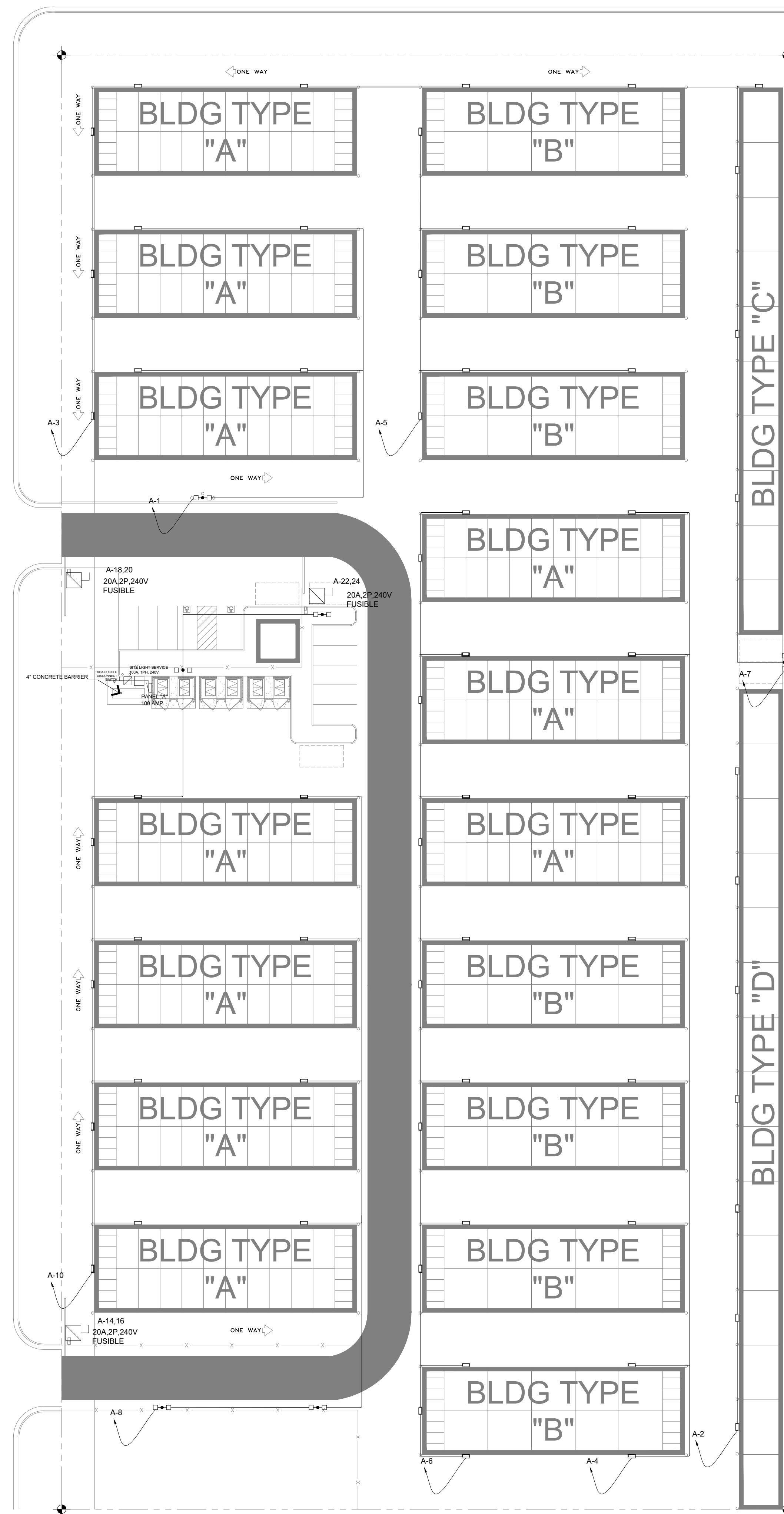


SUN MESA ROAD



SITE LIGHTING PLAN

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.
 CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
 THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF DRP ENTERPRISES LLC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE FOR WHICH THEY HAVE BEEN SUPPLIED OR PREPARED.
 THESE DRAWINGS SHALL NOT BE REPRODUCED, COPIED OR TRACED WITHOUT THE WRITTEN CONSENT OF DRP ENTERPRISES LLC
 COPYRIGHT © 2022

