 in C 2 in
PT 11 (2-423) (PMAH-5)



† stucco



STUCCO



① BUILDING ELEVATION 1
 $3/16" = 1'-0"$

② BUILDING ELEVATION 2
3/16" = 1'-0"



DATE: January 9, 2025

EXECUTIVE SECRETARY: Karen L. Garner

APARTMENT BUILDINGS- EXTERIOR FINISHES



☆ *Stuppa*

FIG.
SHED FIBER—COLOR 1
OCEAN SCORPION
EFT-1000
100-1000

SH-1
MARCHE SHINOLE ROMBO
PISCINA FONTAINE 22
PISCINA FONTAINE 22
PISCINA FONTAINE 22



Замечание

2010
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DATE	AL PROJECT NUMBER
03/13/2024	2-212402
	311 HAYS BOW STREET

3-BED ELEVATIONS

A3.21

Architectural elevation drawing of the rear of a building. The drawing shows a gabled roof with a central dormer. The facade is divided into three horizontal levels. The top level is labeled "TOP OF PLATE 10'-8 5/8\"". The middle level is labeled "LEVEL 2 10'-4 5/8\"". The bottom level is labeled "LEVEL 1". The building has a central entrance with a small porch and two side entrances. There are several windows, including a large central window and smaller windows on the sides. The drawing is a technical architectural elevation.

#13
5-ND P205- COLOR 1
L204K 0204-006
D179067
600-7070-2

01.9
 01.10 01.11 01.12 01.13
 01.14 01.15 01.16 01.17
 01.18 01.19 01.20

PLAC
MAY 23 1998 - C. J. 20 3
C. J. 20 3
C. J. 20 3
C. J. 20 3

3-BED ELEVATIONS

A3.22





WDGE1 LED

Architectural Wall Sconce



Catalog
Number

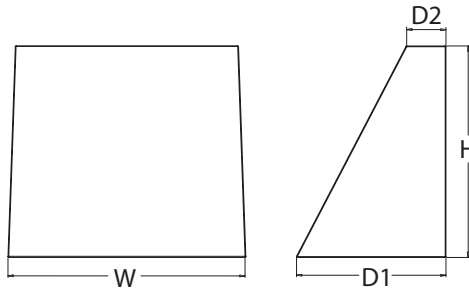
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: 9 lbs
 (without options)



Introduction

The WDGE1 LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
 *See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	6,000	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT 347 ²	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ³ Shipped separately AWS 3/8inch Architectural wall spacer ⁴ PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available. ⁴
	P1	30K 3000K	90CRI	VW Visual comfort wide		
	P2	35K 3500K				
		40K 4000K				
		50K ¹ 5000K				

Options

Finish

E4WH Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)⁵
PE Photocell, Button Type⁶
DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)⁷
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.
DSLE Dual Switching (1 Driver, 2 Light Engines)
CCE Coastal Construction⁴

DDBXD Dark bronze
DBLXD Black
DNAXD Natural aluminum
DWHXD White
DSSXD Sandstone

DBDXTD Textured dark bronze
DBLXTD Textured black
DNATXD Textured natural aluminum
DWHGXD Textured white
DSSTXD Textured sandstone



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DATE: January 9, 2025

EXECUTIVE SECRETARY: Karen L. Garner

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COMMERCIAL OUTDOOR

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WDGE1 LED
 Rev. 08/07/24

DR24-0008/Diamond Springs Village Apartments - Phase II
 Exhibit M - Preliminary Lighting Plan

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U	WDGE1 surface-mounted back box (specify finish)

NOTES

- 1 50K not available in 90CRI.
- 2 347V not available with E4WH, DS, DSLE or PE.
- 3 Not qualified for DLC. Not available with E4WH.
- 4 For PBBW and AWS with CCE option, require an RFA.
- 5 E4WH not available with PE or DS.
- 6 PE not available with DS.
- 7 DS is not available with P0.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	VF	693	99	0	0	0	718	103	0	0	0	739	106	0	0	0	759	108	0	0	0	764	109	0	0	0
		VW	694	99	0	0	0	720	103	0	0	0	740	106	0	0	0	760	109	0	0	0	766	109	0	0	0
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P0	7W	0.060	0.035	0.030	0.026	--
	9W	--	--	--	--	0.026
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91



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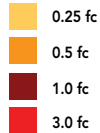
WDGE1 LED

Rev. 08/07/24

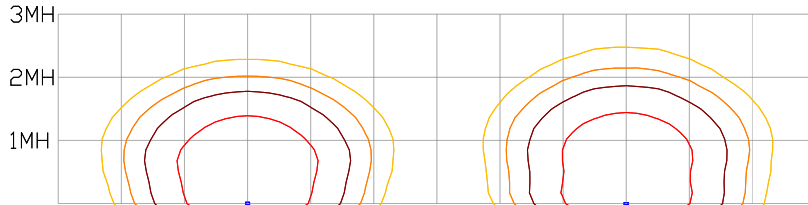
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage.
Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND



MH = 8ft
Grid = 8ft x 8ft



WDGE1 LED P2 40K 80CRI VW

WDGE1 LED P2 40K 80CRI VF

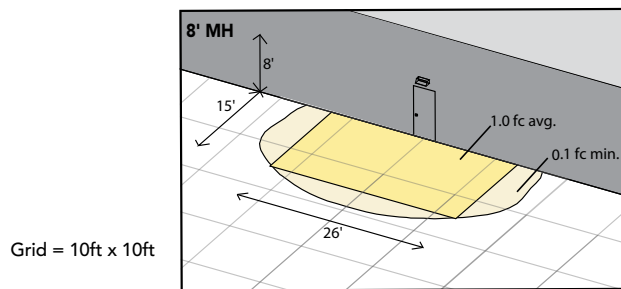
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.

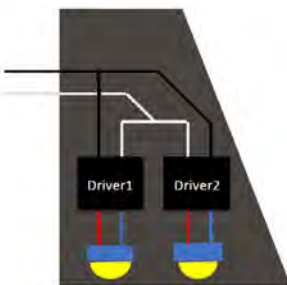


WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark.

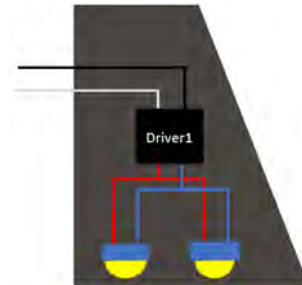
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Dual Switching Light Engine (DSLE) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with one driver and two light engines. These work completely independent to each other so that a failure of either light engine does not cause the whole luminaire to go dark.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9





E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

GOVERNMENT PROCUREMENT

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

AREA & ROADWAY LIGHTING

RAZAR SERIES - LED

LOW PROFILE AREA LUMINAIRE

Optical Housing

Heavy cast aluminum assembly minimum wall thickness .188". LED Module mounting area is machined to within a 0.002" surface flatness variance for maximum surface contact and thermal conductivity from the LED modules to the radiating fins. Passive radiating fins above the LED Optics provide superior thermal management and long LED life. The optical and electrical compartments are integrated with the support arm to create one assembly. Cast and hinged driver compartment cover allows access to the drivers and wiring.

Electrical Housing w/ Integrated Arm

Heavy cast aluminum assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

Mast Arm Fitter/Electrical Housing

Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5° or +3° up from the horizontal. All hardware is stainless steel.

PLED™ Optics

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side, maximizing usable light. Optional house side shields are available that cover each individual optic. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-disconnects are provided above each panel for fast field replacement. All fixture optical options will provide a "U0" no uplight optical package and is are dark sky friendly.

LED Emitters

LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life, high lumen maintenance and color stability. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard Warm White (2700K & 3000K), Neutral White (4000K), or Cool White (5000K). All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TRA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz. 0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with a separate 20KV surge protector for field installation.

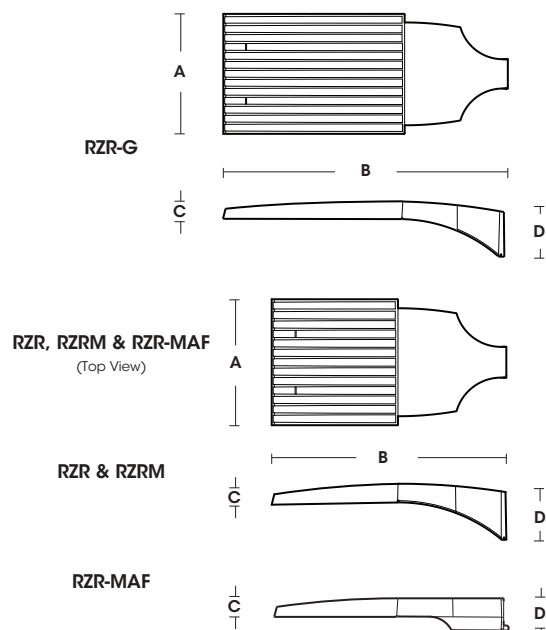
Finish

Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.



RZR

(Models: RZRM, RZR, RZR-G & RZR-MAF)

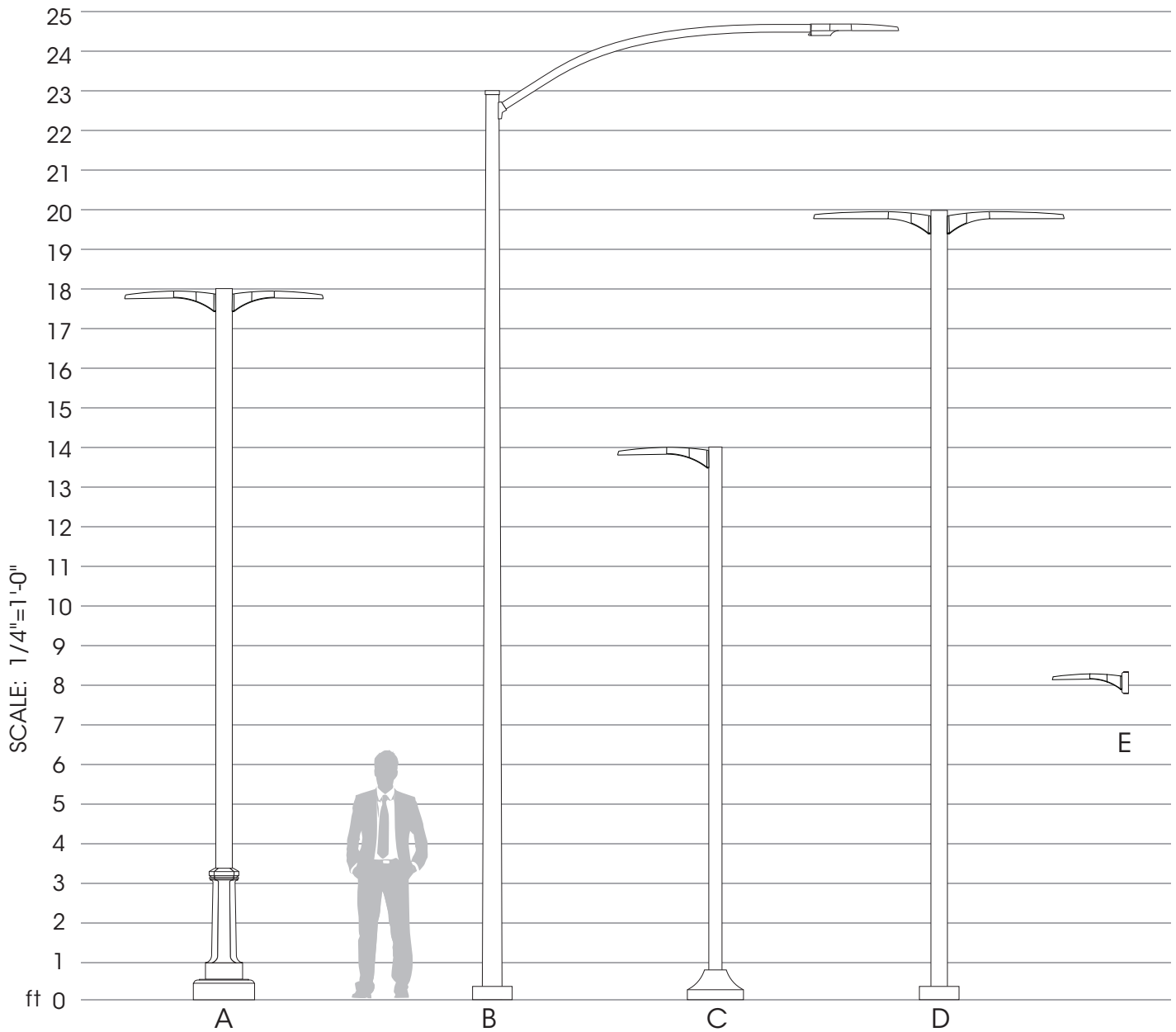


Fixture	A	B	C	D
RZR-G	15" 381mm	36.5" 927mm	3" 76mm	7" 187mm
RZR	14.75" 375mm	28.25" 718mm	2.75" 70mm	6.5" 165mm
RZRM	11.5" 292mm	22" 559mm	2.5" 64mm	5.25" 133mm
RZR-MAF	15" 381mm	28.25" 724mm	2.5" 64mm	4" 102mm



2024281

SAMPLE ASSEMBLIES

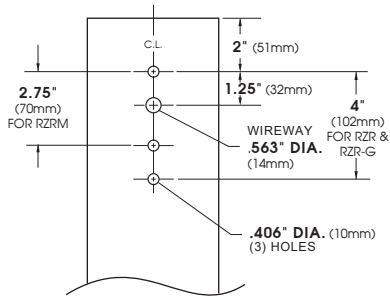


- A. 11-1050-18'-0" / 2-180 / RZR / LED / ACCESSORIES / FINISH
- B. 1046T-23'-0" / ASL-8' / RZR-MAF / LED / ACCESSORIES / FINISH
- C. RNTA-144-125-RBC / 1 / RZR / LED / ACCESSORIES / FINISH
- D. RNTS205-7 / 2-180 / RZR-G / LED / ACCESSORIES / FINISH
- E. WM / RZRM / LED / ACCESSORIES / FINISH

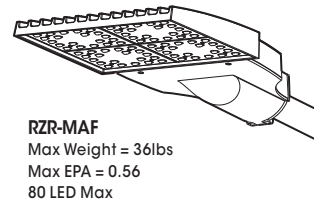
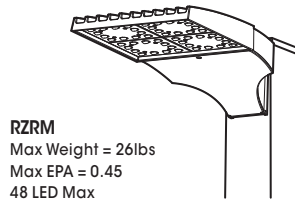
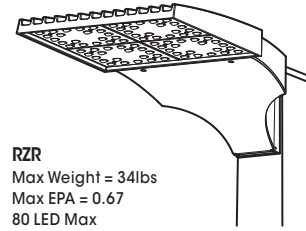
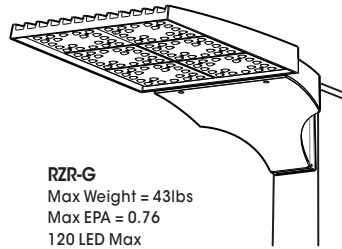
Sample Assemblies show a small offering of the Sun Valley Line of Poles, Bases, Shafts, Arms, & Luminaires. Please visit usalftg.com for the full product offering.

SPECIFICATIONS

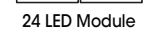
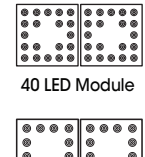
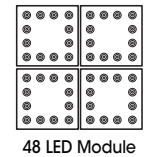
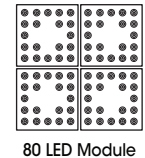
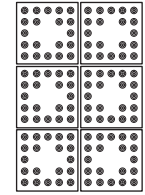
POLE DRILLING TEMPLATE



EPA & WEIGHT



PLED™ MODULES

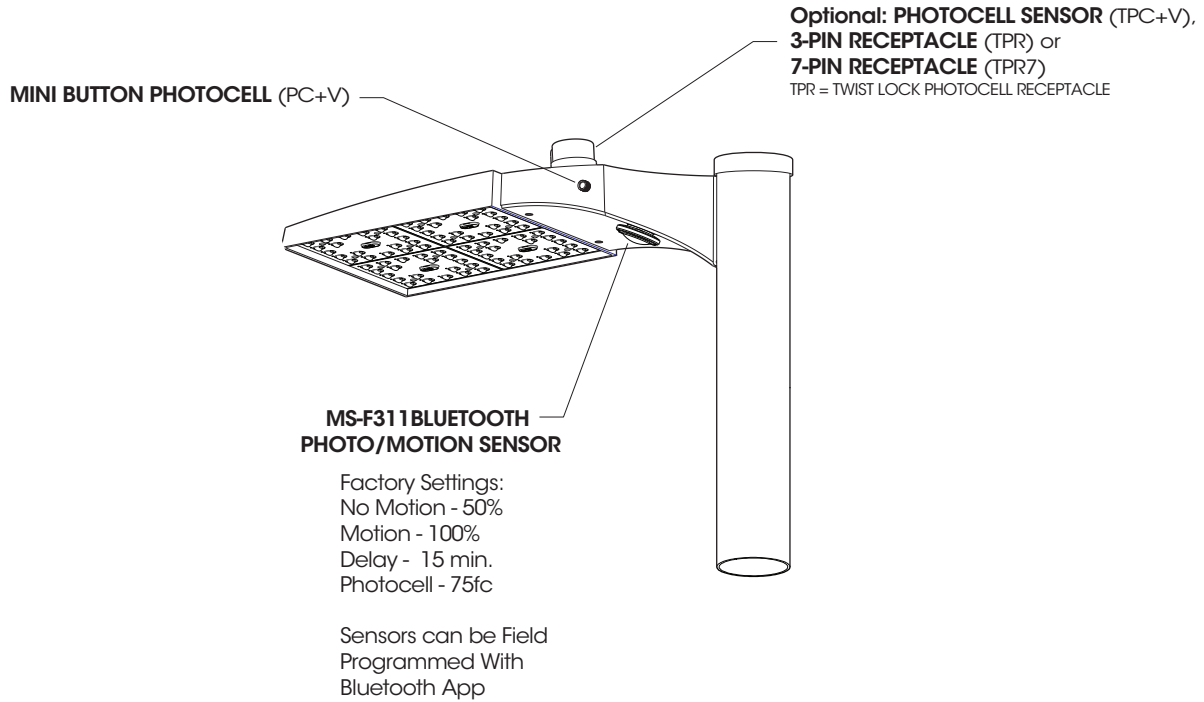


ORDERING INFORMATION

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/UNV/8019-S

Luminaire	Optics	LED Mode	Voltage	Mounting	Finish	Options
Luminaire	Optics	LED	Voltage	Mounting	Finish	Options
<input type="checkbox"/> RZR-G	<input type="checkbox"/> PLED-II <input type="checkbox"/> PLED-II-FR <input type="checkbox"/> PLED-II-MIL	RZR-G # of LEDs <input type="checkbox"/> 120LED <input type="checkbox"/> 80LED Drive Current <input type="checkbox"/> 1400mA ¹ <input type="checkbox"/> 1225mA ¹ <input type="checkbox"/> 1050mA <input type="checkbox"/> 875mA <input type="checkbox"/> 700mA Color Temp - CCT <input type="checkbox"/> 27K (2700K) <input type="checkbox"/> 30K (3000K) <input type="checkbox"/> 40K (4000K) <input type="checkbox"/> 50K (5000K)	<input type="checkbox"/> UNV (120-277) <input type="checkbox"/> 347 <input type="checkbox"/> 480	Arm Mount <input type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> 4-90	Standard Textured Finish <input type="checkbox"/> Black 9005-T <input type="checkbox"/> White 9003-T <input type="checkbox"/> Grey 7004-T <input type="checkbox"/> Dark Bronze 8019-T <input type="checkbox"/> Green 6005-T	<input type="checkbox"/> Internal House Side Shield inc. LED Count (Example: HS-PLD/48) HS-PLD <input type="checkbox"/> External Glare Shield 4 Sided EGS4 <input type="checkbox"/> External Glare Shield 3 Sided Rear Wedge EGS3W <input type="checkbox"/> Round Pole Adapter RPA <input type="checkbox"/> Twist Lock Receptable Only TPR <input type="checkbox"/> 7-Pin Twist Lock Receptable Only TPR7 <input type="checkbox"/> High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25) HLSW <input type="checkbox"/> Twist Lock Photocell + Voltage (Example: TPC347V) TPC+V <input type="checkbox"/> Photo Cell + Voltage (Example: PC120V) PC+V <input type="checkbox"/> Single Fuse (120V, 277V) SF <input type="checkbox"/> Double Fuse (208V, 240V) DF <input type="checkbox"/> Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75c) MS-F311
<input type="checkbox"/> RZR <input type="checkbox"/> RZR-MAF	<input type="checkbox"/> PLED-III <input type="checkbox"/> PLED-III-W <input type="checkbox"/> PLED-IV <input type="checkbox"/> PLED-IV-FT	RZR / RZR-MAF # of LEDs <input type="checkbox"/> 80LED <input type="checkbox"/> 40LED Drive Current <input type="checkbox"/> 525mA <input type="checkbox"/> 350mA Color Temp - CCT <input type="checkbox"/> TRA True Amber Consult Factory for Other LED Color, CCT, & CRI Options		Wall Mount <input type="checkbox"/> WM	Premium Finishes <input type="checkbox"/> Rust <input type="checkbox"/> Patina Copper PC For smooth finish replace suffix "T" with suffix "S" (Example: 9500-S) Consult factory for custom colors	
<input type="checkbox"/> RZRM	<input type="checkbox"/> PLED-VSQ-N <input type="checkbox"/> PLED-V-SQ-M <input type="checkbox"/> PLED-V-SQ-W	RZRM # of LEDs <input type="checkbox"/> 48LED <input type="checkbox"/> 24LED Drive Current Consult Factory for Other Drive Currents	NOTES: 1 - 1400mA & 1225mA drive currents not available in RZRM 2 - TRA available in 350mA & 525mA drive currents only.			

OPTIONS



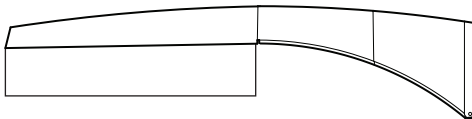
High Low Dimming For Switches (HLSW)

The HLSW is a Small Electronic Switch which Provides High Low Dimming Control Through the LED Driver's 0-10V Control. Switching is Done by Adding a Secondary AC Switched Hot Trigger Line to the HLSW in Addition to the Normal AC Power Line. When the Secondary Trigger Line is Powered, the Fixture will go to 100% Dimming. With no Power to the Trigger, the Fixture will operate at 50% or 25% Dimming. Switches for the Trigger Line can be a Normal AC Switch/Breaker or Timed Switch/Breaker.

Wireless and Other Fixture Controls

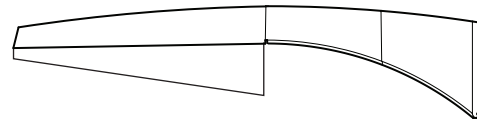
Contact Factory for Wireless and Other Fixture Controls and Recommendations. Most Controls Can be Integrated and Factory Installed.

EXTERNAL GLARE SHIELDS



EGS4 - 4 Sided Shield

Minimum Cutoff = 12°
Average Cutoff = 23°

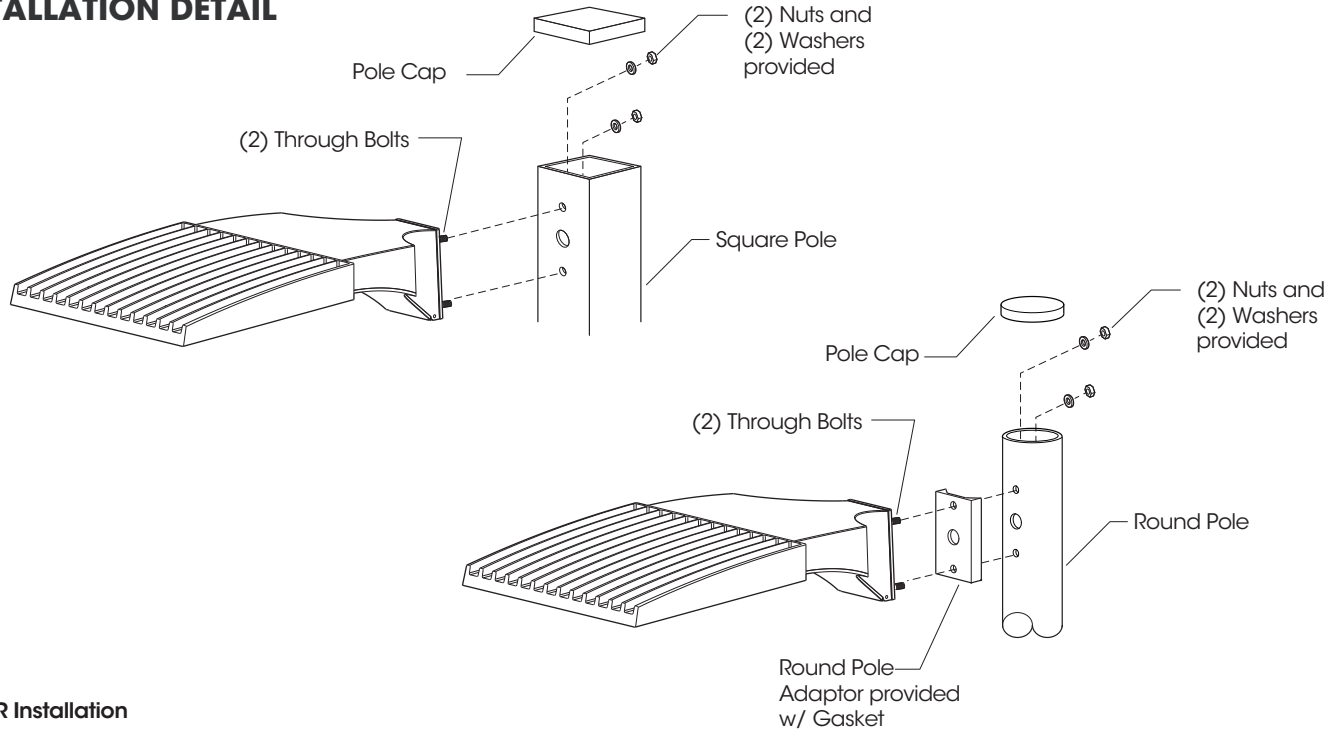


EGS3W - 3 Sided Shield

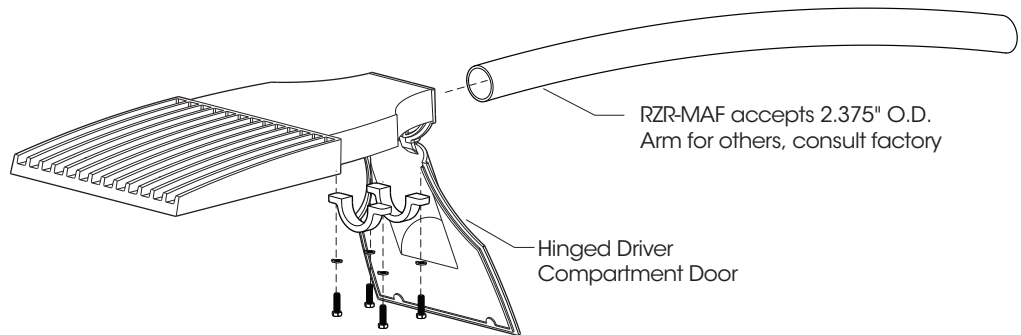
Minimum Rear Cutoff = 12°
Average Rear Cutoff = 23°
Minimum Side Cutoff = 4°
Average Side Cutoff = 16°

Glare Shields are rotatable on RZR and RZRM. Consult factory for custom applications.

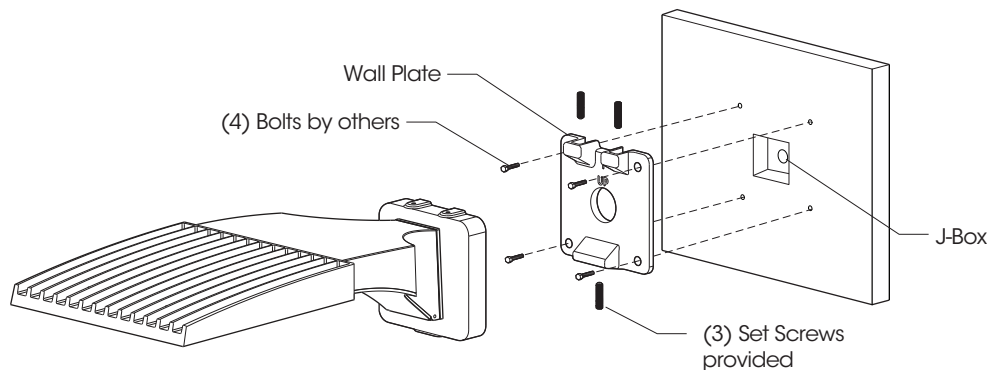
INSTALLATION DETAIL



RZR Installation



RZR-MAF Installation



RZR-WM Installation

ELECTRICAL DATA GUIDE - AMPERAGE CHART

ELECTRICAL LOAD			CURRENT (Amps)				
# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
24	350	26	0.21	0.12	0.09	0.07	0.05
24	525	39	0.32	0.19	0.14	0.11	0.08
24	700	52	0.43	0.25	0.19	0.15	0.11
24	875	67	0.55	0.32	0.24	0.19	0.14
24	1050	81	0.67	0.39	0.29	0.23	0.17
48	350	52	0.43	0.25	0.19	0.15	0.11
48	525	78	0.65	0.37	0.28	0.22	0.16
48	700	104	0.87	0.50	0.38	0.30	0.22
48	875	133	1.11	0.64	0.48	0.38	0.28
48	1050	162	1.35	0.78	0.58	0.47	0.34
40	350	43	0.36	0.21	0.15	0.12	0.09
40	525	65	0.54	0.31	0.23	0.19	0.14
40	700	87	0.72	0.42	0.31	0.25	0.18
40	875	111	0.92	0.53	0.40	0.32	0.23
40	1050	135	1.12	0.65	0.49	0.39	0.28
40	1225	159	1.32	0.76	0.57	0.46	0.33
40	1400	183	1.53	0.88	0.66	0.53	0.38
80	350	86	0.72	0.41	0.31	0.25	0.18
80	525	130	1.08	0.62	0.47	0.37	0.27
80	700	174	1.45	0.83	0.63	0.50	0.36
80	875	222	1.85	1.06	0.80	0.64	0.46
80	1050	270	2.25	1.30	0.97	0.78	0.56
80	1225	318	2.65	1.53	1.15	0.92	0.66
80	1400	366	3.05	1.76	1.32	1.06	0.76
120	350	129	1.07	0.62	0.46	0.37	0.27
120	525	195	1.62	0.94	0.70	0.56	0.41
120	700	260	2.17	1.25	0.94	0.75	0.54
120	875	332	2.77	1.60	1.20	0.96	0.69
120	1050	404	3.37	1.94	1.46	1.17	0.84
120	1225	477	3.97	2.29	1.72	1.37	0.99
120	1400	549	4.58	2.64	1.98	1.58	1.14

PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

LED LUMEN MAINTENANCE (350mA to 1050mA)		
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000	L96	0.96x
100,000 (6X LED Test Hrs)	L93	0.93x
150,000 (Theoretical)	L89	0.90x
200,000 (Theoretical)	L86	0.87x

TM-21 6x Test Time Dictates that L93 > 100,000 Hours.

LED LUMEN MAINTENANCE (1225mA & 1400mA)		
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000	L93	0.93x
100,000 (6X LED Test Hrs)	L89	0.89x
150,000 (Theoretical)	L84	0.84x
200,000 (Theoretical)	L80	0.80x

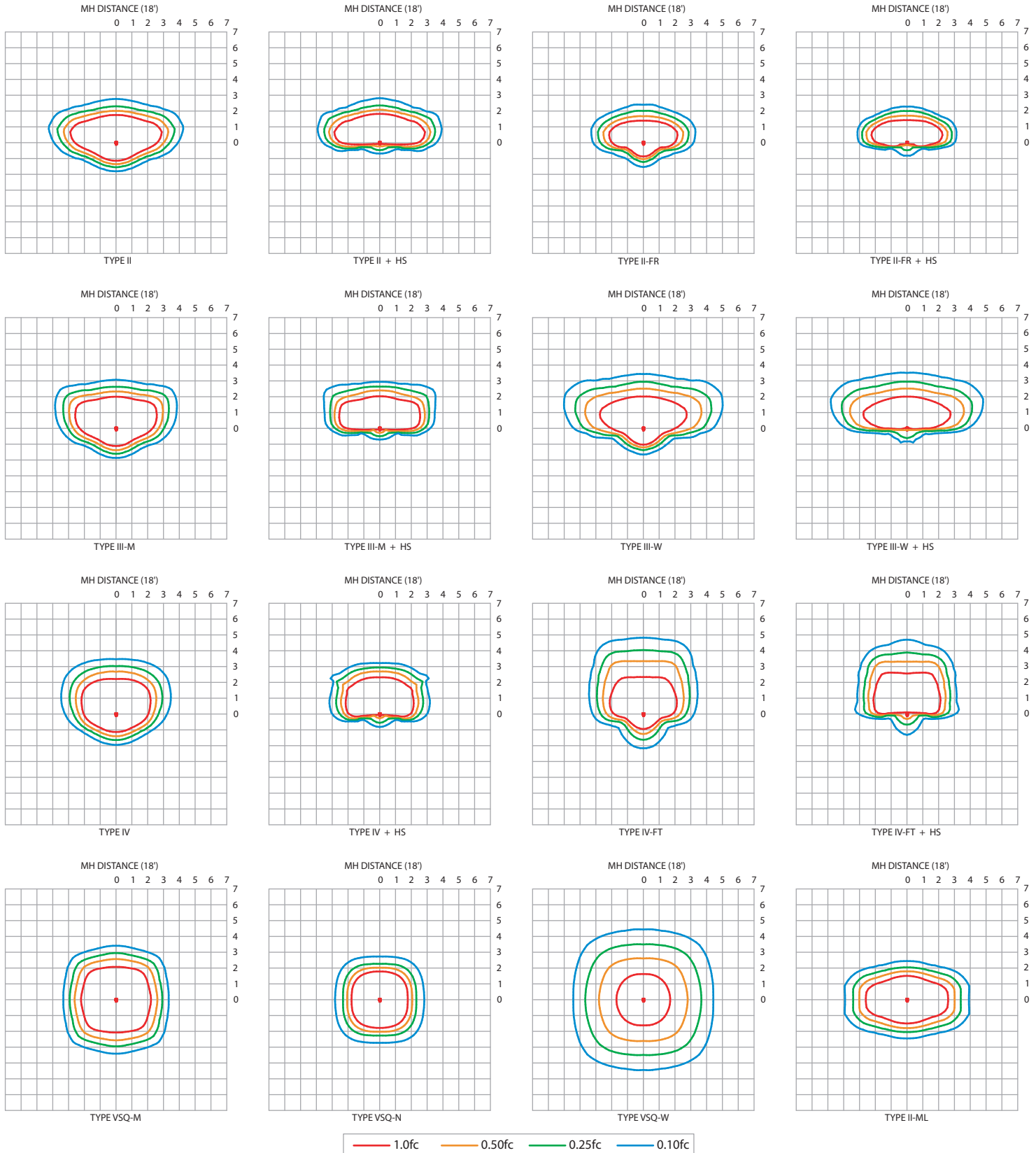
TM-21 6x Test Time Dictates that L93 > 100,000 Hours.

Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient)

IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html

ELECTRICAL DATA GUIDE - ISOFOOTCANDLE PLOTS

RZR-M-PLED-48LED-700mA-40K - 18' Pole Height



IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html

PHOTOMETRIC DATA GUIDE - LUMEN TABLES

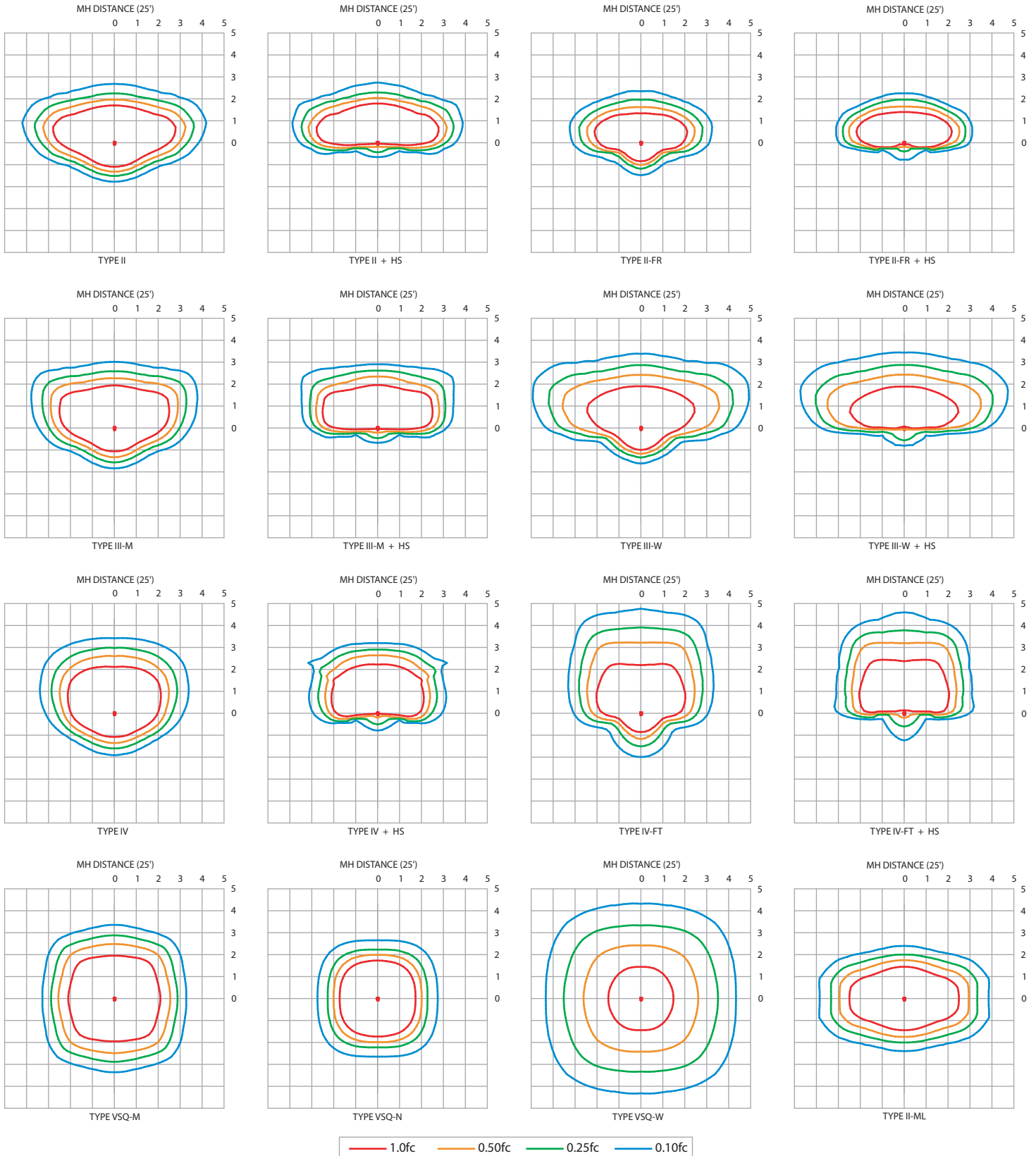
RZR-M-LED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
24	350	25.7	II	3705	144	B1-U0-G1	3866	150	B1-U0-G1	4027	157	B1-U0-G1	4188	163	B1-U0-G1	20.0	1363	68	B1-U0-G1
			II-FR	3729	145	B1-U0-G1	3892	151	B1-U0-G1	4054	158	B1-U0-G1	4216	164	B1-U0-G1		1372	69	B1-U0-G0
			II-ML	3705	144	B2-U0-G2	3866	150	B2-U0-G2	4027	157	B2-U0-G2	4188	163	B2-U0-G2		1363	68	B1-U0-G1
			III-M	3770	147	B1-U0-G1	3933	153	B1-U0-G1	4097	159	B1-U0-G1	4261	166	B1-U0-G1		1387	69	B1-U0-G0
			III-W	3500	136	B1-U0-G1	3652	142	B1-U0-G1	3804	148	B1-U0-G1	3956	154	B1-U0-G2		1289	64	B0-U0-G1
			IV	3741	146	B1-U0-G1	3903	152	B1-U0-G1	4066	158	B1-U0-G1	4229	165	B1-U0-G1		1377	69	B1-U0-G1
			IV-FT	3408	133	B1-U0-G1	3556	138	B1-U0-G1	3704	144	B1-U0-G1	3853	150	B1-U0-G1		1254	63	B0-U0-G1
			VSQ-N	3911	152	B2-U0-G0	4080	159	B2-U0-G0	4250	165	B2-U0-G0	4420	172	B2-U0-G1		1439	72	B1-U0-G0
			VSQ-M	3834	149	B2-U0-G1	4000	156	B2-U0-G1	4167	162	B2-U0-G1	4334	169	B3-U0-G1		1410	71	B1-U0-G0
			VSQ-W	3743	146	B3-U0-G1	3905	152	B3-U0-G1	4068	158	B3-U0-G1	4231	165	B3-U0-G2		1377	69	B1-U0-G1
			II-HS	2710	105	B0-U0-G1	2827	110	B0-U0-G1	2945	115	B0-U0-G1	3063	119	B0-U0-G1		997	50	B0-U0-G0
			II-FR-HS	2756	107	B0-U0-G0	2876	112	B0-U0-G0	2995	117	B0-U0-G0	3115	121	B0-U0-G0		1014	51	B0-U0-G0
			III-M-HS	2741	107	B0-U0-G1	2861	111	B0-U0-G1	2980	116	B0-U0-G1	3099	121	B0-U0-G1		1008	50	B0-U0-G0
			III-W-HS	2682	104	B0-U0-G1	2799	109	B0-U0-G1	2916	113	B0-U0-G1	3032	118	B0-U0-G1		987	49	B0-U0-G1
			IV-HS	2831	110	B0-U0-G1	2954	115	B0-U0-G1	3078	120	B0-U0-G1	3201	125	B0-U0-G1		1042	52	B0-U0-G0
			IV-FT-HS	2675	104	B0-U0-G1	2792	109	B0-U0-G1	2908	113	B0-U0-G1	3024	118	B0-U0-G1		985	49	B0-U0-G1
24	525	38.9	II	5352	138	B1-U0-G1	5584	144	B1-U0-G1	5817	150	B2-U0-G1	6050	156	B2-U0-G1	31.0	1586	51	B1-U0-G1
			II-FR	5387	138	B1-U0-G1	5621	145	B2-U0-G1	5856	151	B2-U0-G1	6090	157	B2-U0-G1		1598	52	B1-U0-G0
			II-ML	5352	138	B2-U0-G2	5585	144	B2-U0-G2	5817	150	B3-U0-G3	6050	156	B3-U0-G3		1587	51	B1-U0-G1
			III-M	5446	140	B1-U0-G1	5683	146	B1-U0-G2	5919	152	B1-U0-G2	6156	158	B1-U0-G2		1615	52	B1-U0-G0
			III-W	5056	130	B1-U0-G2	5276	136	B1-U0-G2	5496	141	B1-U0-G2	5716	147	B1-U0-G2		1500	48	B0-U0-G1
			IV	5404	139	B1-U0-G1	5639	145	B1-U0-G1	5874	151	B1-U0-G2	6109	157	B2-U0-G2		1602	52	B1-U0-G1
			IV-FT	4924	127	B1-U0-G2	5138	132	B1-U0-G2	5352	138	B1-U0-G2	5566	143	B1-U0-G2		1460	47	B0-U0-G1
			VSQ-N	5648	145	B2-U0-G1	5894	152	B2-U0-G1	6139	158	B2-U0-G1	6385	164	B2-U0-G1		1676	54	B1-U0-G0
			VSQ-M	5539	142	B3-U0-G1	5780	149	B3-U0-G1	6021	155	B3-U0-G1	6262	161	B3-U0-G1		1643	53	B1-U0-G0
			VSQ-W	5407	139	B3-U0-G2	5642	145	B3-U0-G2	5877	151	B3-U0-G2	6112	157	B3-U0-G2		1603	52	B1-U0-G1
			II-HS	3914	101	B0-U0-G1	4084	105	B0-U0-G1	4254	109	B0-U0-G1	4424	114	B0-U0-G1		1161	37	B0-U0-G0
			II-FR-HS	3982	102	B0-U0-G1	4155	107	B0-U0-G1	4328	111	B0-U0-G1	4501	116	B0-U0-G1		1181	38	B0-U0-G0
			III-M-HS	3960	102	B0-U0-G1	4132	106	B0-U0-G1	4304	111	B0-U0-G2	4476	115	B0-U0-G2		1174	38	B0-U0-G0
			III-W-HS	3876	100	B0-U0-G2	4045	104	B0-U0-G2	4213	108	B0-U0-G2	4382	113	B0-U0-G2		1150	37	B0-U0-G1
			IV-HS	4090	105	B0-U0-G1	4268	110	B0-U0-G1	4446	114	B0-U0-G1	4624	119	B0-U0-G1		1213	39	B0-U0-G0
			IV-FT-HS	3866	99	B0-U0-G2	4034	104	B0-U0-G2	4202	108	B0-U0-G2	4370	112	B0-U0-G2		1146	37	B0-U0-G1
24	700	52.1	II	6733	129	B2-U0-G2	7025	135	B2-U0-G2	7318	140	B2-U0-G2	7611	146	B2-U0-G2	N/A	N/A		
			II-FR	6778	130	B2-U0-G1	7073	136	B2-U0-G1	7367	141	B2-U0-G1	7662	147	B2-U0-G1				
			II-ML	6732	129	B3-U0-G3	7025	135	B3-U0-G3	7318	140	B3-U0-G3	7611	146	B3-U0-G3				
			III-M	6851	131	B2-U0-G2	7148	137	B2-U0-G2	7446	143	B2-U0-G2	7744	149	B2-U0-G2				
			III-W	6360	122	B1-U0-G2	6637	127	B1-U0-G2	6913	133	B1-U0-G2	7190	138	B1-U0-G2				
			IV	6799	131	B2-U0-G2	7095	136	B2-U0-G2	7391	142	B2-U0-G2	7686	148	B2-U0-G2				
			IV-FT	6193	119	B1-U0-G2	6463	124	B1-U0-G2	6732	129	B1-U0-G2	7001	134	B1-U0-G2				
			VSQ-N	7107	136	B2-U0-G1	7416	142	B2-U0-G1	7725	148	B2-U0-G1	8034	154	B3-U0-G1				
			VSQ-M	6968	134	B3-U0-G1	7271	140	B3-U0-G1	7574	145	B3-U0-G1	7877	151	B3-U0-G2				
			VSQ-W	6802	131	B3-U0-G2	7098	136	B3-U0-G2	7394	142	B3-U0-G2	7690	148	B3-U0-G2				
			II-HS	4924	95	B1-U0-G2	5138	99	B1-U0-G2	5352	103	B1-U0-G2	5566	107	B1-U0-G2				
			II-FR-HS	5009	96	B0-U0-G1	5227	100	B0-U0-G1	5444	104	B0-U0-G1	5662	109	B1-U0-G1				
			III-M-HS	4981	96	B0-U0-G2	5198	100	B0-U0-G2	5414	104	B0-U0-G2	5631	108	B0-U0-G2				
			III-W-HS	4875	94	B0-U0-G2	5087	98	B0-U0-G2	5299	102	B0-U0-G2	5511	106	B0-U0-G2				
			IV-HS	5146	99	B0-U0-G2	5369	103	B0-U0-G2	5593	107	B0-U0-G2	5817	112	B0-U0-G2				
			IV-FT-HS	4863	93	B0-U0-G2	5074	97	B0-U0-G2	5286	101	B0-U0-G2	5497	106	B0-U0-G2				
24	875	66.5	II	8051	121	B2-U0-G2	8401	126	B2-U0-G2	8751	132	B2-U0-G2	9101	137	B2-U0-G2	N/A	N/A		
			II-FR	8105	122	B2-U0-G1	8458	127	B2-U0-G1	8810	132	B2-U0-G1	9163	138	B2-U0-G1				
			II-ML	8051	121	B3-U0-G3	8401	126	B3-U0-G3	8751	132	B3-U0-G3	9101	137	B3-U0-G3				
			III-M	8192	123	B2-U0-G2	8548	129	B2-U0-G2	8904	134	B2-U0-G2	9260	139	B2-U0-G2				
			III-W	7606	114	B1-U0-G2	7937	119	B2-U0-G2	8267	124	B2-U0-G2	8598	129	B2-U0-G2				
			IV	8129	122	B2-U0-G2	8483	128	B2-U0-G2	8836	133	B2-U0-G2	9190	138	B2-U0-G2				
			IV-FT	7405	111	B2-U0-G2	7727	116	B2-U0-G2	8050	121	B2-U0-G2	8372	126	B2-U0-G2				
			VSQ-N	8498	128	B3-U0-G1	8867	133	B3-U0-G1	9236	139	B3-U0-G1	9606	144	B3-U0-G1				
			VSQ-M	8333	125	B3-U0-G2	8695	131	B3-U0-G2	9057	136	B3-U0-G2	9419	142	B3-U0-G2				
			VSQ-W	8134	122	B3-U0-G2	8487	128	B4-U0-G2	8841	133	B4-U0-G2	9195	138	B4-U0-G2				
			II-HS	5888	89	B1-U0-G2	6144	92	B1-U0-G2	6400	96	B1-U0-G2	6656	100	B1-U0-G2				
			II-FR-HS	5990	90	B1-U0-G1	6250	94	B1-U0-G1	6510	98	B1-U0-G1	6771	102	B1-U0-G1				
			III-M-HS	5957	90	B0-U0-G2	6216	93	B0-U0-G2	6475	97	B0-U0-G2	6734	101	B0-U0-G2				
			III-W-HS	5830	88	B0-U0-G2	6084	91	B0-U0-G2	6337	95	B0-U0-G2	6591	99	B0-U0-G2				
			IV-HS	6153	93	B0-U0-G2	6420	97	B0-U0-G2	6688	101	B0-U0-G2	6955	105	B0-U0-G2				
			IV-FT-HS	5815	87	B0-U0-G2	6067	91	B0-U0-G2	6320	95	B0-U0-G2	6573	99	B0-U0-G2				
24	1050	80.9	II	9160	113	B2-U0-G2	9558	118	B2-U0-G2	9956	123	B2-U0-G2	10354	128	B2-U0-G2	N/A	N/A		
			II-FR	9221	114	B2-U0-G1	9622	119	B2-U0-G1	10023	124	B2-U0-G1	10424	129	B2-U0-G1				
			II-ML	9160	113	B3-U0-G3	9558	118	B3-U0-G3	9956	123	B3-U0-G3	10354	128	B3-U0-G3				
			III-M	9320	115	B2-U0-G2	9725	120	B2-U0-G2	10131	125	B2-U0-G2	10536	130	B2-U0-G2				
			III-W	8653	107	B2-U0-G2	9029	112	B2-U0-G3	9405	116	B2-U0-G3	9782	121	B2-U0-G3				
			IV	9249	114	B2-U0-G2	9651	119	B2-U0-G2	10053	124	B2-U0-G2	10456	129	B2-U0-G2				
			IV-FT	8426	104	B2-U0-G2	8792	109	B2-U0-G3	9158	113	B2-U0-G3	9525	118	B2-U0-G3				
			VSQ-N	9668	120	B3-U0-G1	10088	125	B3-U0-G1	10508	130	B3-U0-G1	10929	135	B3-U0-G1				
			VSQ-M	9480	117	B3-U0-G2	9892	122	B3-U0-G2	10305	127	B3-U0-G2	10717	132	B4-U0-G2				
			VSQ-W	9254	114	B4-U0-G2	9656	119	B4-U0-G3	10059	124	B4-U0-G3	10461	129	B4-U0-G3				
			II-HS	6699	83	B1-U0-G2	6990	86	B1-U0-G2	7281	90	B1-U0-G2	7573	94	B1-U0-G2				
			II-FR-HS	6814	84	B1-U0-G1	7110	88	B1-U0-G1	7407	92	B1-U0-G1	7703	95	B1-U0-G1				
			III-M-HS	6777	84	B0-U0-G2	7072	87	B0-U0-G2	7366	91	B0-U0-G2	7661	95	B1-U0-G2				
			III-W-HS	6633	82	B0-U0-G2	6922	86	B0-U0-G2	7210	89	B0-U0-G2	7498	93	B0-U0-G2				
			IV-HS	7000	87	B0-U0-G2	7305	90	B0-U0-G2	7609	94	B1-U0-G2	7913	98	B1-U0-G2				
			IV-FT-HS	6615	82	B0-U0-G2	6903	85	B1-U0-G2	7191	89	B1-U0-G3	7478	92	B1-U0-G3				

PHOTOMETRIC GUIDE - LUMEN TABLES

RZR-M-LED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
48	350	51.5	II	7194	140	B2-U0-G2	7507	146	B2-U0-G2	7820	152	B2-U0-G2	8133	158	B2-U0-G2	41.0	2713	66	B1-U0-G1
			II-FR	7243	141	B2-U0-G1	7558	147	B2-U0-G1	7873	153	B2-U0-G1	8187	159	B2-U0-G1		2731	67	B1-U0-G1
			II-ML	7194	140	B3-U0-G3	7507	146	B3-U0-G3	7820	152	B3-U0-G3	8133	158	B3-U0-G3		2713	66	B1-U0-G1
			III-M	7320	142	B2-U0-G2	7639	148	B2-U0-G2	7957	154	B2-U0-G2	8275	161	B2-U0-G2		2760	67	B1-U0-G1
			III-W	6797	132	B1-U0-G2	7092	138	B1-U0-G2	7388	143	B1-U0-G2	7683	149	B1-U0-G2		2563	63	B1-U0-G1
			IV	7265	141	B2-U0-G2	7581	147	B2-U0-G2	7896	153	B2-U0-G2	8212	159	B2-U0-G2		2740	67	B1-U0-G1
			IV-FT	6618	128	B1-U0-G2	6905	134	B1-U0-G2	7193	140	B1-U0-G2	7481	145	B2-U0-G2		2496	61	B1-U0-G1
			VSQ-N	7594	147	B2-U0-G1	7924	154	B3-U0-G1	8254	160	B3-U0-G1	8584	167	B3-U0-G1		2864	70	B1-U0-G0
			VSQ-M	7446	145	B3-U0-G1	7770	151	B3-U0-G2	8094	157	B3-U0-G2	8417	163	B3-U0-G2		2808	68	B2-U0-G1
			VSQ-W	7269	141	B3-U0-G2	7585	147	B3-U0-G2	7901	153	B3-U0-G2	8217	160	B3-U0-G2		2741	67	B2-U0-G1
			II-HS	5262	102	B1-U0-G2	5491	107	B1-U0-G2	5719	111	B1-U0-G2	5948	115	B1-U0-G2		1984	48	B0-U0-G1
			II-FR-HS	5352	104	B0-U0-G1	5585	108	B0-U0-G1	5818	113	B1-U0-G1	6050	117	B1-U0-G1		2018	49	B0-U0-G0
			III-M-HS	5323	103	B0-U0-G2	5555	108	B0-U0-G2	5786	112	B0-U0-G2	6017	117	B0-U0-G2		2007	49	B0-U0-G1
			III-W-HS	5211	101	B0-U0-G2	5437	106	B0-U0-G2	5664	110	B0-U0-G2	5890	114	B0-U0-G2		1965	48	B0-U0-G1
			IV-HS	5498	107	B0-U0-G2	5737	111	B0-U0-G2	5976	116	B0-U0-G2	6215	121	B0-U0-G2		2074	51	B0-U0-G1
			IV-FT-HS	5196	101	B0-U0-G2	5422	105	B0-U0-G2	5648	110	B0-U0-G2	5874	114	B0-U0-G2		1960	48	B0-U0-G1
48	525	77.8	II	10334	133	B2-U0-G2	10783	139	B2-U0-G2	11232	144	B2-U0-G2	11682	150	B2-U0-G2	62.0	3143	51	B1-U0-G1
			II-FR	10403	134	B2-U0-G1	10855	140	B2-U0-G1	11308	145	B3-U0-G1	11760	151	B3-U0-G1		3164	51	B1-U0-G1
			II-ML	10334	133	B3-U0-G3	10783	139	B3-U0-G3	11233	144	B3-U0-G3	11682	150	B3-U0-G3		3143	51	B2-U0-G2
			III-M	10515	135	B2-U0-G2	10972	141	B2-U0-G2	11429	147	B2-U0-G2	11887	153	B2-U0-G2		3198	52	B1-U0-G1
			III-W	9763	125	B2-U0-G3	10188	131	B2-U0-G3	10612	136	B2-U0-G3	11037	142	B2-U0-G3		2969	48	B1-U0-G1
			IV	10436	134	B2-U0-G2	10890	140	B2-U0-G2	11343	146	B2-U0-G2	11797	152	B2-U0-G2		3174	51	B1-U0-G1
			IV-FT	9506	122	B2-U0-G3	9920	128	B2-U0-G3	10333	133	B2-U0-G3	10746	138	B2-U0-G3		2892	47	B1-U0-G1
			VSQ-N	10907	140	B3-U0-G1	11382	146	B3-U0-G1	11856	152	B3-U0-G1	12330	158	B3-U0-G1		3317	54	B2-U0-G0
			VSQ-M	10695	137	B4-U0-G2	11160	143	B4-U0-G2	11626	149	B4-U0-G2	12091	155	B4-U0-G2		3253	52	B2-U0-G1
			VSQ-W	10441	134	B4-U0-G3	10895	140	B4-U0-G3	11349	146	B4-U0-G3	11803	152	B4-U0-G3		3175	51	B2-U0-G1
			II-HS	7558	97	B1-U0-G2	7887	101	B1-U0-G2	8215	106	B1-U0-G2	8544	110	B1-U0-G2		2298	37	B0-U0-G1
			II-FR-HS	7688	99	B1-U0-G1	8022	103	B1-U0-G1	8356	107	B1-U0-G1	8690	112	B1-U0-G1		2339	38	B0-U0-G0
			III-M-HS	7646	98	B1-U0-G2	7978	103	B1-U0-G2	8311	107	B1-U0-G2	8643	111	B1-U0-G2		2325	38	B0-U0-G1
			III-W-HS	7484	96	B0-U0-G2	7810	100	B0-U0-G2	8135	105	B1-U0-G2	8460	109	B1-U0-G2		2276	37	B0-U0-G1
			IV-HS	7898	102	B1-U0-G2	8241	106	B1-U0-G2	8584	110	B1-U0-G2	8928	115	B1-U0-G2		2402	39	B0-U0-G1
			IV-FT-HS	7463	96	B1-U0-G3	7788	100	B1-U0-G3	8112	104	B1-U0-G3	8437	108	B1-U0-G3		2270	37	B0-U0-G1
48	700	104.1	II	13148	126	B2-U0-G2	13720	132	B2-U0-G2	14291	137	B2-U0-G2	14863	143	B3-U0-G2	N/A	N/A		
			II-FR	13236	127	B3-U0-G1	13811	133	B3-U0-G1	14386	138	B3-U0-G1	14962	144	B3-U0-G2				
			II-ML	13148	126	B3-U0-G3	13720	132	B3-U0-G3	14291	137	B3-U0-G3	14863	143	B4-U0-G4				
			III-M	13378	129	B2-U0-G2	13959	134	B2-U0-G2	14541	140	B2-U0-G2	15123	145	B2-U0-G2				
			III-W	12420	119	B2-U0-G3	12960	124	B2-U0-G3	13500	130	B2-U0-G3	14040	135	B2-U0-G3				
			IV	13277	128	B2-U0-G2	13854	133	B2-U0-G2	14431	139	B2-U0-G2	15008	144	B2-U0-G2				
			IV-FT	12094	116	B2-U0-G3	12620	121	B2-U0-G3	13146	126	B2-U0-G3	13672	131	B2-U0-G3				
			VSQ-N	13876	133	B3-U0-G1	14479	139	B3-U0-G1	15083	145	B3-U0-G1	15686	151	B3-U0-G1				
			VSQ-M	13607	131	B4-U0-G2	14199	136	B4-U0-G2	14790	142	B4-U0-G2	15382	148	B4-U0-G2				
			VSQ-W	13283	128	B4-U0-G3	13860	133	B4-U0-G3	14438	139	B4-U0-G3	15015	144	B4-U0-G3				
			II-HS	9616	92	B1-U0-G2	10034	96	B1-U0-G2	10452	100	B1-U0-G2	10870	104	B1-U0-G2				
			II-FR-HS	9781	94	B1-U0-G1	10206	98	B1-U0-G1	10631	102	B1-U0-G1	11056	106	B1-U0-G1				
			III-M-HS	9727	93	B1-U0-G2	10150	98	B1-U0-G2	10573	102	B1-U0-G2	10995	106	B1-U0-G2				
			III-W-HS	9521	91	B1-U0-G3	9935	95	B1-U0-G3	10349	99	B1-U0-G3	10763	103	B1-U0-G3				
			IV-HS	10048	97	B1-U0-G2	10485	101	B1-U0-G2	10921	105	B1-U0-G2	11358	109	B1-U0-G2				
			IV-FT-HS	9496	91	B1-U0-G3	9909	95	B1-U0-G3	10322	99	B1-U0-G3	10735	103	B1-U0-G3				
48	875	132.9	II	15655	118	B3-U0-G2	16336	123	B3-U0-G3	17016	128	B3-U0-G3	17697	133	B3-U0-G3	N/A	N/A		
			II-FR	15759	119	B3-U0-G2	16445	124	B3-U0-G2	17130	129	B3-U0-G2	17815	134	B3-U0-G2				
			II-ML	15655	118	B4-U0-G4	16336	123	B4-U0-G4	17016	128	B4-U0-G4	17697	133	B4-U0-G4				
			III-M	15929	120	B3-U0-G3	16621	125	B3-U0-G3	17314	130	B3-U0-G3	18006	135	B3-U0-G3				
			III-W	14789	111	B2-U0-G3	15432	116	B2-U0-G3	16075	121	B3-U0-G3	16718	126	B3-U0-G3				
			IV	15809	119	B3-U0-G2	16496	124	B3-U0-G3	17183	129	B3-U0-G3	17871	134	B3-U0-G3				
			IV-FT	14401	108	B2-U0-G3	15027	113	B3-U0-G3	15653	118	B3-U0-G3	16279	122	B3-U0-G3				
			VSQ-N	16523	124	B4-U0-G1	17242	130	B4-U0-G2	17960	135	B4-U0-G2	18679	141	B4-U0-G2				
			VSQ-M	16202	122	B4-U0-G2	16907	127	B4-U0-G2	17611	133	B4-U0-G2	18316	138	B4-U0-G2				
			VSQ-W	15816	119	B4-U0-G3	16503	124	B4-U0-G3	17191	129	B5-U0-G3	17879	135	B5-U0-G3				
			II-HS	11449	86	B1-U0-G2	11946	90	B1-U0-G2	12444	94	B1-U0-G2	12942	97	B1-U0-G2				
			II-FR-HS	11646	88	B1-U0-G2	12152	91	B1-U0-G2	12659	95	B1-U0-G2	13165	99	B1-U0-G2				
			III-M-HS	11582	87	B1-U0-G2	12086	91	B1-U0-G3	12589	95	B1-U0-G3	13093	99	B1-U0-G3				
			III-W-HS	11337	85	B1-U0-G3	11830	89	B1-U0-G3	12323	93	B1-U0-G3	12816	96	B1-U0-G3				
			IV-HS	11964	90	B1-U0-G2	12484	94	B1-U0-G2	13004	98	B1-U0-G3	13524	102	B1-U0-G3				
			IV-FT-HS	11307	85	B1-U0-G3	11798	89	B1-U0-G3	12290	92	B1-U0-G3	12782	96	B1-U0-G3				
48	1050	161.7	II	17775	110	B3-U0-G3	18548	115	B3-U0-G3	19320	119	B3-U0-G3	20093	124	B3-U0-G3	N/A	N/A		
			II-FR	17894	111	B3-U0-G2	18672	115	B3-U0-G2	19450	120	B3-U0-G2	20228	125	B3-U0-G2				
			II-ML	17775	110	B4-U0-G4	18548	115	B4-U0-G4	19321	119	B4-U0-G4	20094	124	B4-U0-G4				
			III-M	18086	112	B3-U0-G3	18872	117	B3-U0-G3	19658	122	B3-U0-G3	20445	126	B3-U0-G3				
			III-W	16792	104	B3-U0-G3	17522	108	B3-U0-G3	18252	113	B3-U0-G3	18982	117	B3-U0-G4				
			IV	17950	111	B3-U0-G3	18730	116	B3-U0-G3	19511	121	B3-U0-G3	20291	125	B3-U0-G3				
			IV-FT	16351	101	B3-U0-G3	17062	106	B3-U0-G3	17773	110	B3-U0-G3	18484	114	B3-U0-G4				
			VSQ-N	18761	116	B4-U0-G2	19577	121	B4-U0-G2	20392	126	B4-U0-G2	21208	131	B4-U0-G2				
			VSQ-M	18397	114	B4-U0-G2	19197	119	B4-U0-G2	19996	124	B4-U0-G2	20796	129	B4-U0-G2				
			VSQ-W	17957	111	B5-U0-G3	18738	116	B5-U0-G3	19519	121	B5-U0-G3	20300	126	B5-U0-G3				
			II-HS	12999	80	B1-U0-G2	13565	84	B1-U0-G3	14130	87	B1-U0-G3	14695	91	B1-U0-G3				
			II-FR-HS	13224	82	B1-U0-G2	13799	85	B1-U0-G2	14373	89	B1-U0-G2	14948	92	B1-U0-G2				
			III-M-HS	13151	81	B1-U0-G3	13723	85	B1-U0-G3	14295	88	B1-U0-G3	14867	92	B1-U0-G3				
			III-W-HS	12873	80	B1-U0-G3	13433	83	B1-U0-G3	13992	87	B1-U0-G3	14552	90	B1-U0-G3				
			IV-HS	13584	84	B1-U0-G3	14175	88	B1-U0-G3	14765	91	B1-U0-G3	15356	95	B1-U0-G3				
			IV-FT-HS	12838	79	B1-U0-G3	13396	83	B1-U0-G3	13955	86	B1-U0-G4	14513	90	B1-U0-G4				

