

KEYED SINGLE LINE DIAGRAM NOTES:

1. VERIFY WITH MANUFACTURER FOR ELECTRICAL INSTALLATION REQUIREMENTS. PROVIDE FUSE/DISCONNECT PER RECOMMENDATION IF NOT BUILT-IN.
2. VERIFY EXACT LOCATION WITH ARCHITECT/OWNER AND PROVIDE NEMA 3R ENCLOSURE RATING MIN. IF OUTDOOR.

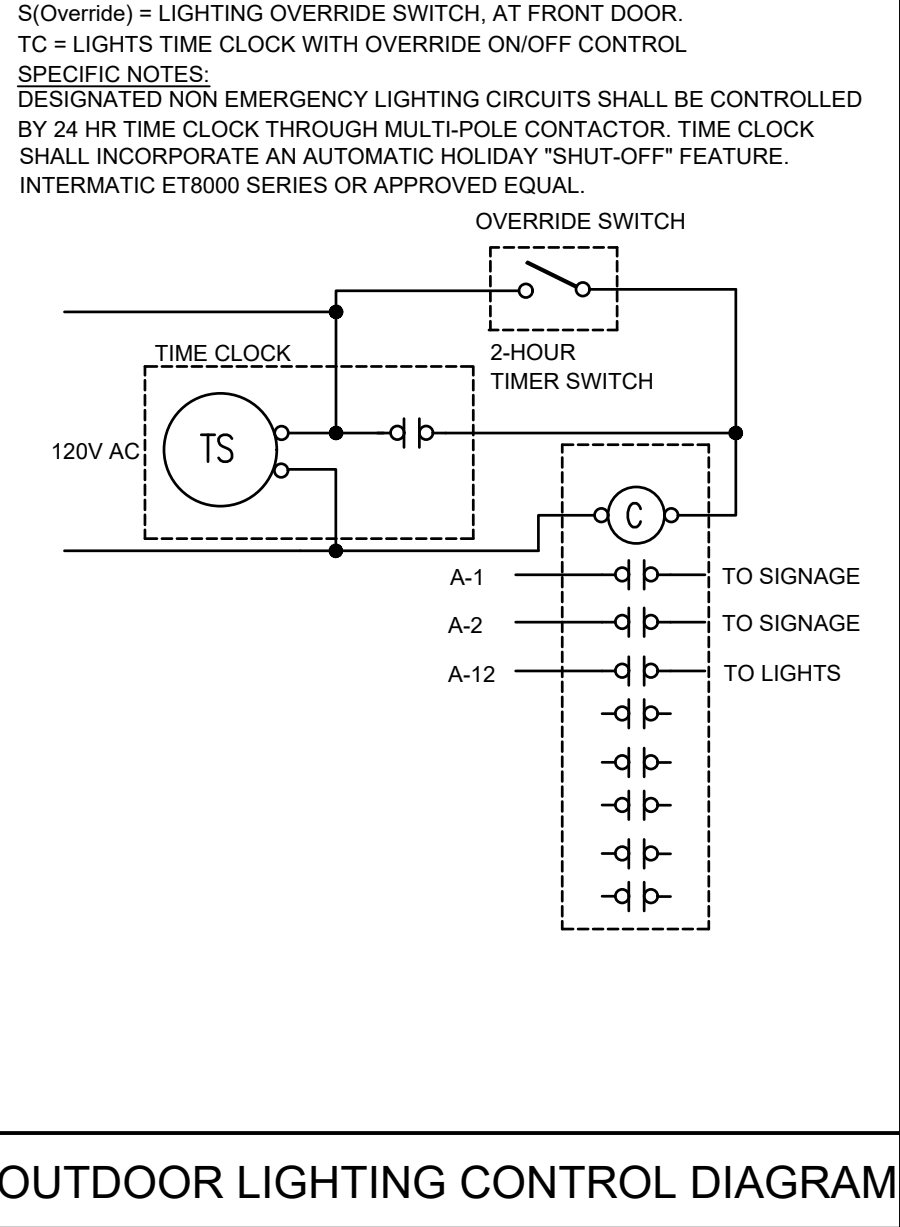
PANEL "A"														
VOLTS:120/240V			PHASE: 1			SHORT CIRCUIT RATING: 10000A			MAIN: 200A C.B.					
MOUNTING: SURFACE			WIRE: 3			ENCLOSURE: NEMA3R RATED MIN.			BUSSING: 200A					
LOAD	*	A-VA	B-VA	BKR	CT	CT BKR	A-VA	B-VA	*	LOAD				
PRIMARY SIGNAGE	C	1200		20/1	1									
SECONDARY SIGNAGE	C		1200	20/1	2									
TIME CLOCK	C	200		20/1	3									
SPARE				20/1	4									
SPARE				20/1	5									
SPARE				20/1	6									
SPARE				20/1	7									
SPARE				20/1	8									
SPARE				20/1	9									
SPARE				60/2	10									
SPARE				---	11									
LANDSCAPE LIGHTING (XFMR)	L		1150	20/1	12									
SUBFEEDING PANEL "B"	P	8820		100/2	13									
-----	P		8700	---	14									
(2) IRRIGATION	N	1400		(2)20/1	15									
(2) IRRIGATION	N		1200	(2)20/1	16									
IRRIGATION	N	600		20/1	17									
SPARE				20/1	18									
PV SYSTEM				60/2	19									
					20									
PHASE TOTALS:		12220	12250	24470 =TOTAL CONNECTED LOAD,VA (FOR DEMAND LOAD SEE BELOW)										
PHASE AMPERES:		101.8	102.1											
*DEMAND LOAD CALCULATION:														
L=LIGHTING LOADS:		1.25	X	2070	=	2588	VA	<div>NOTES:</div> <div>- EMPTY LOAD: SPACE</div> <div>- SHADED GRAY TEXT: EXISTING TO REMAIN</div> <div>- PROVIDE SPLIT PHASE BREAKERS AS NECESSARY</div>						
C=CONTINUOUS LOADS, OTHER:		1.25	X	3100	=	3875	VA							
M=MOTOR LOADS (INCL LGST):		1.00	X	8960	=	8960	VA							
LARGEST, VA:		0.25	X	0	=	0	VA							
R=RECEPTACLES: 1ST 10K:		1.00	X	3420	=	3420	VA							
BALANCE:		0.50	X	0	=	0	VA							
K=KITCHEN LOADS: QTY: 0		1.00	X	820	=	820	VA							
N=NONCONTINUOUS LOADS, OTHER:		1.00	X	6100	=	6100	VA							
(P=PANEL, INCL. IN ABOVE)		TOTAL N.E.C. DEMAND LOAD					=					25763	VA =	107.3 AMPERES