No.	Revision / Issue	Drawn by	Checked by	Date



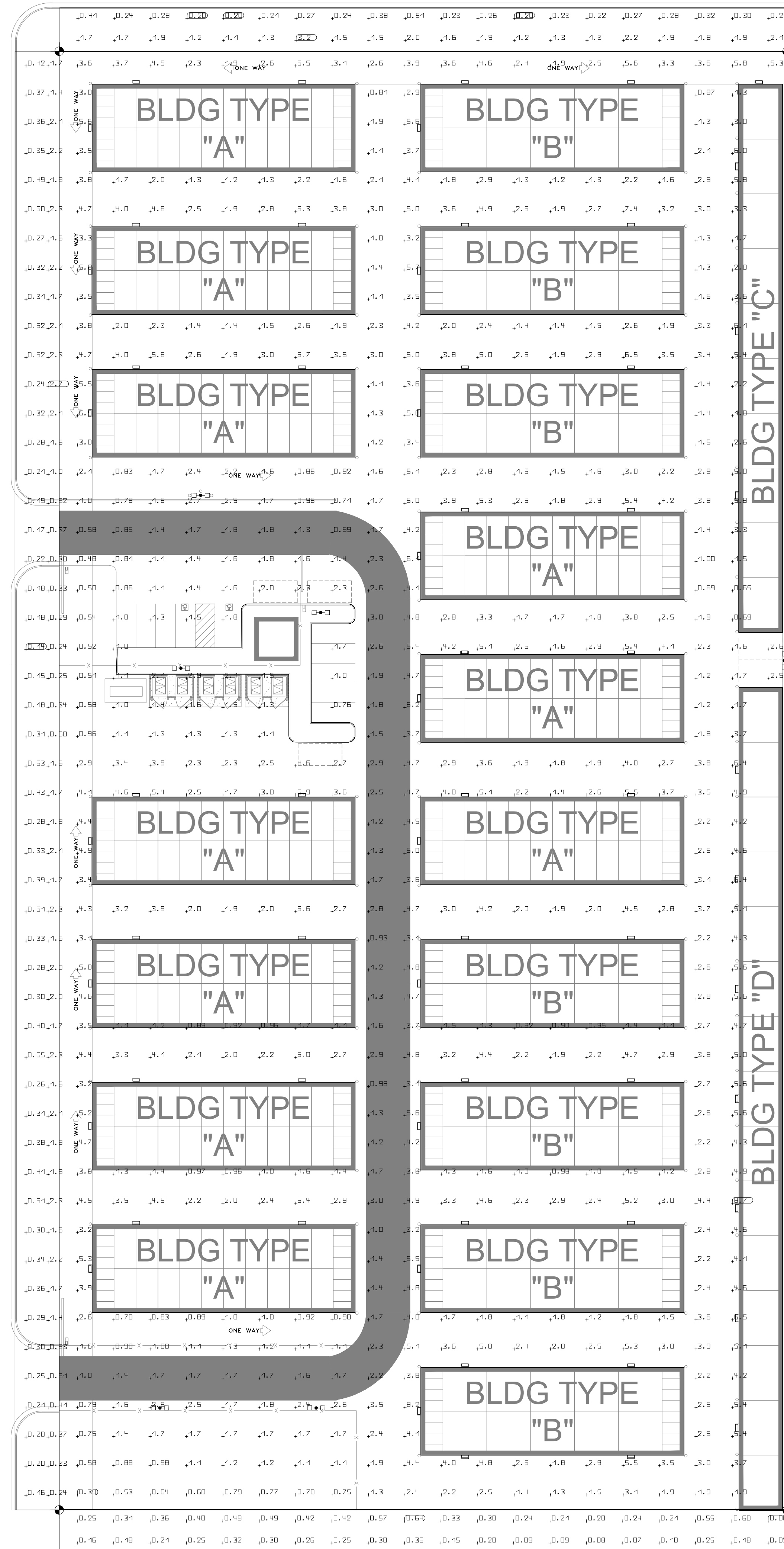
Project Owner
ROB BILLINGS
 SUN MESA ROAD
 YUCCA VALLEY, CA

Project
PROPOSED MINI STORAGE
 S.E. CORNER
 NEWTON LANE AND SUN MESA ROAD

SCALE
 1/32" = 1'-0"

Project Number & Sheet Number
ES.1

SUN MESA ROAD



Luminaire list (Site 1)