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

RZR/RZR-MAF-PLED-80LED-700mA-40K - 25' Pole Height



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PHOTOMETRIC DATA GUIDE - LUMEN TABLES
RZR/RZR-MAF-PLED

RZR/RZR-MAF-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
40	350	42.9	II	6500	152	B2-U0-G2	6782	158	B2-U0-G2	7065	165	B2-U0-G2	7348	171	B2-U0-G2	33.0	2309	70	B1-U0-G1
			II-FR	6544	153	B2-U0-G1	6828	159	B2-U0-G1	7113	166	B2-U0-G1	7397	172	B2-U0-G1		2325	70	B1-U0-G0
			II-ML	6500	152	B3-U0-G3	6783	158	B3-U0-G3	7065	165	B3-U0-G3	7348	171	B3-U0-G3		2309	70	B1-U0-G1
			III-M	6614	154	B2-U0-G2	6901	161	B2-U0-G2	7189	168	B2-U0-G2	7476	174	B2-U0-G2		2349	71	B1-U0-G1
			III-W	6141	143	B1-U0-G2	6408	149	B1-U0-G2	6675	156	B1-U0-G2	6942	162	B1-U0-G2		2182	66	B1-U0-G1
			IV	6564	153	B2-U0-G2	6849	160	B2-U0-G2	7135	166	B2-U0-G2	7420	173	B2-U0-G2		2332	71	B1-U0-G1
			IV-FT	5979	139	B1-U0-G2	6239	145	B1-U0-G2	6499	152	B1-U0-G2	6759	158	B1-U0-G2		2124	64	B1-U0-G1
			VSQ-N	6860	160	B2-U0-G1	7159	167	B2-U0-G1	7457	174	B2-U0-G1	7755	181	B2-U0-G1		2438	74	B1-U0-G0
			VSQ-M	6727	157	B3-U0-G1	7020	164	B3-U0-G1	7313	170	B3-U0-G1	7605	177	B3-U0-G2		2390	72	B2-U0-G1
			VSQ-W	6567	153	B3-U0-G2	6852	160	B3-U0-G2	7138	166	B3-U0-G2	7423	173	B3-U0-G2		2333	71	B2-U0-G1
			II-HS	4754	111	B1-U0-G2	4961	116	B1-U0-G2	5167	120	B1-U0-G2	5374	125	B1-U0-G2		1689	51	B0-U0-G0
			II-FR-HS	4836	113	B0-U0-G1	5046	118	B0-U0-G1	5256	123	B0-U0-G1	5466	127	B0-U0-G1		1718	52	B0-U0-G0
			III-M-HS	4810	112	B0-U0-G2	5019	117	B0-U0-G2	5228	122	B0-U0-G2	5437	127	B0-U0-G2		1708	52	B0-U0-G1
			III-W-HS	4708	110	B0-U0-G2	4912	115	B0-U0-G2	5117	119	B0-U0-G2	5321	124	B0-U0-G2		1673	51	B0-U0-G1
			IV-HS	4968	116	B0-U0-G2	5184	121	B0-U0-G2	5400	126	B0-U0-G2	5616	131	B0-U0-G2		1764	53	B0-U0-G1
			IV-FT-HS	4695	109	B0-U0-G2	4899	114	B0-U0-G2	5103	119	B0-U0-G2	5307	124	B0-U0-G2		1668	51	B0-U0-G1
40	525	64.8	II	9340	144	B2-U0-G2	9746	150	B2-U0-G2	10152	157	B2-U0-G2	10559	163	B2-U0-G2	51.0	2715	53	B1-U0-G1
			II-FR	9403	145	B2-U0-G1	9812	151	B2-U0-G1	10221	158	B2-U0-G1	10630	164	B2-U0-G1		2733	54	B1-U0-G1
			II-ML	9341	144	B3-U0-G3	9747	150	B3-U0-G3	10153	157	B3-U0-G3	10559	163	B3-U0-G3		2715	53	B1-U0-G1
			III-M	9504	147	B2-U0-G2	9917	153	B2-U0-G2	10330	159	B2-U0-G2	10743	166	B2-U0-G2		2762	54	B1-U0-G1
			III-W	8824	136	B2-U0-G3	9208	142	B2-U0-G3	9592	148	B2-U0-G3	9976	154	B2-U0-G3		2565	50	B1-U0-G1
			IV	9433	146	B2-U0-G2	9843	152	B2-U0-G2	10253	158	B2-U0-G2	10663	165	B2-U0-G2		2742	54	B1-U0-G1
			IV-FT	8592	133	B2-U0-G3	8966	138	B2-U0-G3	9340	144	B2-U0-G3	9713	150	B2-U0-G3		2497	49	B1-U0-G1
			VSQ-N	9858	152	B3-U0-G1	10287	159	B3-U0-G1	10716	165	B3-U0-G1	11144	172	B3-U0-G1		2866	56	B1-U0-G0
			VSQ-M	9667	149	B3-U0-G2	10088	156	B3-U0-G2	10508	162	B3-U0-G2	10928	169	B4-U0-G2		2809	55	B2-U0-G1
			VSQ-W	9436	146	B4-U0-G3	9846	152	B4-U0-G3	10257	158	B4-U0-G3	10667	165	B4-U0-G3		2743	54	B2-U0-G1
			II-HS	6831	105	B1-U0-G2	7128	110	B1-U0-G2	7425	115	B1-U0-G2	7722	119	B1-U0-G2		1985	39	B0-U0-G1
			II-FR-HS	6949	107	B1-U0-G1	7251	112	B1-U0-G1	7553	117	B1-U0-G1	7855	121	B1-U0-G1		2020	40	B0-U0-G0
			III-M-HS	6911	107	B0-U0-G2	7212	111	B0-U0-G2	7512	116	B1-U0-G2	7813	121	B1-U0-G2		2009	39	B0-U0-G1
			III-W-HS	6764	104	B0-U0-G2	7059	109	B0-U0-G2	7353	113	B0-U0-G2	7647	118	B0-U0-G2		1966	39	B0-U0-G1
			IV-HS	7138	110	B0-U0-G2	7449	115	B1-U0-G2	7759	120	B1-U0-G2	8069	125	B1-U0-G2		2075	41	B0-U0-G1
			IV-FT-HS	6746	104	B0-U0-G2	7040	109	B1-U0-G3	7333	113	B1-U0-G3	7626	118	B1-U0-G3		1960	38	B0-U0-G1
40	700	86.8	II	11823	136	B2-U0-G2	12337	142	B2-U0-G2	12851	148	B2-U0-G2	13365	154	B2-U0-G2	N/A	N/A		
			II-FR	11903	137	B3-U0-G1	12420	143	B3-U0-G1	12938	149	B3-U0-G1	13455	155	B3-U0-G1				
			II-ML	11824	136	B3-U0-G3	12338	142	B3-U0-G3	12852	148	B3-U0-G3	13366	154	B3-U0-G3				
			III-M	12030	139	B2-U0-G2	12553	145	B2-U0-G2	13076	151	B2-U0-G2	13599	157	B2-U0-G2				
			III-W	11170	129	B2-U0-G3	11656	134	B2-U0-G3	12142	140	B2-U0-G3	12627	145	B2-U0-G3				
			IV	11940	138	B2-U0-G2	12459	144	B2-U0-G2	12978	150	B2-U0-G2	13497	156	B2-U0-G2				
			IV-FT	10876	125	B2-U0-G3	11349	131	B2-U0-G3	11822	136	B2-U0-G3	12295	142	B2-U0-G3				
			VSQ-N	12479	144	B3-U0-G1	13022	150	B3-U0-G1	13564	156	B3-U0-G1	14107	163	B3-U0-G1				
			VSQ-M	12237	141	B4-U0-G2	12769	147	B4-U0-G2	13301	153	B4-U0-G2	13833	159	B4-U0-G2				
			VSQ-W	11945	138	B4-U0-G3	12464	144	B4-U0-G3	12983	150	B4-U0-G3	13502	156	B4-U0-G3				
			II-HS	8647	100	B1-U0-G2	9023	104	B1-U0-G2	9399	108	B1-U0-G2	9775	113	B1-U0-G2				
			II-FR-HS	8797	101	B1-U0-G1	9179	106	B1-U0-G1	9561	110	B1-U0-G1	9944	115	B1-U0-G1				
			III-M-HS	8749	101	B1-U0-G2	9129	105	B1-U0-G2	9510	110	B1-U0-G2	9890	114	B1-U0-G2				
			III-W-HS	8563	99	B1-U0-G2	8935	103	B1-U0-G2	9307	107	B1-U0-G2	9680	112	B1-U0-G3				
			IV-HS	9036	104	B1-U0-G2	9429	109	B1-U0-G2	9822	113	B1-U0-G2	10215	118	B1-U0-G2				
			IV-FT-HS	8540	98	B1-U0-G3	8911	103	B1-U0-G3	9282	107	B1-U0-G3	9653	111	B1-U0-G3				
40	875	110.8	II	14168	128	B2-U0-G2	14785	133	B3-U0-G2	15401	139	B3-U0-G2	16017	145	B3-U0-G3	N/A	N/A		
			II-FR	14264	129	B3-U0-G1	14884	134	B3-U0-G2	15504	140	B3-U0-G2	16125	146	B3-U0-G2				
			II-ML	14169	128	B3-U0-G3	14785	133	B4-U0-G4	15401	139	B4-U0-G4	16017	145	B4-U0-G4				
			III-M	14416	130	B2-U0-G2	15043	136	B2-U0-G2	15670	141	B3-U0-G2	16297	147	B3-U0-G3				
			III-W	13386	121	B2-U0-G3	13968	126	B2-U0-G3	14550	131	B2-U0-G3	15132	137	B2-U0-G3				
			IV	14309	129	B2-U0-G2	14931	135	B2-U0-G2	15553	140	B3-U0-G2	16175	146	B3-U0-G2				
			IV-FT	13034	118	B2-U0-G3	13601	123	B2-U0-G3	14167	128	B2-U0-G3	14734	133	B2-U0-G3				
			VSQ-N	14955	135	B3-U0-G1	15605	141	B3-U0-G1	16255	147	B4-U0-G1	16905	153	B4-U0-G2				
			VSQ-M	14665	132	B4-U0-G2	15302	138	B4-U0-G2	15940	144	B4-U0-G2	16578	150	B4-U0-G2				
			VSQ-W	14314	129	B4-U0-G3	14937	135	B4-U0-G3	15559	140	B4-U0-G3	16181	146	B4-U0-G3				
			II-HS	10363	94	B1-U0-G2	10813	98	B1-U0-G2	11264	102	B1-U0-G2	11714	106	B1-U0-G2				
			II-FR-HS	10541	95	B1-U0-G1	10999	99	B1-U0-G1	11458	103	B1-U0-G2	11916	108	B1-U0-G2				
			III-M-HS	10484	95	B1-U0-G2	10940	99	B1-U0-G2	11396	103	B1-U0-G2	11852	107	B1-U0-G3				
			III-W-HS	10262	93	B1-U0-G3	10708	97	B1-U0-G3	11154	101	B1-U0-G3	11600	105	B1-U0-G3				
			IV-HS	10828	98	B1-U0-G2	11299	102	B1-U0-G2	11770	106	B1-U0-G2	12241	110	B1-U0-G2				
			IV-FT-HS	10234	92	B1-U0-G3	10678	96	B1-U0-G3	11123	100	B1-U0-G3	11568	104	B1-U0-G3				
40	1050	134.8	II	16120	120	B3-U0-G3	16820	125	B3-U0-G3	17521	130	B3-U0-G3	18222	135	B3-U0-G3	N/A	N/A		
			II-FR	16228	120	B3-U0-G2	16934	126	B3-U0-G2	17639	131	B3-U0-G2	18345	136	B3-U0-G2				
			II-ML	16120	120	B4-U0-G4	16821	125	B4-U0-G4	17522	130	B4-U0-G4	18223	135	B4-U0-G4				
			III-M	16402	122	B3-U0-G3	17115	127	B3-U0-G3	17828	132	B3-U0-G3	18541	138	B3-U0-G3				
			III-W	15229	113	B2-U0-G3	15891	118	B3-U0-G3	16554	123	B3-U0-G3	17216	128	B3-U0-G3				
			IV	16279	121	B3-U0-G3	16987	126	B3-U0-G3	17694	131	B3-U0-G3	18402	137	B3-U0-G3				
			IV-FT	14829	110	B2-U0-G3	15474	115	B3-U0-G3	16118	120	B3-U0-G4	16763	124	B3-U0-G4				
			VSQ-N	17014	126	B4-U0-G2	17754	132	B4-U0-G2	18494	137	B4-U0-G2	19233	143	B4-U0-G2				
			VSQ-M	16684	124	B4-U0-G2	17410	129	B4-U0-G2	18135	135	B4-U0-G2	18861	140	B4-U0-G2				
			VSQ-W	16285	121	B4-U0-G3	16993	126	B5-U0-G3	17701	131	B5-U0-G3	18409	137	B5-U0-G3				
			II-HS	11789	87	B1-U0-G2	12302	91	B1-U0-G2	12814	95	B1-U0-G2	13327	99	B1-U0-G3				
			II-FR-HS	11993	89	B1-U0-G2	12514	93	B1-U0-G2	13035	97	B1-U0-G2	13557	101	B1-U0-G2				
			III-M-HS	11928	88	B1-U0-G3	12447	92	B1-U0-G3	12965	96	B1-U0-G3	13484	100	B1-U0-G3				
			III-W-HS	11674	87	B1-U0-G3	12182	90	B1-U0-G3	12690	94	B1-U0-G3	13197	98	B1-U0-G3				
			IV-HS	12319	91	B1-U0-G2	12855	95	B1-U0-G2	13391	99	B1-U0-G3	13926	103	B1-U0-G3				
			IV-FT-HS	11643	86	B1-U0-G3	12149	90	B1-U0-G3	12655	94	B1-U0-G3	13161	98	B1-U0-G3				

PHOTOMETRIC DATA GUIDE - LUMEN TABLES
RZR/RZR-MAF-PLED

LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
40	1225	158.9	II	17939	113	B3-U0-G3	18720	118	B3-U0-G3	19499	123	B3-U0-G3	20279	128	B3-U0-G3	N/A	N/A		
			II-FR	18060	114	B3-U0-G2	18845	119	B3-U0-G2	19631	124	B3-U0-G2	20416	128	B3-U0-G2				
			II-ML	17940	113	B4-U0-G4	18720	118	B4-U0-G4	19501	123	B4-U0-G4	20281	128	B4-U0-G4				
			III-M	18254	115	B3-U0-G3	19047	120	B3-U0-G3	19841	125	B3-U0-G3	20635	130	B3-U0-G3				
			III-W	16949	107	B3-U0-G3	17686	111	B3-U0-G3	18423	116	B3-U0-G3	19160	121	B3-U0-G4				
			IV	18117	114	B3-U0-G3	18904	119	B3-U0-G3	19692	124	B3-U0-G3	20480	129	B3-U0-G3				
			IV-FT	16503	104	B3-U0-G4	17221	108	B3-U0-G4	17938	113	B3-U0-G4	18656	117	B3-U0-G4				
			VSQ-N	18935	119	B4-U0-G2	19758	124	B4-U0-G2	20582	130	B4-U0-G2	21405	135	B4-U0-G2				
			VSQ-M	18568	117	B4-U0-G2	19375	122	B4-U0-G2	20183	127	B4-U0-G2	20990	132	B4-U0-G2				
			VSQ-W	18124	114	B5-U0-G3	18912	119	B5-U0-G3	19700	124	B5-U0-G3	20488	129	B5-U0-G3				
			II-HS	13121	83	B1-U0-G3	13691	86	B1-U0-G3	14262	90	B1-U0-G3	14832	93	B1-U0-G3				
			II-FR-HS	13347	84	B1-U0-G2	13927	88	B1-U0-G2	14508	91	B1-U0-G2	15088	95	B1-U0-G2				
			III-M-HS	13275	84	B1-U0-G3	13852	87	B1-U0-G3	14429	91	B1-U0-G3	15006	94	B1-U0-G3				
			III-W-HS	12993	82	B1-U0-G3	13558	85	B1-U0-G3	14123	89	B1-U0-G3	14688	92	B1-U0-G3				
			IV-HS	13711	86	B1-U0-G3	14307	90	B1-U0-G3	14903	94	B1-U0-G3	15499	98	B1-U0-G3				
			IV-FT-HS	12957	82	B1-U0-G3	13521	85	B1-U0-G3	14084	89	B1-U0-G4	14647	92	B1-U0-G4				
40	1400	183.1	II	19441	106	B3-U0-G3	20286	111	B3-U0-G3	21131	115	B3-U0-G3	21977	120	B3-U0-G3	N/A	N/A		
			II-FR	19572	107	B3-U0-G2	20423	112	B3-U0-G2	21274	116	B3-U0-G2	22125	121	B3-U0-G2				
			II-ML	19442	106	B4-U0-G4	20287	111	B4-U0-G4	21133	115	B4-U0-G4	21978	120	B4-U0-G4				
			III-M	19781	108	B3-U0-G3	20641	113	B3-U0-G3	21501	117	B3-U0-G3	22361	122	B3-U0-G3				
			III-W	18367	100	B3-U0-G3	19166	105	B3-U0-G4	19964	109	B3-U0-G4	20763	113	B3-U0-G4				
			IV	19633	107	B3-U0-G3	20487	112	B3-U0-G3	21341	117	B3-U0-G3	22194	121	B3-U0-G3				
			IV-FT	17885	98	B3-U0-G4	18662	102	B3-U0-G4	19440	106	B3-U0-G4	20217	110	B3-U0-G4				
			VSQ-N	20520	112	B4-U0-G2	21412	117	B4-U0-G2	22304	122	B4-U0-G2	23196	127	B4-U0-G2				
			VSQ-M	20122	110	B4-U0-G2	20997	115	B4-U0-G2	21872	119	B5-U0-G3	22747	124	B5-U0-G3				
			VSQ-W	19641	107	B5-U0-G3	20495	112	B5-U0-G3	21349	117	B5-U0-G4	22203	121	B5-U0-G4				
			II-HS	14219	78	B1-U0-G3	14837	81	B1-U0-G3	15455	84	B1-U0-G3	16074	88	B1-U0-G3				
			II-FR-HS	14464	79	B1-U0-G2	15093	82	B1-U0-G2	15722	86	B1-U0-G2	16351	89	B1-U0-G2				
			III-M-HS	14386	79	B1-U0-G3	15012	82	B1-U0-G3	15637	85	B1-U0-G3	16262	89	B1-U0-G3				
			III-W-HS	14080	77	B1-U0-G3	14692	80	B1-U0-G3	15305	84	B1-U0-G4	15917	87	B1-U0-G4				
			IV-HS	14858	81	B1-U0-G3	15504	85	B1-U0-G3	16150	88	B1-U0-G3	16796	92	B1-U0-G3				
			IV-FT-HS	14041	77	B1-U0-G4	14652	80	B1-U0-G4	15262	83	B1-U0-G4	15873	87	B1-U0-G4				

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PHOTOMETRIC GUIDE - LUMEN TABLES
RZR/RZR-MAF-PLED

RZR/RZR-MAF-PLIED																										
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)									
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING				
80	350	85.8	II	12597	147	B2-U0-G2	13145	153	B2-U0-G2	13692	160	B2-U0-G2	14240	166	B2-U0-G2	67.0	4475	67	B1-U0-G1							
			II-FR	12681	148	B3-U0-G1	13233	154	B3-U0-G1	13784	161	B3-U0-G1	14335	167	B3-U0-G1		4504	67	B1-U0-G1							
			II-ML	12597	147	B3-U0-G3	13145	153	B3-U0-G3	13693	160	B3-U0-G3	14241	166	B3-U0-G3		4475	67	B2-U0-G2							
			III-M	12817	149	B2-U0-G2	13375	156	B2-U0-G2	13932	162	B2-U0-G2	14489	169	B2-U0-G2		4553	68	B1-U0-G1							
			III-W	11901	139	B2-U0-G3	12418	145	B2-U0-G3	12936	151	B2-U0-G3	13453	157	B2-U0-G3		4228	63	B1-U0-G2							
			IV	12721	148	B2-U0-G2	13274	155	B2-U0-G2	13827	161	B2-U0-G2	14380	168	B2-U0-G2		4518	67	B1-U0-G1							
			IV-FT	11588	135	B2-U0-G3	12092	141	B2-U0-G3	12596	147	B2-U0-G3	13099	153	B2-U0-G3		4117	61	B1-U0-G1							
			VSQ-N	13295	155	B3-U0-G1	13874	162	B3-U0-G1	14452	168	B3-U0-G1	15030	175	B3-U0-G1		4723	70	B2-U0-G1							
			VSQ-M	13038	152	B4-U0-G2	13605	159	B4-U0-G2	14172	165	B4-U0-G2	14738	172	B4-U0-G2		4631	69	B3-U0-G1							
			VSQ-W	12726	148	B4-U0-G3	13280	155	B4-U0-G3	13833	161	B4-U0-G3	14386	168	B4-U0-G3		4520	67	B3-U0-G2							
			II-HS	9213	107	B1-U0-G2	9613	112	B1-U0-G2	10014	117	B1-U0-G2	10414	121	B1-U0-G2		3273	49	B0-U0-G1							
			II-FRHS	9371	109	B1-U0-G1	9779	114	B1-U0-G1	10186	119	B1-U0-G1	10594	123	B1-U0-G1		3329	50	B0-U0-G1							
			III-MHS	9321	109	B1-U0-G2	9726	113	B1-U0-G2	10131	118	B1-U0-G2	10536	123	B1-U0-G2		3311	49	B0-U0-G1							
			III-WHS	9123	106	B1-U0-G2	9520	111	B1-U0-G3	9916	116	B1-U0-G3	10313	120	B1-U0-G3		3240	48	B0-U0-G1							
			IV-HS	9627	112	B1-U0-G2	10046	117	B1-U0-G2	10464	122	B1-U0-G2	10882	127	B1-U0-G2		3420	51	B0-U0-G1							
			IV-FT-HS	9098	106	B1-U0-G3	9494	111	B1-U0-G3	9889	115	B1-U0-G3	10285	120	B1-U0-G3		3232	48	B0-U0-G2							
			80	525	129.7	II	18101	140	B3-U0-G3	18889	146	B3-U0-G3	19676	152	B3-U0-G3		20462	158	B3-U0-G3	101.0	5251	52	B1-U0-G1			
						II-FR	18223	141	B3-U0-G2	19016	147	B3-U0-G2	19808	153	B3-U0-G2		20600	159	B3-U0-G2		5286	52	B1-U0-G1			
						II-ML	18102	140	B4-U0-G4	18889	146	B4-U0-G4	19676	152	B4-U0-G4		20463	158	B4-U0-G4		5251	52	B2-U0-G2			
						III-M	18418	142	B3-U0-G3	19219	148	B3-U0-G3	20020	154	B3-U0-G3		20821	161	B3-U0-G3		5343	53	B1-U0-G2			
III-W	17101	132				B3-U0-G3	17845	138	B3-U0-G3	18589	143	B3-U0-G4	19332	149	B3-U0-G4	4961	49	B1-U0-G2								
IV	18280	141				B3-U0-G3	19075	147	B3-U0-G3	19869	153	B3-U0-G3	20664	159	B3-U0-G3	5302	52	B1-U0-G1								
IV-FT	16652	128				B3-U0-G4	17376	134	B3-U0-G4	18100	140	B3-U0-G4	18824	145	B3-U0-G4	4830	48	B1-U0-G2								
VSQ-N	19106	147				B4-U0-G2	19936	154	B4-U0-G2	20767	160	B4-U0-G2	21598	167	B4-U0-G2	5542	55	B2-U0-G1								
VSQ-M	18736	144				B4-U0-G2	19550	151	B4-U0-G2	20365	157	B4-U0-G2	21179	163	B5-U0-G3	5434	54	B3-U0-G1								
VSQ-W	18288	141				B5-U0-G3	19083	147	B5-U0-G3	19878	153	B5-U0-G3	20673	159	B5-U0-G3	5304	53	B3-U0-G2								
II-HS	13238	102				B1-U0-G3	13814	107	B1-U0-G3	14390	111	B1-U0-G3	14965	115	B1-U0-G3	3841	38	B0-U0-G1								
II-FRHS	13467	104				B1-U0-G2	14052	108	B1-U0-G2	14638	113	B1-U0-G2	15223	117	B1-U0-G2	3906	39	B0-U0-G1								
III-MHS	13393	103				B1-U0-G3	13976	108	B1-U0-G3	14558	112	B1-U0-G3	15140	117	B1-U0-G3	3885	38	B0-U0-G1								
III-WHS	13110	101				B1-U0-G3	13679	105	B1-U0-G3	14250	110	B1-U0-G3	14820	114	B1-U0-G4	3803	38	B0-U0-G2								
IV-HS	13834	107				B1-U0-G3	14435	111	B1-U0-G3	15037	116	B1-U0-G3	15638	121	B1-U0-G3	4013	40	B0-U0-G1								
IV-FT-HS	13074	101				B1-U0-G3	13642	105	B1-U0-G3	14211	110	B1-U0-G4	14779	114	B1-U0-G4	3792	38	B0-U0-G2								
80	700	173.5				II	22914	132	B3-U0-G3	23910	138	B3-U0-G3	24906	144	B3-U0-G3	25902	149	B3-U0-G3	N/A		N/A					
						II-FR	23068	133	B3-U0-G2	24070	139	B3-U0-G2	25073	145	B3-U0-G2	26076	150	B3-U0-G2								
						II-ML	22914	132	B4-U0-G4	23910	138	B4-U0-G4	24907	144	B4-U0-G4	25903	149	B4-U0-G4								
						III-M	23314	134	B3-U0-G3	24328	140	B3-U0-G4	25342	146	B3-U0-G4	26355	152	B3-U0-G4								
			III-W	21647	125	B3-U0-G4	22589	130	B3-U0-G4	23530	136	B3-U0-G4	24471	141	B3-U0-G4											
			IV	23139	133	B3-U0-G3	24145	139	B3-U0-G3	25152	145	B3-U0-G4	26158	151	B3-U0-G4											
			IV-FT	21079	121	B3-U0-G4	21995	127	B3-U0-G4	22911	132	B3-U0-G4	23828	137	B3-U0-G4											
			VSQ-N	24184	139	B4-U0-G2	25236	145	B4-U0-G2	26287	152	B4-U0-G2	27339	158	B5-U0-G2											
			VSQ-M	23716	137	B5-U0-G3	24747	143	B5-U0-G3	25778	149	B5-U0-G3	26809	155	B5-U0-G3											
			VSQ-W	23149	133	B5-U0-G4	24156	139	B5-U0-G4	25162	145	B5-U0-G4	26169	151	B5-U0-G4											
			II-HS	16758	97	B1-U0-G3	17486	101	B1-U0-G3	18215	105	B1-U0-G3	18944	109	B1-U0-G3											
			II-FRHS	17046	98	B1-U0-G2	17788	103	B1-U0-G2	18529	107	B1-U0-G2	19270	111	B1-U0-G2											
			III-MHS	16954	98	B1-U0-G3	17691	102	B1-U0-G4	18428	106	B1-U0-G4	19165	110	B1-U0-G4											
			III-WHS	16595	96	B1-U0-G4	17316	100	B1-U0-G4	18038	104	B1-U0-G4	18759	108	B1-U0-G4											
			IV-HS	17511	101	B1-U0-G3	18272	105	B1-U0-G3	19034	110	B1-U0-G3	19795	114	B1-U0-G4											
			IV-FT-HS	16549	95	B1-U0-G4	17269	100	B1-U0-G4	17988	104	B1-U0-G4	18708	108	B1-U0-G4											
			80	875	221.5	II	27459	124	B3-U0-G4	28653	129	B3-U0-G4	29847	135	B4-U0-G4	31040	140	B4-U0-G4		N/A				N/A		
						II-FR	27643	125	B3-U0-G2	28845	130	B4-U0-G2	30047	136	B4-U0-G2	31249	141	B4-U0-G2								
						II-ML	27460	124	B4-U0-G4	28654	129	B4-U0-G4	29848	135	B5-U0-G5	31042	140	B5-U0-G5								
						III-M	27939	126	B3-U0-G4	29154	132	B3-U0-G4	30369	137	B3-U0-G4	31584	143	B4-U0-G4								
III-W	25942	117				B3-U0-G4	27070	122	B3-U0-G4	28198	127	B3-U0-G4	29326	132	B3-U0-G5											
IV	27729	125				B3-U0-G4	28935	131	B3-U0-G4	30141	136	B3-U0-G4	31346	142	B4-U0-G4											
IV-FT	25260	114				B3-U0-G5	26358	119	B3-U0-G5	27456	124	B3-U0-G5	28554	129	B3-U0-G5											
VSQ-N	28982	131				B5-U0-G2	30242	137	B5-U0-G2	31502	142	B5-U0-G2	32762	148	B5-U0-G2											
VSQ-M	28420	128				B5-U0-G3	29656	134	B5-U0-G3	30892	139	B5-U0-G3	32128	145	B5-U0-G4											
VSQ-W	27742	125				B5-U0-G4	28948	131	B5-U0-G4	30154	136	B5-U0-G4	31360	142	B5-U0-G4											
II-HS	20082	91				B1-U0-G4	20955	95	B2-U0-G4	21828	99	B2-U0-G4	22701	102	B2-U0-G4											
II-FRHS	20428	92				B1-U0-G2	21316	96	B1-U0-G2	22204	100	B1-U0-G2	23092	104	B1-U0-G2											
III-MHS	20317	92				B1-U0-G4	21200	96	B1-U0-G4	22084	100	B1-U0-G4	22967	104	B1-U0-G4											
III-WHS	19887	90				B1-U0-G4	20751	94	B1-U0-G4	21616	98	B1-U0-G4	22481	101	B1-U0-G4											
IV-HS	20985	95				B1-U0-G4	21897	99	B1-U0-G4	22810	103	B1-U0-G4	23722	107	B1-U0-G4											
IV-FT-HS	19832	90				B1-U0-G4	20695	93	B1-U0-G4	21557	97	B1-U0-G4	22419	101	B1-U0-G5											
80	1050	269.5				II	31240	116	B4-U0-G4	32598	121	B4-U0-G4	33957	126	B4-U0-G4	35315	131	B4-U0-G4	N/A		N/A					
						II-FR	31450	117	B4-U0-G2	32817	122	B4-U0-G2	34185	127	B4-U0-G2	35552	132	B4-U0-G2								
						II-ML	31241	116	B5-U0-G5	32600	121	B5-U0-G5	33958	126	B5-U0-G5	35317	131	B5-U0-G5								
						III-M	31787	118	B4-U0-G4	33169	123	B4-U0-G4	34551	128	B4-U0-G4	35933	133	B4-U0-G4								
			III-W	29514	110	B3-U0-G5	30797	114	B3-U0-G5	32080	119	B3-U0-G5	33364	124	B3-U0-G5											
			IV	31548	117	B4-U0-G4	32920	122	B4-U0-G4	34291	127	B4-U0-G4	35663	132	B4-U0-G4											
			IV-FT	28738	107	B3-U0-G5	29987	111	B3-U0-G5	31237	116	B3-U0-G5	32487	121	B3-U0-G5											
			VSQ-N	32973	122	B5-U0-G2	34406	128	B5-U0-G2	35840	133	B5-U0-G2	37274	138	B5-U0-G2											
			VSQ-M	32334	120	B5-U0-G4	33740	125	B5-U0-G4	35145	130	B5-U0-G4	36551	136	B5-U0-G4											
			VSQ-W	31561	117	B5-U0-G5	32934	122	B5-U0-G5	34306	127	B5-U0-G5	35678	132	B5-U0-G5											
			II-HS	22847	85	B2-U0-G4	23841	88	B2-U0-G4	24834	92	B2-U0-G4	25827	96	B2-U0-G4											
			II-FRHS	23241	86	B1-U0-G2	24251	90	B1-U0-G2	25262	94	B1-U0-G2	26272	97	B2-U0-G2											
			III-MHS	23115	86	B1-U0-G4	24120	89	B1-U0-G4	25125	93	B1-U0-G4	26130	97	B1-U0-G4											
			III-WHS	22625	84	B1-U0-G4	23609	88	B1-U0-G5	24592	91	B1-U0-G5	25576	95	B1-U0-G5											
			IV-HS	23874	89	B1-U0-G4	24913	92	B1-U0-G4	25950	96	B1-U0-G4	26988	100	B1-U0-G4											
			IV-FT-HS	22563	84	B1-U0-G5	23545	87	B1-U0-G5	24525	91	B1-U0-G5	25506	95	B1-U0-G5											

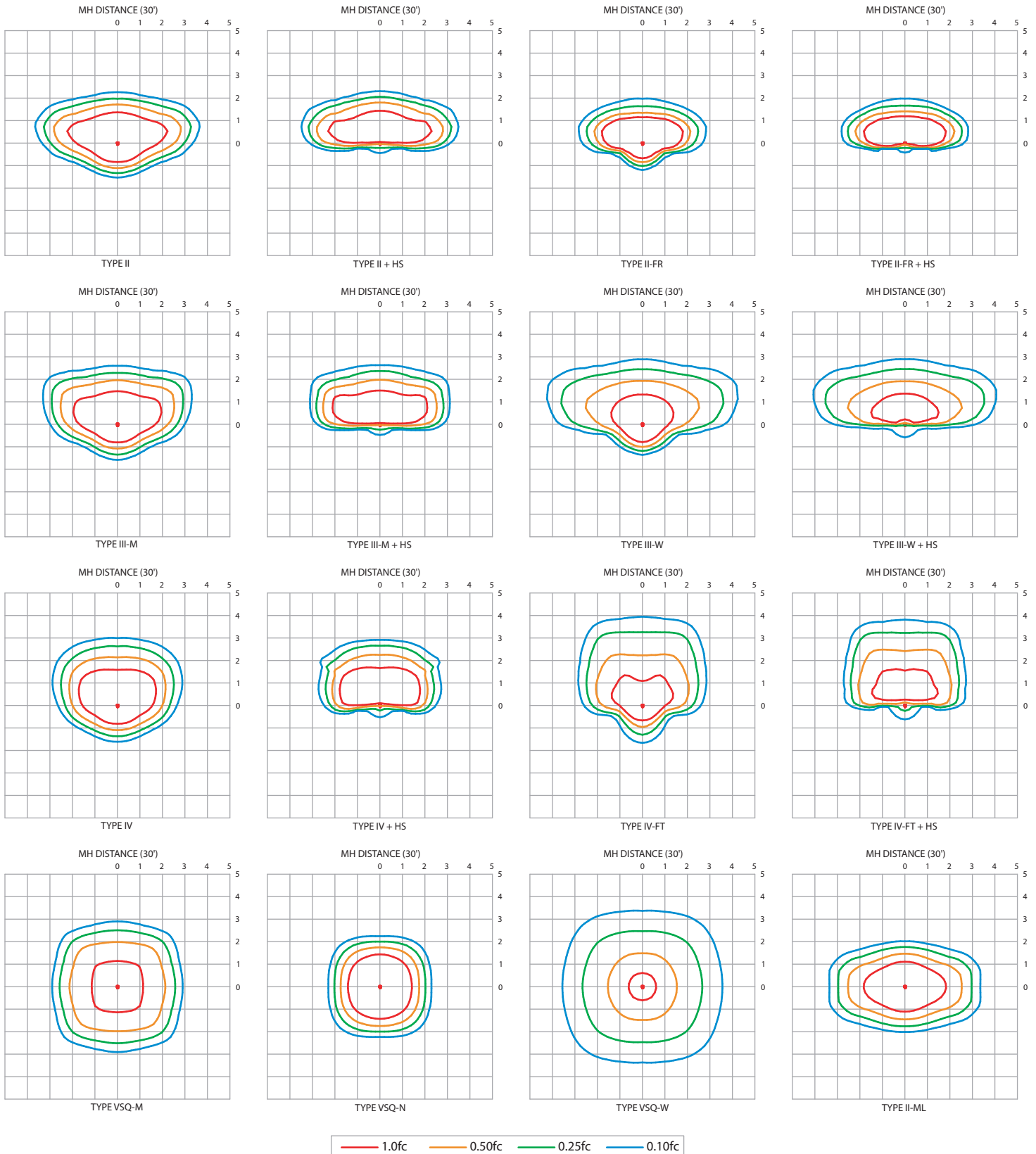
PHOTOMETRIC DATA GUIDE - LUMEN TABLES
RZR/RZR-MAF-PLED

LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
80	1225	317.9	II	34767	109	B4-U0-G4	36279	114	B4-U0-G4	37790	119	B4-U0-G4	39302	124	B4-U0-G4	N/A	N/A		
			II-FR	35001	110	B4-U0-G2	36523	115	B4-U0-G2	38044	120	B4-U0-G2	39566	124	B4-U0-G2				
			II-ML	34769	109	B5-U0-G5	36280	114	B5-U0-G5	37792	119	B5-U0-G5	39304	124	B5-U0-G5				
			III-M	35375	111	B4-U0-G4	36913	116	B4-U0-G4	38451	121	B4-U0-G5	39989	126	B4-U0-G5				
			III-W	32846	103	B3-U0-G5	34274	108	B3-U0-G5	35702	112	B3-U0-G5	37131	117	B3-U0-G5				
			IV	35110	110	B4-U0-G4	36636	115	B4-U0-G4	38163	120	B4-U0-G4	39689	125	B4-U0-G5				
			IV-FT	31983	101	B3-U0-G5	33373	105	B3-U0-G5	34764	109	B3-U0-G5	36155	114	B3-U0-G5				
			VSQ-N	36696	115	B5-U0-G2	38291	120	B5-U0-G2	39887	125	B5-U0-G2	41482	130	B5-U0-G2				
			VSQ-M	35985	113	B5-U0-G4	37549	118	B5-U0-G4	39114	123	B5-U0-G4	40678	128	B5-U0-G4				
			VSQ-W	35125	110	B5-U0-G5	36652	115	B5-U0-G5	38179	120	B5-U0-G5	39706	125	B5-U0-G5				
			II-HS	25427	80	B2-U0-G4	26533	83	B2-U0-G4	27638	87	B2-U0-G4	28744	90	B2-U0-G4				
			II-FR-HS	25865	81	B2-U0-G2	26989	85	B2-U0-G2	28114	88	B2-U0-G2	29239	92	B2-U0-G2				
			III-M-HS	25725	81	B1-U0-G4	26843	84	B1-U0-G4	27962	88	B1-U0-G5	29080	91	B1-U0-G5				
			III-W-HS	25179	79	B1-U0-G5	26274	83	B1-U0-G5	27369	86	B1-U0-G5	28464	90	B1-U0-G5				
			IV-HS	26570	84	B1-U0-G4	27725	87	B1-U0-G4	28881	91	B1-U0-G4	30036	94	B1-U0-G4				
			IV-FT-HS	25111	79	B1-U0-G5	26202	82	B1-U0-G5	27294	86	B1-U0-G5	28386	89	B1-U0-G5				
80	1400	366.2	II	37677	103	B4-U0-G4	39315	107	B4-U0-G4	40953	112	B4-U0-G4	42591	116	B4-U0-G5	N/A	N/A		
			II-FR	37930	104	B4-U0-G2	39579	108	B4-U0-G2	41228	113	B4-U0-G3	42877	117	B4-U0-G3				
			II-ML	37678	103	B5-U0-G5	39317	107	B5-U0-G5	40955	112	B5-U0-G5	42593	116	B5-U0-G5				
			III-M	38336	105	B4-U0-G5	40003	109	B4-U0-G5	41670	114	B4-U0-G5	43337	118	B4-U0-G5				
			III-W	35595	97	B3-U0-G5	37143	101	B3-U0-G5	38690	106	B3-U0-G5	40238	110	B4-U0-G5				
			IV	38048	104	B4-U0-G4	39703	108	B4-U0-G5	41357	113	B4-U0-G5	43011	117	B4-U0-G5				
			IV-FT	34659	95	B3-U0-G5	36166	99	B3-U0-G5	37673	103	B4-U0-G5	39180	107	B4-U0-G5				
			VSQ-N	39767	109	B5-U0-G2	41496	113	B5-U0-G2	43225	118	B5-U0-G2	44954	123	B5-U0-G2				
			VSQ-M	38996	106	B5-U0-G4	40692	111	B5-U0-G4	42387	116	B5-U0-G4	44082	120	B5-U0-G4				
			VSQ-W	38065	104	B5-U0-G5	39720	108	B5-U0-G5	41374	113	B5-U0-G5	43029	118	B5-U0-G5				
			II-HS	27555	75	B2-U0-G4	28753	79	B2-U0-G4	29951	82	B2-U0-G4	31149	85	B2-U0-G4				
			II-FR-HS	28030	77	B2-U0-G2	29248	80	B2-U0-G2	30467	83	B2-U0-G2	31686	87	B2-U0-G3				
			III-M-HS	27878	76	B1-U0-G5	29090	79	B1-U0-G5	30302	83	B1-U0-G5	31514	86	B1-U0-G5				
			III-W-HS	27287	75	B1-U0-G5	28474	78	B1-U0-G5	29660	81	B1-U0-G5	30846	84	B1-U0-G5				
			IV-HS	28794	79	B1-U0-G4	30046	82	B1-U0-G4	31298	85	B1-U0-G5	32550	89	B1-U0-G5				
			IV-FT-HS	27213	74	B1-U0-G5	28396	78	B1-U0-G5	29579	81	B1-U0-G5	30762	84	B1-U0-G5				

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PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

RZR-G-PLED-120LED-700mA-40K 30' Pole Height



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PHOTOMETRIC DATA GUIDE - LUMEN TABLES