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	LAMP	VOLT	WATT
"L1"	LED STRIP LIGHT FIXTURE, DIMMABLE STRIP: MANUFACTURER TBD, MOUNT: CORE LIGHTING ALP-230N	LED	120	3W/FT
"L2"	LED RECESSED DOWNLIGHT, DIMMABLE PROVIDE OUTDOOR RATED FIXTURE FOR OUTDOOR LIGHTS, MANUFACTURER TBD	LED	120	15W
"L3"	LED WALL MOUNTED EXTERIOR LIGHT, DIMMABLE MANUFACTURER TBD	LED	120	20W
"EM"	EMERGENCY LED LIGHT WITH 90 MINUTES BATTERY PACK LITHINIA EU2L (WALL), ELINZ (CEILING) SERIES OR EQUIVALENT	---	120	---
"X"	LED EXIT SIGN WITH 90 MINUTES BATTERY PACK LITHINIA EXR LED M6 OR EQUIVALENT	---	120	---
NOTES:				
1. FIXTURE SHALL HAVE MIN. OF 10 YEARS MANUFACTURER WARRANTY ON ALL COMPONENTS.				
2. FIXTURES SHALL HAVE APPROPRIATE U.L. LABEL (i.e., DAMP OR WET) AS REQUIRED BY CODES AND ORDINANCES.				
3. FIXTURES SHALL INCLUDE ALL ACCESSORIES FOR INSTALLATION ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND AS REQUIRED BY CODES AND LOCAL ORDINANCES.				
4. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.				
5. ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE AND SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP(S) AND BALLAST(S).				
6. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.				
7. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS.				
8. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.				
9. ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE U.L. AND CBM LABELS. ALL BALLASTS MUST CONFORM TO IECQ REQUIREMENTS FOR PERFORMANCE. PROVIDE MULTIPLE BALLASTS FOR DUAL-LEVEL SWITCHING AND WIRING AS INDICATED ON THE PLANS.				
10. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS, ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.				
11. PROVIDE CLEARANCES FROM COMBUSTIBLES, A MINIMUM OF 6" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.				

120V, SINGLE PHASE, MAX 3% VOLTAGE DROP						
LENGTH OF RUN						
	25'	50'	100'	150'	200'	AMP LOAD
COPPER	14	12	10	8	6	15 AMP
COPPER	12	12	8	6	4	20AMP
COPPER	10	10	6	4	4	30 AMP
COPPER	1	1	1	2/0	4/0	100 AMP
ALUMINUM	1/0	1/0	2/0	4/0	300	100 AMP
COPPER	3/0	3/0	3/0	300	500	200 AMP
ALUMINUM	250	250	300	600	900	200 AMP
NOTE:						
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.						

EMERGENCY EXIT ILLUMINATION NOTES:

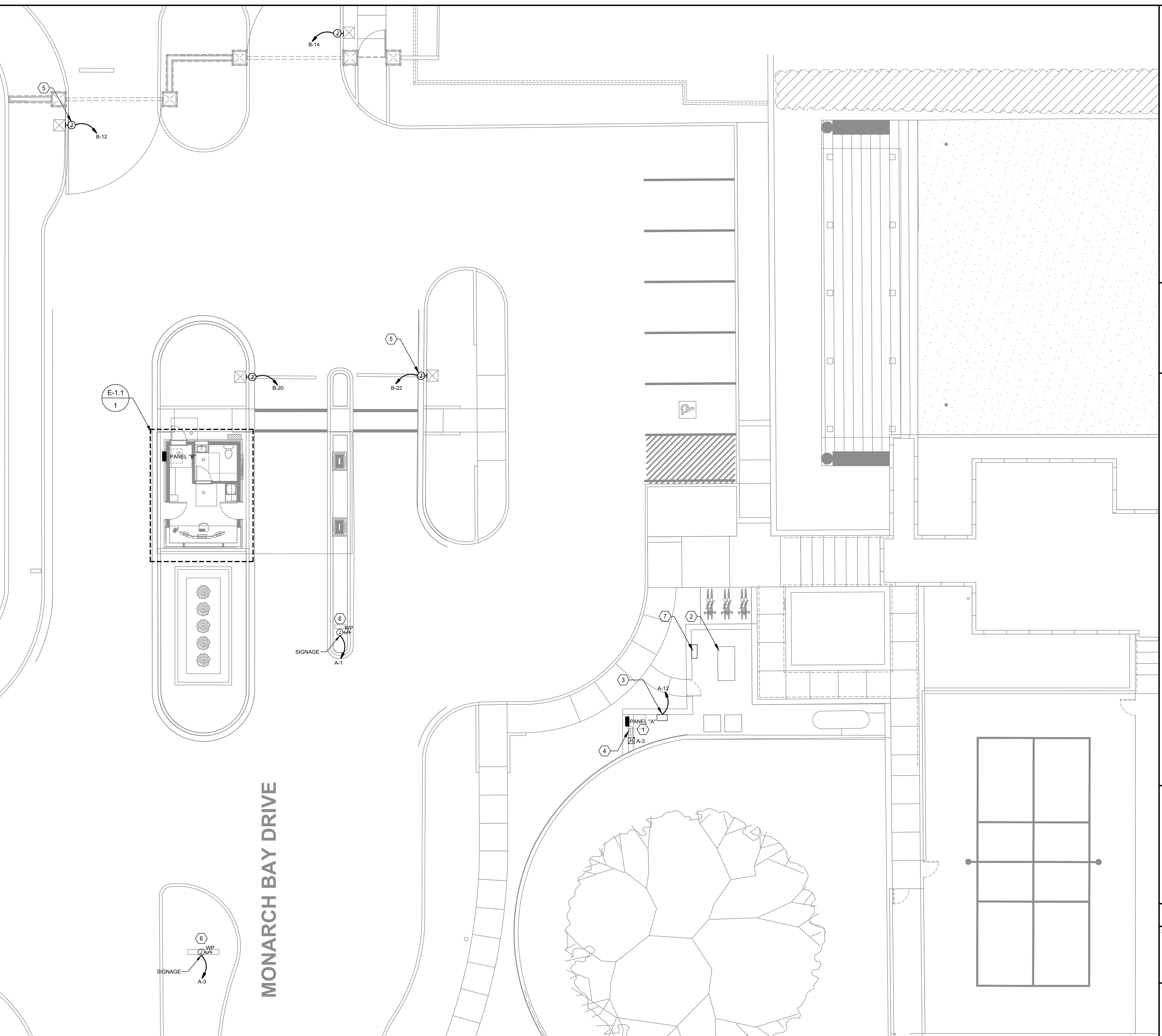
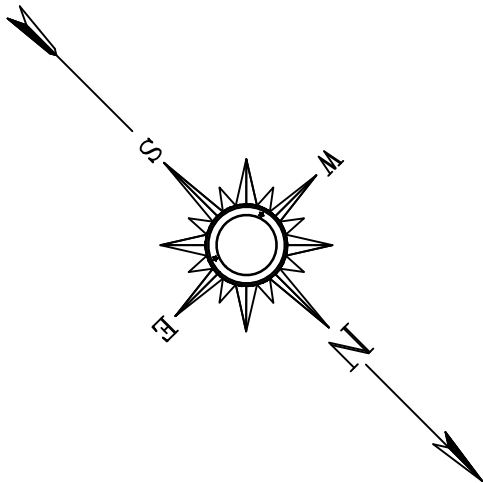
1. FIXTURES WITH 90 MIN. EMERGENCY BATTERY BACKUP SHALL BE WIRED AHEAD OF ANY LOCAL IN COMPLIANCE WITH NEC ARTICLE 700.
2. EMERGENCY LIGHTING UNITS SHALL BE EQUIPPED WITH FACTORY INSTALLED INTEGRAL TEST SWITCHES.
3. ILLUMINATION LEVELS IN THE ENTIRE EXIT ACCESS SHALL HAVE AVERAGE MINIMUM OF 1FT CANDLE. ILLUMINATION LEVELS AT ANY ONE POINT SHALL BE AT LEAST 0.1FT CANDLE AND MAX TO MIN UNIFORM RATIO OF 40 PER CFC1008.3.5.
4. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702. CBC 1008.3.4.
5. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH CHAPTER 27.
6. EXIT AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGN TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. INTERVENING MEANS OF EGRESS DOORS WITH EXITS SHALL BE MARKED BY EXIT SIGNS. CBC 1013.1.
7. THE BOTTOM OF THE SIGN SHALL NOT BE LESS THAN 6 INCHES OR MORE THAN 8 INCHES ABOVE THE FLOOR LEVEL AND SHALL INDICATE THE PATH OF EXIT TRAVEL. FOR EXIT AND EXIT ACCESS DOORS, THE SIGN SHALL BE ON THE DOOR OR ADJACENT TO THE DOOR WITH THE CLOSEST EDGE OF THE SIGN OR MARKER WITHIN 4 INCHES OF THE DOOR FRAME.
8. TACTILE EXIT SIGNS SHALL BE PROVIDED WITH APPROPRIATE WORDS AT EXIT DOORS LEADING TO ENCLOSED EXIT STAIRWAYS AND EXIT DOORS LEADING TO OUTSIDE. CBC 1013.4.