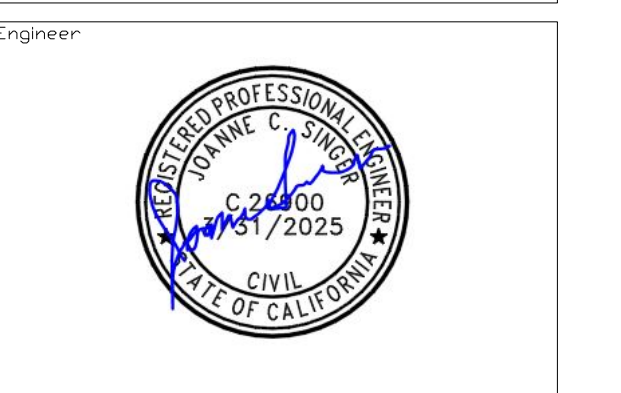
Symbol	Index	Manufacturer	Article name	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Quantity
□	1	Lithonia Lighting	DSXW LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC 4000K @ 1000mA	DSXW LED 200 1000 40K T2M MVOLE	1x LED	7373 lm	0.80	73.2 W	64
□	2	Lithonia Lighting	DSX1 LED P1 40K T4M MVOLE	DSX1 LED P1 40K T4M MVOLE	1x LED	6816 lm	0.80	54 W	12

#	Name	Parameter	Min	Max	Average	Mean/Min	Max/Min
1	SITE	Perpendicular Illuminance	0.39 fc	8.66 fc	2.70 fc	6.96	22.36
2	30' BEYOND PROPERTY LINE	Perpendicular Illuminance	0.14 fc	2.67 fc	0.89 fc	6.19	18.69
3	30' BEYOND PROPERTY LINE	Horizontal Illuminance	0.20 fc	3.19 fc	0.99 fc	4.97	15.99
4	30' BEYOND PROPERTY LINE	Perpendicular Illuminance	0.001 fc	0.64 fc	0.28 fc	198.7	460.7

SITE PHOTOMETRIC PLAN

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.
 CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
 THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF DRP ENTERPRISES, LLC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE FOR WHICH THEY HAVE BEEN SUPPLIED OR PREPARED.
 THESE DRAWINGS SHALL NOT BE REPRODUCED, COPIED OR TRACED WITHOUT THE WRITTEN CONSENT OF DRP ENTERPRISES, LLC.
 COPYRIGHT © 2022

No.	Revision / Issue	Drawn by	Checked by	Date



Project Owner
ROB BILLINGS
 SUN MESA ROAD
 YUCCA VALLEY, CA

Project
PROPOSED MINI STORAGE
 S.E. CORNER
 NEWTON LANE AND SUN MESA ROAD

SCALE
 1/32" = 1'-0"