RZR-G-PLD																				
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)			
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING	LUMENS
80	350	85.8	II	12975	151	B2-U0-G2	13539	158	B2-U0-G2	14103	164	B2-U0-G2	14667	171	B3-U0-G2	67.0	4610	69	B1-U0-G1	
			II-FR	13062	152	B3-U0-G1	13630	159	B3-U0-G1	14198	165	B3-U0-G1	14766	172	B3-U0-G2		4640	69	B1-U0-G1	
			II-ML	12975	151	B3-U0-G3	13539	158	B3-U0-G3	14104	164	B3-U0-G3	14668	171	B4-U0-G4		4610	69	B2-U0-G2	
			III-M	13201	154	B2-U0-G2	13776	161	B2-U0-G2	14350	167	B2-U0-G2	14924	174	B2-U0-G2		4689	70	B1-U0-G1	
			III-W	12258	143	B2-U0-G3	12791	149	B2-U0-G3	13324	155	B2-U0-G3	13857	161	B2-U0-G3		4354	65	B1-U0-G2	
			IV	13103	153	B2-U0-G2	13672	159	B2-U0-G2	14242	166	B2-U0-G2	14812	173	B2-U0-G2		4654	69	B1-U0-G1	
			IV-FT	11936	139	B2-U0-G3	12455	145	B2-U0-G3	12973	151	B2-U0-G3	13492	157	B2-U0-G3		4240	63	B1-U0-G1	
			VSQ-N	13694	160	B3-U0-G1	14290	167	B3-U0-G1	14885	173	B3-U0-G1	15481	180	B3-U0-G1		4865	73	B2-U0-G1	
			VSQ-M	13429	157	B4-U0-G2	14013	163	B4-U0-G2	14597	170	B4-U0-G2	15181	177	B4-U0-G2		4770	71	B3-U0-G1	
			VSQ-W	13108	153	B4-U0-G3	13678	159	B4-U0-G3	14248	166	B4-U0-G3	14818	173	B4-U0-G3		4656	69	B3-U0-G2	
			II-HS	9489	111	B1-U0-G2	9902	115	B1-U0-G2	10314	120	B1-U0-G2	10726	125	B1-U0-G2		3371	50	B0-U0-G1	
			II-FRHS	9652	112	B1-U0-G1	10072	117	B1-U0-G1	10492	122	B1-U0-G1	10911	127	B1-U0-G1		3428	51	B0-U0-G1	
			III-MHS	9600	112	B1-U0-G2	10018	117	B1-U0-G2	10435	122	B1-U0-G2	10852	126	B1-U0-G2		3410	51	B0-U0-G1	
			III-WHS	9397	110	B1-U0-G3	9805	114	B1-U0-G3	10214	119	B1-U0-G3	10622	124	B1-U0-G3		3337	50	B0-U0-G1	
			IV-HS	9916	116	B1-U0-G2	10347	121	B1-U0-G2	10778	126	B1-U0-G2	11209	131	B1-U0-G2		3523	53	B0-U0-G1	
			IV-FT-HS	9371	109	B1-U0-G3	9778	114	B1-U0-G3	10186	119	B1-U0-G3	10593	123	B1-U0-G3		3329	50	B0-U0-G2	
80	525	129.7	II	18645	144	B3-U0-G3	19455	150	B3-U0-G3	20266	156	B3-U0-G3	21077	163	B3-U0-G3	101.0	5408	54	B1-U0-G1	
			II-FR	18770	145	B3-U0-G2	19586	151	B3-U0-G2	20402	157	B3-U0-G2	21218	164	B3-U0-G2		5444	54	B1-U0-G1	
			II-ML	18645	144	B4-U0-G4	19456	150	B4-U0-G4	20266	156	B4-U0-G4	21077	163	B4-U0-G4		5408	54	B2-U0-G2	
			III-M	18971	146	B3-U0-G3	19796	153	B3-U0-G3	20620	159	B3-U0-G3	21445	165	B3-U0-G3		5503	54	B1-U0-G2	
			III-W	17614	136	B3-U0-G3	18380	142	B3-U0-G3	19146	148	B3-U0-G4	19912	154	B3-U0-G4		5110	51	B1-U0-G2	
			IV	18828	145	B3-U0-G3	19647	151	B3-U0-G3	20466	158	B3-U0-G3	21284	164	B3-U0-G3		5461	54	B1-U0-G1	
			IV-FT	17151	132	B3-U0-G4	17897	138	B3-U0-G4	18643	144	B3-U0-G4	19389	149	B3-U0-G4		4975	49	B1-U0-G2	
			VSQ-N	19679	152	B4-U0-G2	20535	158	B4-U0-G2	21390	165	B4-U0-G2	22246	172	B4-U0-G2		5709	57	B2-U0-G1	
			VSQ-M	19298	149	B4-U0-G2	20137	155	B4-U0-G2	20976	162	B4-U0-G2	21815	168	B5-U0-G3		5597	55	B3-U0-G1	
			VSQ-W	18837	145	B5-U0-G3	19656	152	B5-U0-G3	20475	158	B5-U0-G3	21293	164	B5-U0-G4		5464	54	B3-U0-G2	
			II-HS	13636	105	B1-U0-G3	14228	110	B1-U0-G3	14821	114	B1-U0-G3	15414	119	B1-U0-G3		3956	39	B0-U0-G1	
			II-FRHS	13870	107	B1-U0-G2	14473	112	B1-U0-G2	15077	116	B1-U0-G2	15680	121	B1-U0-G2		4023	40	B0-U0-G1	
			III-MHS	13795	106	B1-U0-G3	14395	111	B1-U0-G3	14995	116	B1-U0-G3	15594	120	B1-U0-G3		4001	40	B0-U0-G1	
			III-WHS	13503	104	B1-U0-G3	14090	109	B1-U0-G3	14677	113	B1-U0-G3	15264	118	B1-U0-G4		3917	39	B0-U0-G2	
			IV-HS	14249	110	B1-U0-G3	14868	115	B1-U0-G3	15488	119	B1-U0-G3	16107	124	B1-U0-G3		4133	41	B0-U0-G1	
			IV-FT-HS	13466	104	B1-U0-G3	14052	108	B1-U0-G4	14637	113	B1-U0-G4	15222	117	B1-U0-G4		3906	39	B0-U0-G2	
80	700	173.5	II	23601	136	B3-U0-G3	24627	142	B3-U0-G3	25653	148	B3-U0-G3	26679	154	B3-U0-G4	N/A	N/A			
			II-FR	23760	137	B3-U0-G2	24793	143	B3-U0-G2	25826	149	B3-U0-G2	26858	155	B3-U0-G2					
			II-ML	23602	136	B4-U0-G4	24628	142	B4-U0-G4	25654	148	B4-U0-G4	26680	154	B4-U0-G4					
			III-M	24014	138	B3-U0-G4	25058	144	B3-U0-G4	26102	150	B3-U0-G4	27146	156	B3-U0-G4					
			III-W	22297	129	B3-U0-G4	23266	134	B3-U0-G4	24236	140	B3-U0-G4	25205	145	B3-U0-G4					
			IV	23833	137	B3-U0-G3	24870	143	B3-U0-G4	25906	149	B3-U0-G4	26942	155	B3-U0-G4					
			IV-FT	21711	125	B3-U0-G4	22655	131	B3-U0-G4	23599	136	B3-U0-G4	24543	141	B3-U0-G5					
			VSQ-N	24910	144	B4-U0-G2	25993	150	B4-U0-G2	27076	156	B5-U0-G2	28159	162	B5-U0-G2					
			VSQ-M	24427	141	B5-U0-G3	25489	147	B5-U0-G3	26551	153	B5-U0-G3	27613	159	B5-U0-G3					
			VSQ-W	23844	137	B5-U0-G4	24880	143	B5-U0-G4	25917	149	B5-U0-G4	26954	155	B5-U0-G4					
			II-HS	17260	99	B1-U0-G3	18011	104	B1-U0-G3	18761	108	B1-U0-G3	19512	112	B1-U0-G3					
			II-FRHS	17557	101	B1-U0-G2	18321	106	B1-U0-G2	19084	110	B1-U0-G2	19848	114	B1-U0-G2					
			III-MHS	17462	101	B1-U0-G4	18222	105	B1-U0-G4	18981	109	B1-U0-G4	19740	114	B1-U0-G4					
			III-WHS	17092	99	B1-U0-G4	17836	103	B1-U0-G4	18579	107	B1-U0-G4	19322	111	B1-U0-G4					
			IV-HS	18036	104	B1-U0-G3	18821	108	B1-U0-G3	19605	113	B1-U0-G4	20389	118	B1-U0-G4					
			IV-FT-HS	17046	98	B1-U0-G4	17787	103	B1-U0-G4	18528	107	B1-U0-G4	19269	111	B1-U0-G4					
80	875	221.5	II	28283	128	B3-U0-G4	29512	133	B4-U0-G4	30742	139	B4-U0-G4	31972	144	B4-U0-G4	N/A	N/A			
			II-FR	28472	129	B4-U0-G2	29710	134	B4-U0-G2	30948	140	B4-U0-G2	32186	145	B4-U0-G2					
			II-ML	28283	128	B4-U0-G4	29513	133	B5-U0-G5	30743	139	B5-U0-G5	31973	144	B5-U0-G5					
			III-M	28778	130	B3-U0-G4	30029	136	B3-U0-G4	31280	141	B4-U0-G4	32531	147	B4-U0-G4					
			III-W	26720	121	B3-U0-G4	27882	126	B3-U0-G4	29044	131	B3-U0-G4	30205	136	B3-U0-G5					
			IV	28561	129	B3-U0-G4	29803	135	B3-U0-G4	31045	140	B4-U0-G4	32287	146	B4-U0-G4					
			IV-FT	26017	117	B3-U0-G5	27149	123	B3-U0-G5	28280	128	B3-U0-G5	29411	133	B3-U0-G5					
			VSQ-N	29851	135	B5-U0-G2	31149	141	B5-U0-G2	32447	146	B5-U0-G2	33745	152	B5-U0-G2					
			VSQ-M	29273	132	B5-U0-G3	30546	138	B5-U0-G3	31819	144	B5-U0-G4	33091	149	B5-U0-G4					
			VSQ-W	28574	129	B5-U0-G4	29816	135	B5-U0-G4	31059	140	B5-U0-G4	32301	146	B5-U0-G5					
			II-HS	20684	93	B1-U0-G4	21584	97	B2-U0-G4	22483	102	B2-U0-G4	23382	106	B2-U0-G4					
			II-FRHS	21040	95	B1-U0-G2	21956	99	B1-U0-G2	22870	103	B1-U0-G2	23785	107	B1-U0-G2					
			III-MHS	20926	94	B1-U0-G4	21836	99	B1-U0-G4	22746	103	B1-U0-G4	23656	107	B1-U0-G4					
			III-WHS	20483	92	B1-U0-G4	21374	96	B1-U0-G4	22264	101	B1-U0-G4	23155	105	B1-U0-G4					
			IV-HS	21614	98	B1-U0-G4	22554	102	B1-U0-G4	23494	106	B1-U0-G4	24433	110	B1-U0-G4					
			IV-FT-HS	20427	92	B1-U0-G4	21315	96	B1-U0-G4	22203	100	B1-U0-G5	23092	104	B1-U0-G5					
80	1050	269.5	II	32177	119	B4-U0-G4	33576	125	B4-U0-G4	34975	130	B4-U0-G4	36374	135	B4-U0-G4	N/A	N/A			
			II-FR	32393	120	B4-U0-G2	33802	125	B4-U0-G2	35210	131	B4-U0-G2	36619	136	B4-U0-G2					
			II-ML	32179	119	B5-U0-G5	33578	125	B5-U0-G5	34977	130	B5-U0-G5	36376	135	B5-U0-G5					
			III-M	32740	121	B4-U0-G4	34164	127	B4-U0-G4	35587	132	B4-U0-G4	37011	137	B4-U0-G4					
			III-W	30399	113	B3-U0-G5	31721	118	B3-U0-G5	33043	123	B3-U0-G5	34364	128	B3-U0-G5					
			IV	32494	121	B4-U0-G4	33907	126	B4-U0-G4	35320	131	B4-U0-G4	36733	136	B4-U0-G4					
			IV-FT	29600	110	B3-U0-G5	30887	115	B3-U0-G5	32174	119	B3-U0-G5	33461	124	B3-U0-G5					
			VSQ-N	33962	126	B5-U0-G2	35439	131	B5-U0-G2	36916	137	B5-U0-G2	38392	142	B5-U0-G2					
			VSQ-M	33304	124	B5-U0-G4	34752	129	B5-U0-G4	36200	134	B5-U0-G4	37648	140	B5-U0-G4					
			VSQ-W	32508	121	B5-U0-G5	33921	126	B5-U0-G5	35335	131	B5-U0-G5	36749	136	B5-U0-G5					
			II-HS	23533	87	B2-U0-G4	24556	91	B2-U0-G4	25579	95	B2-U0-G4	26602	99	B2-U0-G4					
			II-FRHS	23938	89	B1-U0-G2	24979	93	B1-U0-G2	26019	97	B2-U0-G2	27060	100	B2-U0-G2					
			III-MHS	23808	88	B1-U0-G4	24843	92	B1-U0-G4	25878	96	B1-U0-G4	26913	100	B1-U0-G4					
			III-WHS	23304	86	B1-U0-G4	24317	90	B1-U0-G5	25330	94	B1-U0-G5	26343	98	B1-U0-G5					
			IV-HS	24591	91	B1-U0-G4	25660	95	B1-U0-G4	26729	99	B1-U0-G4	27798	103	B1-U0-G4					
			IV-FT-HS	23240	86	B1-U0-G5	24251	90	B1-U0-G5	25261	94	B1-U0-G5	26272	97	B1-U0-G5					

PHOTOMETRIC GUIDE - LUMEN TABLES

RZR-G-PLED																				
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)			
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING	LUMENS
80	1225	317.9	II	35810	113	B4-U0-G4	37367	118	B4-U0-G4	38924	122	B4-U0-G4	40481	127	B4-U0-G4	N/A	N/A			
			II-FR	36051	113	B4-U0-G2	37618	118	B4-U0-G2	39185	123	B4-U0-G2	40753	128	B4-U0-G3					
			II-ML	35812	113	B5-U0-G5	37369	118	B5-U0-G5	38926	122	B5-U0-G5	40483	127	B5-U0-G5					
			III-M	36437	115	B4-U0-G4	38021	120	B4-U0-G5	39605	125	B4-U0-G5	41189	130	B4-U0-G5					
			III-W	33831	106	B3-U0-G5	35302	111	B3-U0-G5	36773	116	B3-U0-G5	38244	120	B3-U0-G5					
			IV	36163	114	B4-U0-G4	37735	119	B4-U0-G4	39308	124	B4-U0-G5	40880	129	B4-U0-G5					
			IV-FT	32942	104	B3-U0-G5	34374	108	B3-U0-G5	35807	113	B3-U0-G5	37239	117	B3-U0-G5					
			VSQ-N	37796	119	B5-U0-G2	39440	124	B5-U0-G2	41083	129	B5-U0-G2	42726	134	B5-U0-G2					
			VSQ-M	37064	117	B5-U0-G4	38675	122	B5-U0-G4	40287	127	B5-U0-G4	41899	132	B5-U0-G4					
			VSQ-W	36179	114	B5-U0-G5	37752	119	B5-U0-G5	39325	124	B5-U0-G5	40898	129	B5-U0-G5					
			II-HS	26190	82	B2-U0-G4	27328	86	B2-U0-G4	28467	90	B2-U0-G4	29606	93	B2-U0-G4					
			II-FR-HS	26641	84	B2-U0-G2	27799	87	B2-U0-G2	28957	91	B2-U0-G2	30116	95	B2-U0-G2					
			III-M-HS	26496	83	B1-U0-G4	27648	87	B1-U0-G4	28800	91	B1-U0-G5	29952	94	B1-U0-G5					
			III-W-HS	25935	82	B1-U0-G5	27062	85	B1-U0-G5	28190	89	B1-U0-G5	29318	92	B1-U0-G5					
			IV-HS	27367	86	B1-U0-G4	28557	90	B1-U0-G4	29747	94	B1-U0-G4	30937	97	B1-U0-G5					
			IV-FT-HS	25864	81	B1-U0-G5	26988	85	B1-U0-G5	28113	88	B1-U0-G5	29238	92	B1-U0-G5					
80	1400	366.2	II	38807	106	B4-U0-G4	40495	111	B4-U0-G4	42182	115	B4-U0-G5	43869	120	B4-U0-G5	N/A	N/A			
			II-FR	39068	107	B4-U0-G2	40767	111	B4-U0-G3	42465	116	B4-U0-G3	44164	121	B4-U0-G3					
			II-ML	38809	106	B5-U0-G5	40496	111	B5-U0-G5	42183	115	B5-U0-G5	43871	120	B5-U0-G5					
			III-M	39486	108	B4-U0-G5	41203	113	B4-U0-G5	42920	117	B4-U0-G5	44637	122	B4-U0-G5					
			III-W	36663	100	B3-U0-G5	38257	104	B3-U0-G5	39851	109	B4-U0-G5	41445	113	B4-U0-G5					
			IV	39190	107	B4-U0-G5	40894	112	B4-U0-G5	42598	116	B4-U0-G5	44301	121	B4-U0-G5					
			IV-FT	35699	97	B3-U0-G5	37251	102	B3-U0-G5	38804	106	B4-U0-G5	40356	110	B4-U0-G5					
			VSQ-N	40960	112	B5-U0-G2	42741	117	B5-U0-G2	44522	122	B5-U0-G2	46302	126	B5-U0-G2					
			VSQ-M	40166	110	B5-U0-G4	41912	114	B5-U0-G4	43659	119	B5-U0-G4	45405	124	B5-U0-G4					
			VSQ-W	39206	107	B5-U0-G5	40911	112	B5-U0-G5	42616	116	B5-U0-G5	44320	121	B5-U0-G5					
			II-HS	28382	78	B2-U0-G4	29616	81	B2-U0-G4	30850	84	B2-U0-G4	32084	88	B2-U0-G5					
			II-FR-HS	28871	79	B2-U0-G2	30126	82	B2-U0-G2	31381	86	B2-U0-G3	32636	89	B2-U0-G3					
			III-M-HS	28714	78	B1-U0-G5	29963	82	B1-U0-G5	31211	85	B1-U0-G5	32459	89	B1-U0-G5					
			III-W-HS	28106	77	B1-U0-G5	29328	80	B1-U0-G5	30550	83	B1-U0-G5	31772	87	B1-U0-G5					
			IV-HS	29658	81	B1-U0-G4	30947	85	B1-U0-G5	32237	88	B1-U0-G5	33526	92	B2-U0-G5					
			IV-FT-HS	28029	77	B1-U0-G5	29248	80	B1-U0-G5	30466	83	B1-U0-G5	31685	87	B2-U0-G5					

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PHOTOMETRIC DATA GUIDE - LUMEN TABLES

RZR-G-PLD																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
120	350	128.7	II	18895	147	B3-U0-G3	19717	153	B3-U0-G3	20538	160	B3-U0-G3	21360	166	B3-U0-G3	100.5	6713	67	B2-U0-G2
			II-FR	19022	148	B3-U0-G2	19849	154	B3-U0-G2	20676	161	B3-U0-G2	21503	167	B3-U0-G2		6757	67	B2-U0-G1
			II-ML	18896	147	B4-U0-G4	19718	153	B4-U0-G4	20539	160	B4-U0-G4	21361	166	B4-U0-G4		6713	67	B3-U0-G3
			III-M	19226	149	B3-U0-G3	20062	156	B3-U0-G3	20897	162	B3-U0-G3	21733	169	B3-U0-G3		6829	68	B2-U0-G2
			III-W	17851	139	B3-U0-G3	18627	145	B3-U0-G4	19403	151	B3-U0-G4	20179	157	B3-U0-G4		6341	63	B1-U0-G2
			IV	19081	148	B3-U0-G3	19911	155	B3-U0-G3	20741	161	B3-U0-G3	21570	168	B3-U0-G3		6778	67	B2-U0-G2
			IV-FT	17382	135	B3-U0-G4	18138	141	B3-U0-G4	18893	147	B3-U0-G4	19649	153	B3-U0-G4		6175	61	B1-U0-G2
			VSQ-N	19943	155	B4-U0-G2	20810	162	B4-U0-G2	21677	168	B4-U0-G2	22544	175	B4-U0-G2		7085	70	B2-U0-G1
			VSQ-M	19557	152	B4-U0-G2	20407	159	B4-U0-G2	21257	165	B5-U0-G3	22108	172	B5-U0-G3		6947	69	B3-U0-G1
			VSQ-W	19089	148	B5-U0-G3	19920	155	B5-U0-G3	20750	161	B5-U0-G3	21580	168	B5-U0-G4		6781	67	B3-U0-G2
			II-HS	13819	107	B1-U0-G3	14420	112	B1-U0-G3	15021	117	B1-U0-G3	15622	121	B1-U0-G3		4909	49	B1-U0-G2
			II-FR-HS	14057	109	B1-U0-G2	14668	114	B1-U0-G2	15279	119	B1-U0-G2	15890	123	B1-U0-G2		4993	50	B0-U0-G1
			III-M-HS	13981	109	B1-U0-G3	14589	113	B1-U0-G3	15197	118	B1-U0-G3	15804	123	B1-U0-G3		4967	49	B0-U0-G2
			III-W-HS	13685	106	B1-U0-G3	14279	111	B1-U0-G3	14875	116	B1-U0-G4	15470	120	B1-U0-G4		4860	48	B0-U0-G2
			IV-HS	14440	112	B1-U0-G3	15068	117	B1-U0-G3	15696	122	B1-U0-G3	16324	127	B1-U0-G3		5131	51	B0-U0-G2
			IV-FT-HS	13647	106	B1-U0-G3	14241	111	B1-U0-G4	14834	115	B1-U0-G4	15427	120	B1-U0-G4		4848	48	B0-U0-G2
120	525	194.5	II	27152	140	B3-U0-G4	28333	146	B3-U0-G4	29513	152	B4-U0-G4	30694	158	B4-U0-G4	151.5	7876	52	B2-U0-G2
			II-FR	27335	141	B3-U0-G2	28523	147	B4-U0-G2	29712	153	B4-U0-G2	30900	159	B4-U0-G2		7928	52	B2-U0-G1
			II-ML	27153	140	B4-U0-G4	28334	146	B4-U0-G4	29514	152	B5-U0-G5	30695	158	B5-U0-G5		7876	52	B3-U0-G3
			III-M	27627	142	B3-U0-G4	28828	148	B3-U0-G4	30030	154	B3-U0-G4	31231	161	B4-U0-G4		8014	53	B2-U0-G2
			III-W	25652	132	B3-U0-G4	26768	138	B3-U0-G4	27883	143	B3-U0-G4	28998	149	B3-U0-G4		7442	49	B1-U0-G2
			IV	27420	141	B3-U0-G4	28612	147	B3-U0-G4	29804	153	B3-U0-G4	30996	159	B4-U0-G4		7954	52	B2-U0-G2
			IV-FT	24978	128	B3-U0-G5	26063	134	B3-U0-G5	27150	140	B3-U0-G5	28236	145	B3-U0-G5		7246	48	B1-U0-G2
			VSQ-N	28658	147	B5-U0-G2	29904	154	B5-U0-G2	31150	160	B5-U0-G2	32396	167	B5-U0-G2		8314	55	B3-U0-G1
			VSQ-M	28103	144	B5-U0-G3	29325	151	B5-U0-G3	30547	157	B5-U0-G3	31769	163	B5-U0-G4		8151	54	B3-U0-G2
			VSQ-W	27432	141	B5-U0-G4	28625	147	B5-U0-G4	29817	153	B5-U0-G4	31010	159	B5-U0-G4		7957	53	B3-U0-G2
			II-HS	19858	102	B1-U0-G4	20721	107	B2-U0-G4	21585	111	B2-U0-G4	22448	115	B2-U0-G4		5761	38	B1-U0-G2
			II-FR-HS	20200	104	B1-U0-G2	21078	108	B1-U0-G2	21956	113	B1-U0-G2	22834	117	B1-U0-G2		5859	39	B1-U0-G1
			III-M-HS	20090	103	B1-U0-G4	20964	108	B1-U0-G4	21837	112	B1-U0-G4	22711	117	B1-U0-G4		5827	38	B0-U0-G2
			III-W-HS	19664	101	B1-U0-G4	20519	105	B1-U0-G4	21374	110	B1-U0-G4	22229	114	B1-U0-G4		5704	38	B0-U0-G2
			IV-HS	20751	107	B1-U0-G4	21653	111	B1-U0-G4	22555	116	B1-U0-G4	23457	121	B1-U0-G4		6020	40	B0-U0-G2
			IV-FT-HS	19611	101	B1-U0-G4	20464	105	B1-U0-G4	21316	110	B1-U0-G4	22169	114	B1-U0-G5		5689	38	B0-U0-G2
120	700	260.3	II	34370	132	B4-U0-G4	35865	138	B4-U0-G4	37359	144	B4-U0-G4	38853	149	B4-U0-G4	N/A	N/A		
			II-FR	34601	133	B4-U0-G2	36106	139	B4-U0-G2	37610	144	B4-U0-G2	39114	150	B4-U0-G2				
			II-ML	34371	132	B5-U0-G5	35866	138	B5-U0-G5	37360	144	B5-U0-G5	38855	149	B5-U0-G5				
			III-M	34972	134	B4-U0-G4	36492	140	B4-U0-G4	38013	146	B4-U0-G5	39533	152	B4-U0-G5				
			III-W	32471	125	B3-U0-G5	33883	130	B3-U0-G5	35295	136	B3-U0-G5	36707	141	B3-U0-G5				
			IV	34709	133	B4-U0-G4	36218	139	B4-U0-G4	37727	145	B4-U0-G4	39236	151	B4-U0-G5				
			IV-FT	31618	121	B3-U0-G5	32993	127	B3-U0-G5	34367	132	B3-U0-G5	35742	137	B3-U0-G5				
			VSQ-N	36277	139	B5-U0-G2	37854	145	B5-U0-G2	39431	151	B5-U0-G2	41008	158	B5-U0-G2				
			VSQ-M	35574	137	B5-U0-G4	37120	143	B5-U0-G4	38667	149	B5-U0-G4	40214	154	B5-U0-G4				
			VSQ-W	34724	133	B5-U0-G5	36233	139	B5-U0-G5	37743	145	B5-U0-G5	39253	151	B5-U0-G5				
			II-HS	25137	97	B2-U0-G4	26230	101	B2-U0-G4	27322	105	B2-U0-G4	28415	109	B2-U0-G4				
			II-FR-HS	25569	98	B2-U0-G2	26681	103	B2-U0-G2	27793	107	B2-U0-G2	28905	111	B2-U0-G2				
			III-M-HS	25431	98	B1-U0-G4	26537	102	B1-U0-G4	27643	106	B1-U0-G4	28748	110	B1-U0-G5				
			III-W-HS	24892	96	B1-U0-G5	25974	100	B1-U0-G5	27057	104	B1-U0-G5	28139	108	B1-U0-G5				
			IV-HS	26267	101	B1-U0-G4	27409	105	B1-U0-G4	28551	110	B1-U0-G4	29693	114	B1-U0-G4				
			IV-FT-HS	24824	95	B1-U0-G5	25903	100	B1-U0-G5	26983	104	B1-U0-G5	28062	108	B1-U0-G5				
120	875	332.3	II	41188	124	B4-U0-G4	42979	129	B4-U0-G5	44770	135	B4-U0-G5	46561	140	B4-U0-G5	N/A	N/A		
			II-FR	41465	125	B4-U0-G3	43268	130	B4-U0-G3	45071	136	B4-U0-G3	46874	141	B4-U0-G3				
			II-ML	41190	124	B5-U0-G5	42981	129	B5-U0-G5	44772	135	B5-U0-G5	46563	140	B5-U0-G5				
			III-M	41909	126	B4-U0-G5	43731	132	B4-U0-G5	45553	137	B4-U0-G5	47375	143	B4-U0-G5				
			III-W	38913	117	B3-U0-G5	40605	122	B4-U0-G5	42296	127	B4-U0-G5	43988	132	B4-U0-G5				
			IV	41594	125	B4-U0-G5	43402	131	B4-U0-G5	45211	136	B4-U0-G5	47020	141	B4-U0-G5				
			IV-FT	37890	114	B4-U0-G5	39537	119	B4-U0-G5	41185	124	B4-U0-G5	42832	129	B4-U0-G5				
			VSQ-N	43473	131	B5-U0-G2	45363	137	B5-U0-G2	47253	142	B5-U0-G3	49143	148	B5-U0-G3				
			VSQ-M	42631	128	B5-U0-G4	44484	134	B5-U0-G4	46338	139	B5-U0-G4	48191	145	B5-U0-G4				
			VSQ-W	41613	125	B5-U0-G5	43422	131	B5-U0-G5	45231	136	B5-U0-G5	47041	142	B5-U0-G5				
			II-HS	30123	91	B2-U0-G4	31433	95	B2-U0-G5	32742	99	B2-U0-G5	34052	102	B2-U0-G5				
			II-FR-HS	30642	92	B2-U0-G2	31974	96	B2-U0-G3	33306	100	B2-U0-G3	34639	104	B2-U0-G3				
			III-M-HS	30475	92	B1-U0-G5	31800	96	B1-U0-G5	33125	100	B1-U0-G5	34450	104	B2-U0-G5				
			III-W-HS	29830	90	B1-U0-G5	31127	94	B1-U0-G5	32424	98	B1-U0-G5	33721	101	B1-U0-G5				
			IV-HS	31477	95	B1-U0-G5	32846	99	B1-U0-G5	34214	103	B2-U0-G5	35583	107	B2-U0-G5				
			IV-FT-HS	29748	90	B1-U0-G5	31042	93	B2-U0-G5	32335	97	B2-U0-G5	33629	101	B2-U0-G5				
120	1050	404.3	II	46860	116	B4-U0-G5	48908	121	B5-U0-G5	50935	126	B5-U0-G5	52973	131	B5-U0-G5	N/A	N/A		
			II-FR	47175	117	B4-U0-G3	49226	122	B4-U0-G3	51277	127	B4-U0-G3	53328	132	B4-U0-G3				
			II-ML	46862	116	B5-U0-G5	48900	121	B5-U0-G5	50937	126	B5-U0-G5	52975	131	B5-U0-G5				
			III-M	47680	118	B4-U0-G5	49753	123	B4-U0-G5	51826	128	B4-U0-G5	53899	133	B5-U0-G5				
			III-W	44271	110	B4-U0-G5	46196	114	B4-U0-G5	48121	119	B4-U0-G5	50045	124	B4-U0-G5				
			IV	47322	117	B4-U0-G5	49379	122	B4-U0-G5	51437	127	B4-U0-G5	53494	132	B5-U0-G5				
			IV-FT	43107	107	B4-U0-G5	44981	111	B4-U0-G5	46856	116	B4-U0-G5	48730	121	B4-U0-G5				
			VSQ-N	49459	122	B5-U0-G3	51610	128	B5-U0-G3	53760	133	B5-U0-G3	55911	138	B5-U0-G3				
			VSQ-M	48501	120	B5-U0-G4	50609	125	B5-U0-G4	52718	130	B5-U0-G5	54827	136	B5-U0-G5				
			VSQ-W	47342	117	B5-U0-G5	49401	122	B5-U0-G5	51459	127	B5-U0-G5	53517	132	B5-U0-G5				
			II-HS	34271	85	B2-U0-G5	35761	88	B2-U0-G5	37251	92	B2-U0-G5	38741	96	B2-U0-G5				
			II-FR-HS	34861	86	B2-U0-G3	36377	90	B2-U0-G3	37893	94	B2-U0-G3	39408	97	B2-U0-G3				
			III-M-HS	34672	86	B2-U0-G5	36180	89	B2-U0-G5	37687	93	B2-U0-G5	39195	97	B2-U0-G5				
			III-W-HS	33938	84	B1-U0-G5	35413	88	B1-U0-G5	36889	91	B2-U0-G5	38364	95	B2-U0-G5				
			IV-HS	35812	89	B2-U0-G5	37368	92	B2-U0-G5	38926	96	B2-U0-G5	40483	100	B2-U0-G5				
			IV-FT-HS	33845	84	B2-U0-G5	35317	87	B2-U0-G5	36788	91	B2-U0-G5	38260	95	B2-U0-G5				

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

RZR-G-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
120	1225	476.8	II	52151	109	B5-U0-G5	54418	114	B5-U0-G5	56686	119	B5-U0-G5	58953	124	B5-U0-G5	N/A	N/A		
			II-FR	52501	110	B4-U0-G3	54784	115	B4-U0-G3	57067	120	B5-U0-G3	59349	124	B5-U0-G3				
			II-ML	52152	109	B5-U0-G5	54420	114	B5-U0-G5	56687	119	B5-U0-G5	58955	124	B5-U0-G5				
			III-M	53063	111	B5-U0-G5	55370	116	B5-U0-G5	57677	121	B5-U0-G5	59984	126	B5-U0-G5				
			III-W	49269	103	B4-U0-G5	51411	108	B4-U0-G5	53554	112	B4-U0-G5	55696	117	B4-U0-G5				
			IV	52665	110	B5-U0-G5	54954	115	B5-U0-G5	57244	120	B5-U0-G5	59534	125	B5-U0-G5				
			IV-FT	47974	101	B4-U0-G5	50060	105	B4-U0-G5	52146	109	B4-U0-G5	54232	114	B4-U0-G5				
			VSQ-N	55043	115	B5-U0-G3	57436	120	B5-U0-G3	59830	125	B5-U0-G3	62223	131	B5-U0-G3				
			VSQ-M	53977	113	B5-U0-G5	56324	118	B5-U0-G5	58670	123	B5-U0-G5	61017	128	B5-U0-G5				
			VSQ-W	52688	111	B5-U0-G5	54978	115	B5-U0-G5	57269	120	B5-U0-G5	59560	125	B5-U0-G5				
			II-HS	38140	80	B2-U0-G5	39799	83	B2-U0-G5	41457	87	B3-U0-G5	43115	90	B3-U0-G5				
			II-FR-HS	38797	81	B2-U0-G3	40484	85	B2-U0-G3	42171	88	B2-U0-G3	43858	92	B2-U0-G3				
			III-M-HS	38587	81	B2-U0-G5	40265	84	B2-U0-G5	41942	88	B2-U0-G5	43620	91	B2-U0-G5				
			III-W-HS	37769	79	B2-U0-G5	39411	83	B2-U0-G5	41054	86	B2-U0-G5	42696	90	B2-U0-G5				
			IV-HS	39855	84	B2-U0-G5	41588	87	B2-U0-G5	43321	91	B2-U0-G5	45054	94	B2-U0-G5				
			IV-FT-HS	37666	79	B2-U0-G5	39304	82	B2-U0-G5	40941	86	B2-U0-G5	42579	89	B2-U0-G5				
120	1400	549.3	II	56515	103	B5-U0-G5	58973	107	B5-U0-G5	61430	112	B5-U0-G5	63887	116	B5-U0-G5	N/A	N/A		
			II-FR	56895	104	B5-U0-G3	59369	108	B5-U0-G3	61842	113	B5-U0-G4	64316	117	B5-U0-G4				
			II-ML	56518	103	B5-U0-G5	58975	107	B5-U0-G5	61432	112	B5-U0-G5	63890	116	B5-U0-G5				
			III-M	57504	105	B5-U0-G5	60004	109	B5-U0-G5	62504	114	B5-U0-G5	65005	118	B5-U0-G5				
			III-W	53392	97	B4-U0-G5	55714	101	B4-U0-G5	58035	106	B4-U0-G5	60357	110	B4-U0-G5				
			IV	57073	104	B5-U0-G5	59554	108	B5-U0-G5	62036	113	B5-U0-G5	64517	117	B5-U0-G5				
			IV-FT	51989	95	B4-U0-G5	54249	99	B4-U0-G5	56510	103	B4-U0-G5	58771	107	B4-U0-G5				
			VSQ-N	59650	109	B5-U0-G3	62244	113	B5-U0-G3	64837	118	B5-U0-G3	67431	123	B5-U0-G3				
			VSQ-M	58495	106	B5-U0-G5	61038	111	B5-U0-G5	63581	116	B5-U0-G5	66124	120	B5-U0-G5				
			VSQ-W	57097	104	B5-U0-G5	59579	108	B5-U0-G5	62062	113	B5-U0-G5	64544	118	B5-U0-G5				
			II-HS	41333	75	B2-U0-G5	43130	79	B3-U0-G5	44927	82	B3-U0-G5	46724	85	B3-U0-G5				
			II-FR-HS	42045	77	B2-U0-G3	43873	80	B2-U0-G3	45701	83	B2-U0-G3	47529	87	B2-U0-G4				
			III-M-HS	41817	76	B2-U0-G5	43635	79	B2-U0-G5	45453	83	B2-U0-G5	47271	86	B2-U0-G5				
			III-W-HS	40931	75	B2-U0-G5	42711	78	B2-U0-G5	44490	81	B2-U0-G5	46270	84	B2-U0-G5				
			IV-HS	43191	79	B2-U0-G5	45069	82	B2-U0-G5	46947	85	B2-U0-G5	48825	89	B2-U0-G5				
			IV-FT-HS	40819	74	B2-U0-G5	42594	78	B2-U0-G5	44368	81	B2-U0-G5	46143	84	B2-U0-G5				

 IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html



MOUNTING HEIGHTS:
TYPE S4 - 18FT
TYPE S5 - 8FT

GENERAL LIGHTING
PHOTOMETRIC
PLAN - PHASE II

E300

APPENDIX A

EL DORADO COUNTY

Lighting Inventory

Section A Project Information:

Project Name & File No: DIAMOND VILLAGE APARTMENTS PHASE II

Site Address or Location: 750 BLACK RICE ROAD, PLACERVILLE, CA 95667

APN: 051-461-069

Building Permit #

Section B.1 Lighting Allowance

As a reference source, please review the Outdoor Lighting Ordinance, Chapter 130.34 (Outdoor Lighting) of Title 130 of the County Code of Ordinances.

$$\begin{array}{rcl} & \underline{50000} & \text{Maximum lumens (CR, RC, or RR)} \\ \times & \underline{5.71} & \text{Total project area (Acres or net acres)} \\ = & \underline{285500} & \text{Maximum Lumen Output Allowed} \end{array}$$

Section B.2 Preliminary Lighting Use

(A) Lamp Type	(B) Watts per lamp	(C) Lighting Plan Key (ID#)	(D) Number of lamps/ Length in feet (Neon only)	(E) Initial Lumen Output	(D x E) Total Unit Lumen Output
LED	39	RM-PLED-IV-FT-24LED-525MA-30K-HS-EC	18	2045	36810
LED	10	WDGE1-LED-P1P30K-90CRI-VF	42	1028	43176
				Total Lumen Output	79986

APPENDIX A

Design Certification:

This form must be completed and signed by the design professional, as defined under Subsection 3.2 (Definitions) of the Community Design Standards (Outdoor Lighting).