- # KEYED POWER PLAN NOTES:
1. RELOCATED PANEL. COORDINATE EXACT LOCATION FOR ELECTRICAL EQUIPMENTS WITH ARCHITECT AND PROVIDE MINIMUM CLEARANCE PER SECTION 110.26 OF NATIONAL ELECTRICAL CODE, 2017 EDITION.
  2. GUARD HOUSE 24KW (MIN.) GENERATOR. VERIFY EXACT ELECTRICAL INSTALLATION REQUIREMENTS WITH MANUFACTURER AND PROVIDE PER RECOMMENDATION.
  3. 120V - 12V TRANSFORMER FOR LANDSCAPE LIGHTING FIXTURES THROUGHOUT. REFER TO ARCHITECTURAL LIGHTING LAYOUT PLAN FOR MORE INFO.
  4. LANDSCAPE LIGHTING CONTROL BOX. MANUFACTURER TBD.
  5. TYP. GATE ARM OPENER. VERIFY INSTALLATION REQUIREMENTS WITH MANUFACTURER AND PROVIDE PER RECOMMENDATION.
  6. WIRE THRU CONTACTOR & TIME CLOCK FOR SIGNAGE LIGHTING CONTROL.
  7. PROVIDE AUTOMATIC TRANSFER SWITCH PER MANUFACTURER INSTALLATION REQUIREMENTS. LOCATION TO BE COORDINATED WITH ARCHITECT.

- GENERAL NOTES:
1. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.
  2. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASE, UTILITY SPACES OR ABOVE CEILING.
  3. WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
  4. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NEC.
  5. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE 2019 EDITION.
  6. IF DRAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, E.C. SHALL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.
  7. SIGNAGE WILL REQUIRE SEPARATE PERMIT AND SUBMITTAL.
  8. PROVIDE LOCAL DISCONNECT FOR SIGNAGE. THE DISCONNECT SHALL BE LOCATED AT THE POINT THE FEEDER CIRCUIT OR BRANCH CIRCUIT(S) SUPPLYING A SIGN IN ACCORDANCE WITH 600.5(C)(3). THE DISCONNECT SHALL OPEN ALL UNDERGROUND CONDUCTORS WHERE IT ENTERS THE ENCLOSURE OF THE SIGN OR POLE.



**CDI** Circa Domini International, Inc.  
Programming - Planning - Architecture - Interiors - Engineering  
16520 BAKE PKWY IRVINE, CA  
Phone: (949) 336-6636 Fax: (949) 336-6636

**REGISTERED PROFESSIONAL**  
*Paul J. Khan*  
No. E17378  
Exp. 09/30/22  
ELECTRICAL  
STATE OF CALIFORNIA

**MONARCH BAY**

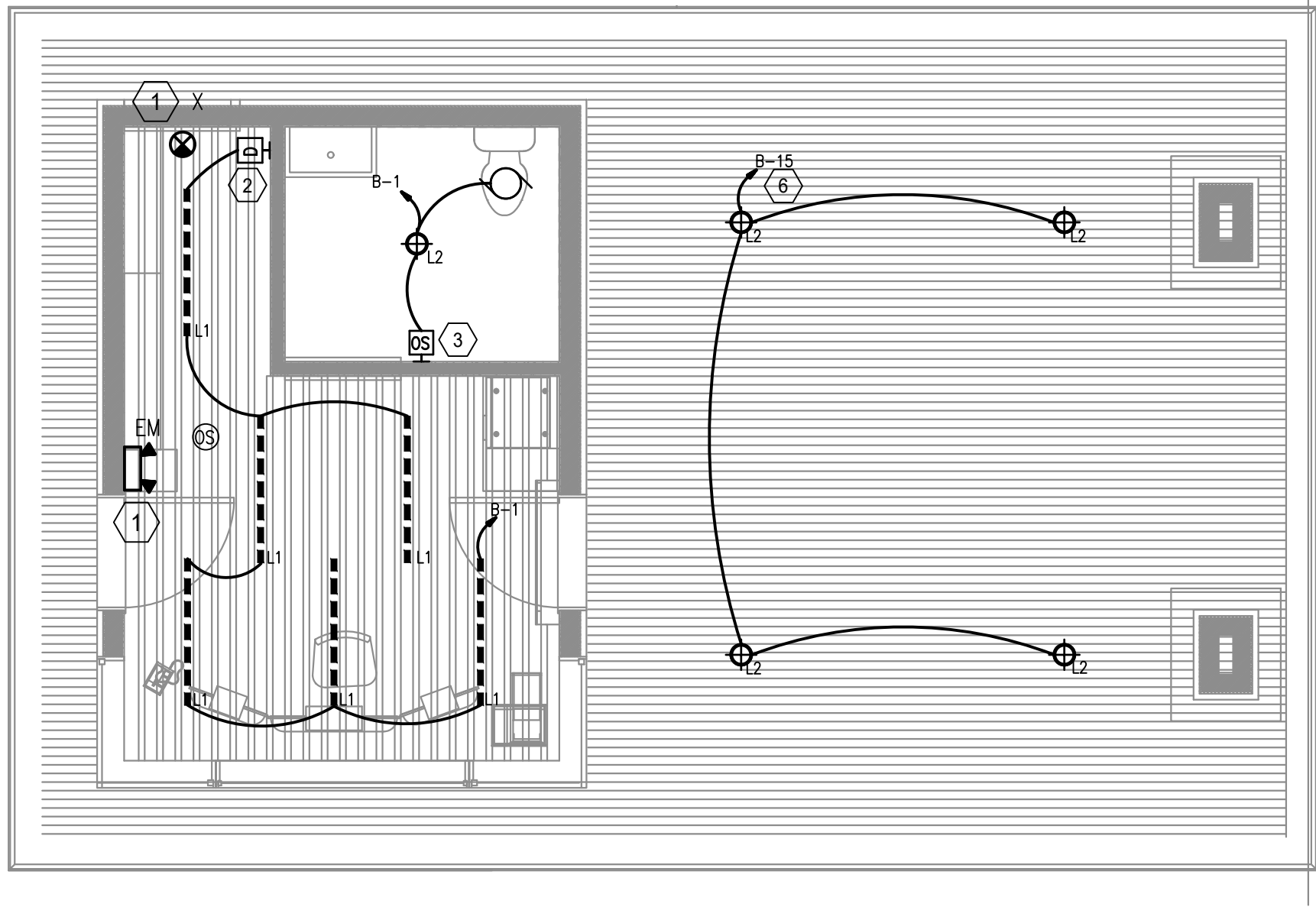
MONARCH BAY DRIVE  
DANA POINT, CA 92629