Project Number & Sheet Number
ES.2

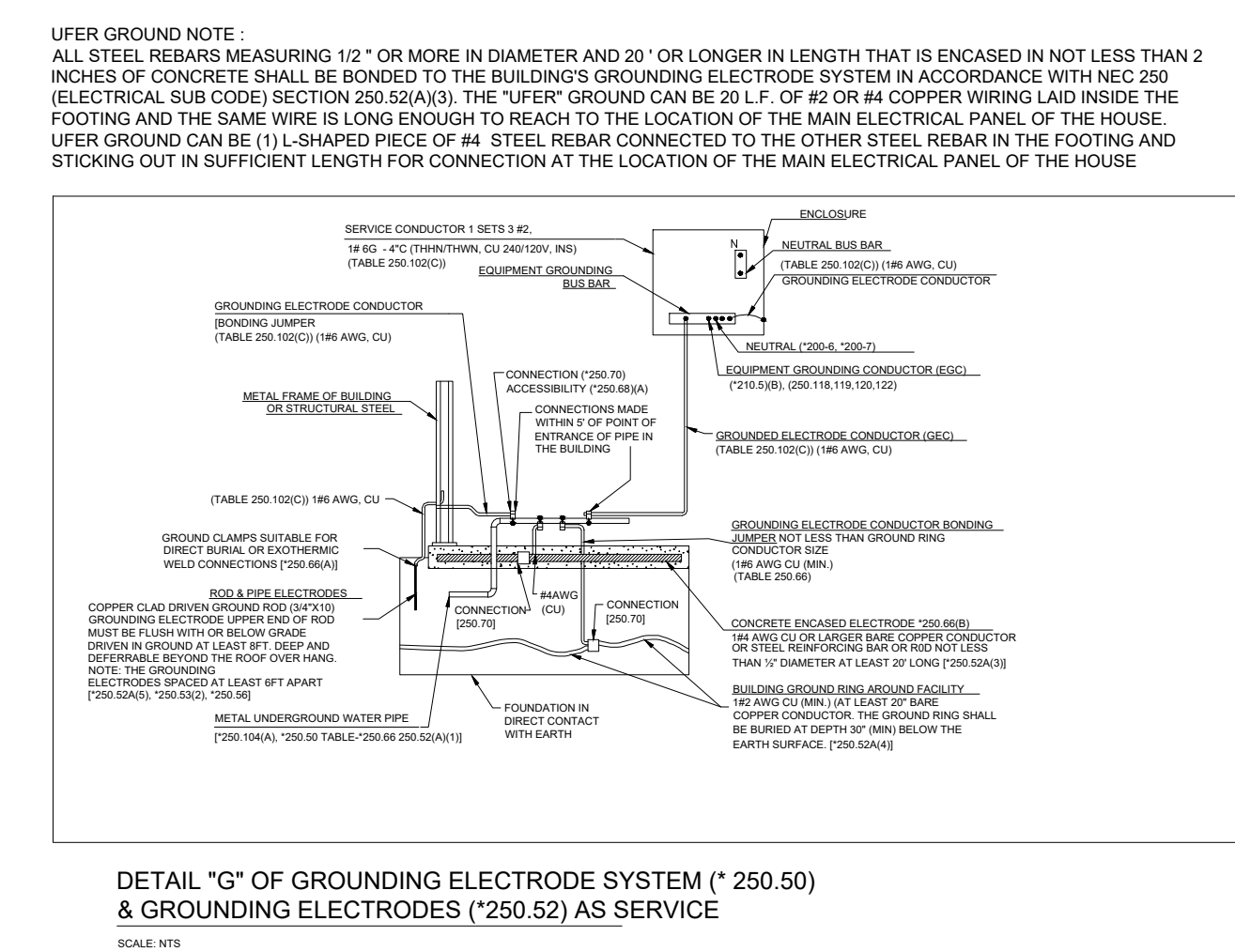
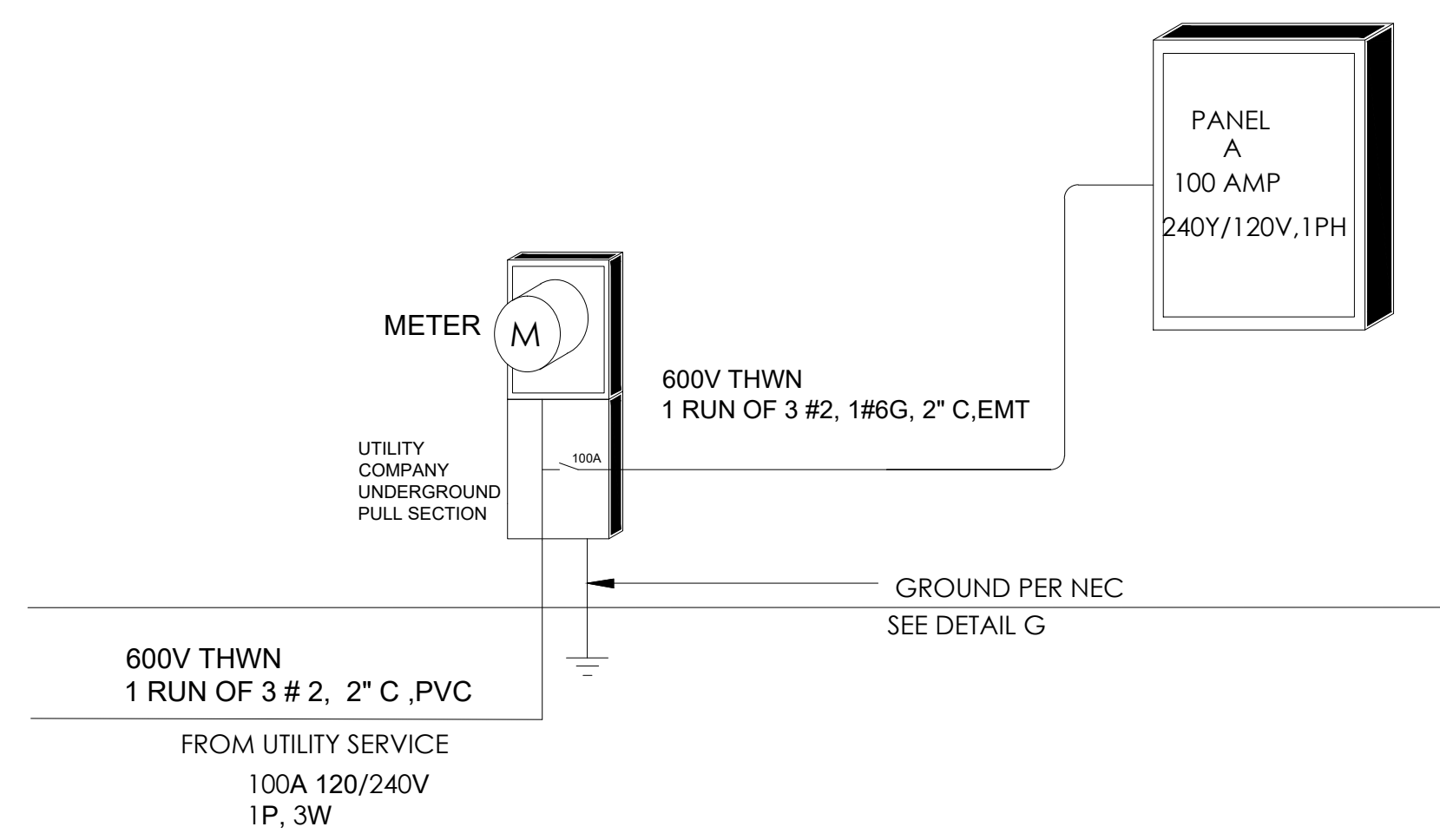
240/120V, 1Ø, 4W														
CABLE CALCULATION														
FROM	TO	Total Connected Load (VA)	CABLE SIZE	Main Breaker Size	Cable Ampacities Table 310.15(B)(16) amper "AT"	CONDUCTOR/ PHASE	1P VOLTAGE DROP VD = (K x I x D)/CM				Ground Cable (NEC-250.122)(Insulated Copper)	Conduit for Feeders (Table C1)		
							CM(Circular mils) Chapter 9, Table 8	CABEL LENGTH D	Ampacity (240V, 1Ph) I	ohms-cmil/ft K	VD	FEEDER V. DROP (%)		
LGT PANEL	LIGHTING CIRCUIT-1	400	10 AWG	20	35	1	10380	500	2	12.9	1.04	0.43	AWG#12	1"
	LIGHTING CIRCUIT-3	510	10 AWG	20	35	1	10380	600	2	12.9	1.58	0.66	AWG#12	1"
	LIGHTING CIRCUIT-5	510	10 AWG	20	35	1	10380	600	2	12.9	1.58	0.66	AWG#12	1"
	LIGHTING CIRCUIT-7	400	10 AWG	20	35	1	10380	600	2	12.9	1.24	0.52	AWG#12	1"
	LIGHTING CIRCUIT-2	510	10 AWG	20	35	1	10380	620	2	12.9	1.64	0.68	AWG#12	1"
	LIGHTING CIRCUIT-4	590	10 AWG	20	35	1	10380	745	2	12.9	2.28	0.95	AWG#12	1"
	LIGHTING CIRCUIT-6	1,100	10 AWG	20	35	1	10380	825	5	12.9	4.70	1.96	AWG#12	1"
	LIGHTING CIRCUIT-8	510	10 AWG	20	35	1	10380	630	2	12.9	1.66	0.69	AWG#12	1"
	LIGHTING CIRCUIT-10	800	10 AWG	20	35	1	10380	400	3	12.9	1.66	0.69	AWG#12	1"
	ROLLING GATES CIRCUIT-14,16	840	10 AWG	20	35	1	10380	320	4	12.9	1.39	0.58	AWG#12	1"
ROLLING GATES CIRCUIT-18,20	840	10 AWG	20	35	1	10380	75	4	12.9	0.33	0.14	AWG#12	1"	
ROLLING GATES CIRCUIT-22,24	840	10 AWG	20	35	1	10380	120	4	12.9	0.52	0.22	AWG#12	1"	