“I/we certify that the design and technical specifications are compliant with the requirements in Community Design Standards (Outdoor Lighting).”

Signature 	Date 12/17/2024
Name (Print) Andrew Balkwell	Title Electrical Engineer
Telephone No. 949 280-9743	E-mail Address abalkwell@arbelectric.com
License or Certification No. E18563	
Company ARB Electrical Inc.	Street Address 1401 N EL CAMINO REAL #201
City San Clemente	State and Zip Code CA- 92672

Section C Construction and Installation Certificate of Completion

This form must be completed and signed by the design professional or the licensed contractor who installed the system.

“I/we certify that based upon periodic site observations, the work has been completed in accordance with the Community Design Standards (Outdoor Lighting) and that the lighting system was built and installed according to the design specifications certified above.”

Signature	Date
Name (Print)	Title
Telephone No.	E-mail Address
License or Certification No.	
Company	Street Address
City	State and Zip Code

From: Greg Matuzak, Principal Biologist
Greg Matuzak Environmental Consulting LLC
P.O. Box 2016
Nevada City, CA 95959 Phone: (530) 557-5077
Email: gmatuzak@gmail.com

For: Sergei Oleshko
SNO Foundation
8863 Greenback Lane, Suite 324
Orangevale, CA 95662
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APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

DATE: January 9, 2025

EXECUTIVE SECRETARY: Karen L. Garner

RC

C/O: Millennium Planning & Engineering
471 Sutton Way, Suite #210
Grass Valley, CA 95945
Email: subs@millpe.com

Date: October 31, 2024

Re: Updated Biological Resources and Wetland Assessment Technical
Memorandum for the Diamond Springs Village Apartments Phase II in El
Dorado County (APN: 051-461-069)

Introduction

The previous reporting for sensitive biological resources developed for the proposed Diamond Springs Village Apartments Phase II Project (Project) by Greg Matuzak Environmental Consulting LLC included the following two (2) technical memorandums:

- Biological Resources Assessment Technical Memorandum for the Diamond Springs Village Apartments Phase II Project (dated May 31, 2024); and
- United States Fish and Wildlife Service (USFWS) Wetland Assessment Technical Memorandum for the proposed Diamond Springs Village Apartments Phase II Project (Project) in Diamond Springs, El Dorado County (dated September 10, 2024).

The Biological Resources Assessment Technical Memorandum provided an assessment of the habitats identified within the Phase II Project area as well as an assessment of suitable habitat for special-status species (including state and federally listed species under their respective Endangered Species Acts) to occur within the Phase II Project area. The Biological Resources Assessment Technical Memorandum also included an assessment of the existing trees and wetlands and streams that occur

within the Phase II Project area. Lastly, the Biological Resources Technical Memorandum (dated May 31, 2024) included an overview of the permitting requirements if such sensitive biological resources would be impacted by the proposed Phase II Project.

The Wetland Assessment Technical Memorandum was developed to ensure the Phase II Project is in compliance with the requirements of the Project's SB 35 application. As part of the Project's SB 35 preliminary application, the El Dorado County Planning Department requested updated reporting that analyzes the potential for wetlands and/or streams defined by the USFWS and under the State of California Government Code § 65913.4.

Therefore, this Updated Biological Resources and Wetland Assessment Technical Memorandum (Updated Tech Memo) provides an overview of the assessment of sensitive biological resources within the Phase II Project parcel, which is based on current database searches and a recent site visit and reconnaissance-level biological resources survey (conducted in 2024) and were focused on the following resources:

- Sensitive habitats, including riparian and wetland habitats
- Suitable habitat for special-status species, including Designated Critical Habitat (DCH) mapped by the USFWS
- Trees protected by El Dorado County, including protected oak resources
- Compliance with local, state, and federal regulations covering the protection of sensitive biological resources
- Compliance with the State of California's SB 35 requirements as they relate to the presence of USFWS defined wetlands within the Phase II Project parcel per State of California Government Code § 65913.4

Project Background

The proposed Project is an affordable housing project that addresses California's overall housing shortage. The applicant proposes to construct 32 affordable housing ("Apartments") units located on 750 Black Rice Road, adjacent to the Diamond Springs Village Apartments project (PD17- 0002) within the Diamond Springs community of El Dorado County. The subject parcel originally consisted of 10.7 acres, identified as APN 051-461- 059, and was included in the review for PD17- 0002/Diamond Springs Village Apartments. The property has since been subdivided to separate Phases 1 and 2 for funding purposes, with the resultant subject parcel (APN 051-461-069) consisting of 5.71- acres.

The subject parcel is located within the Community Region of Diamond Springs and El Dorado on the south side of Black Rice Road, approximately 0.25 miles from Highway 49. The parcel has “split” zoning consisting of RM (west portion) and RE-5 (east portion). Construction of Diamond Springs Village Apartments (PD17-0002) is currently underway on the adjacent 5.01 parcel. Most of the proposed development area for the project has already been graded under Permit #0368221 to stage equipment and materials during construction activities of Construction of Diamond Springs Village Apartments (PD17-0002). The surrounding parcels have compatible land uses and zoning designations. The site is surrounded on the east, west, and south with high- density multi-family development and to the north across Black Rice Road are single-family residential dwellings. See attached Site Plan dated October 2024.

Based on the understanding of the proposed Project, the applicant would develop 32 affordable housing (“apartments”) on the ~5.71-acre parcel. The apartments would consist of four (4) multi-family buildings located entirely within the RM zoning on the westerly portion of property. The approximate number of units and square footage of each are as follows.

- Building 1: Eight (8) 1-bedroom units 598 sqft/ea Total: 4,784 sqft

- Building 2: Eight (8) 2-bedroom units 802 sqft/ea Total: 6,416 sqft

- Building 3: Eight (8) 2-bedroom units 802 sqft/ea Total: 6,416 sqft

- Building 4: Eight (8) 3-bedroom units 1,095 sqft/ea Total: 8,760 sqft

Of the 32 units, one of the units will be designated as a Managers Unit. The design of the buildings is similar to the adjacent development of Diamond Springs Village Apartments – Phase 1. The Project proposes 61 parking spaces for the eight (8) 1-bedroom, sixteen (16) 2-bedroom and eight (8) 3-bedroom units. Therefore, this Updated Tech Memo for the Phase II Project has been developed for review and approval by the El Dorado County Planning Department. While Phase II will not develop the entire 5.71-acre parcel, this Biological Resources and Wetland Assessment Technical Memorandum considers the potential for sensitive biological resources, including

potential wetlands, on the entire parcel, not just the Phase II development site or area.

Conclusions of the Previous Reporting for Biological Resources within the Project Area

EcoSynthesis Scientific & Regulatory Services, Inc. Report dated November 19, 2012

A Biological Resource Report and Wetland Delineation was prepared for the area prior to the parcel split in November of 2012. The existing vegetation was identified to consist of non- native grassland, with small areas of ponderosa pine, willow-valley oak riparian, interior live oak woodland, coyote brush scrub, and mesic meadow. This initial reporting covering the Project area was developed by EcoSynthesis Scientific & Regulatory Services, Inc. and was dated November 19, 2012. The reporting completed in 2012 included a delineation of a seasonal drainage and associated riparian areas associated with the drainage area located along the northeastern border of the project area.

The November 2012 report concluded that mesic meadow areas were located and mapped within the southernmost part of the study area and they lie within 100 feet of a drainage inlet south of Service Drive, which “we can reasonably assume flows ultimately into some downslope tributary.” The total area mapped in 2012 was 0.63 acres. However, the areas mapped as mesic meadows lie outside the proposed Project parcel for the Phase II Project covered under this Updated Tech Memo. Service Drive is located well to the south of the Phase II Project parcel and therefore, previously mapped potential wetland areas do not occur within the Phase II Project parcel covered under this Updated Tech Memo based on the findings of the November 2012 report.

Lastly, the November 2012 report concluded that the grasslands within the woodlands adjacent to the Phase II Project area have the potential for the CNPS List 3 rated plant species, the dubious pea (*Lathyrus sulphureus var. argillaceus*), to occur within those area, but the surveys completed were conducted outside the blooming season for the species (April and May). The November 2012 report however, did not identify any suitable habitat for other special-status plant or wildlife species within the entirety of the area covered in their reporting, which also included the entirety of the Phase II Project parcel.

Greg Matuzak Environmental Consulting Biological Resources Assessment (May 31, 2024)

The May 31, 2024 Biological Resources Technical Memorandum concluded that no habitat for special-status species occurs within the Phase II Project area and that no drainages, streams, ponds, wetlands, or other potentially regulated aquatic habitats were identified within the Phase II Project disturbance areas. However, an existing drainage area with associated riparian vegetation is mapped adjacent to the west of the proposed Phase II Project disturbance areas and this area was included as part of

the review of the Phase I Project area and a CDFW Streambed Alteration Agreement (LSA) Permit was finalized for that area and proposed impacts to the mapped riparian area. The mapped riparian area is not a “wetland” as it does not meet the federal criteria (U.S. Army Corps of Engineers or USFWS) as a regulated wetland and therefore, it is mapped as a riparian habitat area and not a “wetland”.

Surveys of the grasslands within the woodlands adjacent to the Phase II Project area did not identify the dubious pea or any other special-status plant species within the entirety of the Phase II Project area. Therefore, the May 31, 2024 Biological Resources Technical Memorandum concluded that no habitat for special-status species occurs within the Phase II Project parcel and no special-status species would be impacted by the proposed Phase II Project.

Therefore, the Phase II Project area does not include any special-status plant, wildlife, or fish species protected under state or federal regulations, including under CEQA. Given the location of the seasonal drainage area and associated riparian habitat that lies to the west of the proposed Phase II Project area will not be impacted by the Phase II Project, an amendment to the existing LSA permit with CDFW is not required. Furthermore, no additional permitting is required for the Phase II Project area given the area does not contain any regulated wetlands under the Clean Water Act (CWA) and state or federally listed species would not occur within the Phase II Project area given a lack of suitable habitat and Designated Critical Habitat for any listed species.

Greg Matuzak Environmental Consulting Wetland Assessment (September 10, 2024)

As explained in the September 10, 2024 USFWS Wetland Assessment Technical Memorandum, California Government Code § 65913.4 states that “wetlands, as defined in the USFWS Manual, Part 660 FW 2 (dated June 21, 1993)” documented within the Project site could preclude development of a project applying for SB 35 coverage. See the attached USFWS wetlands classification system and definitions and the State of California Government Code § 65913.4 with the requirements highlighted for how wetlands are defined per the Code.

The September 10, 2024 USFWS Wetland Assessment Technical Memorandum concluded unequivocally that there are no USFWS defined drainages or wetlands within the Phase II Project area and the areas to the east of the Phase II Project parcel where previous NWI mapped aquatic resources occur are located completely to the east and outside of the Phase II Project parcel within a low-lying area on the eastern side of the neighboring property’s driveway. The eastern section and boundary of the Phase II Project parcel does not contain the topography, vegetation, soils, or hydrology required to meet the definition of USFWS as a wetland, nor does it meet the definition of the State of California as a regulated wetland area. Therefore, the Phase II Project is not subject to USFWS, State of California, or any other state or federal agency review or permitting

process as it relates to streams and wetlands.

The September 10, 2024 Wetland Assessment recognized that a USFWS map located within the National Wetland Inventory (NWI) contains a previously mapped drainage or wetland area that could appear adjacent or along the parcel boundary. It explained, however, that while USFWS National Wetland Inventory maps are an informative tool and were provided to show potential features in the area, the USFWS maps are set up from historic flyovers and aerial photographs and were never field verified by any agency. The USFWS wetland mapping provided within the NWI is for reference only and is not sufficient within itself to determine the presence or absence of wetlands within a study area. The USFWS wetland data included within the NWI is backed by metadata that also states the following disclaimer on the face of the map:

This map is for general reference only. The USFWS is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site (NWI).

The State of California specifically provides the following disclaimers regarding the USFWS maps:

Precautions - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities. Acknowledgement of the U.S. Fish and Wildlife Service and (or) the National Wetlands Inventory would be appreciated in products derived from these data.

Disclaimer: *The State makes no claims, promises, or guarantees about the accuracy, completeness, reliability, or adequacy of these data and expressly disclaims liability for errors and omissions in these data. No warranty of any kind, implied, expressed, or statutory, including but not limited to the warranties of non-infringement of third party rights, title, merchantability, fitness for a particular purpose, and freedom from computer virus, is given with respect to these data.*

(<https://map.dfg.ca.gov/metadata/ds2630.html>.)

The NWI map is therefore a starting point, but must be evaluated in the field as occurred here and the conclusions stated below.

The September 10, 2024 Wetland Assessment also explained that, a formal wetland delineation or any other further study of wetlands should not be necessary from a practical level given within the Phase II Project parcel there is nothing to delineate as there is a clear lack of required hydrology, vegetation, topography, and soils to define any area as a wetland using the USFWS definition. Formal wetland delineation forms (in this case would be the Wetland Determination Data Form for Western Mountains, Valleys, and Coast Region) are forms required by the United States Army Corps of Engineers for the determination of the presence of wetlands regulated under the CWA.

Methods

Standard biological resources database searches were conducted to identify potential sensitive biological resources within and immediately adjacent to the Project area and the disturbed and graded areas within the Project area (see attached Phase II Project related figures and the results of the database searches conducted for the evaluation covered in this Updated Tech Memo). This Updated Tech Memo evaluates the areas of proposed disturbance related to the Project and it tiers off the existing Biological Resources and USFWS Wetland Assessment Technical Memorandums developed by Greg Matuzak Environmental Consulting LLC Delineation (dated May 31, 2024 and September 10, 2024 respectively).

The following information was used to identify potential sensitive biological resources, including the presence of special-status plant and wildlife species within the Phase II Project area region that could be found to use the Project area:

- California Department of Fish and Wildlife's California Natural Diversity Database records search of 3-mile buffer around the Project area (CDFW, 2024);
- The California Native Plant Society's online Inventory of Rare and Endangered Plants of California for the Project area (CNPS, 2024);
- The U.S. Fish and Wildlife Service Information, Planning, and Consultation System (IPaC) for endangered, threatened, and proposed listed species for the Project area (USFWS, 2024);
- National Wetland Inventory and National Hydrography Database map of the Project area (NWI and NHD, 2024);
- United States Department of Agriculture (USDA) Soils Mapper of the Project area (USDA, 2024);
- Natural Resources Conservation Service (NRCS) Hydric Soils List for El Dorado County (NRCS, 2024); and
- El Dorado County Land Use and Development Code, Ordinances, and General Plan.

Site Visit and Reconnaissance-Level Biological Resources Survey

Greg Matuzak conducted a consultation with the applicant and Project engineers as part of the development of this Updated Tech Memo for the proposed Project. The consultations initially occurred on April 20th, 2024 and then several follow up consultations occurred in August and September of 2024. A follow up site visit and reconnaissance-level biological resources and USFWS wetland survey was conducted for the entirety of the Phase II Project area by Greg Matuzak on April 20th, 2024. See the attached photo log documenting the Project area during the site visit for the development of this Updated Tech Memo.

Therefore, this Updated Tech Memo provides an overview of the assessment of sensitive biological resources within the Phase II Project area, which is based on current database searches and a recent site visit and reconnaissance-level biological resources survey (conducted in 2024). Below includes the results of the site assessment for the Phase II Project for sensitive biological resources protected at the local, state, and federal levels.

Results

Habitats within the Phase II Project Area

Non-Native Annual Grasslands

The dominant species within the Phase II Project area include non-native vegetation as well as some annual and perennial non-native weeds such as yellow star- thistle (*Centaurea solstitialis*) and Klamath weed (*Hypericum perforatum*). The most prevalent invasive grass within the Project area is medusa-head grass (*Elymus [Taeniatherum] caput-medusae*). Additionally, soft chess (*Bromus hordeaceus*) and the non-native perennial, tall wheat grass (*Elymus ponticus*), appears to have been planted for soil stabilization within areas of previous disturbance within the Project area.

Foothill Riparian

A fragment of riparian habitat less than 400 feet long extends between Deuce Drive and Black Rice Road. The Phase I Project impacted this mapped sensitive habitat and a CDFW LSA was applied for and approved prior to the implementation of riparian habitat related impacts within the Phase I Project area. The woody riparian vegetation within the site is a small area and is of mixed composition. The dominant species in terms of cover is probably arroyo willow (*Salix lasiolepis*). The most notable tree species are several large valley oaks and Fremont's cottonwoods (*Populus fremontii*) at the north end, but neither of these species predominates throughout. None of the Phase II Project will encroach upon the existing riparian

habitat the runs between the Phase I and Phase II Project areas (see attached Site Plan demonstrating that the Phase II Project will avoid encroachment into the fenced of riparian habitat area.

Overall, the tree component corresponds well with the typical expression of foothill riparian habitat with the understory, where present, almost exclusively Himalayan blackberry (*Rubus armeniacus*). A portion of the riparian corridor is comprised entirely of this understory species with no tree overstory. No wetlands or other CWA aquatic resources were documented along the drainage area or within any area of the Phase II Project area.

Tree and Protected Oak Resources for the El Dorado Oak Technical Report

The proposed Phase II Project will remove two (2) foothill pine trees (both measuring approximately 16-inch DBH) that are located along the eastern boundary of the proposed areas of disturbance. The existing native oak trees located within the fenced off area to the west of the Phase II Project area will not be impacted, nor will the 42" DBH native oak tree located adjacent to the retaining wall along the western edge of the Phase II Project area given the retaining wall will be located outside of the dripline of the 42" DBH oak tree. A single native oak tree with a DBH of 8 inches will be removed as part of the attached updated Site Plan showing the three (3) trees to be removed.

Section 2.1.5 from the El Dorado County Oak Resources Management Plan (ORMP) dated September 2017 includes the following exemption from the required mitigation and associated development of an Oak Resources Technical Report for the removal of the single 8" blue oak tree within the Phase II Project site:

- 2.1.5 Affordable Housing Exemption
Affordable housing projects for lower income households, as defined pursuant to Section 50079.5 of the California Health and Safety Code, that are located within an urbanized area, or within a sphere of influence as defined pursuant to California Government Code §56076 are exempted from the mitigation requirements included in this ORMP.

Therefore, given the Phase II Project meets the Section 2.1.5 exemption for affordable housing, the proposed removal of a single 8" blue oak tree from within the Phase II Project area would not require mitigation and the associated development of an Oak Resources Technical Report or require mitigation requirements included in the ORMP.

Wetlands (as stated in the September 10, 2024 SFWS Wetland Assessment Technical Memorandum)

Mr. Matuzak is a USFWS and California Department of Fish and Wildlife (CDFW) Qualified Biologist and was responsible for the evaluation of potential wetlands as defined by the USFWS that was approved by the El Dorado County Planning Department (Phase I and Phase II Projects). Additionally, Mr. Matuzak successfully coordinated and consulted with CDFW as part of an executed Lake or Streambed Alteration Agreement permit covering the Diamond Springs Village Apartments Phase I Project. Mr. Matuzak has conducted dozens of wetland assessments reviewed and approved by the USFWS and other state and federal agencies with jurisdiction over such wetland features.

Based on the site visit within the Diamond Springs Village Apartments Phase II Project area on April 20, 2024 and an updated review of the USFWS National Wetland Inventory (NWI), which is a database of USFWS defined aquatic resources, including streams and wetlands, the proposed Diamond Springs Village Apartments Phase II Project parcel does not contain any previously USFWS mapped wetlands, nor does it currently contain any areas that meet the definition of a wetland by the USFWS.

Per USFW Service Manual, Part 660 FW 2 (dated June 21, 1993), the following is the definition of a wetland:

- Wetlands. Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes (plants specifically adapted to live in wetlands); (2) the substrate is predominantly undrained hydric (wetland) soil; and (3) the substrate is non soil and is saturated with water or covered by shallow water at some time during the growing season of each year.

The findings of this Tech Memo concur with the previous Biological Resources Technical Memorandum developed by Greg Matuzak Environmental Consulting LLC for the Phase II Project (dated May 31, 2024) that concluded “no drainages, streams, ponds, wetlands, or other potentially regulated aquatic habitats were identified within the Phase II Project area.” The conclusion of this Tech Memo and the previous assessment of the Phase II Project area is based on the multiple site visits conducted by Mr. Matuzak, the topography within the Project area, and the expertise that Mr. Matuzak has with federal guidelines pertaining to the delineation of “waters of the U.S.,” including wetlands, as defined by the federal government and by USFWS. The attached most up to date review of the USFWS NWI covering the Project area and the property containing it includes a

USFWS mapped drainage area and wetland/pond area located to the east of the Phase II Project parcel eastern boundary.

The attached topographic map shows that within the eastern and northeastern sections of the Project parcel, there is a moderate incline along the eastern edge of the Project parcel. Adjacent to the east of the Project boundary is a driveway that enters from north to south such that the neighboring property has access into its adjacent property to the east of the Project parcel. The adjacent parcel to the east does contain a low-lying drainage area to the east of their driveway and it includes an approximate 3-foot contour that is wholly located completely within their property and to the east of the access road into their property.

See the attached photos showing the driveway that enters the neighboring property to the east and the moderate incline up to the west from the existing driveway. The attached photos also clearly show a drainage area located to the east of the access road into the property located to the east of the Phase II Project parcel, which clearly demonstrates that the Phase II Project parcel located to the west and upslope of the driveway does not contain the topography, hydrology, or vegetation required to be defined as a wetland by the USFWS. Therefore, the Project parcel along the eastern and northeast border does not contain any USFWS aquatic resources, including streams and/or wetlands, and it does not contain any wetlands that would be regulated by any federal or state regulatory agency.

The photos show no sign of any drainage, nor do they show any sign of wetlands or areas that would meet any of the USFWS criteria as the following:

"(1) at least periodically, the land supports predominantly hydrophytes (plants specifically adapted to live in wetlands); (2) the substrate is predominantly undrained hydric (wetland) soil; and (3) the substrate is non soil and is saturated with water or covered by shallow water at some time during the growing season of each year."

The mapped USDA Soil Series within the Diamond Springs Village Apartments Phase II Project area and parcel is the Diamond Springs Series. This USDA Soil Series is an upland soil type that does not associate with wetland areas given the characteristics of this soil type as listed below. Also, see the attached soil description for the Diamond Springs Series.

Below, is an outline of the series characteristics:

- Diamond Springs Series is very fine sandy loam – located with oaks, grasslands, ponderosa pine.
- Well-drained; medium to rapid runoff; moderate or moderately slow

permeability.

- Native vegetation is live oak, blue oak, black oak, ponderosa pine, Douglas-fir, white fir and Digger pine with an understory of brush, annual grasses, and forbs.

Given the updated 2023 Waters of the United States rule by the Environmental Protection Agency (EPA) and U.S. Corps of Engineers (Corps) states that regulated “waters of the U.S.,” including wetlands, must be perennial and have a clear and direct connection to a navigable waterway, the drainages and previously mapped wetlands would not be regulated under the Clean Water Act (CWA) as of 2023 and currently in 2024. Furthermore, no wetland associated vegetation or hydrology was identified within the Phase II Project parcel and therefore, such wetlands or other aquatic resources do not occur within the Phase II Project parcel, nor does any area within the Phase II Project parcel meet the definition of a wetland defined by the USFWS or under the State of California Government Code § 65913.4.

Phase II Project Area Observations and Recommendations

Based on an evaluation of sensitive biological resources conducted by Greg Matuzak for the applicant, the following evaluations and conclusions were made for the project:

Special-Status Species and Sensitive Habitats

- **Identification of special-status wildlife and plant species with potential to occur within or directly adjacent to the subject parcel based on a review of CDFW and USFWS databases, mapped USDA soil types within the proposed project area, previous biological resources reporting for the parcel, and the closest known previously documented locations of such special-status species:**
- A review of the 2012 EcoSynthesis El Dorado Apartment Biological Resources Report and Wetland Delineation reporting identified the dubious pea, a CNPS List 3 species, as the only special-status species with any potential to occur within the project area and parcel. The dubious pea is known to occur within lower montane woodlands that occur within the southern portions of the project area and the 2012 reported that the species is the only special-status species with potential to occur within the project area.
- An updated review of the CNDDDB (May 2024) documenting the previous locations of special-status species that have been previously identified within 3 miles of the subject parcel concluded that a total of ten (10) special-status species have been previously documented within 3 miles of the Project area. See the attached figure depicting the

location of the special-status species within 3 miles of the Project area that have previously been identified and included within the CNDDDB by CDFW (as of May 2024). Furthermore, within 3 miles of the Project area, Designated Critical Habitat (DCH) has not been mapped for any federally listed species.

- During the site visit and reconnaissance-level biological resources survey conducted for the entirety of the proposed disturbed areas within the Phase II Project area, no suitable habitat occurs within or directly adjacent to those areas for special-status species (either special-status plant or special-status wildlife species).
- The attached species list has been updated to include the species evaluated within the 2012 EcoSynthesis report as well as additional species, including the monarch butterfly and Crotch's bumble bee as both species are now Candidates for listing under the federal Endangered Species Act and California Endangered Species Act, respectively.
- During the April 20th, 2024 survey of the Project area, plant or wildlife species were identified within the Phase II Project area and the species list is attached to this Updated Tech Memo.
- During the site visit and reconnaissance-level biological resources survey conducted for the entirety of the proposed disturbed areas within the Project area, no suitable habitat occurs within or directly adjacent to those areas for special-status species given the level of localized disturbance and a dominance of non-native annual grassland species, as well as invasive weeds, within the areas proposed for Project related disturbance. Furthermore, dubious pea was not identified within the proposed areas of disturbance within the Project area during the April 20th, 2024 biological resources survey of the proposed areas to be impacted by the proposed Project and therefore, no special-status species will be impacted by the proposed project. The survey conducted in April 2024 was completed during the blooming period for the dubious pea which is known to include April and May.
- It is recommended the El Dorado County Conditions of Approval include a standard condition requiring surveys for nesting birds be implemented prior to vegetation clearing and grading to ensure that no nesting birds are impacted by the proposed project.
- The proposed Phase II Project may remove two (2) foothill pine trees (both measuring approximately 16-inch DBH) and a single 8" DBH blue oak tree along the eastern boundary of the Phase II Project area.
- Given the Phase II Project meets the Section 2.1.5 exemption for affordable housing, the proposed removal of a single 8" blue oak tree from within the Phase II Project area would not require the development of an Oak Resources Technical

Report or require mitigation requirements included in the ORMP.

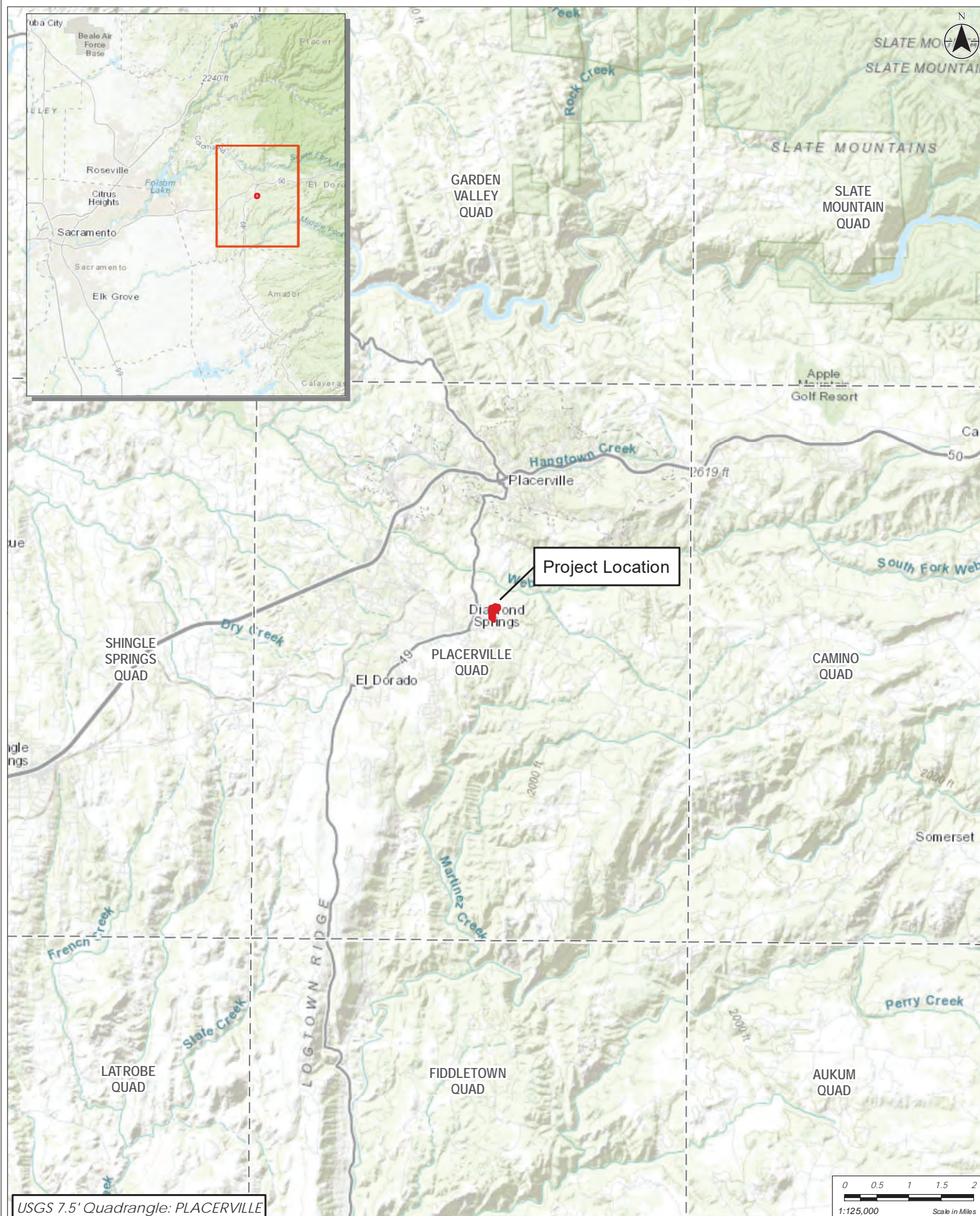
- Oak resources mitigation for the loss of the single oak tree would not be required to be implemented given the Phase II Project is exempted under Section 2.1.5 of the ORMP.

Conclusions

This Updated Tech Memo concludes that no suitable habitat for special-status species occurs within the Project area and that no drainages, streams, ponds, wetlands, or other potentially regulated aquatic habitats were identified within the Phase II Project disturbance areas. However, surveys of the grasslands within the woodlands adjacent to the Phase II Project area did not identify the dubious pea or any other special-status species within the entirety of the Phase II Project area to be impacted by the proposed Project. Given the location of the seasonal drainage area and associated riparian habitat lies to the west of the proposed Phase II Project area and will not be impacted, an LSA permit with CDFW is not required and given the Phase II Project area does not contain any regulated wetlands under the CWA and no additional permitting is required.

Therefore, with the implementation of the El Dorado County Conditions of Approval covering the proposed Phase II Project, I conclude that the proposed disturbance would not have a potential substantial or significant negative impact on sensitive biological resources. Given the lack of suitable habitat for special-status plant and wildlife species within and directly adjacent to the proposed disturbance areas within the Phase II Project area, no impacts to special-status species would occur from the development of the Project. Additionally, no wetland areas defined by the USFWS or under the State of California Government Code § 65913.4 are located within the Phase II Project parcel. Lastly, mitigation under the ORMP is not required to be implemented given the removal of the 8" native blue oak tree is exempt from mitigation requirements under the ORMP. Therefore, an Oak Resources Code Compliance Certificate has been filled out and signed by the Phase II Project applicant.

Attachments



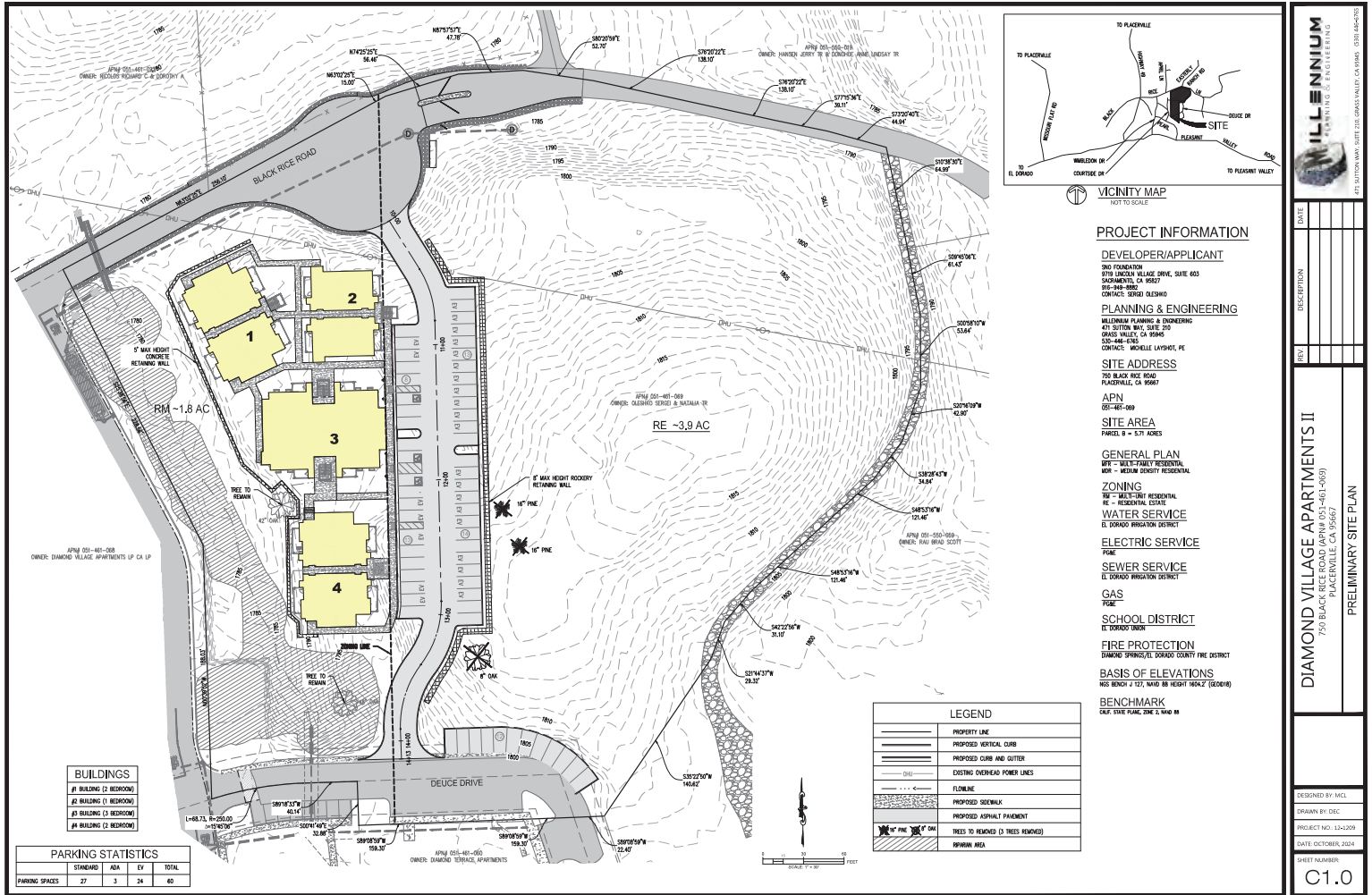
GREG MATUZAK
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El Dorado Apartments



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 Environmental Consulting LLC
 Nevada City, CA

El Dorado Apartments



Photos of the Site Visit and Field Survey on April 20th, 2024



Photo 1: Phase II Project area along Black Rice Road to the left. Phase I permitted temporary storage is also located to the left. Riparian zone fenced off in photo.