REVISION
1
2
3
4
5

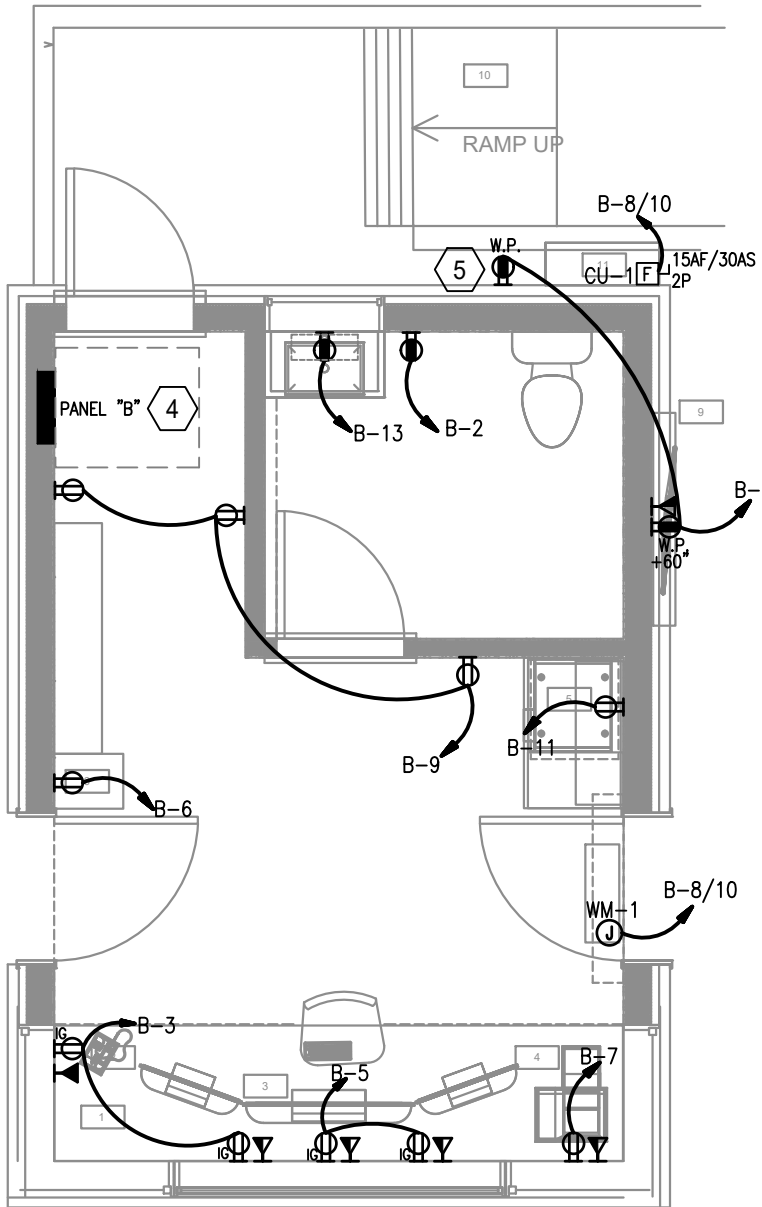
DATE: 4/12/2021 SCALE: 1/8" = 1'-0"

