

Symbol	Qty	Label	Arrangement	Description	Lum. Lumens	WATT	MOUNTING HEIGHT
⊙	12	S1	SINGLE	SIGNIFY GARDCO ECF-S-48L-900-NW-G2-AR-3-VOLT-XX-(SINGLE)	16053	135	20'
⊙	1	S2	BACK-BACK	SIGNIFY GARDCO ECF-S-48L-900-NW-G2-AR-5-VOLT-XX-(TWIN)	17723	270	20'
⊙	1	S3	SINGLE	SIGNIFY GARDCO ECF-S-48L-900-NW-G2-AR-4-VOLT-XX-(SINGLE)	16795	135	20'
⊙	7	S4	SINGLE	SIGNIFY GARDCO ECF-S-32L-1.2A-NW-G2-AR-3-VOLT-XX-(SINGLE)	13526	122	20'
⊙	7	S5	BACK-BACK	SIGNIFY GARDCO ECF-S-32L-1.2A-NW-G2-AR-5-VOLT-XX-(TWIN)	14933	244	20'
⊙	1	S6	2 @ 90 DEGREES	SIGNIFY GARDCO ECF-S-32L-1.2A-NW-G2-AR-3-VOLT-XX-(TWIN@90°)	13526	244	20'
⊙	13	S7	SINGLE	SIGNIFY GARDCO ECF-S-32L-1.2A-NW-G2-AR-3-VOLT-XX-(SINGLE)	10773	122	20'
⊙	69	W1	SINGLE	ELITE OWP-FC-311-LED-1000L-DIM10-MVOLT-40K-BZ	10791	90	REFER TO PLANS

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING	illumiance	Fc	2.03	14.2	0.0	N.A.	N.A.
WALKWAY	illumiance	Fc	1.61	32.3	0.0	N.A.	N.A.

TITLE 24 REQUIREMENTS (2019 EDITION)
 THE SITE IS LOCATED IN LIGHTING ZONE 2. LIGHTING POWER ALLOWANCES FOR L22 IS 0.023W PER SQ. FT. OF PAVED AREA. TOTAL PAVED AREA AT THIS SITE IS 567870 SQ. FT. MAXIMUM ALLOWED EXTERIOR LIGHTING WATTAGE IS 13063.3WATT. LIGHTING SHOWN ON THESE PLANS TOTAL 12653WATT. 12653WATT < 13063.3WATT, THEREFORE INSTALLED LIGHTING WATTS IS WITHIN TITLE 24 REQUIREMENTS.

LOCAL AUTHORITIES HAVING JURISDICTION REQUIREMENTS
 1. LIGHTS SPECIFIED ON THIS PLANS ARE FULLY SHIELDED, AND LIGHT SOURCE IN THIS FIXTURES WILL NOT BE VISIBLE FROM ADJACENT PROPERTIES AND ROADWAYS.
 2. SPECIFIED LIGHT POLES ARE 20' HIGH.

by @ignify

Site & Area

EcoForm

ECF-S small area light

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire. EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Part #	Number of LEDs	Site Area	LED Color Temperature	Mounting	Options
ECF-S-48	120	100sq ft	3000K	AR	3

Ordering guide

Part #	Number of LEDs	Site Area	LED Color Temperature	Mounting	Options
ECF-S-48	120	100sq ft	3000K	AR	3
ECF-S-48	120	100sq ft	3000K	AR	3
ECF-S-48	120	100sq ft	3000K	AR	3

1. BL-MB3/7 equipped with anti-bow sensor housing when voltage is 120V (120V/277V)
 2. Mounts to a 4" round pipe with adapter included for 4" round pipe.
 3. Limited to a maximum of 45 degrees aiming above horizontal.
 4. Not available with motion sensor.
 5. Not available with photocell.
 6. Not available with photocell.
 7. Available only in 120 or 277V.
 8. Not available in 120 or 277V.
 9. Must specify input voltage.
 10. Dimensions will not be guaranteed to NEMA receptacle if ordering with other control options.
 11. Not available with 120V.
 12. Not available with 277V.
 13. Not available with 120V and 277V provided with black finish standard.
 14. Not available with Type S and S9 optics.
 15. Available only with the L22 and BL control options.
 16. Available only with SW and BL control options.