CONNECTED LOAD						
LOAD SUMMARY	CL	DF	A		B	
			A	B	A	B
L Lighting	5.33	1.25	3.32	2.01	6.66	
R Convenience Recept						
H Heating (Space)		1.25				
C Cooling		1.00				
A H/VAC		1.00				
P Process		1.00				
O Other Continuous		1.25				
K Kitchen		0.65				
N Noncontinuous		1.00				
M Motor	4.20	1.00	2.10	2.10	4.20	
Total	9.53		5.42	4.11	10.86	

Total Demand Load (KVA)	10.86
Total Demand Current (A)	45.27
Min. Feeder Ampacity (A)	56.58

LTG PANEL						
PANELBOARD DESIGNATION						
SYSTEM VOLTAGE	240/120V, 1Ø, 3W					
BUS SIZE	100					
SYSTEM TYPE	NORMAL					
FEEDER PROT	100A-2P CB BUS PLUG					
CONDUCTOR SIZE	2 AWG - #6G CU					
CONDUCTOR PHASE	1					
MAINS	100A MCB					
SCRR	FULLY RATED					
MCB RATING	80%					
GROUND FAULT	NO					
FEEDER LENGTH (FT)	100					
FEEDER V. DROP (%)	1.620					
FAULT CURRENT						
KAIC RATING	42					
ENCLOSURE	TYPE 1					