SHEET TITLE: SITE PLAN

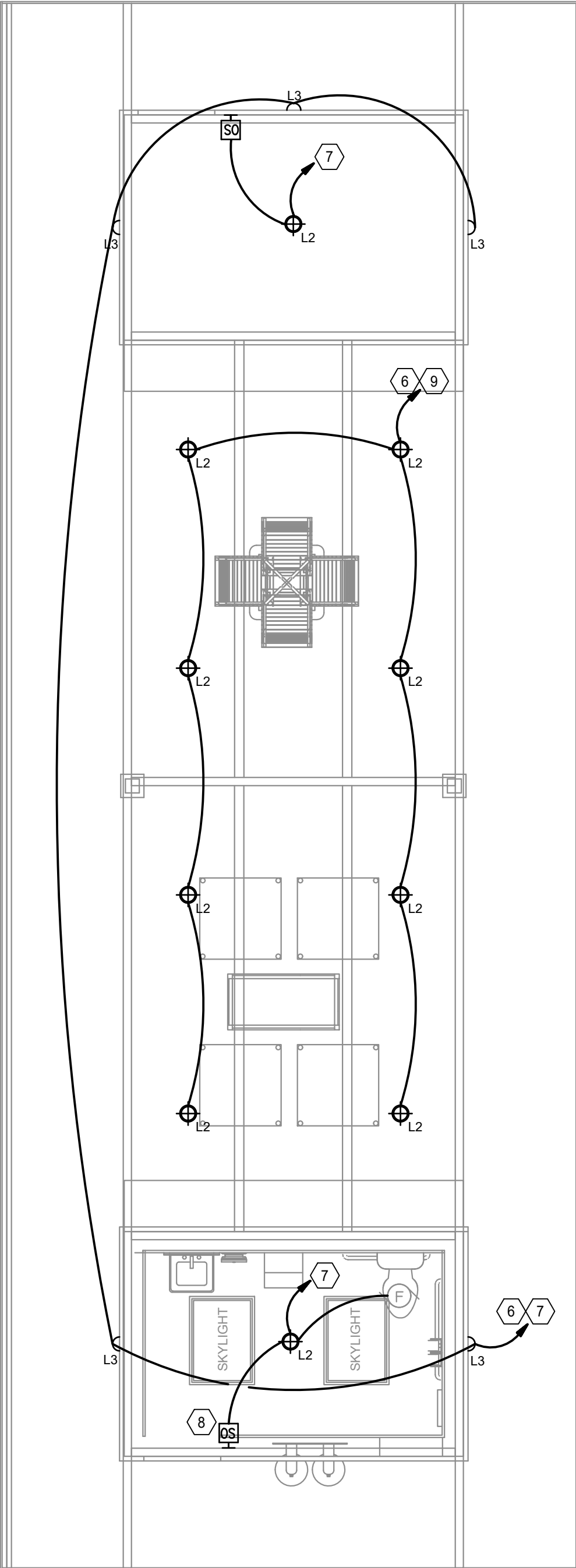
SHEET NO.: **E-1.0**



LIGHTING PLAN - ENLARGED GUARD HOUSE



POWER PLAN - ENLARGED GUARD HOUSE



LIGHTING PLAN - ENLARGED PAVILION

# KEYED PLAN NOTES:

1.

CONTRACTOR SHALL CONNECT EMERGENCY/NL AND EXIT FIXTURES TO NEARBY ROOM LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH.

2.

G.C. TO VERIFY FINAL LOCATION OF SWITCH/DIMMER BANK WITH THE OWNER'S P.M.

3.

INTERLOCK REST RM LIGHT WITH EXHAUST FAN. PROVIDE MANUAL MOTOR STARTER AT FAN MOTOR.

4.

COORDINATE EXACT LOCATION FOR ELECTRICAL EQUIPMENTS IN FIELD WITH G.C. AND PROVIDE MINIMUM CLEARANCE PER SECTION 110.26 OF NATIONAL ELECTRICAL CODE, 2017 EDITION.

5.

PROVIDE GFI/WATERPROOF/WEATHER RESISTANT RECEPTACLE WITHIN 25FT OF HEATING, AC, AND REFRIGERATION EQUIPMENT.

6.

WIRE THROUGH PHOTOCELL AND MOTION SENSOR OR ASTRONOMICAL TIME CLOCK FOR ALL EXTERIOR LIGHT FIXTURES PER 2019 BEES SEC. 130.2.

7.

EXISTING LIGHT FIXTURES TO BE REPLACED WITH LED FIXTURES. EXISTING CIRCUIT TO REMAIN AS-IS. FIXTURE REPLACEMENT ONLY.

8.

INTERLOCK REST RM LIGHT WITH EXHAUST FAN IF NOT ALREADY EXISTING.

9.

NEW LIGHT FIXTURE TO BE CONNECTED TO EXISTING WALL MOUNTED LIGHTING CIRCUITS.

NOTES:  
DAYLIGHT CONTROL: COMBINED TOTAL GENERAL LIGHTING POWER IN PRIMARY SIDELIT DAYLIT ZONE IS LESS THAN 120 WATTS. NO DAYLIGHT CONTROL REQUIRED PER 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECT 130.1(D)2.

GENERAL NOTES:

1.

CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASE, UTILITY SPACES OR ABOVE CEILING.

2.

WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.

3.

CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NEC.

4.

ALL ELECTRICAL WORK SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE 2019 EDITION.

5.

IF DRAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, E.C. SHALL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.

6.

ALL LIGHT FIXTURE TYPES, SPECIFICATIONS, AND QUANTITIES ARE TO BE COORDINATED AND VERIFIED WITH ARCHITECT/OWNER.

7.

OBTAIN APPROVAL ON LOCATION OF SWITCH/DIMMER/SENSOR WITH ARCHITECT AND OWNER AT SITE PRIOR TO ROUGH-IN.

8.

COORDINATE LOCATIONS/HEIGHTS OF ALL RECEPTACLES FOR ELECTRICAL DEVICES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

9.

PROVIDE GFI PROTECTION AT ALL 125V, 15A OR 20A RECEPTACLES WITHIN 6' OF WATER SOURCES PER SECTION 210.8(D)(5) OF CALIFORNIA ELECTRICAL CODE, 2019 EDITION.

10.

ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.



REVISION				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
DATE: 4/12/2021				
SCALE: 1/4" = 1'-0"				
SHEET TITLE: ELECTRICAL PLAN- ENLARGED				
SHEET NO.: E-1.1				



STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 1 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

A. GENERAL INFORMATION

01 Project Location (city): DANA POINT

02 Climate Zone: 6

03 Occupancy Types Within Project (select all that apply):

04 Total Conditioned Floor Area (ft²): 189

05 Total Unconditioned Floor Area (ft²):

06 # of Stories (Habitable Above Grade):

07 Office

08 Retail

09 Warehouse

10 Hotel/Motel

11 School

12 Support Areas

13 Parking Garage

14 High-Rise Residential

15 Relocatable

16 Healthcare

17 Other (write in): GUARD HOUSE

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0002 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

01 My Project Consists of (check all that apply):

02 Calculation Method

03 Area (ft²)

04 Calculation Method

05 Area (ft²)

06 Add Parking Garage-Complete Bldg Method

07 Remove Parking Garage

08 Add Altered Lighting System

09 Remove Last Altered System

10 Total Area of Work (ft²): 189

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01 Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b).

02 Complete Building §140.6(c)1

03 Area Category §140.6(c)2

04 Area Category Additional §140.6(c)3a

05 Tailored §140.6(c)3

06 Total Allowed (Watts)

07 Adjusted Lighting Power per §140.6(b) (Watts)

08 Compliance Results

09 05 Must be ≥ 08 §140.6

10 Conditioned: (See Table I) 87.6 (See Table J) 87.6 ≥ 85 (See Table P) 85

11 Unconditioned: (See Table I) 87.6 (See Table J) 87.6 ≥ 85 (See Table P) 85

12 Table Continued

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 2 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table H Indoor Lighting Controls Permit Applicant Notes:

GUARD HOUSE: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

RESTROOM: RESTROOM, N/A.

Selections made in Table T have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag

02 Complete Luminaire Description

03 Modular (Track) Fixture

04 Small Aperture & Color Change

05 Watts per luminaire<sup>1</sup>

06 How Wattage is determined

07 Total number luminaires

08 Exempt per §140.6(a)3

09 Design Watts

10 Field Inspector

11 Pass

12 Fail

13 L1 LED STRIP LIGHT FIXTURE

14 L2 LED RECESSED DOWNLIGHT

15 3 Mfr. Spec<sup>2</sup>

16 24 Mfr. Spec<sup>2</sup>

17 1 Mfr. Spec<sup>2</sup>

18 72

19 13

20 13

21 Total Designed Watts CONDITIONED SPACES: 85

22 Reset

23 Add Row

24 Remove Last

<sup>1</sup> FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

<sup>2</sup> Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 3 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a \* is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

01 Mandatory Demand Response §130.12(c)

02 Shut-Off Controls §130.1(c)

03 Field Inspector

04 Pass

05 Fail

06 Not Required ≤ 10,000 SF

07 See Area/Space Level Controls

08 Area Level Controls

09 Area Description

10 Complete Building or Area Category Primary Function Area

11 Area Controls §130.1(a)

12 Multi-Level Controls §130.1(b)

13 Dimmer

14 Shut-Off Controls §130.1(c)

15 Occ. Sensor

16 Exempt\*

17 Primary/Skylit Daylighting §130.1(d)

18 Secondary Daylighting §140.6(d)

19 Interlocked Systems §140.6(a)1

20 Field Inspector

21 Pass

22 Fail

23 GUARD HOUSE All Other Space Types

24 RESTROOM Restroom

25 Manual ON/OFF

26 Exempt\*

27 Occ. Sensor

28 Exempt\*

29 Exempt\*

30 Exempt\*

31 Plan Sheet Showing Daylit Zones:

32 GUARD HOUSE Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

33 RESTROOM RESTROOM, N/A.

34 Reset

35 Add Row

36 Remove Last

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 4 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 5 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www2.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCL/](https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/)

YES NO Form/Title Field Inspector

1 NRCH-LTI-01-E - Must be submitted for all buildings

2 NRCH-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

3 NRCH-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.

4 NRCH-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

5 NRCH-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 6 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/atttcp/providers.html>