OWP-FC-311-LED
 LED Large Full Cut-Off Wall Pack Series

up to 135 Wattage / up to 14500 Lumens

Applications:
 This rugged large size full cut-off LED wall pack provides long lasting, energy efficient lighting with a variety of options to customize future performance to the required task. Easily mounts to building and is ideal for industrial, educational, multi-family, institutional, and government applications.

Features:
 • Full cut off and compliance to Dark Sky requirement
 • Lumen output from 10000 - 14500lm with efficacy up to 110lm/W
 • 90W-135W power consumption, to replace 250W MH and 400W MH
 • Motion sensor and Photocell
 • Optional battery back-up option for emergency egress lighting
 • Type III polycarbonate optical lens with integrated lens
 • Operating temperature is -40°C to 50°C (-40°F to 122°F)
 • Dimmable
 • UL/cUL, wet location

Specifications:
 LUMENS: 10000 / 14500 lumens
 WATTAGE: 90W / 135W
 CCT: 40K-50K
 CRI: 80
 LIGHT EFFICIENCY: 110 lumens/watt
 VOLTAGE: 120-277 VAC
 POWER FREQUENCY: 50/60 Hz
 FINISH: Bronze
 APPLICABLE ENVIRONMENT: Dry/Damp/Wet location
 WORKING TEMPERATURE: -40°C to 50°C

Ordering Guide Example: OWP-FC-311-LED-14500L-DIM10-MVOLT-40K-BZ

SERIES	PERFORMANCE	DIMMING	VOLTAGE	CCT	FINISH	EMERGENCY	ACCESSORIES
OWP-FC-311-LED	10000 - 14500 Lumens	Dim 10 - 100% Dimming	120-277V	40K-50K	BZ - Bronze	0-10V LED	WPPC - Photocell Motion Sensor

Submit form is available @ www.oraclelighting.com
 Tel: 323-888-1973 • Fax: 323-958-1377

BY	
DATE	X/X/XX
REVISIONS	
No.	

M. NEILS ENGINEERING, INC.
 Electrical Engineers | Lighting Designers
 100 Howe Ave., Suite 235N
 Sacramento, CA 95825-8217
 Tel: (916) 923-4400 Fax: (916) 923-4410
 PROJECT #: 19301.21

REGISTERED PROFESSIONAL ENGINEER
 JESSE U. BASTIN
 No. E20279
 Exp. 11-31-21
 JESSE U. BASTIN
 ELECTRICAL
 STATE OF CALIFORNIA
 01-17-20