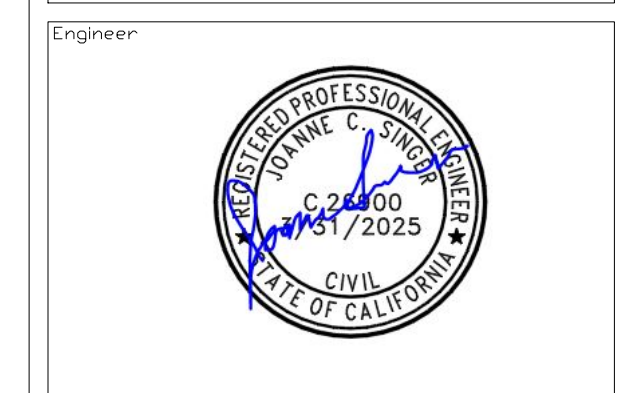
DESCRIPTION	* CB	KVA	A	B	KVA	CB	DESCRIPTION	* L
1 LIGHTING CIRCUIT WITH TIME CONTROL	L 20A-1P	0.40	0.91	0.51	0.51	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L 2
3 LIGHTING CIRCUIT WITH TIME CONTROL	L 20A-1P	0.51	1.10	0.59	0.59	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L 4
5 LIGHTING CIRCUIT WITH TIME CONTROL	L 20A-1P	0.51	1.61	1.10	1.10	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L 6
7 LIGHTING CIRCUIT WITH TIME CONTROL	L 20A-1P	0.40	0.91	0.51	0.51	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L 8
9 SPARE	20A-1P		0.80	0.80	0.80	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L 10
11 SPARE	20A-1P					20A-1P	SPACE	12
13 SPARE	20A-1P		0.42	0.42	0.42	20A-2P	ROLLING SECURITY GATES	M 14
15 SPARE	20A-1P		0.42	0.42	0.42	20A-2P	ROLLING SECURITY GATES	M 16
17 SPARE	20A-1P		0.42	0.42	0.42	20A-2P	ROLLING SECURITY GATES	M 18
19 SPARE	20A-1P		0.42	0.42	0.42	20A-2P	ROLLING SECURITY GATES	M 20
21 SPARE	20A-1P		0.42	0.42	0.42	20A-2P	ROLLING SECURITY GATES	M 22
23 SPARE	20A-1P		0.42	0.42	0.42	20A-2P	ROLLING SECURITY GATES	M 24
25 SPARE	20A-1P						SPACE	26
27 SPARE	20A-1P						SPACE	28
29 SPARE	20A-1P						SPACE	30
31 SPARE	20A-1P						SPACE	32
33 SPARE	20A-1P						SPACE	34
35 SPARE	20A-1P						SPACE	36
37 SPARE	20A-1P						SPACE	38
39 SPARE	20A-1P						SPACE	40
41 SPARE	20A-1P						SPACE	42
Total Connected Load			4.58	3.27				



SINGLE LINE DIAGRAM AND PANEL BOARD SCHEDULE

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.
CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF DRP ENTERPRISES, LLC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE FOR WHICH THEY HAVE BEEN SUPPLIED OR PREPARED.
THESE DRAWINGS SHALL NOT BE REPRODUCED, COPIED OR TRACED WITHOUT THE WRITTEN CONSENT OF DRP ENTERPRISES, LLC.
COPYRIGHT © 2022