Photo 2: Phase I Project Sign along Black Rice Road, the north end of the Project area.



Photo 3: Large open area within the Phase II Project along Black Rice Road to the right.



Photo 4: Along Black Rice Road with Phase I to the right being constructed and Phase II to the left. Riparian zone fenced off in photo and no Phase II impacts proposed.



Photo 5. South end of Phase II Project with Deuce Drive to the left. Riparian area with fencing and native oak trees protected. Access road into Phase II in photo with gravel.



Photo 6: South end of Phase II Project looking north along Deuce Drive. Riparian area with fencing and native oak trees protected. Access road into Phase II in photo.



Photo 7: Pine trees mapped within the Phase II Project area with the Phase I temporary storage within the Phase II Project area below. No oaks to be removed.



Photo 8: Phase II Project area with the permitted Phase I temporary storage within the Phase II Project area. No wetlands were identified within the Phase II Project area.



Photo 9. Fenced off area within the Phase II Project area with the Phase I temporary storage within the Phase II Project area to the left. Black Rice Road at power line pole.



Photo 10. Phase II Project area with silt fencing located along Black Rice Road to the right. No wetlands or aquatic habitats identified in the Phase II Project area.



Photo 11. Pine trees to the right located along the edge of proposed disturbance within the Phase II Project. Small oak trees to be avoided. No oak trees to be disturbed.



Photo 12. Existing Phase II fence line with Deuce Drive below in photo. Phase I being constructed across to the south of Deuce Drive in photo to the right.



Photo 13: Phase II Project area property is located to the right of the existing driveway into the adjacent property to the Phase II Project area. Any drainage is located within the neighboring property in photo and not to the right of the access road in the photo.



Photo 14: Phase II Project area is located 100s of feet on the other side of the existing driveway that enter the adjacent property. However, the trees in the photo demarcate the approximate property line for the property that includes the Phase II Project area.



Photo 15: Large open area within the Phase II Project property at the corner of Black Rice Road to the right and the existing access to the left into the neighboring property. No drainages or USFWS wetland criteria were identified within the Phase II Project property.

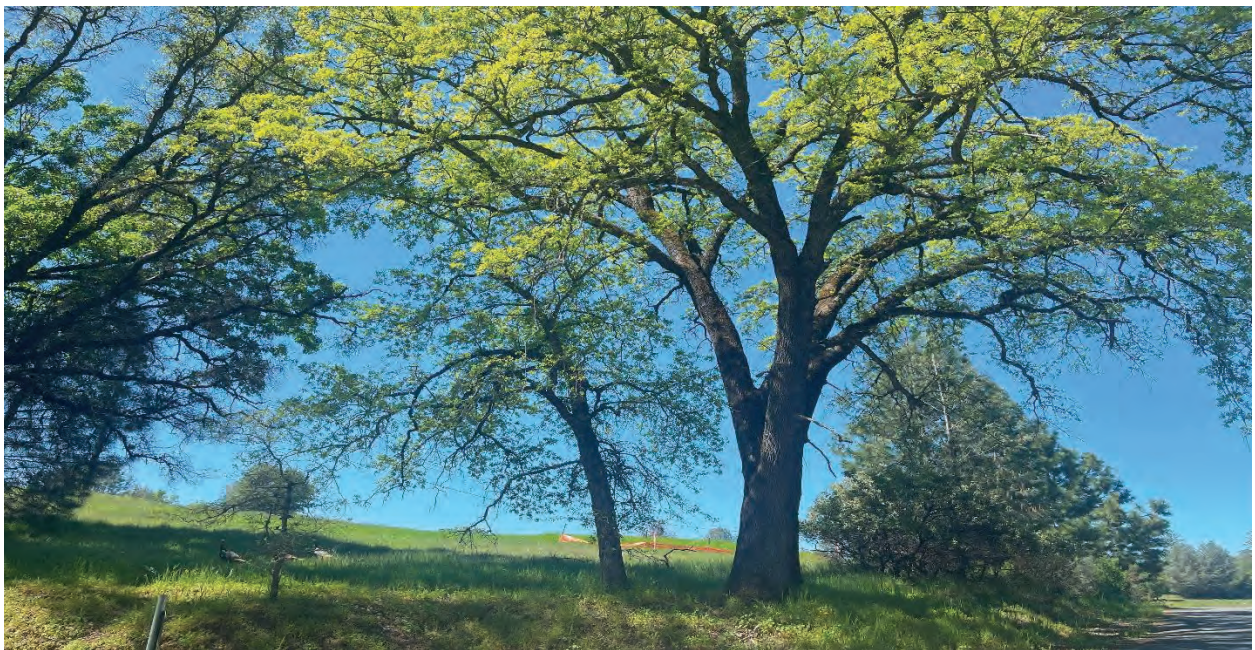


Photo 16: Large open area within the Phase II Project property at the corner of Black Rice Road to the right and the existing access to the left into the neighboring property. No drainages or USFWS wetland criteria were identified within the Phase II Project property.

Table 1. Special-status species recorded by CNDDB in the nine USGS quadrangles centered on the &M %PSBEP study site. Animals are listed roughly according to phylogenetic relationships; plants are listed alphabetically by scientific name. See text for additional information on species for which suitable habitat is present. Many species tracked by CNDDB have no regulatory status, and/or are not very rare either statewide or globally (ranks G4 or 5 and S4 or 5), and/or have status applicable only within federal lands (e.g., U.S. Forest Service sensitive species), and do not necessarily meet the threatened/endangered criteria applicable under CEQA guideline 15380.

Status definitions (Federal status/State status/California Native Plant Society [CNPS] list):

E or T, listed as endangered or threatened under state or federal Endangered Species Act;

C, candidate for listing as endangered or threatened;

SC, species of special concern (California DFG);

List 1B, considered rare, threatened or endangered by CNPS and normally regarded by DFG as meriting consideration under CEQA Guideline 15380; List 2, rare, threatened, or endangered in California but more common elsewhere; effects on List 3 (insufficient information) and List 4 (watch list) species are not considered to be significant except on a case-by-case basis.

Species	Status (US/CA/ CNPS)	Microhabitat/Occurrence	Suitable Habitat Present?	Other Information
MAMMALS				
Pacific fisher <i>Martes pennanti</i>	C/-	Extensive dense forest and other woody habitats in northern Sierra foothills and southern Sierra Nevada.	No	Area of project is no longer within geographic range (Zielinski, 1995).
Silver-haired bat <i>Lasionycteris noctivagans</i>	-	Roosts in buildings, tree cavities, under bark, and in rock crevices or caves; coastal, montane.	No	One of the most widely distributed bats in U.S. Requires access to water.
Yuma myotis <i>Myotis yumanensis</i>	-	Roosts in cliffs, rock crevices, buildings, mines, and caves.	No	Forages over water.
BIRDS				
Bank swallow <i>Riparia riparia</i>	-/T	Excavates nesting cavities in dirt banks of large rivers.	No	
Great egret <i>Ardea alba</i>	-	Large wetlands with prolonged surface saturation and shallow ponded water.	No	
Great gray owl <i>Strix nebulosa</i>	-/E	High-canopy coverage forest with large snag(s) for nesting, near meadows for hunting.	No	Intolerant of nearby human presence.

Northern goshawk <i>Accipiter gentilis</i>	-/SC	High-canopy-cover coniferous forest, remote from human disturbance.	No	Site is below species elevational range and does not contain suitable forest.
Tricolored blackbird <i>Agelaius tricolor</i>	-/SC	Large areas of tall emergent wetland vegetation and blackberries.	No	Area of blackberry vegetation on site is much too small.
REPTILES, AMPHIBIANS				
Coast horned lizard <i>Phrynosoma blainvillii</i>	-/SC	Scattered shrubby or other open woody habitat with sandy, friable soils and abundant native ants.	No	Soils on site are disturbed and compact, do not support notable populations of native ants; isolated small patch of habitat surrounded by development.
Foothill yellow-legged frog <i>Rana boylei</i>	-/SC	Small tributaries with perennial or near-perennial flow and coarse sand/gravel/cobble substrate.	No	
Western pond turtle <i>Emys marmorata</i>	-/SC	Ponds with suitable shores or in-water elements for basking and nearby sandy soils for nesting.	No	
INVERTEBRATES				
Cosumnes spring stonefly <i>Cosumnoperla hypocrena</i>	-	One known occurrence: long-seasonal stream with spring water and rock substrate.	No	Only locality is North Fork of Cosumnes River.
Galile's cave harvestman <i>Banksula galilei</i>	-	Alabaster Cave (only known occurrence is type collection, described in 1900).	No	Site is believed to be destroyed; species is likely extirpated at only known site.
Tight coin (Yates's snail) <i>Ammonitella yatesii</i>	-	Limestone caves, outcrops, talus; moist setting.	No	
Vernal pool andrenid bee <i>Andrena subapasta</i>	-	Grassland near vernal pools. Utilizes <i>Arenaria</i> , <i>Triphysaria eriantha</i> , <i>Lasthenia</i> spp. for food.	No	Grassland on site has very poor native plant diversity; food plants not seen.
Monarch butterfly <i>Danaus plexippus</i>	C/-	Requires its host plant milkweed (<i>Asclepias</i> spp.). Species has not been identified within 3 miles of the Project site.	No	Site does not contain the host plant of this species and therefore, it is not present.
Crotch's bumble bee <i>Bombus crotchii</i>	-/C	Species host plant not located within Project site and is not known within 3 miles of the Project site.	No	Site does not contain the host plant of this species and therefore, it is not present.
PLANTS				
Jepson's onion <i>Allium jepsonii</i>	-/-/1B	Open serpentine or volcanic tableland.	No	
Nissenan manzanita <i>Arctostaphylos nissenana</i>	-/-/1B	Chaparral and woodland on open rocky ridges.	Unlikely	All manzanita plants seen on site were <i>A. viscida</i> .
Pleasant Valley mariposa lily <i>Calochortus clavatus</i> var. <i>avius</i>	-/-/1B	Open oak-pine forest, Josephine silt loam.	Unlikely	Potentially suitable habitat in far southern end of site.
Stebbins's morning-glory <i>Calystegia stebbinsii</i>	E/E/1B	Specialized soils (serpentine/gabbroic).	No	

Pine Hill ceanothus <i>Ceanothus roderickii</i>	E/R/1B	Specialized soils (serpentine/gabbroic).	No	
Red Hills soaproot <i>Chlorogalum grandiflorum</i>	-/-/1B	Usually but not exclusively on specialized soils (serpentine/gabbroic).	No	
Brandegee's clarkia <i>Clarkia biloba</i> ssp. <i>brandegeae</i>	-/-/1B	Steep grassy slopes (usually >30 percent); one Placerville occurrence near riparian woodland.	Unlikely	Disturbed and highly weed-dominated grassland is marginally or not suitable.
Pine Hill flannelbush <i>Fremontodendron decumbens</i>	E/R/1B	Specialized soils (serpentine/gabbroic).	No	
El Dorado bedstraw <i>Galium californicum</i> ssp. <i>sierrae</i>	E/R/1B	Specialized soils (serpentine/gabbroic).	No	
Bisbee Peak rush-rose <i>Helianthemum suffrutescens</i>	-/-/3	Specialized soils (serpentine/gabbroic; lone clay).	No	
Parry's horkelia <i>Horkelia parryi</i>	-/-/1B	Clay, specifically lone formation.	No	
Dubious pea <i>Lathyrus sulphureus</i> var. <i>argillaceus</i>	-/-/3	Lower montane woodland	Yes	No longer regarded as a separate taxon.
Layne's ragwort <i>Packera layneae</i>	T/R/1B	Specialized soils (serpentine/gabbroic).	No	
Oval-leaved viburnum <i>Viburnum ellipticum</i>	-/-/2	Chaparral, pine forest on north slopes or in major river canyons.	No	
El Dorado County mule ears <i>Wyethia reticulata</i>	-/-/1B	Chaparral or woodland on clay, gabbroic soils.	No	
NATURAL COMMUNITIES				
Central Valley Drainage Hardhead/Squawfish Stream	n.a.		No	No perennial streams within site.
Central Valley Drainage Resident Rainbow Trout Stream	n.a.		No	No perennial streams within site.
Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	n.a.		No	No longer conforms to this natural community type due to watershed alterations.

Plant and Wildlife Species Observed During the Phase II Project Area

Site Surveys in April 2024

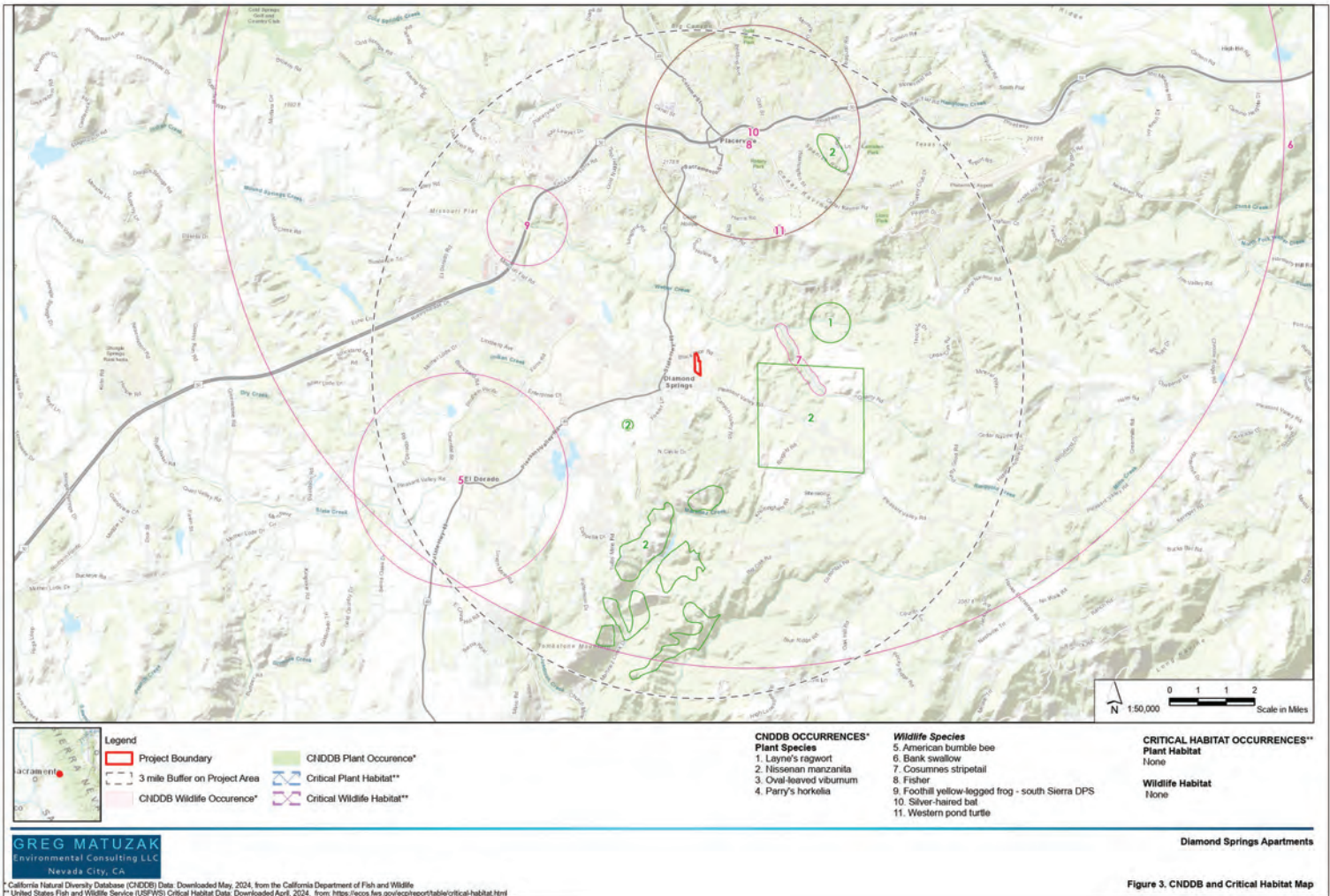
Common Name	Scientific Name	Species Status
Plants		
buttercup spp.	<i>Ranunculus</i> spp.	Not FESA, CESA, or CNPS listed
blue oak	<i>Quercus douglasii</i>	Not FESA, CESA, or CNPS listed
arroyo willow	<i>Salix lasiolepis</i>	Not FESA, CESA, or CNPS listed
California wild rose	<i>Rosa californica</i>	Not FESA, CESA, or CNPS listed
Fremont's cottonwood	<i>Populus fremontii</i>	Not FESA, CESA, or CNPS listed
deer brush	<i>Ceanothus integerrimus</i>	Not FESA, CESA, or CNPS listed
Foothill pine	<i>Pinus sabiniana</i>	Not FESA, CESA, or CNPS listed
interior live oak	<i>Quercus wislizeni</i>	Not FESA, CESA, or CNPS listed
common mouse ear chickweed	<i>Cerastium fontanum</i>	Not FESA, CESA, or CNPS listed
common mullein	<i>Verbascum Thapsus</i>	Not FESA, CESA, or CNPS listed
common mustard	<i>Brassica rapa</i>	Not FESA, CESA, or CNPS listed
common periwinkle	<i>Vinca minor</i>	Not FESA, CESA, or CNPS listed
common sheep sorrel	<i>Rumex acetocella</i>	Not FESA, CESA, or CNPS listed
Cryptanth spp.	<i>Cryptantha</i> spp.	Not FESA, CESA, or CNPS listed
dandelion spp.	<i>Agoseris</i> spp.	Not FESA, CESA, or CNPS listed

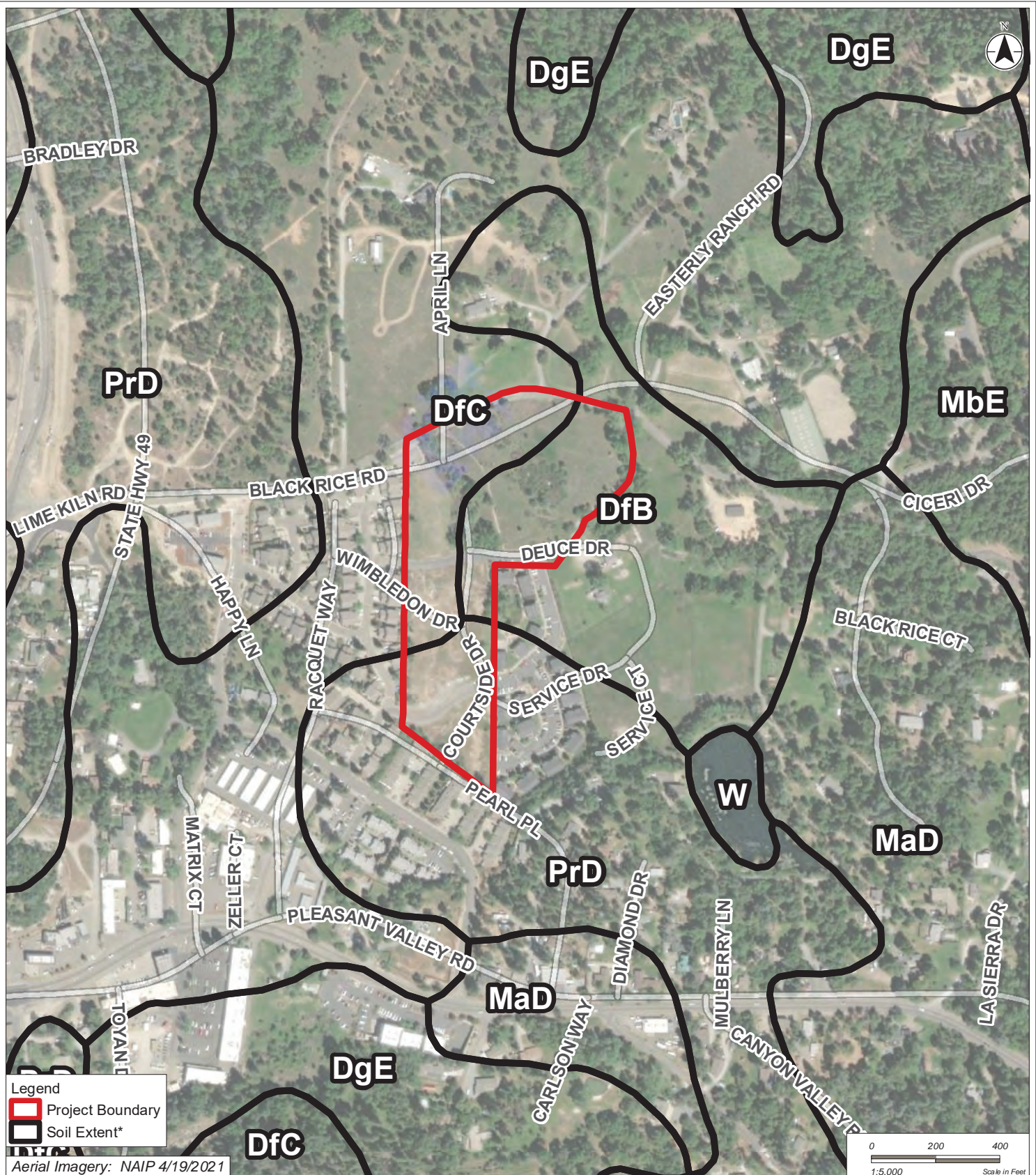
Common Name	Scientific Name	Species Status
tall wheat grass	<i>Elymus ponticus</i>	Not FESA, CESA, or CNPS listed
medusa head grass	<i>Elymus caput-medusae</i>	Not FESA, CESA, or CNPS listed
English plantain	<i>Plantago lanceolate</i>	Not FESA, CESA, or CNPS listed
everlasting pea	<i>Lathyrus latifolius</i>	Not FESA, CESA, or CNPS listed
filaree	<i>Erodium cicutarium</i>	Not FESA, CESA, or CNPS listed
honeysuckle spp.	<i>Lonicera</i> spp.	Not FESA, CESA, or CNPS listed
hyssop loosestrife	<i>Lythrum hyssopifolia</i>	Not FESA, CESA, or CNPS listed
Klamath weed	<i>Hypericum perforatum</i>	Not FESA, CESA, or CNPS listed
poison oak	<i>Toxicodendron diversilobum</i>	Not FESA, CESA, or CNPS listed
ponderosa pine	<i>Pinus ponderosa</i>	Not FESA, CESA, or CNPS listed
ripgut brome	<i>Bromus diandrus</i>	Not FESA, CESA, or CNPS listed
Scotch broom	<i>Cytisus scoparius</i>	Not FESA, CESA, or CNPS listed
St. John's wort; Klamath weed	<i>Hypericum perforatum</i>	Not FESA, CESA, or CNPS listed
shamrock clover	<i>Trifolium dubium</i>	Not FESA, CESA, or CNPS listed
soft chess	<i>Bromus hordeaceus</i>	Not FESA, CESA, or CNPS listed
stork's bill spp.	<i>Erodium</i> spp.	Not FESA, CESA, or CNPS listed
Himalayan blackberry	<i>Rubus armeniacus</i>	Not FESA, CESA, or CNPS listed

Common Name	Scientific Name	Species Status
white-leaved manzanita	<i>Arctostaphylos viscida</i> ssp. <i>viscida</i>	Not FESA, CESA, or CNPS listed
wild oats	<i>Avena fatua</i>	Not FESA, CESA, or CNPS listed
wild rye	<i>Elymus glaucus</i>	Not FESA, CESA, or CNPS listed
valley oak	<i>Quercus lobata</i>	Not FESA, CESA, or CNPS listed
yellow star thistle	<i>Centaurea solstitialis</i>	Not FESA, CESA, or CNPS listed

Birds

American robin	<i>Turdus migratorius</i>	Not CESA or FESA listed. Migratory (active nests protected)
dark-eyed junco	<i>Junco hyemalis</i>	Not CESA or FESA listed. Migratory (active nests protected)
house finch	<i>Haemorhous mexicanus</i>	Not CESA or FESA listed. Migratory (active nests protected)
mourning dove	<i>Zenaida macroura</i>	Not CESA or FESA listed. Migratory (active nests protected)
northern flicker	<i>Colaptes auratus</i>	Not CESA or FESA listed. Migratory (active nests protected)
western scrub-jay	<i>Aphelocoma californica</i>	Not CESA or FESA listed. Migratory (active nests protected)





SOIL TYPE*

DfB - Diamond Springs very fine sandy loam, 3 to 9 percent slopes
 DfC - Diamond Springs very fine sandy loam, 9 to 15 percent slopes
 DgE - Diamond Springs very rocky very fine sandy loam, 3 to 50 percent slopes
 MaD - Mariposa gravelly silt loam, 3 to 30 percent slopes

MbE - Mariposa very rocky silt loam, 3 to 50 percent slopes
 MbF - Mariposa very rocky silt loam, 50 to 70 percent slopes
 McE - Mariposa-Josephine very rocky loams, 15 to 50 percent slopes
 PrD - Placer diggings
 W - Water

* Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online. Accessed 03/06/2019

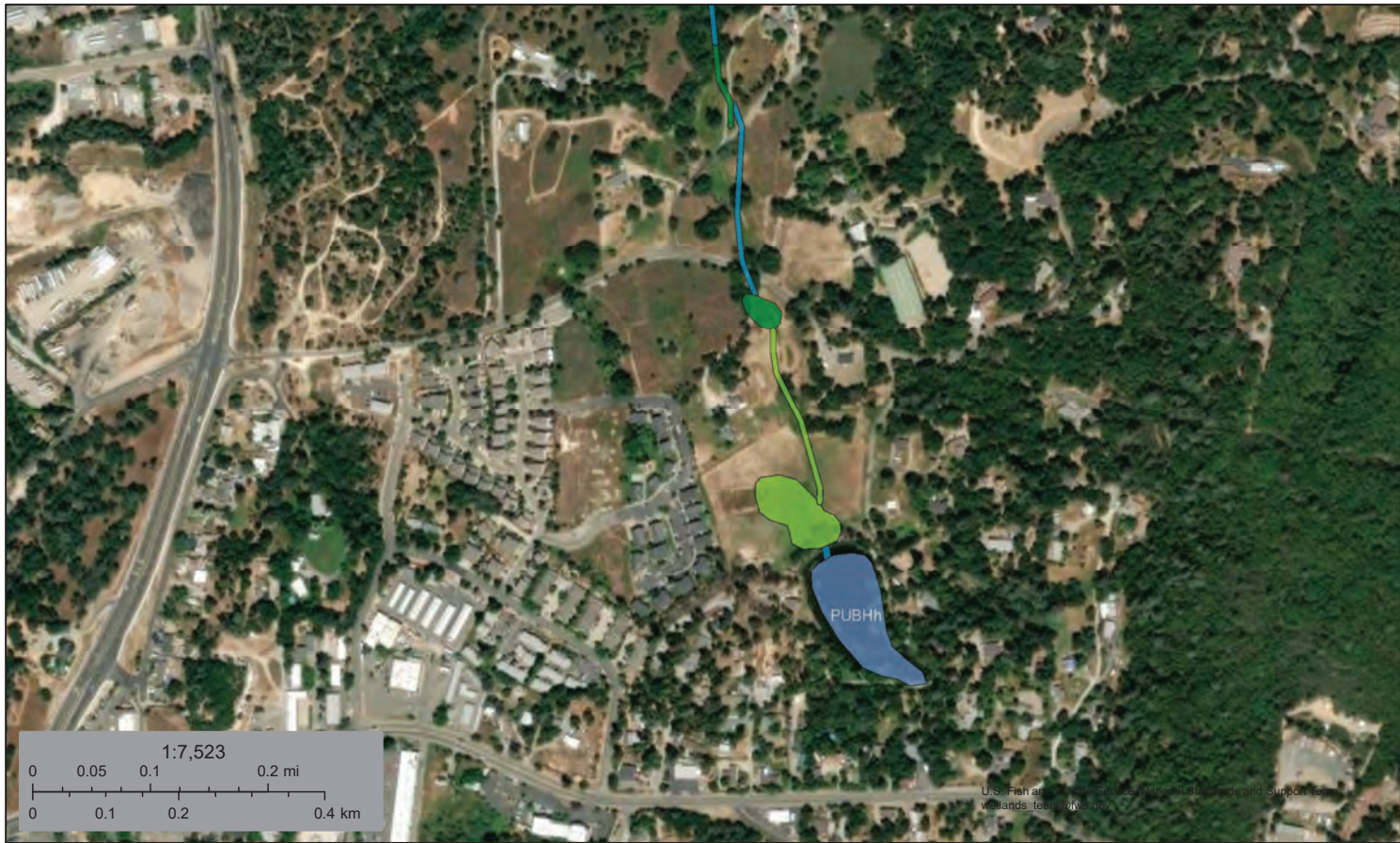
GREG MATUZAK
 Environmental Consulting LLC
 Nevada City, CA

El Dorado Apartments

DR24-0008/Diamond Springs Village Apartments - Phase II









Exhibit N - Biological Resource Assessment & Wetland Assessment Technical Memorandum

Figure 4. Soils Map



August 13, 2024

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: E0ndx IS (105507 OR 111134 OR 124092 OR 16866 OR 20113 OR 24343 OR 24345 OR 49534 OR 49957 OR 50044 OR 68913 OR 78967 OR 85439 OR 88186)

Map Index Number: A9290

Key Quad: Placerville (3812067)

Occurrence Number: 24

EO Index: 111134

Element Code: AAABH01055

Occurrence Last Updated: 2018-09-21

Scientific Name: *Rana boylei* pop. 5

Common Name: foothill yellow-legged frog - south Sierra DPS

Listing Status: **Federal:** Endangered

Rare Plant Rank:

State: Endangered

Other Lists: BLM_S-Sensitive
USFS_S-Sensitive

CNDDB Element Ranks: **Global:** G3T2

State: S2

General Habitat:

SIERRA NEVADA FROM SOUTH FORK AMERICAN RIVER SUBBASIN (HU 8) IN EL DORADO COUNTY SOUTH TO TEHACHAPI MOUNTAINS IN KERN COUNTY.

Micro Habitat:

PARTLY SHADED SHALLOW STREAMS AND RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS. NEEDS AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING AND AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Last Date Observed: 1958-07-18

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2017-06-22

Occurrence Rank: None

Owner/Manager: PVT

Trend: Unknown

Presence: Extirpated

Location:

WEBBER CREEK, IN VICINITY OF FORNI RD, SOUTHWEST PLACERVILLE.

Detailed Location:

INCLUDES COLLECTIONS FROM "WEBBER CRK AT BRIDGE 0.6 MI S HWY 50, PLACERVILLE," AND "WEBBER CREEK, 2.2 MI WSW PLACERVILLE."

Ecological:

Threats:

General:

4 COLLECTED ON 1 JUN 1952. COLLECTED ON 18 JUL 1958 (HOUSED AT CSU, SACRAMENTO). NONE DETECTED VIA EDNA ON 22 JUN 2017. ACCORDING TO JENNINGS AND LIND, RANA BOYLII IS EXTIRPATED AT THIS LOCATION.

PLSS: T10N, R10E, Sec. 14, SE (M)

Accuracy: 2/5 mile

Area (acres): 280

UTM: Zone-10 N4287568 E688103

Latitude/Longitude: 38.71676 / -120.83642

Elevation (feet): 1,530

County Summary:

Quad Summary:

El Dorado

Placerville (3812067)

Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG) 1980-XX-XX
GOL17D0001	GOLDBERG, C. - EXCEL TABLE OF EDNA RESULTS FOR RANA BOYLII 2017-XX-XX
JEN94R0001	JENNINGS, M. & M. HAYES - AMPHIBIAN AND REPTILE SPECIES OF SPECIAL CONCERN IN CALIFORNIA. FINAL REPORT SUBMITTED TO DFG, INLAND FISHERIES DIVISION, RANCHO CORDOVA. 255 PP. 1994-11-01
JEN96R0001	JENNINGS, M. - CHAPTER 31: STATUS OF AMPHIBIANS, PP 921-944 IN: SIERRA NEVADA ECOSYSTEM PROJECT: FINAL REPORT TO CONGRESS, VOL II. 1996-XX-XX
LIN05U0001	LIND, A. (UNIVERSITY OF CALIFORNIA, DAVIS) - REINTRODUCTION OF A DECLINING AMPHIBIAN: DETERMINING AN ECOLOGICALLY FEASIBLE APPROACH FOR THE FOOTHILL YELLOW-LEGGED FROG. PHD DISSERTATION, UC DAVIS 2005-XX-XX
ZWE52S0024	ZWEIFEL, R. - MVZ #58038, 58039, 58040 & 58085 COLLECTED FROM WEBBER CREEK, 2.2 MI WSW PLACERVILLE 1952-06-01



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	78087	EO Index:	85439
Key Quad:	Placerville (3812067)	Element Code:	ABPAU08010
Occurrence Number:	295	Occurrence Last Updated:	2011-12-06

Scientific Name:	<i>Riparia riparia</i>	Common Name:	bank swallow
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.	REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.

Last Date Observed:	1873-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1873-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		
Location:	NEAR PLACERVILLE.		
Detailed Location:	LOCATION STATED AS "NEAR PLACERVILLE."		
Ecological:	COLONY NESTED IN THE "ROUGH FACE OF A HIGH GRAVELLY HILL, THAT HAD BEEN WASHED DOWN FOR YEARS BY THE PROCESS OF HYDRAULICING FOR GOLD."		
Threats:			
General:	AN ALBINO BANK SWALLOW OBSERVED SOMETIME DURING 1873.		
PLSS:	T10N, R11E, Sec. 07 (M)	Accuracy:	5 miles
UTM:	Zone-10 N4289058 E691378	Latitude/Longitude:	38.72948 / -120.79835
		Area (acres):	0
		Elevation (feet):	2,000
County Summary:	Quad Summary:		
El Dorado	Camino (3812066), Placerville (3812067), Shingle Springs (3812068), Slate Mtn. (3812076), Garden Valley (3812077), Coloma (3812078)		
Sources:			
EME88A0001	EMERSON, O - EXCERPT FROM ORNITHOLOGIST AND OOLOGIST 13 (6):82. 1988-XX-XX		



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	49957	EO Index:	68913
Key Quad:	Placerville (3812067)	Element Code:	AMACC02010
Occurrence Number:	35	Occurrence Last Updated:	2007-03-19

Scientific Name:	<i>Lasionycteris noctivagans</i>	Common Name:	silver-haired bat
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G3G4 State: S3S4	Other Lists:	IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
PRIMARILY A COASTAL AND MONTANE FOREST DWELLER, FEEDING OVER STREAMS, PONDS AND OPEN BRUSHY AREAS.	ROOSTS IN HOLLOW TREES, BENEATH EXFOLIATING BARK, ABANDONED WOODPECKER HOLES, AND RARELY UNDER ROCKS. NEEDS DRINKING WATER.

Last Date Observed:	1990-10-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1990-10-25	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
PLACERVILLE.

Detailed Location:
MAPPED TO INCLUDE LAT/LONG COORDINATES PROVIDED BY MANIS, WITH UNCERTAINTY OF 3229.9534 M.

Ecological:

Threats:

General:

CAS #16930 COLLECTED BY P.O. SIMONS ON 13 JUL 1896. 1 MALE SPECIMEN (MVZ #182378) COLLECTED BY WILLIAM E. RAINEY ON 25 OCT 1990.