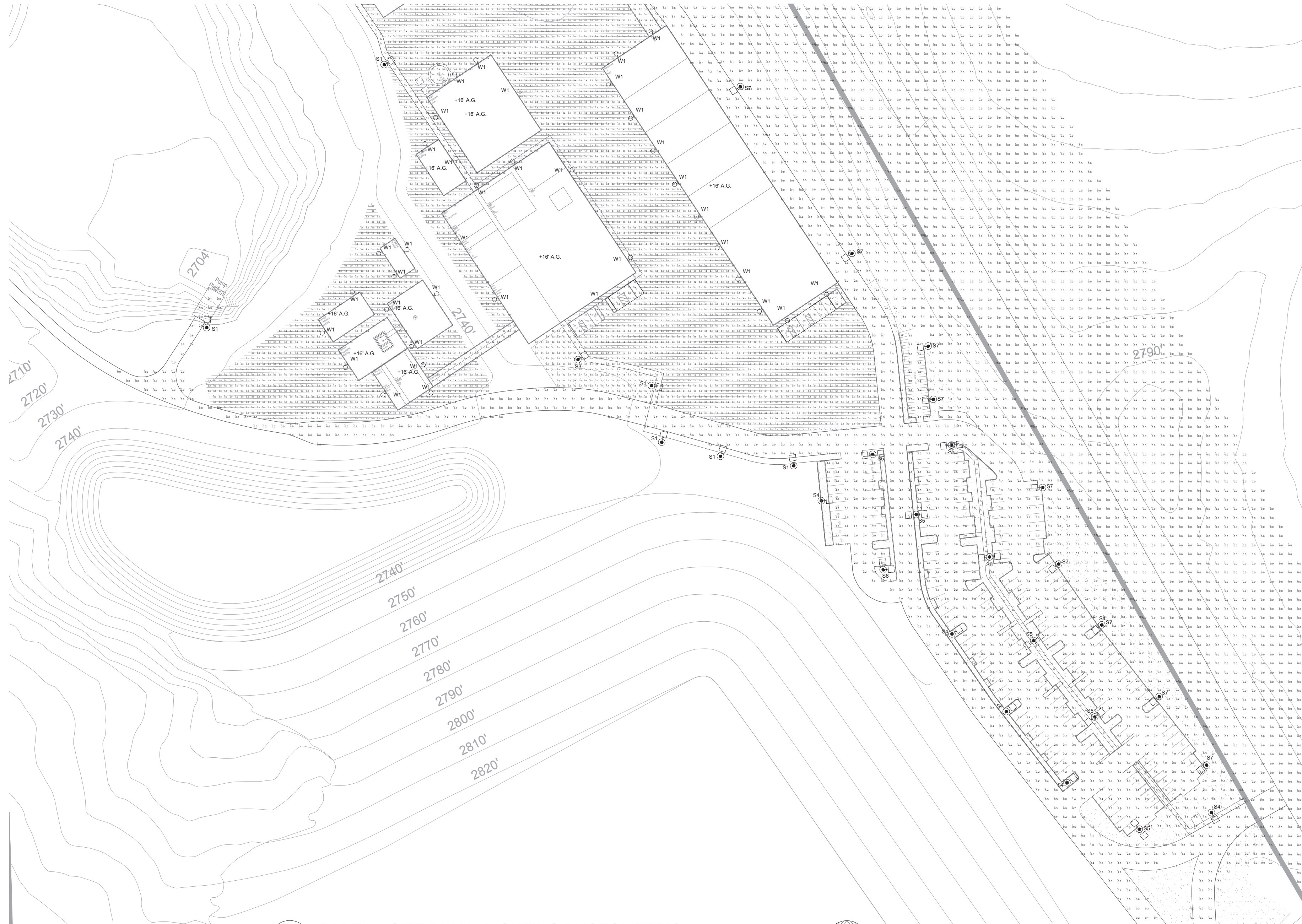
SHEET TITLE: **SITE PLAN - LIGHTING**

PROJECT: **Idaho-Maryland Gold Project**
Rise Grass Valley Inc.
 PO Box 271
 Grass Valley, California, USA 95945

Date: 11-11-19
 Checked: JUB
 Drawn: SG
 Scale: AS NOTED
 Sheet **E001**
 Of _____ Sheets

January 17, 2020

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



1 PARTIAL SITE PLAN - LIGHTING PHOTOMETRIC
 E100 SCALE: 1" = 50'-0"

No.	REVISIONS	DATE	BY
1		X/XX/XX	

M. NEILS ENGINEERING, INC.
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REGISTERED PROFESSIONAL ENGINEER
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 ELECTRICAL
 STATE OF CALIFORNIA
 01-17-20

SHEET TITLE:
PARTIAL SITE PLAN - LIGHTING PHOTOMETRIC

PROJECT:
 Idaho-Maryland Gold Project
 Rise Grass Valley Inc.
 PO Box 271
 Grass Valley, California, USA 95945

Date:	11-11-19
Checked:	JUB
Drawn:	SG
Scale:	AS NOTED
Sheet	
E100	
Of	Sheets



1 PARTIAL SITE PLAN - LIGHTING PHOTOMETRIC
 E110 SCALE: 1" = 50'-0"

No.	REVISIONS	DATE	BY
1		X/XX/XX	

M. NEILS ENGINEERING, INC.
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 No. E20219
 Exp. 02-31-21
 JESSE BASTIN
 ELECTRICAL
 STATE OF CALIFORNIA
 01-17-20

SHEET TITLE:
**PARTIAL SITE PLAN -
 LIGHTING
 PHOTOMETRIC**

PROJECT:
**Idaho-Maryland Gold Project
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Sheet	
E110	
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