No.	Revision / Issue	Drawn by	Checked by	Date

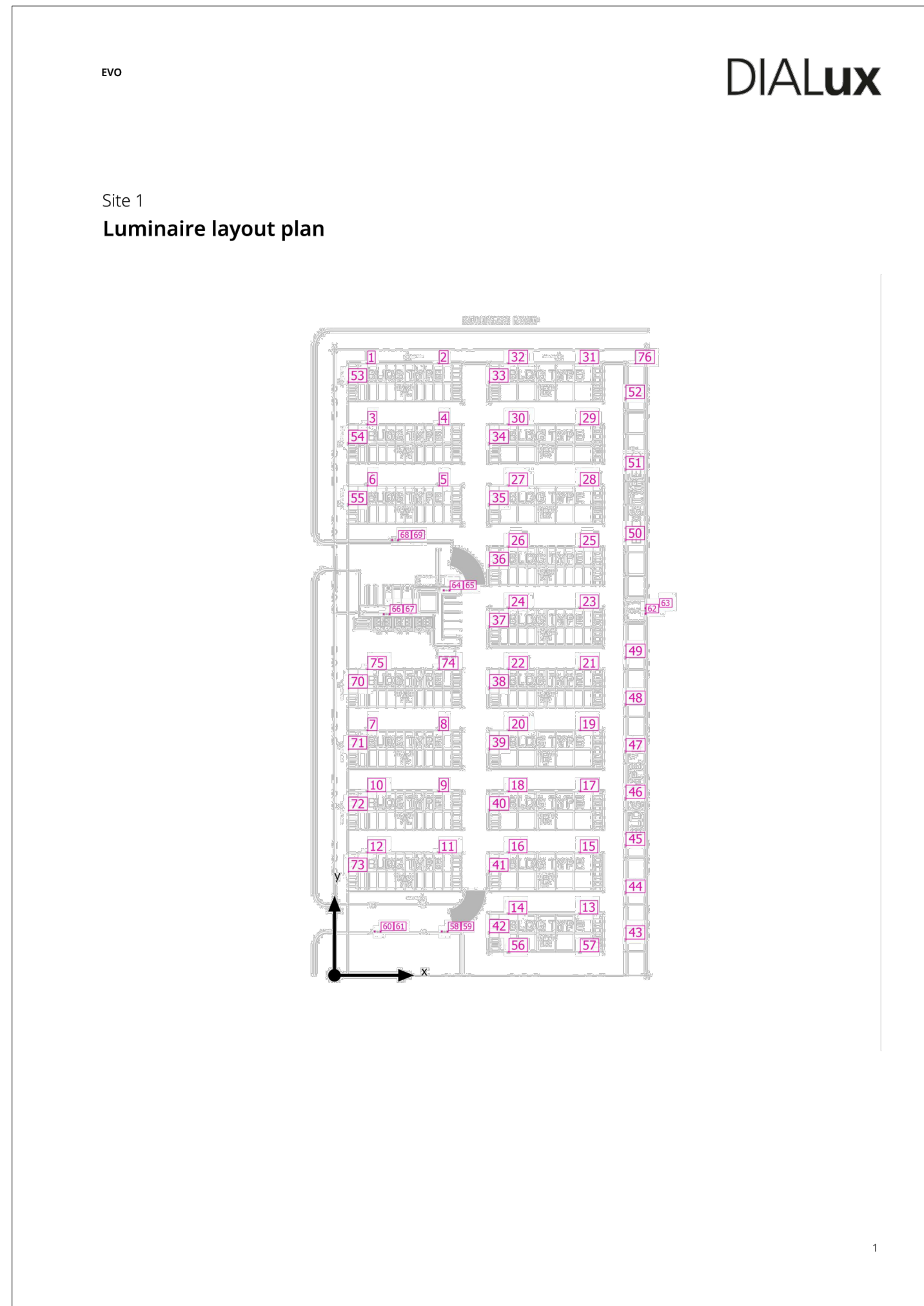


Project Owner
ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE
NTC

Project Number & Sheet Number
ES.3



evo

DIALux

Site 1
Luminaire layout plan

Manufacturer Lithonia Lighting
Article No. DSX1 LED P1 40K T4M MVOLT
Article name DSX1 LED P1 40K T4M MVOLT

Individual luminaires

X	Y	Mounting height	Luminaire
120.288 ft	46.430 ft	20.000 ft	58
114.073 ft	46.586 ft	20.000 ft	59
48.981 ft	46.448 ft	20.000 ft	60
42.765 ft	46.603 ft	20.000 ft	61
330.729 ft	384.281 ft	20.000 ft	62
330.638 ft	390.283 ft	20.000 ft	63
122.402 ft	409.109 ft	20.000 ft	64
116.187 ft	409.265 ft	20.000 ft	65
58.609 ft	383.829 ft	20.000 ft	66
52.394 ft	383.984 ft	20.000 ft	67
67.563 ft	462.586 ft	20.000 ft	68
61.348 ft	462.741 ft	20.000 ft	69

evo

DIALux

Site 1
Luminaire layout plan

Manufacturer Lithonia Lighting
Article No. DSXW1 LED 20C 1000 40K T2M MVOLT
Article name DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA

Individual luminaires

X	Y	Mounting height	Luminaire
34.851 ft	650.139 ft	12.000 ft	1
110.931 ft	650.139 ft	12.000 ft	2
35.022 ft	585.140 ft	12.000 ft	3
110.899 ft	585.140 ft	12.000 ft	4
110.983 ft	520.141 ft	12.000 ft	5
35.057 ft	520.143 ft	12.000 ft	6
35.004 ft	260.144 ft	12.000 ft	7
110.866 ft	260.144 ft	12.000 ft	8
110.826 ft	195.144 ft	12.000 ft	9
34.980 ft	195.144 ft	12.000 ft	10
110.917 ft	130.145 ft	12.000 ft	11
34.977 ft	130.145 ft	12.000 ft	12
260.864 ft	65.146 ft	12.000 ft	13