PLSS:	T10N, R11E, Sec. 07 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4289067 E691435	Latitude/Longitude:	38.72955 / -120.79770	Elevation (feet):	

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:
MAN04S0022 MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF LASIONYCTERIS NOCTIVAGANS SPECIMEN RECORDS FROM MANIS. INCLUDES RECORDS FROM LACM, CAS, MSB & MVZ. 2004-12-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	78087	EO Index:	78967
Key Quad:	Placerville (3812067)	Element Code:	AMAJF01020
Occurrence Number:	700	Occurrence Last Updated:	2010-02-08

Scientific Name:	<i>Pekania pennanti</i>	Common Name:	Fisher
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S2S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive

General Habitat:	Micro Habitat:
INTERMEDIATE TO LARGE-TREE STAGES OF CONIFEROUS FORESTS AND DECIDUOUS-RIPARIAN AREAS WITH HIGH PERCENT CANOPY CLOSURE.	USES CAVITIES, SNAGS, LOGS AND ROCKY AREAS FOR COVER AND DENNING. NEEDS LARGE AREAS OF MATURE, DENSE FOREST.

Last Date Observed:	1916-07-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1916-07-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		
Location:	NEAR PLACERVILLE.		
Detailed Location:			
Ecological:			
Threats:			
General:	FIVE FISHERS WERE KILLED FOR THEIR PELTS NEAR PLACERVILLE DURING JULY 1916.		
PLSS:	T10N, R11E, Sec. 07 (M)	Accuracy:	5 miles
UTM:	Zone-10 N4289058 E691378	Latitude/Longitude:	38.72948 / -120.79835
Area (acres):	0		
Elevation (feet):	2,000		
County Summary:	Quad Summary:		
El Dorado	Camino (3812066), Placerville (3812067), Shingle Springs (3812068), Slate Mtn. (3812076), Garden Valley (3812077), Coloma (3812078)		
Sources:	DFG17A0001 CALIFORNIA DEPARTMENT OF FISH & GAME - NOTE IN CALIFORNIA FISH AND GAME REGARDING THE PRICE PAID FOR FISHER PELTS TAKEN IN THE SUMMER MONTHS. CALIF FISH & GAME 3(3):120. 1917-07-XX		



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	49534	EO Index:	49534
Key Quad:	Placerville (3812067)	Element Code:	ARAAD02030
Occurrence Number:	567	Occurrence Last Updated:	2002-12-03

Scientific Name:	<i>Emys marmorata</i>	Common Name:	western pond turtle
Listing Status:	Federal: Proposed Threatened State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G3G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive

General Habitat:	Micro Habitat:
A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS AND IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.	NEEDS BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed:	2002-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-XX-XX	Occurrence Rank:	Good
Owner/Manager:	PVT-PLACERVILLE GOLD MINING CO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
NORTH SIDE OF HARRIS ROAD, BETWEEN CEDAR RAVINE AND BIG CUT ROAD, PLACERVILLE.

Detailed Location:
THIS IS THE ONLY YEAR-ROUND, OPEN-WATER POND IN THE IMMEDIATE AREA.

Ecological:
HABITAT CONSISTS OF A FRESHWATER POND, DOMINATED BY CATTAILS; SURROUNDED BY WILLOWS, BLACKBERRY VINES, RUSHES, NATIVE GRASSES, AND TOYON (OAK/PINE COMMUNITY).

Threats:
THREATENED BY LIKELY RESIDENTIAL DEVELOPMENT.

General:
3 ADULTS AND 2 JUVENILES OBSERVED 16 MAY 2001. OBSERVATIONS CONTINUED THROUGH 2002.

PLSS:	T10N, R11E, Sec. 17, SW (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4287614 E691881	Latitude/Longitude:	38.71637 / -120.79298	Elevation (feet):	2,200

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:
SHA01F0002 SHANNON, B. - FIELD SURVEY FORM FOR CLEMMYS MARMORATA (MARMORATA) 2001-05-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: B8947 **EO Index:** 124092
Key Quad: Placerville (3812067) **Element Code:** IHHYM24260
Occurrence Number: 68 **Occurrence Last Updated:** 2023-05-23

Scientific Name: *Bombus pensylvanicus* **Common Name:** American bumble bee
Listing Status: **Federal:** None **Rare Plant Rank:**
State: None **Other Lists:** IUCN_VU-Vulnerable
CNDDDB Element Ranks: **Global:** G3G4
State: S2

General Habitat:

-

Micro Habitat:

LONG-TONGUED; FORAGES ON A WIDE VARIETY OF FLOWERS INCLUDING VETCHES (VICIA), CLOVERS (TRIFOLIUM), THISTLES (CIRSIIUM), SUNFLOWERS (HELIANTHUS), ETC. NESTS ABOVE GROUND UNDER LONG GRASS OR UNDERGROUND. QUEENS OVERWINTER IN ROTTEN WOOD OR UNDERGROUND.

Last Date Observed: 1958-04-13 **Occurrence Type:** Natural/Native occurrence
Last Survey Date: 1958-04-13 **Occurrence Rank:** Unknown
Owner/Manager: UNKNOWN **Trend:** Unknown
Presence: Presumed Extant

Location:

EL DORADO.

Detailed Location:

EXACT LOCATION UNKNOWN. MAPPED NON-SPECIFICALLY TO TOWN OF EL DORADO.

Ecological:

Threats:

General:

1 ADULT FEMALE COLLECTED ON 13 APR 1958 (CSCA #479).

PLSS: T10N, R10E, Sec. 35 (M) **Accuracy:** 1 mile **Area (acres):** 1,987
UTM: Zone-10 N4283738 E687231 **Latitude/Longitude:** 38.68245 / -120.84747 **Elevation (feet):** 1,608

County Summary:

El Dorado

Quad Summary:

Placerville (3812067)

Sources:

ANO58S0020 ANONYMOUS - CSCA #479 COLLECTED NEAR EL DORADO, EL DORADO COUNTY 1958-04-13
RIC22D0001 RICHARDSON, L. (XERCES SOCIETY) - CALIFORNIA EXTRACT OF BUMBLE BEES OF NORTH AMERICA DATABASE.
HTTPS://WWW.LEIFRICHARDSON.ORG/BBNA.HTML. ACCESSED 7 DEC 2022. 2022-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	87220	EO Index:	88186
Key Quad:	Placerville (3812067)	Element Code:	IIPLE23020
Occurrence Number:	9	Occurrence Last Updated:	2012-11-08

Scientific Name:	<i>Cosumnoperla hypocrena</i>	Common Name:	Cosumnes stripetail
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
FOUND IN INTERMITTENT STREAMS ON WESTERN SLOPE OF CENTRAL SIERRA NEVADA FOOTHILLS IN AMERICAN AND COSUMNES RIVER BASINS.	~

Last Date Observed:	1988-03-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1988-03-17	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
RINGGOLD CREEK, ABOUT 2 KM NE OF DIAMOND SPRINGS.

Detailed Location:
COLLECTION AT "RINGGOLD CREEK (531 M), 2 KM NE OF DIAMOND SPRINGS." MAPPED TO GENERAL AREA DESCRIBED.

Ecological:

Threats:

General:
2 LARVAE COLLECTED 22 FEB 1988 & 1 LARVA COLLECTED 17 MAR 1988.

PLSS:	T10N, R11E, Sec. 20, S (M)	Accuracy:	non-specific area	Area (acres):	49
UTM:	Zone-10 N4285763 E692151	Latitude/Longitude:	38.69964 / -120.79037	Elevation (feet):	1,742

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:
BOT07A0001 BOTTORFF, R.L. - COSUMNOPERLA SEQUOIA, A NEW SPECIES OF STONEFLY FROM THE SIERRA NEVADA, CALIFORNIA (PLECOPTERA: PERLODIDAE: ISOPERLINA). ILLIESIA 3(6):46-52. 2007-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	12685	EO Index:	16866
Key Quad:	Placerville (3812067)	Element Code:	PDAST8H1V0
Occurrence Number:	15	Occurrence Last Updated:	2017-08-16

Scientific Name:	<i>Packera layneae</i>	Common Name:	Layne's ragwort
Listing Status:	Federal: Threatened	Rare Plant Rank:	1B.2
	State: Rare	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley SB_UCSC-UC Santa Cruz
CNDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
CHAPARRAL, CISMONTANE WOODLAND.	ULTRAMAFIC SOIL (SERPENTINE OR GABBRO); OCCASIONALLY ALONG STREAMS. 205-1060 M.

Last Date Observed:	1978-07-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-11-08	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
WEBER CREEK, NEAR PLACERVILLE.

Detailed Location:

Ecological:
SITE CONTAINS MIXED CHAPARRAL AND IS SURROUNDED BY FOOTHILL WOODLAND. ASSOCIATES INCLUDE CEANOTHUS CUNEATUS, PINUS SABINIANA, AND QUERCUS SP.

Threats:
AREA HAS BEEN GRADED.

General:
SMALL COLONY OF ABOUT 25 PLANTS SEEN IN 1978. SURVEY IN 1983 REVEALED THAT SITE HAD RECENTLY BEEN GRADED AND THE POPULATION MAY HAVE BEEN EXTIRPATED; NO PLANTS FOUND IN 1983. 1907 AND 1977 COLLECTIONS FROM "WEBER CREEK" ATTRIBUTED HERE.

PLSS:	T10N, R11E, Sec. 20, SE (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4286267 E692685	Latitude/Longitude:	38.70406 / -120.78410	Elevation (feet):	1,760

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:

BRA07S0004	BRANDEGEE, K. - BRANDEGEE SN UC #130732 1907-05-21
HUB83F0001	HUBBARD, W. - FIELD SURVEY FORM FOR PACKERA LAYNEAE 1983-11-08
PAT78U0004	PATTERSON, C. - CNPS OBSERVATION CARD, PLACERVILLE CARD. 1978-07-XX
STE77S0010	STEBBINS, G. - STEBBINS SN DAV #161060 1977-07-03



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	49957	EO Index:	49957
Key Quad:	Placerville (3812067)	Element Code:	PDCPR07080
Occurrence Number:	5	Occurrence Last Updated:	2003-01-23

Scientific Name:	<i>Viburnum ellipticum</i>	Common Name:	oval-leaved viburnum
Listing Status:	Federal: None State: None	Rare Plant Rank:	2B.3
CNDDDB Element Ranks:	Global: G4G5 State: S3	Other Lists:	

General Habitat:	Micro Habitat:
CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.	215-1400 M.

Last Date Observed:	1901-09-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1901-09-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
PLACERVILLE.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS IN VICINITY OF PLACERVILLE.

Ecological:

Threats:

General:
SITE BASED ON A 1900 & A 1901 IRWIN COLLECTION. NEEDS FIELDWORK.

PLSS:	T10N, R11E, Sec. 07 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4289067 E691435	Latitude/Longitude:	38.72955 / -120.79770	Elevation (feet):	

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:

IRW00S0001	IRWIN, F. - IRWIN SN UC #28716 1900-10-XX
IRW01S0001	IRWIN, F. - IRWIN SN UC #14241 1901-09-XX
MCM39B0001	MCMINN, H. - AN ILLUSTRATED MANUAL OF CALIFORNIA SHRUBS 1939-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	12635	EO Index:	24345
Key Quad:	Placerville (3812067)	Element Code:	PDERI040V0
Occurrence Number:	1	Occurrence Last Updated:	2017-03-03

Scientific Name:	<i>Arctostaphylos nissenana</i>	Common Name:	Nissenan manzanita
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G1 State: S1	Other Lists:	BLM_S-Sensitive USFS_S-Sensitive

General Habitat:	Micro Habitat:
CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.	USUALLY ON METAMORPHICS, ASSOCIATED W/ OTHER CHAPARRAL SPECIES. 485-1005 M.

Last Date Observed:	2005-01-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-01-20	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Decreasing
Presence:	Presumed Extant		

Location:
SOUTH OF DIAMOND SPRINGS NEAR MARTINEZ CREEK.

Detailed Location:
MAPPED AS 6 POLYGONS BY CNDDDB ACCORDING TO WIESLANDER VEGETATION TYPE MAPS FROM THE 1930S AND TWO 1992 CLARK MAPS. IN JANUARY 2005, GRABER NOTES THAT MORE THAN 95% OF THE POP NEAR FOWLER LANE WAS DEAD WITH NO REPRODUCTION VISIBLE.

Ecological:
GROWING ON SOUTH FACING SLOPES, OFTEN IN PURE STANDS. OCCASIONALLY ASSOCIATED WITH ADENOSTOMA FASCICULATUM, DENDROMECON RIGIDA, ARCTOSTAPHYLOS VISCIDA, AND QUERCUS WISLIZENI. SOME INTERMEDIATES WITH A. VISCIDA ALSO IN THE AREA.

Threats:
URBAN DEVELOPMENT, ROADS, AND TRAILS. CAUSE OF MANZANITA DIE-OFF UNKNOWN; POSSIBLY FUNGAL DISEASE.

General:
4 S POLYGONS BASED ON 1930S MAP DATA. N POLYS: 1000S IN 1978 & 1992, 2300 IN 2004, UNK # IN 2005. IN 2004, PLANTS AT NE COLONY APPEAR HEALTHY BUT OTHER SITES UNHEALTHY WITH >50% DEAD; LOOKS SIMILAR TO PHYTOPHTHORA. INCLUDES FORMER OCC #13.

PLSS:	T09N, R11E, Sec. 6 (M)	Accuracy:	specific area	Area (acres):	378
UTM:	Zone-10 N4282348 E690277	Latitude/Longitude:	38.66928 / -120.81286	Elevation (feet):	1,600

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Sources:

BEL35S0004	BELSHAW, C. - BELSHAW #824 DS #493776 1935-06-XX
BEL35S0007	BELSHAW, C. - BELSHAW #837 JEPS #29384 1935-06-01
BEL35S0015	BELSHAW, C. - BELSHAW #842 CAS #444963 1935-06-XX
CLA92F0002	CLARK, G. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 1992-03-21
CLA92F0004	CLARK, G. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 1992-03-21
GAN64S0009	GANKIN, R. & G. STEBBINS - GANKIN SN SBBG #25399, DAV #52872, CAS #475674 1964-09-29
GAN65S0008	GANKIN, R. - GANKIN #424 DAV #52877 1965-03-24
GAN65S0018	GANKIN, R. - GANKIN #421 DAV #52876 1965-03-24
GAN65S0019	GANKIN, R. - GANKIN #425 DAV #52878 1965-03-24
GAN65S0020	GANKIN, R. - GANKIN #422 DAV #52881 1965-03-24
GOG04F0001	GOGOL-PROKURAT, M. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 2004-06-21
GOG04F0002	GOGOL-PROKURAT, M. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 2004-06-21
GRA05I0002	GRABER, D. - PHOTOS OF ARCTOSTAPHYLOS NISSENANA, CALPHOTOS ID: 0000 0000 0111 1717, 1720, 1724, 1725 2005-01-20
GRA05U0001	GRABER, D. - EMAIL FROM D. GRABER RE: NISSENAN MANZANITA POPULATION COLLAPSE 2005-03-22
KEE93S0055	KEELEY, J. - KEELEY #24935-24944, 24947, 24948, 24950, 24951, 24953-24955 RSA #633222-633239 1993-09-13
KNI62S0001	KNIGHT, W. - KNIGHT #233 OBI #14608 & #14609 1962-12-XX
KNI62S0002	KNIGHT, W. & I. KNIGHT - KNIGHT SN CAS #433842 1962-04-14
KNI65S0004	KNIGHT, W. - KNIGHT #1208 CAS #459561 1965-11-03
KNI66A0001	KNIGHT, W. - THE NATURE AND DISTRIBUTION OF ARCTOSTAPHYLOS NISSENANA. FOUR SEASONS, VOLUME I #4. 1966-02-25
RAE78F0015	RAE, S. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 1978-07-07
STE80M0001	STEBBINS - MAP: ELDORADO DIAMOND SPRINGS AREA FOR ARCTOSTAPHYLOS NISSENANA. 1980-03-XX
THO64S0009	THORNE, R. & P. EVERETT - THORNE #33740 RSA #167618 & #770901, CAS #581048, DS #509773, GH #350793, LA #81890 1964-04-16
THO64S0032	THORNE, R. & P. EVERETT - THORNE #33741 RSA #167607 1964-04-16
THO64S0033	THORNE, R. & P. EVERETT - THORNE SN SBBG #21957 SD #60414 1964-04-16
TUC65S0002	TUCKER, J. ET AL. - TUCKER #3814 RSA #273039 & 273040, DAV #14760 - 14785 1965-03-24
TUC65S0003	TUCKER, J. ET AL. - TUCKER #3815 DAV #14741 TO 14754, 14759, 52874 & 52875 1965-03-24
WAL74S0007	WALLACE, G. - WALLACE #1339 UC #1424946, RSA #252247, DS #733199 1974-12-21
WIE32S0001	WIESLANDER, A. - WIESLANDER #255 JEPS #29348 RSA #139611 1932-03-19
WIE36S0015	WIESLANDER, A. - WIESLANDER #693 RSA #17271 & #121329 1936-09-07
WIENDM0001	WIESLANDER, A. - DIGITIZATION OF WIESLANDER'S VEGETATION TYPE MAPS FROM THE 1930S 193X-XX-XX
WIL34S0001	WILSON, R. - WILSON #80 RSA #121326 1934-11-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	12666	EO Index:	20113
Key Quad:	Placerville (3812067)	Element Code:	PDERI040V0
Occurrence Number:	2	Occurrence Last Updated:	2008-12-09

Scientific Name:	<i>Arctostaphylos nissenana</i>	Common Name:	Nissenan manzanita
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G1 State: S1	Other Lists:	BLM_S-Sensitive USFS_S-Sensitive

General Habitat:	Micro Habitat:
CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.	USUALLY ON METAMORPHICS, ASSOCIATED W/ OTHER CHAPARRAL SPECIES. 485-1005 M.

Last Date Observed:	1938-04-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1938-04-12	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
1-2 MILES SE OF DIAMOND SPRINGS, HEAD OF MARTINEZ CREEK.

Detailed Location:
MAPPED ACCORDING TO T-R-S ON A JEPSON COLLECTION LABEL IN SECTION 29. A 1935 JENSEN COLLECTION FROM "1 MI SE OF DIAMOND SPRINGS" IN SECTION 32 ALSO ATTRIBUTED TO THIS SITE BUT MAY BE TO THE SOUTH OF THE MAPPED AREA.

Ecological:

Threats:

General:
UNKNOWN NUMBER OF PLANTS IN 1935 & 1938. NEEDS FIELDWORK. SITE MAY ACTUALLY BE REFERENCING EO #1 TO THE SW; NOTE ON JEPSON COLLECTION LABEL INDICATES COLLECTION WAS LIKELY AT SAME SITE AS WIESLANDER TYPE MAP PROJECT WHICH IS CNDDDB EO #1.

PLSS:	T10N, R11E, Sec. 29 (M)	Accuracy:	non-specific area	Area (acres):	608
UTM:	Zone-10 N4284878 E692446	Latitude/Longitude:	38.69160 / -120.78723	Elevation (feet):	1,800

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:

JEN35S0002	JENSEN, H. - JENSEN #403 RSA #121325 1935-04-26
JEP38S0001	JEPSON, W. - JEPSON #18641 RSA #170178 & #20328, SD #58449, UCR #58377, CAS #459477, DS #501723, SEINET #3451937, MWI #14978, UCSB #24676 1938-04-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	12688	EO Index:	24343
Key Quad:	Placerville (3812067)	Element Code:	PDERI040V0
Occurrence Number:	3	Occurrence Last Updated:	2017-03-03

Scientific Name:	<i>Arctostaphylos nissenana</i>	Common Name:	Nissenan manzanita
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G1 State: S1	Other Lists:	BLM_S-Sensitive USFS_S-Sensitive

General Habitat:	Micro Habitat:
CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.	USUALLY ON METAMORPHICS, ASSOCIATED W/ OTHER CHAPARRAL SPECIES. 485-1005 M.

Last Date Observed:	1992-03-27	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-06-21	Occurrence Rank:	Poor
Owner/Manager:	PVT	Trend:	Decreasing
Presence:	Presumed Extant		
Location:	SPANISH RAVINE, PLACERVILLE.		
Detailed Location:	3 BLOCKS S ON SPANISH RAVINE RD THEN LEFT ON DIRT ROAD, UPHILL 100 YARDS. LOCATED ON FLAT SLATE ROCK ABOUT HALF WAY UP THE SLOPE. EXACT LOCATION UNK; MAPPED AS BEST GUESS ALONG THE E SIDE OF SPANISH RAVINE; NO MAP PROVIDED W/ ORIGINAL DATA.		
Ecological:	IN CLEARING IN CHAPARRAL SURROUNDED BY ARCTOSTAPHYLOS VISCIDA WITH QUERCUS AND PINUS. RED SEDIMENTARY SOILS.		
Threats:	POSSIBLE FUTURE SUBDIVISION PLANNED (1992). PLANTS MAY HAVE BEEN SHADED OUT (2004).		
General:	12 PLANTS IN 1944, 5 IN 1956, 8 IN 1992. NO REPRODUCTION OBSERVED BY MATURE PLANTS IN 1992. NO PLANTS SEEN IN 2004; VEGETATION WAS VERY DENSE, A. NISSENANA MAY HAVE BEEN SHADED OUT. HISTORIC COLLECTIONS FROM "PLACERVILLE" ALSO ATTRIB HERE.		
PLSS:	T10N, R11E, Sec. 17, NE (M)	Accuracy:	non-specific area
UTM:	Zone-10 N4288800 E692635	Latitude/Longitude:	38.72688 / -120.78397
Area (acres):	39		
Elevation (feet):	2,100		
County Summary:	Quad Summary:		
El Dorado	Placerville (3812067)		



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Sources:

BAC55S0009	BACIGALUPI, R. & G. ROBBINS - BACIGALUPI #5166 JEPS #13546, CAS #581049 1955-05-22
EAS35S0006	EASTWOOD, A. & J. HOWELL - EASTWOOD #1934 POM #222731, SBBG #28449, UC #577216, A #350794, CAS #220017, DS #240433 1935-02-10
EAS35S0029	EASTWOOD, A. & J. HOWELL - EASTWOOD #1935 CAS #220018 1935-02-10
GOG04F0003	GOGOL-PROKURAT, M. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 2004-06-21
JEN36S0001	JENSEN, H. - JENSEN #427 SD #49822 1936-06-04
JEN36S0002	JENSEN, H. - JENSEN #426 DAV #52882 1936-06-04
JEP38S0003	JEPSON, W. - JEPSON #18609 JEPS #2741, NY #9757, RSA #279414, UC #1281402, GH #14682, OBI #14607 1938-04-07
KNI66A0001	KNIGHT, W. - THE NATURE AND DISTRIBUTION OF ARCTOSTAPHYLOS NISSENANA. FOUR SEASONS, VOLUME I #4. 1966-02-25
MAS45S0006	MASON, H. - MASON SN RSA #64472, DS #314495 1945-02-XX
RAV56S0002	RAVEN P. & T. ROBBINS - RAVEN #9087 UC #1094305, SBBG #54671, DS #393223, SFV #2648 1956-04-29
ROB43S0002	ROBBINS, G. - ROBBINS #971 JEPS #15038, UC #747683, RSA #32124, SBBG #19361, DS #308747, GH #350798 & #350799 1943-03-28
ROB44S0002	ROBBINS, G. - ROBBINS #1482 UC #747668, A #350795, CAS #319087, GH #350796 1944-02-06
ROB44S0005	ROBBINS, G. - ROBBINS #1483 CAS #319093 & #333701, GH #350792 1944-02-06
SMI92F0003	SMITH, L. - FIELD SURVEY FORM FOR ARCTOSTAPHYLOS NISSENANA 1992-03-27
WAT35S0001	WATKINS, W. - WATKINS SN DAV #52873 1935-01-29
WAT35S0002	WATKINS, W. - WATKINS SN POM #222733, A #350905, CAS #222959, DS #240437 1935-05-01
WAT35S0005	WATKINS, W. - WATKINS SN CAS #219858 1935-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A3853	EO Index:	105507
Key Quad:	Placerville (3812067)	Element Code:	PDERI040V0
Occurrence Number:	14	Occurrence Last Updated:	2017-03-03

Scientific Name:	<i>Arctostaphylos nissenana</i>	Common Name:	Nissenan manzanita
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G1 State: S1	Other Lists:	BLM_S-Sensitive USFS_S-Sensitive

General Habitat:	Micro Habitat:
CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.	USUALLY ON METAMORPHICS, ASSOCIATED W/ OTHER CHAPARRAL SPECIES. 485-1005 M.

Last Date Observed:	2013-03-14	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2013-03-14	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST SIDE OF FAITH LANE, ABOUT 0.25 MILE SOUTH OF PLEASANT VALLEY ROAD/HWY 49, DIAMOND SPRINGS.

Detailed Location:
MAPPED ACCORDING TO 2013 ROBINSON COORDINATES.

Ecological:
AREA OF CHAPARRAL AND PINE-OAK WOODLAND. ARCTOSTAPHYLOS VISCIDA IS GROWING NEARBY AND SOME PLANTS APPEAR TO BE HYBRIDS.

Threats:
AREA IS SUBSTANTIALLY DISTURBED BY EARTHWORK, DIRT ROADS, OFF-ROAD ACTIVITY.

General:
ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2013 ROBINSON COLLECTION.

PLSS:	T10N, R10E, Sec. 25, SE (M)	Accuracy:	80 meters	Area (acres):	5
UTM:	Zone-10 N4284642 E689705	Latitude/Longitude:	38.69007 / -120.8188	Elevation (feet):	1,760

County Summary:	Quad Summary:
El Dorado	Placerville (3812067)

Sources:
ROB13S0002 ROBINSON, J. - ROBINSON #1 DAV #162395 2013-03-14



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	49957	EO Index:	50044
Key Quad:	Placerville (3812067)	Element Code:	PDROS0W0C0
Occurrence Number:	12	Occurrence Last Updated:	2003-01-29

Scientific Name:	<i>Horkelia parryi</i>	Common Name:	Parry's horkelia
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G2 State: S2	Other Lists:	BLM_S-Sensitive USFS_S-Sensitive

General Habitat:	Micro Habitat:
CHAPARRAL, CISMONTANE WOODLAND.	OPENINGS IN CHAPARRAL OR WOODLAND; ESPECIALLY KNOWN FROM THE IONE FORMATION IN AMADOR COUNTY. 85-1115 M.

Last Date Observed:	1923-05-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1923-05-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		
Location:	PLACERVILLE.		
Detailed Location:	EXACT LOCATION UNKNOWN; MAPPED IN GENERAL VICINITY OF PLACERVILLE BY CNDDDB.		
Ecological:			
Threats:			
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1923 COLLECTION BY KING. NEEDS FIELDWORK.		
PLSS:	T10N, R11E, Sec. 07 (M)	Accuracy:	1 mile
UTM:	Zone-10 N4289067 E691435	Latitude/Longitude:	38.72955 / -120.79770
Area (acres):	0		
Elevation (feet):	1,860		
County Summary:	Quad Summary:		
El Dorado	Placerville (3812067)		
Sources:			
KIN23S0001	KING, A. - KING SN CAS #69796 1923-05-XX		

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

El Dorado County, California



Local office

Sacramento Fish And Wildlife Office

☎ (916) 414-6600

📅 (916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Reptiles

NAME	STATUS
Northwestern Pond Turtle <i>Actinemys marmorata</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2891	Threatened
Foothill Yellow-legged Frog <i>Rana boylei</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5133	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Lassics Lupine <i>Lupinus constancei</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/7976	Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/4062>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below.

Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC
<https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Aug 31
Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted

Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

- To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

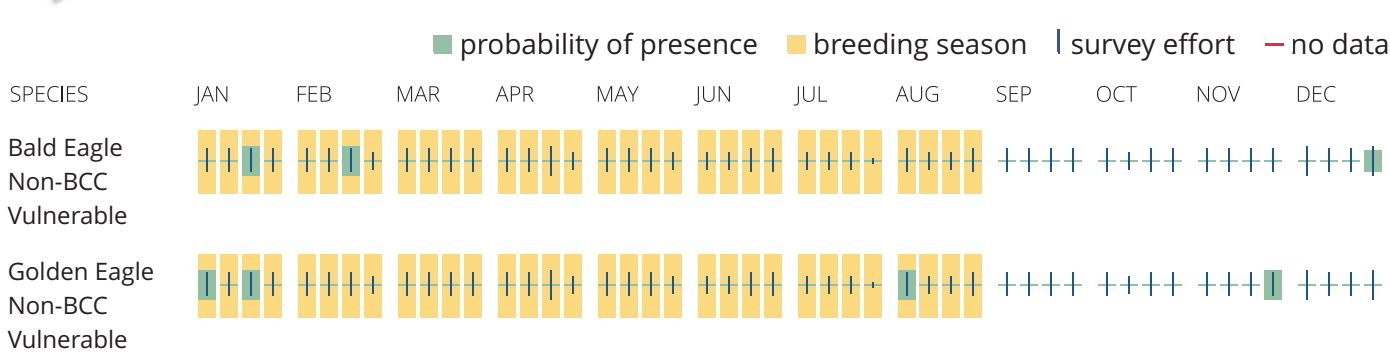
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply). To see a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the [Eagle Act](#) should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>

- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC
<https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Aug 31
Bullock's Oriole <i>Icterus bullockii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull <i>Larus californicus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31

<p>California Thrasher <i>Toxostoma redivivum</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Jan 1 to Jul 31
<p>Cassin's Finch <i>Haemorhous cassinii</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/9462</p>	Breeds May 15 to Jul 15
<p>Golden Eagle <i>Aquila chrysaetos</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p>https://ecos.fws.gov/ecp/species/1680</p>	Breeds Jan 1 to Aug 31
<p>Northern Harrier <i>Circus hudsonius</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/8350</p>	Breeds Apr 1 to Sep 15
<p>Nuttall's Woodpecker <i>Dryobates nuttallii</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/9410</p>	Breeds Apr 1 to Jul 20
<p>Oak Titmouse <i>Baeolophus inornatus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/9656</p>	Breeds Mar 15 to Jul 15
<p>Olive-sided Flycatcher <i>Contopus cooperi</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/3914</p>	Breeds May 20 to Aug 31
<p>Santa Barbara Song Sparrow <i>Melospiza melodia graminea</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/5513</p>	Breeds Mar 1 to Sep 5

Western Screech-owl *Megascops kennicottii cardonensis*
This is a Bird of Conservation Concern (BCC) only in particular
Bird Conservation Regions (BCRs) in the continental USA

Breeds Mar 1 to Jun 30

Wrentit *Chamaea fasciata*
This is a Bird of Conservation Concern (BCC) throughout its
range in the continental USA and Alaska.

Breeds Mar 15 to Aug 10

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

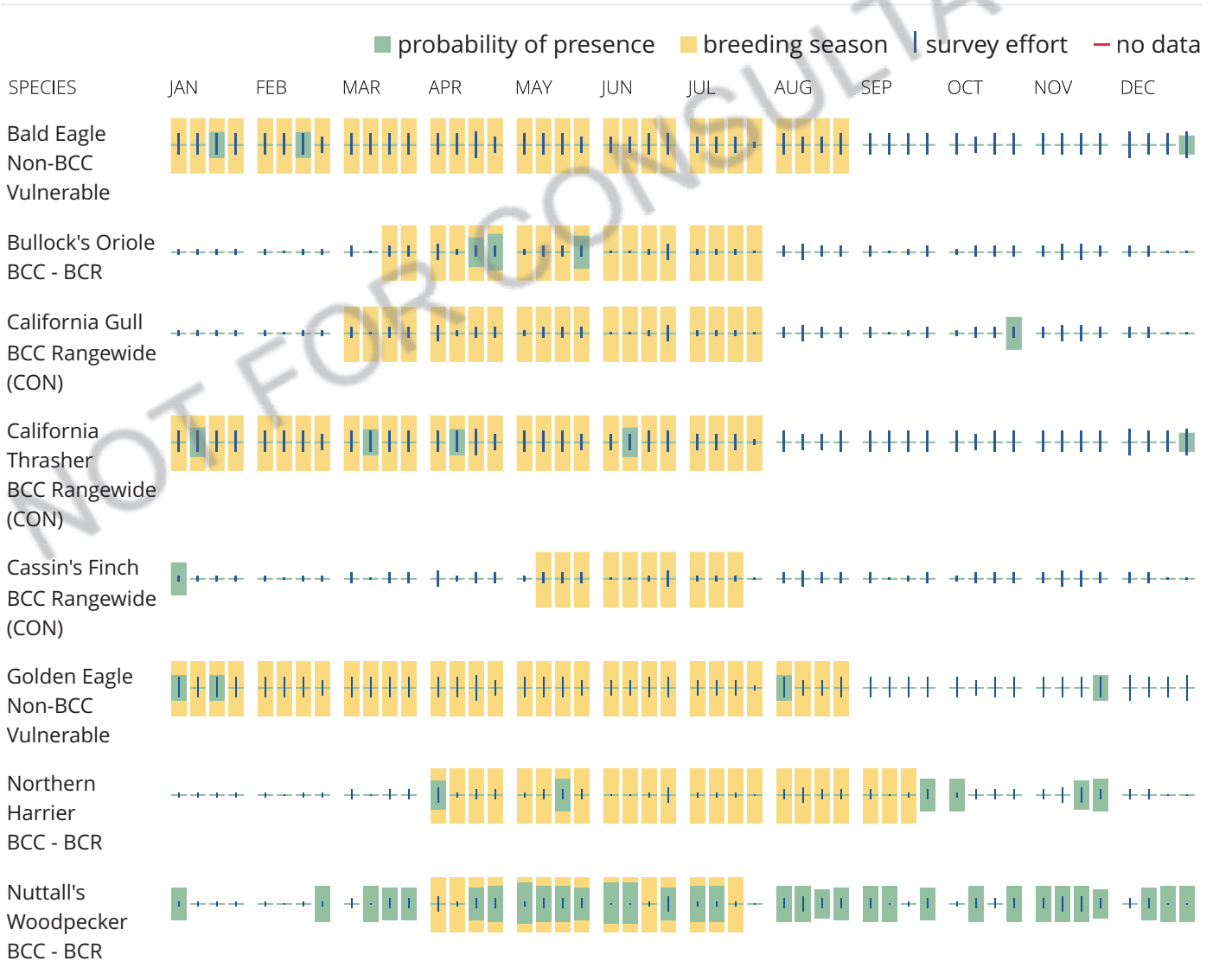
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

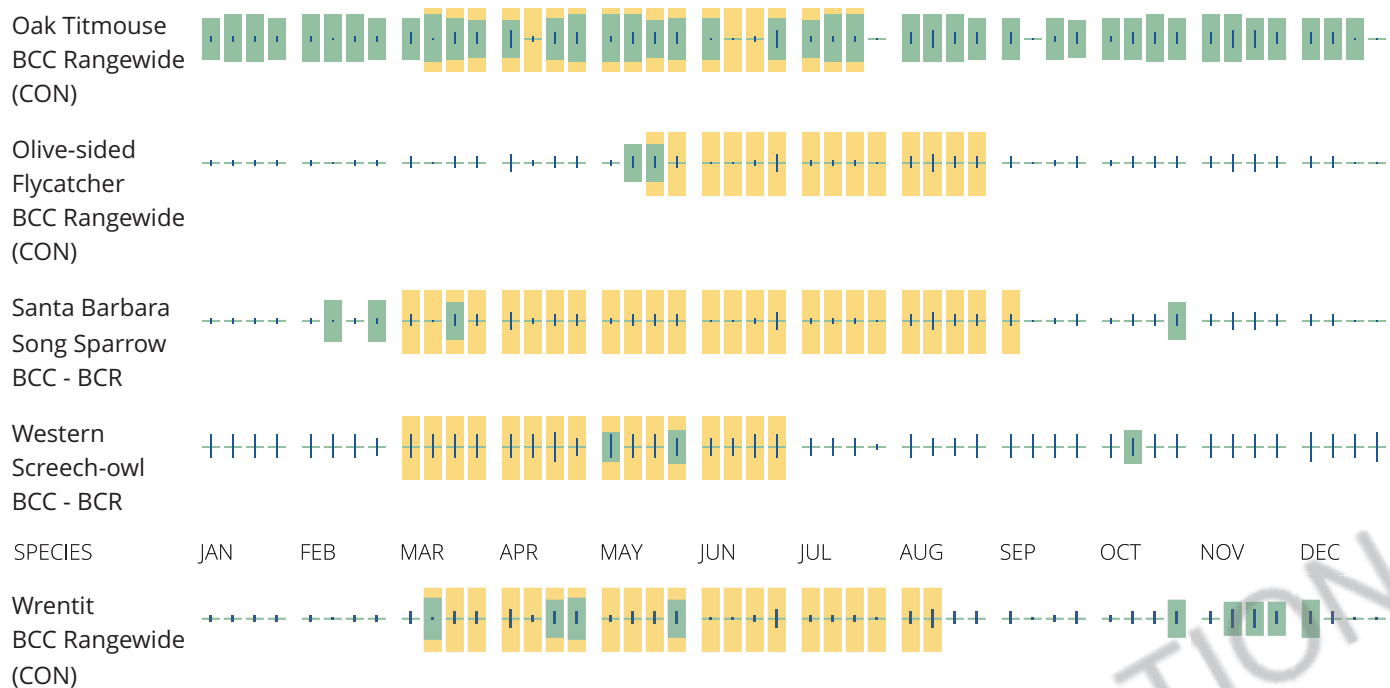
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should

seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

LOCATION DIAMOND SPRINGS CA

Established Series
Rev. JHR/GMK/LCL
02/2003

DIAMOND SPRINGS SERIES

Typically Diamond Springs soils have pale brown and very pale brown, medium and very strongly acid A horizons and very pale brown, very strongly acid, clay loam B2t horizons that grade to weathered fine grained acid igneous rock.

TAXONOMIC CLASS: Fine-loamy, mixed, semiactive, mesic Typic Haploxerults

TYPICAL PEDON: Diamond Springs very fine sandy loam - oak, grass, ponderosa pine. (Colors are for dry soil unless otherwise stated.)

A11--0 to 3 inches; pale brown (10YR 6/3) very fine sandy loam, dark brown (10YR 4/3) moist; moderate medium granular structure; slightly hard, friable, nonsticky, nonplastic; many very fine and fine roots; many very fine and fine tubular and interstitial pores; moderately acid (pH 6.0); abrupt wavy boundary. (3 to 5 inches thick)

A12--3 to 9 inches; very pale brown (10YR 7/3) loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, friable, slightly sticky, slightly plastic; common very fine, many medium, and few coarse roots; many very fine and fine, common medium tubular pores; few krotovinas; very strongly acid (pH 5.0); clear wavy boundary. (2 to 10 inches thick)

B1t--9 to 14 inches; very pale brown (10YR 8/4) clay loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, friable, sticky, plastic; common very fine and fine, many medium roots; many very fine and fine, common medium tubular pores; common thin clay films lining pores; few krotovinas; very strongly acid (pH 5.0); clear wavy boundary. (0 to 7 inches thick)

B21t--14 to 20 inches; very pale brown (10YR 8/4, 7/4) clay loam, yellowish brown (10YR 6/4) moist; massive; hard, firm, sticky, plastic; few fine, common medium roots; many very fine and fine, common medium tubular pores; many moderately thick clay films lining pores and as bridges; very strongly acid (pH 4.5); gradual smooth boundary. (6 to 13 inches thick)

B22t--20 to 28 inches; very pale brown (10YR 8/4) clay loam, light yellowish brown (10YR 6/4) moist; massive; very hard, firm, very sticky, plastic; few fine roots; common very fine and few fine pores; continuous moderately thick, light brown (7.5YR 6/4) clay films lining pores and as bridges; very strongly acid (pH 4.5); clear wavy boundary. (5 to 14 inches thick)

C1--28 to 36 inches; white (10YR 8/2) clay loam, very pale brown (10YR 7/4) moist; massive; very hard, firm, sticky, plastic; few fine roots; common very fine and fine pores; many moderately thick clay films lining pores and as bridges; very strongly acid (pH 4.8); clear wavy boundary. (2 to 10 inches thick)

C2--36 to 40 inches; white (10YR 8/2) with brownish yellow (10YR 6/6) mineral grains, coarse sandy clay loam, very pale brown (10YR 7/4) moist; massive; very hard, firm, sticky, plastic; many moderately thick and thick clay films in fracture planes; strongly acid (pH 5.5); clear irregular boundary. (3 to 6 inches thick)

C3--40 to 50 inches; well weathered meta-dacite with few clay films in rock fractures.

TYPE LOCATION: El Dorado County, California; 0.5 miles west of El Dorado, 75 feet east of Missouri Flat Road, 0.1 mile west and 0.15 mile south of the apparent NE corner of sec. 34, T. 10N., R. 10E., MDM.

RANGE IN CHARACTERISTICS: Depth to a paralithic contact of weathered rock is 25 to 40 inches. The mean annual soil temperature at a depth of 20 inches is about 55 to 59 degrees F. The soil between depths of about 5 and 15 inches usually is continually dry in all parts from late May or June until some time in October and is moist in the same or all parts all the rest of the year. Some pedons have as much as 10 percent rock fragments in some or all horizons. Some pedons have 0 to 5 percent of the surface covered by stones or cobblestones without stones lower in the profile.

The A horizon is very pale brown or light brownish gray to brown (10YR 6/2, 6/3, 7/3, 6/4, 5/2; 7.5YR 6/2, 6/4, 5/2). Moist values are two units lower. Dry value of 5 and moist value of 3 is confined to the upper 3 to 7 inches in those pedons having these values. The A horizon is sandy loam to very fine sandy loam. It has weak or moderate granular or medium to fine subangular blocky structure or the A horizon is massive in some or all parts. The A horizon is slightly to very strongly acid. Its lower boundary is gradual or clear and in addition some pedons have a transitional A3 or B1 horizon.

The B2t horizon is very pale brown to reddish yellow (10YR 7/2, 7/3, 7/4, 8/4, 6/3, 6/4; 7.5YR 6/4, 7/4, 7/6, 5/6, 5/8.) Some pedons have coarse blotches of redder color (5YR 5/6 or 5/8). The B2t horizon is heavy loam, sandy clay loam, clay loam or silty clay loam. It has weak angular blocky or weak to moderate subangular blocky structure or the horizon is massive in some or all parts. This horizon is strongly or very strongly acid and has base saturation of about 20 to 35 percent.

COMPETING SERIES: These are the [Goldridge](#), [Josephine](#), [Lyonsville](#) and Stump Springs series. Goldridge soils lack a paralithic contact and lack strong brown colors and dry value of 6 or 7 in the B2t horizon. Josephine soils have a paralithic contact 40 to 60 inches below the surface. Lyonsville soils have a mean annual soil temperature of less than 47 degrees F. Stump Springs soils have an abrupt A-B2t horizon boundary and a base saturation of more than 35 percent in the argillic horizon.

GEOGRAPHIC SETTING: Diamond Springs soils are on gentle to steep slopes at elevations of 1,000 to 4,000 feet. They formed in residuum weathered from fine grained metamorphosed acid igneous and rhyolitic rocks. The climate is subhumid mesothermal with warm dry summers and cool moist winters. Mean annual precipitation is 30 to 50 inches, much of which is rain. The mean annual temperature is about 54 degrees F., average January temperature about 41 degrees F., and average July temperature about 66 degrees F. The freeze-free season is about 140 to 240 days.

GEOGRAPHICALLY ASSOCIATED SOILS: These are the [Auberry](#), [Auburn](#), [Boomer](#), [Chaix](#), [Goulding](#) and [Kanaka](#) soils. Auberry soils have a base saturation of 50 to 75 percent and a paralithic contact 40 to 60 inches below the surface. Auburn soils have a lithic contact less than 20 inches below the surface. Boomer soils have hue of 5YR or redder in the argillic horizon. Chaix, Goulding and Kanaka soils lack an argillic horizon and Goulding soils have more than 35 percent rock fragments.

DRAINAGE AND PERMEABILITY: Well-drained; medium to rapid runoff; moderate or moderately slow permeability.

8/15/24, 1:11 PM

Official Series Description - DIAMOND_SPRINGS Series

USE AND VEGETATION: Used mainly for deciduous orchards, woodland and annual range. Native vegetation is live oak, blue oak, black oak, ponderosa pine, Douglas-fir, white fir and Digger pine with an understory of brush, annual grasses, and forbs.

DISTRIBUTION AND EXTENT: Central and northern Sierra Nevada and Cascade Mountains of California. The series is moderately extensive.

MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE: Davis, California

SERIES ESTABLISHED: Placerville Area, California, 1927.

REMARKS: The Diamond Springs soils were formerly classified as Red-Yellow Podzolic soils.

The activity class was added to the classification in February of 2003. Competing series were not checked at that time. - ET

OSD scanned by SSQA. Last revised by state on 10/72.


National Cooperative Soil Survey
U.S.A.

Cal Gov Code § 65913.4

Deering's California Codes are current through the 2024 Regular Session Ch 164

Deering's California Codes Annotated > GOVERNMENT CODE (§§ 1 — 500000–500049) > Title 7 Planning and Land Use (Divs. 1 — 3) > Division 1 Planning and Zoning (Chs. 1 — 13) > Chapter 4.2 Housing Development Approvals (§§ 65913 — 65914.8)

Notice

 This section has more than one version with varying effective dates.

§ 65913.4. Application for development subject to streamlined approval process; Notification of conflict; Design review or public oversight; Parking standards; Approval [Effective until January 1, 2025; Repealed effective January 1, 2036]

(a) Except as provided in subdivision (r), a development proponent may submit an application for a development that is subject to the streamlined, ministerial approval process provided by subdivision (c) and is not subject to a conditional use permit or any other nonlegislative discretionary approval if the development complies with subdivision (b) and satisfies all of the following objective planning standards:

- (1) The development is a multifamily housing development that contains two or more residential units.
- (2) The development and the site on which it is located satisfy all of the following:

(A) It is a legal parcel or parcels located in a city if, and only if, the city boundaries include some portion of either an urbanized area or urban cluster, as designated by the United States Census Bureau, or, for unincorporated areas, a legal parcel or parcels wholly within the boundaries of an urbanized area or urban cluster, as designated by the United States Census Bureau.

(B) At least 75 percent of the perimeter of the site adjoins parcels that are developed with urban uses. For the purposes of this section, parcels that are only separated by a street or highway shall be considered to be adjoined.

(C)

- (i) A site that meets the requirements of clause (ii) and satisfies any of the following:

(I) The site is zoned for residential use or residential mixed-use development.

(II) The site has a general plan designation that allows residential use or a mix of residential and nonresidential uses.

(III) The site meets the requirements of Section 65852.24.

- (ii) At least two-thirds of the square footage of the development is designated for residential use. Additional density, floor area, and units, and any other concession, incentive, or waiver of development standards granted pursuant to the Density Bonus Law in Section 65915 shall be included in the square footage calculation. The square footage of the development shall not include underground space, such as basements or underground parking garages.

(3)

(A) The development proponent has committed to record, prior to the issuance of the first building permit, a land use restriction or covenant providing that any lower or moderate income housing units required pursuant to subparagraph (B) of paragraph (4) shall remain available at affordable housing costs or rent to persons and families of lower or moderate income for no less than the following periods of time:

- (i)** Fifty-five years for units that are rented.
- (ii)** Forty-five years for units that are owned.

(B) The city or county shall require the recording of covenants or restrictions implementing this paragraph for each parcel or unit of real property included in the development.

(4) The development satisfies clause (i) or (ii) of subparagraph (A) and satisfies subparagraph (B) below:

(A)

(i) For a development located in a locality that is in its sixth or earlier housing element cycle, the development is located in either of the following:

(I) In a locality that the department has determined is subject to this clause on the basis that the number of units that have been issued building permits, as shown on the most recent production report received by the department, is less than the locality's share of the regional housing needs, by income category, for that reporting period. A locality shall remain eligible under this subclause until the department's determination for the next reporting period.

(II) In a locality that the department has determined is subject to this clause on the basis that the locality did not adopt a housing element that has been found in substantial compliance with housing element law (Article 10.6 (commencing with Section 65580) of Chapter 3) by the department. A locality shall remain eligible under this subclause until such time as the locality adopts a housing element that has been found in substantial compliance with housing element law (Article 10.6 (commencing with Section 65580) of Chapter 3) by the department.

(ii) For a development located in a locality that is in its seventh or later housing element cycle, is located in a locality that the department has determined is subject to this clause on the basis that the locality did not adopt a housing element that has been found in substantial compliance with housing element law (Article 10.6 (commencing with Section 65580) of Chapter 3) by the department by the statutory deadline, or that the number of units that have been issued building permits, as shown on the most recent production report received by the department, is less than the locality's share of the regional housing needs, by income category, for that reporting period. A locality shall remain eligible under this subparagraph until the department's determination for the next reporting period.

(B) The development is subject to a requirement mandating a minimum percentage of below market rate housing based on one of the following:

(i) The locality did not adopt a housing element pursuant to Section 65588 that has been found in substantial compliance with the housing element law (Article 10.6 (commencing with Section 65580) of Chapter 3) by the department, did not submit its latest production report to the department by the time period required by Section 65400, or that production report submitted to the department reflects that there were fewer units of above moderate-income housing issued building permits than were required for the regional housing needs assessment cycle for that reporting period. In addition, if the project contains more than 10 units of housing, the project does one of the following:

Cal Gov Code § 65913.4

(I) For for-rent projects, the project dedicates a minimum of 10 percent of the total number of units, before calculating any density bonus, to housing affordable to households making at or below 50 percent of the area median income. However, if the locality has adopted a local ordinance that requires that greater than 10 percent of the units be dedicated to housing affordable to households making below 50 percent of the area median income, that local ordinance applies.

(II) For for-sale projects, the project dedicates a minimum of 10 percent of the total number of units, before calculating any density bonus, to housing affordable to households making at or below 80 percent of the area median income. However, if the locality has adopted a local ordinance that requires that greater than 10 percent of the units be dedicated to housing affordable to households making below 80 percent of the area median income, that local ordinance applies.

(III)

(ia) If the project is located within the San Francisco Bay area, the project, in lieu of complying with subclause (I) or (II), may opt to abide by this subclause. Projects utilizing this subclause shall dedicate 20 percent of the total number of units, before calculating any density bonus, to housing affordable to households making below 100 percent of the area median income with the average income of the units at or below 80 percent of the area median income. However, a local ordinance adopted by the locality applies if it requires greater than 20 percent of the units be dedicated to housing affordable to households making at or below 100 percent of the area median income, or requires that any of the units be dedicated at a level deeper than 100 percent. In order to comply with this subclause, the rent or sale price charged for units that are dedicated to housing affordable to households between 80 percent and 100 percent of the area median income shall not exceed 30 percent of the gross income of the household.

(ib) For purposes of this subclause, "San Francisco Bay area" means the entire area within the territorial boundaries of the Counties of Alameda, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Solano, and Sonoma, and the City and County of San Francisco.

(ii) The locality's latest production report reflects that there were fewer units of housing issued building permits affordable to either very low income or low-income households by income category than were required for the regional housing needs assessment cycle for that reporting period, and the project seeking approval dedicates 50 percent of the total number of units, before calculating any density bonus, to housing affordable to households making at or below 80 percent of the area median income. However, if the locality has adopted a local ordinance that requires that greater than 50 percent of the units be dedicated to housing affordable to households making at or below 80 percent of the area median income, that local ordinance applies.

(iii) The locality did not submit its latest production report to the department by the time period required by Section 65400, or if the production report reflects that there were fewer units of housing affordable to both income levels described in clauses (i) and (ii) that were issued building permits than were required for the regional housing needs assessment cycle for that reporting period, the project seeking approval may choose between utilizing clause (i) or (ii).

(C)

(i) A development proponent that uses a unit of affordable housing to satisfy the requirements of subparagraph (B) may also satisfy any other local or state requirement for affordable housing, including local ordinances or the Density Bonus Law in Section 65915, provided that the development proponent complies with the applicable requirements in the state or local law.

If a local requirement for affordable housing requires units that are restricted to households with incomes higher than the applicable income limits required in subparagraph (B), then units that meet the applicable income limits required in subparagraph (B) shall be deemed to satisfy those local requirements for higher income units.

(ii) A development proponent that uses a unit of affordable housing to satisfy any other state or local affordability requirement may also satisfy the requirements of subparagraph (B), provided that the development proponent complies with applicable requirements of subparagraph (B).

(iii) A development proponent may satisfy the affordability requirements of subparagraph (B) with a unit that is restricted to households with incomes lower than the applicable income limits required in subparagraph (B).

(D) The amendments to this subdivision made by the act adding this subparagraph do not constitute a change in, but are declaratory of, existing law.

(5) The development, excluding any additional density or any other concessions, incentives, or waivers of development standards for which the development is eligible pursuant to the Density Bonus Law in Section 65915, is consistent with objective zoning standards, objective subdivision standards, and objective design review standards in effect at the time that the development is submitted to the local government pursuant to this section, or at the time a notice of intent is submitted pursuant to subdivision (b), whichever occurs earlier. For purposes of this paragraph, "objective zoning standards," "objective subdivision standards," and "objective design review standards" mean standards that involve no personal or subjective judgment by a public official and are uniformly verifiable by reference to an external and uniform benchmark or criterion available and knowable by both the development applicant or proponent and the public official before submittal. These standards may be embodied in alternative objective land use specifications adopted by a city or county, and may include, but are not limited to, housing overlay zones, specific plans, inclusionary zoning ordinances, and density bonus ordinances, subject to the following:

(A) A development shall be deemed consistent with the objective zoning standards related to housing density, as applicable, if the density proposed is compliant with the maximum density allowed within that land use designation, notwithstanding any specified maximum unit allocation that may result in fewer units of housing being permitted.

(B) In the event that objective zoning, general plan, subdivision, or design review standards are mutually inconsistent, a development shall be deemed consistent with the objective zoning and subdivision standards pursuant to this subdivision if the development is consistent with the standards set forth in the general plan.

(C) It is the intent of the Legislature that the objective zoning standards, objective subdivision standards, and objective design review standards described in this paragraph be adopted or amended in compliance with the requirements of Chapter 905 of the Statutes of 2004.

(D) The amendments to this subdivision made by the act adding this subparagraph do not constitute a change in, but are declaratory of, existing law.

(E) A project that satisfies the requirements of Section 65852.24 shall be deemed consistent with objective zoning standards, objective design standards, and objective subdivision standards if the project is consistent with the provisions of subdivision (b) of Section 65852.24 and if none of the square footage in the project is designated for hotel, motel, bed and breakfast inn, or other transient lodging use, except for a residential hotel. For purposes of this subdivision, "residential hotel" shall have the same meaning as defined in [Section 50519 of the Health and Safety Code](#).

(6) The development is not located on a site that is any of the following:

(A)

- (i) An area of the coastal zone subject to paragraph (1) or (2) of subdivision (a) of [Section 30603 of the Public Resources Code](#).
- (ii) An area of the coastal zone that is not subject to a certified local coastal program or a certified land use plan.
- (iii) An area of the coastal zone that is vulnerable to five feet of sea level rise, as determined by the National Oceanic and Atmospheric Administration, the Ocean Protection Council, the United States Geological Survey, the University of California, or a local government's coastal hazards vulnerability assessment.
- (iv) In a parcel within the coastal zone that is not zoned for multifamily housing.
- (v) In a parcel in the coastal zone and located on either of the following:
 - (I) On, or within a 100-foot radius of, a wetland, as defined in Section 30121 of the Public Resources Code.
 - (II) On prime agricultural land, as defined in [Sections 30113 and 30241 of the Public Resources Code](#).
- (B) Either prime farmland or farmland of statewide importance, as defined pursuant to United States Department of Agriculture land inventory and monitoring criteria, as modified for California, and designated on the maps prepared by the Farmland Mapping and Monitoring Program of the Department of Conservation, or land zoned or designated for agricultural protection or preservation by a local ballot measure that was approved by the voters of that jurisdiction.
- (C) Wetlands, as defined in the United States Fish and Wildlife Service Manual, Part 660 FW 2 (June 21, 1993).
- (D) Within a very high fire hazard severity zone, as determined by the Department of Forestry and Fire Protection pursuant to Section 51178, or within the state responsibility area, as defined in Section 4102 of the Public Resources Code. This subparagraph does not apply to sites that have adopted fire hazard mitigation measures pursuant to existing building standards or state fire mitigation measures applicable to the development, including, but not limited to, standards established under all of the following or their successor provisions:
 - (i) [Section 4291 of the Public Resources Code](#) or Section 51182, as applicable.
 - (ii) [Section 4290 of the Public Resources Code](#).
 - (iii) Chapter 7A of the California Building Code (Title 24 of the California Code of Regulations).
- (E) A hazardous waste site that is listed pursuant to Section 65962.5 or a hazardous waste site designated by the Department of Toxic Substances Control pursuant to [Section 25356 of the Health and Safety Code](#), unless either of the following apply:
 - (i) The site is an underground storage tank site that received a uniform closure letter issued pursuant to subdivision (g) of [Section 25296.10 of the Health and Safety Code](#) based on closure criteria established by the State Water Resources Control Board for residential use or residential mixed uses. This section does not alter or change the conditions to remove a site from the list of hazardous waste sites listed pursuant to Section 65962.5.
 - (ii) The State Department of Public Health, State Water Resources Control Board, Department of Toxic Substances Control, or a local agency making a determination pursuant to subdivision (c) of [Section 25296.10 of the Health and Safety Code](#), has otherwise determined that the site is suitable for residential use or residential mixed uses.
- (F) Within a delineated earthquake fault zone as determined by the State Geologist in any official maps published by the State Geologist, unless the development complies with applicable seismic protection building code standards adopted by the California Building Standards Commission under

Wetlands Classification System

Citation: 660 FW 2

FWM Number: 92

Date: Jun 21, 1993

Originating Office: Division of Environmental Review

2.1 Purpose. The purpose of this chapter is to provide guidance on using definitions and classifications of wetlands within the U.S. Fish and Wildlife Service (Service).

2.2 Scope. The Service's definition and classification system provides standardization of concepts and terms used to describe the biological limit of wetland types found in the United States, and is used nationwide by many Federal, State, and local agencies as part of the management of their wetland resources. In addition, other countries use this system as the basis for their own wetland definition and classification. However, there is not universal acceptance. Some Federal, State, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner and extent than covered by this wetland definition and classification for their agency's regulatory purposes.

2.3 Policy. Service personnel will use the Service's wetlands definition and classification system to describe wetland resources.

2.4 Wetlands Definition and Classification System.

A. Reference. The Service's wetlands definition and classification system is found in "Classification of Wetlands and Deepwater Habitats of the United States" by L.M. Cowardin, V. Carter, F.C. Golet, and E.T. LaRoe, which was published by the Service in 1979 (FWS/OBS-79/31, 131pp.)

B. Adoption. The system was officially adopted by the Service on September 15, 1980. The document is authorized as a handbook to the FWM and may be changed only by the Director.

C. Supersession. The current system superseded "Wetlands of the United States" by S.P. Shaw and C.G. Fredine which was published by the Service in 1956 (FWS Circular 39.)

D. Availability. Due sustained high demand, the publication was reprinted in 1992. Copies for official use are available from the Service Publications Unit (OTE) located in Arlington, Virginia. Regional and Field Offices also have copies. Copies are available for sale from: Superintendent of Documents, U.S.

2.5 Definitions.

A. Wetlands. Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes (plants specifically adapted to live in wetlands); (2) the substrate is predominantly undrained hydric (wetland) soil; and (3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year.

B. Classification System. The classification system is structured as a hierarchy in which descriptive categories proceed from the general to the specific. These categories are: System, Subsystem, Class, Subclass, Dominance Type, and Modifiers.

(1) System. A System is a complex of wetlands and deep water habitats that share the influence of similar hydrologic, geomorphic, chemical, or biological factors. There are five Systems: Marine, Estuarine, Riverine, Lacustrine, and Palustrine.

(2) Subsystem. A Subsystem is a subdivision of the System category that further describes the System in terms of the degree of submergence, water level, water gradient, water velocity, type of substrate, or extent of floodplain development. The Palustrine System, which contains most of the freshwater wetlands found in the United States, does not have a Subsystem.

(3) Class. The Class describes the general appearance of the habitat in terms of either the dominant life form of the vegetation or the physiography and composition of the substrate. For example, Classes under the Palustrine System are: Rock Bottom, Unconsolidated Bottom, Aquatic Bed, Unconsolidated Shore, Moss-Lichen Wetland, Emergent Wetland, Scrub-Shrub Wetland, and Forested Wetland.

(4) Subclass. The Subclass describes finer differences in life forms or non-vegetated substrates and is named on the basis of the predominant life form or substrate type present. For example, Subclasses under the Forested Wetland Class are: Broad-Leaved Deciduous, Needle-leaved Deciduous, Broad-Leaved Evergreen, Needle-Leaved Evergreen, and Dead.

(5) Dominance Type. The Dominance Type is based upon the dominant plant or animal species. In the Palustrine Forested Wetland classification, examples of Dominance Types under the Broad-Leaved Deciduous Subclass are: red maple (*Acer rubrum*) and swamp white oak (*Quercus bicolor*).

(6) Modifiers. Modifiers are applied at the Class level and below to more accurately describe a wetland. These Modifiers are: Water Regime, Water Chemistry, Soil, and Special Modifiers.

(a) Water Regime. The Water Regime Modifiers are grouped under two major headings: tidal or nontidal. Each is further divided to describe the periodicity of surface inundation. Examples of Water Regime Modifiers under the nontidal heading are: Permanently Flooded, Intermittently Exposed, Semipermanently Flooded, Seasonally Flooded, Saturated, Temporarily Flooded, Intermittently Flooded, and Artificially Flooded.

(b) Water Chemistry. The Water Chemistry Modifiers are divided into salinity or hydrogen ion concentration (pH) categories. Salinity Modifiers are grouped into coastal and inland categories. The Salinity Modifiers for inland areas are: Hypersaline, Eusaline, Mixosaline, and Fresh. Hydrogen ion concentration modifiers are: Acid, Circumneutral, and Alkaline.

(c) Soil. The Soil Modifiers are either mineral or organic soil.

(d) Special Modifiers. Special Modifiers are used to describe wetlands that are man-made or have been altered by the activities of man or beavers. Examples of Special Modifiers are: Excavated, Impounded, Diked, Partly Drained, Farmed, or Artificial.

C. Geomorphic. The term geomorphic means of or relating to the form of the earth or its solid surface features.

D. Lacustrine. The Lacustrine System includes wetlands and deep water habitats with all of the following characteristics:

(1) situated in a topographic depression or a dammed river channel; **(2)** lacking trees, shrubs, persistent emergents, emergent mosses or lichens with greater than 30% areal coverage; and **(3)** total area exceeds 8 ha (20 acres). Similar wetland and deepwater habitats totaling less than 8 ha are also included in the Lacustrine System if an active wave-formed or bedrock shoreline feature makes up all or part of the boundary, or if the water depth in the deepest part of the basin exceeds 2 m (6.6 feet) at low water. Lacustrine waters may be tidal or nontidal, but ocean-derived salinity is always less than 0.5 parts per thousand.

E. Palustrine. The Palustrine System includes all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, and all such wetlands that occur in tidal areas where salinity due to ocean derived salts is below 0.5 parts per thousand. It also includes wetlands lacking such vegetation, but with all of the following four characteristics: (1) area less than 8 ha (20

acres); (2) active wave-formed or bedrock shoreline features lacking; (3) water depth in the deepest part of basin less than 2 m (6.6 feet) at low water; and (4) salinity due to ocean-derived salts is less than 0.5 parts per thousand.

F. Eusaline. Eusaline is the term used to characterize waters with salinity of 30 to 40 parts per thousand due to land-derived salts.

G. Mixosaline. Mixosaline is the term used to characterize waters with salinity of 0.5 to 30 parts per thousand due to land-derived salts.

RECEIVED

NOV 14 2024

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT



VICINITY MAP
NEXT TO SCALE

PROJECT INFORMATION

DEVELOPER/APPLICANT

ONE FOUNDATION
8715 LINDEN VILLAGE DRIVE, SUITE 101
SACRAMENTO, CA 95827
916-444-4800
CONTACT: SERGIO BUEZANO

PLANNING & ENGINEERING

MILLENNIUM PLANNING & ENGINEERING
4715 SUTTER WAY, SUITE 210
GRAND VALLEY, CA 95614
530-448-6763
CONTACT: JILLIAN SPARKS, P.E.

SITE ADDRESS

750 BLACK RICE ROAD
PLACERVILLE, CA 95667

APN

021-087-008

SITE AREA

PARCEL 8 = 3.71 ACRES

GENERAL PLAN

RP - REGIONAL RESIDENTIAL
MR - METRO DENSITY RESIDENTIAL

ZONING

RP - REGIONAL RESIDENTIAL
RE - REGIONAL RESIDENTIAL

WATER SERVICE

EL DORADO REGIONAL DISTRICT

ELECTRIC SERVICE

PG&E

SEWER SERVICE

EL DORADO REGIONAL DISTRICT

GAS

PG&E

SCHOOL DISTRICT

EL DORADO DISTRICT

FIRE PROTECTION

EL DORADO COUNTY FIRE DISTRICT

BASIS OF ELEVATIONS

NGD 882000 + 127, 6600 SE HEIGHT 1600.7 (2000)

BENCHMARK

CAFP 5700 PLUMB, 5700 E 640.42

BUILDINGS

(1) BUILDING (2) BEDROOM (1) BEDROOM
(2) BUILDING (2) BEDROOM (2) BUILDING (2) BEDROOM

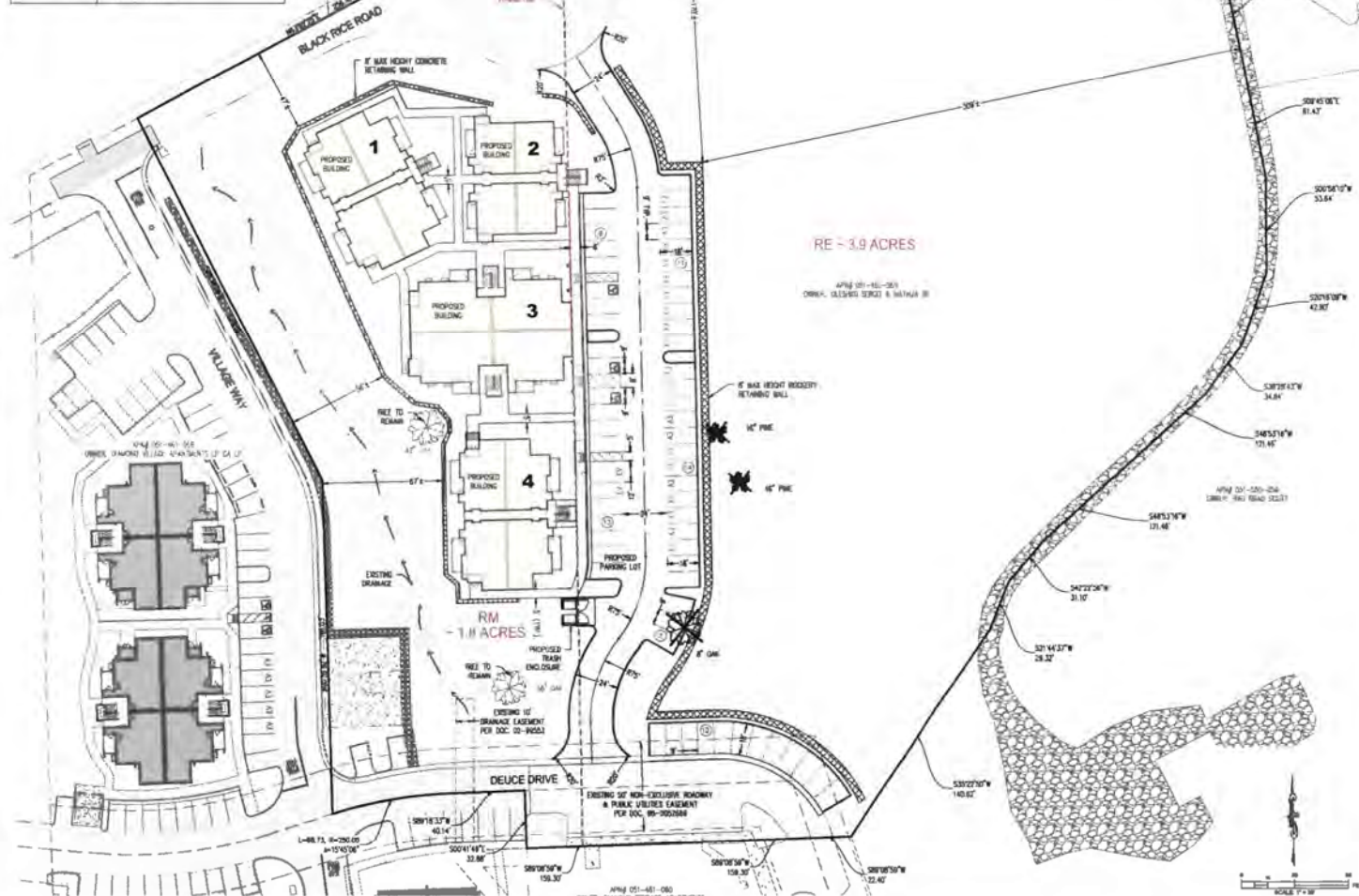
PARKING STATISTICS

PARKING SPACES	STANDARD	ADA	EV	TOTAL
	24	3	24	51

SHEET INDEX

C1.0	PRELIMINARY SITE PLAN
C2.0	PRELIMINARY GRADING & DRAINAGE PLAN
C3.0	PRELIMINARY UTILITY PLAN

LEGEND	
	PROPERTY LINE
	PROPOSED VERTICAL CURVE
	PROPOSED CURB AND GUTTER
	EXISTING DRAINAGE
	EXISTING ROADWAY AREA
	PROPOSED SIDEWALK
	PROPOSED ASPHALT PAVEMENT
	SLOPES TO REMOVE (3 SLOPES REMOVED)
	PROPOSED RETAINING WALL
	EXISTING ZONING LINE
	EXISTING EASEMENT



APPROVED

EL DORADO COUNTY
PLANNING COMMISSION

DATE: January 9, 2025

EXECUTIVE SECRETARY: Karen L. Garner

DR24-0008/Diamond Springs Village Apartments - Phase II
Exhibit R - Preliminary Site Plan

DR24-0008

MILLENNIUM
PLANNING & ENGINEERING

DIAMOND VILLAGE APARTMENTS PHASE II
750 BLACK RICE ROAD, (APN# 021-087-008)
PLACERVILLE, CA 95667

PRELIMINARY SITE PLAN



DESIGNED BY: LAG

DRAWN BY: DR24-0008

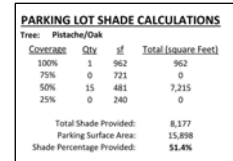
PROJECT NO.: 23-1004

DATE: NOVEMBER 2024

SHEET NUMBER

C1.0

750 BLACK RICE ROAD, EL DORADO COUNTY, CALIFORNIA
APN# 051-461-069



1. PLANTING SHALL CONFORM TO LOCAL REQUIREMENTS FOR LANDSCAPE SITE DEVELOPMENT.
2. FINAL PLANTING AND IRRIGATION DESIGN PLANS SHALL BE PROVIDED DURING THE PERMIT PHASE OF DESIGN.
3. ALL EXISTING TREES SHALL BE PROTECTED FROM DAMAGE OR INJURY.
4. NO PARKING OR STACKING OF CONSTRUCTION MATERIAL IS ALLOWED WITHIN THE BUFFERLINE OR EXISTING TREE PROTECTION AREAS.
5. ALL PLANT MATERIAL SHALL COMPLY WITH ANSI Z601 "STANDARD FOR NURSERY STOCK".
6. ROOT BARRIERS SHALL BE PROVIDED FOR ALL TREES WITH ANY PLANTING AREAS THAT ARE LESS THAN 10' WIDE.
7. ALL PLANTER AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH.
8. SOILS TEST SHALL BE PROVIDED DURING CONSTRUCTION (AFTER GRADING OPERATIONS ARE CONCLUDED) TO DETERMINE SOIL FERTILITY AND ACTUAL SOIL AMENDMENTS TO BE ADDED DURING PLANTING.
9. NO TURF IS PROPOSED.
10. NATURAL SLOPES ON SITE DO NOT EXCEED 5% IN ELEVATION.



DECEMBER 11, 2024

EL DORADO COUNTY
PLANNING COMMISSION

DR24-0008/Diamond Springs Village Apartments - Phase II

EXECUTIVE SECRETARY: Karen L. Garner