evo

DIALux

Site 1
Luminaire layout plan

X	Y	Mounting height	Luminaire
185.039 ft	65.146 ft	12.000 ft	14
260.899 ft	130.145 ft	12.000 ft	15
185.233 ft	130.145 ft	12.000 ft	16
261.201 ft	195.144 ft	12.000 ft	17
185.112 ft	195.144 ft	12.000 ft	18
261.008 ft	260.144 ft	12.000 ft	19
185.268 ft	260.143 ft	12.000 ft	20
260.985 ft	325.143 ft	12.000 ft	21
185.032 ft	325.143 ft	12.000 ft	22
260.848 ft	390.127 ft	12.000 ft	23
185.131 ft	390.127 ft	12.000 ft	24
260.977 ft	455.131 ft	12.000 ft	25
185.034 ft	455.141 ft	12.000 ft	26
185.159 ft	520.141 ft	12.000 ft	27
260.916 ft	520.141 ft	12.000 ft	28
260.903 ft	585.140 ft	12.000 ft	29
185.077 ft	585.140 ft	12.000 ft	30
260.762 ft	650.139 ft	12.000 ft	31
184.839 ft	650.123 ft	12.000 ft	32
164.873 ft	630.040 ft	12.000 ft	33
164.873 ft	565.033 ft	12.000 ft	34
164.873 ft	500.014 ft	12.000 ft	35
164.873 ft	435.018 ft	12.000 ft	36
164.873 ft	370.042 ft	12.000 ft	37

evo

DIALux

Site 1
Luminaire layout plan

X	Y	Mounting height	Luminaire
164.873 ft	304.947 ft	12.000 ft	38
164.873 ft	240.079 ft	12.000 ft	39
164.873 ft	175.120 ft	12.000 ft	40
164.833 ft	110.100 ft	12.000 ft	41
164.871 ft	45.019 ft	12.000 ft	42
309.868 ft	37.973 ft	12.000 ft	43
309.868 ft	87.373 ft	12.000 ft	44
309.868 ft	137.659 ft	12.000 ft	45
309.868 ft	187.519 ft	12.000 ft	46
309.868 ft	237.720 ft	12.000 ft	47
309.868 ft	287.483 ft	12.000 ft	48
309.868 ft	337.385 ft	12.000 ft	49
309.828 ft	462.522 ft	12.000 ft	50
309.828 ft	537.420 ft	12.000 ft	51
309.828 ft	612.617 ft	12.000 ft	52
14.875 ft	630.109 ft	12.000 ft	53
14.835 ft	565.067 ft	12.000 ft	54
14.875 ft	500.050 ft	12.000 ft	55
185.037 ft	24.922 ft	12.000 ft	56
260.864 ft	24.922 ft	12.000 ft	57
14.875 ft	304.823 ft	12.000 ft	70
14.875 ft	240.114 ft	12.000 ft	71
14.875 ft	175.075 ft	12.000 ft	72
14.875 ft	109.949 ft	12.000 ft	73

evo

DIALux

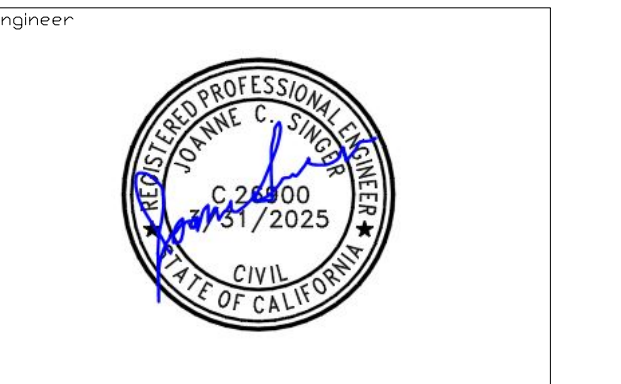
Site 1
Luminaire layout plan

X	Y	Mounting height	Luminaire
110.846 ft	325.113 ft	12.000 ft	74
34.962 ft	325.127 ft	12.000 ft	75
319.686 ft	650.135 ft	12.000 ft	76

PHOTOMETRIC DATA

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.
CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF DRP ENTERPRISES, LLC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE FOR WHICH THEY HAVE BEEN SUPPLIED OR PREPARED.
THESE DRAWINGS SHALL NOT BE REPRODUCED, COPIED OR TRACED WITHOUT THE WRITTEN CONSENT OF DRP ENTERPRISES, LLC.
COPYRIGHT © 2022

No.	Revision / Issue	Drawn by	Checked by	Date



Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

NTC

Project Number & Sheet Number

ES.4