YES NO Form/Title Field Inspector

1 NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

2 NRCA-LTI-03-A - Must be submitted for automatic daylight controls.

3 NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.

4 NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).

5 NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: MONARCH BAY

Report Page: Page 7 of 7

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 9/15/2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Minh Tran

Company: CDI

Address: 16520 BAKE PARKWAY, SUITE 100

City/State/Zip: IRVINE, CA 92618

Documentation Author Signature: Minh Tran

Signature Date: 9/15/2020

CEA/HERS Certification Identification (if applicable):

Phone: 949-336-6636

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Minh Tran

Company: CDI

Address: 16520 BAKE PARKWAY, SUITE 100

City/State/Zip: IRVINE, CA 92618

Responsible Designer Signature: Minh Tran

Date Signed: 9/15/2020

License: E17378

Phone: 949-336-6636

Add Responsible Person

CDI Circa Domini International, Inc.  
Programming - Planning - Architecture - Interiors - Engineering  
16520 BAKE PARKWAY IRVINE, CA  
Phone: (949) 336-6636 Fax: (949) 336-6636

MONARCH BAY  
MONARCH BAY DRIVE  
DANA POINT, CA 92629

REVISION					

DATE: 4/12/2021

SCALE: N.T.S.

SHEET TITLE:

TITLE 24-INDOOR

SHEET NO.:

E-2.0



STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.5, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.

Project Name: MONARCH BAY

Report Page: Page 1 of 6

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 4/27/2021

A. GENERAL INFORMATION

01 Project Location (city) DANA POINT

04 Total Illuminated Hardscape Area (ft²) 2,293

02 Climate Zone 6

03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):

LZ-0: Very Low - Undeveloped Parkland

LZ-2: Moderate - Rural Areas

LZ-4: High - Must be reviewed by CA Energy Commission for Approval

LZ-1: Low - Developed Parkland

LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.

My project consists of:

01 New Lighting System

Must Comply with Allowances from §140.7.

02

Is your alteration increasing the connected lighting load (Watts)?

Yes

No

03

04

05

% of Existing Luminaires Being Altered¹

Sum Total of Luminaires Being Added or Altered

Calculation Method

¹FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any call on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)

Compliance Results

01

02

03

04

05

06

07

08

09

General Hardscape Allowance §140.7(a)(1)

Per Application §140.7(a)(2)

Sales Frontage §140.7(a)(2)

Ornamental §140.7(a)(2)

Per Specific Area §140.7(a)(2)

OR

Existing Power §141.0(b)(2)

OR

Total Allowed (Watts)

≥

Total Actual (Watts)

07 Must be ≥ 08

526.39

+

+

+

+

+

OR

=

526.39

≥

280

COMPLIES

Cutoff Compliance (See Table G for Details)

Not Applicable

Controls Compliance (See Table H for Details)

COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.5, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.

Project Name: MONARCH BAY

Report Page: Page 4 of 6

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 4/27/2021

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRC/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/)

YES

NO

Form/Title

Field Inspector

Pass

Fail

NRCC-LTO-01-E - Must be submitted for all buildings.

NRCC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.5, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.

Project Name: MONARCH BAY

Report Page: Page 2 of 6

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 4/27/2021

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per luminaire¹²

How Wattage is determined

Total number luminaires²

Luminaire Status³

Excluded per §140.7(a)

Design Watts

Cutoff Req. ≥ 6,200 Initial lumen output §130.2(b)¹

Pass

Fail

L2 LED RECESSED DOWN

Linear

15

Mfr. Spec³

12

New

180

NA: <6,200 lum

L3 LED WALL MOUNTED

Linear

20

Mfr. Spec³

5

New

100

NA: <6,200 lum

Total Designed Watts: 280

Reset

Add Row

Remove Last

¹NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).  
²FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c).  
³ For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.  
⁴ Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.  
⁵ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.5, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.

Project Name: MONARCH BAY

Report Page: Page 5 of 6

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 4/27/2021

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

YES

NO

Form/Title

Field Inspector

Pass

Fail

NRCC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.5, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.

Project Name: MONARCH BAY

Report Page: Page 3 of 6

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 4/27/2021

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.  
When an option having a \* is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt\* from the dropdown list to indicate not applicable or an exemption.

Mandatory Controls

01

02

03

04

05

Area Description

Shut-Off §130.2(c)1

Auto-Schedule §130.2(c)2

Motion Sensor §130.2(c)3

Field Inspector

HARDSCAPE

Astronomical Timer

Yes

NA: Wall ≤ 24ft

Pass

Fail

Reset

Add Row

Remove Last

¹NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.  
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

General Hardscape Allowance

Per Application

Sales Frontage

Ornamental

Per Specific Area

Table I (below)

Table J

Table K

Table L

Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02

03

04

05

06

07

08

09

10

Area Description

Surface Type

Illuminated Area (ft²)

Area Wattage Allowance (AWA) (W/ft²)

Area Allowance (Watts)

Perimeter Length (lf)

Linear Wattage Allowance (LWA) (W/lf)

Linear Allowance (Watts)

Total General AWA + LWA (Watts)

HARDSCAPE

Concrete

2,293

0.03

68.79

269

0.4

107.6

176.39

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.5, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.

Project Name: MONARCH BAY

Report Page: Page 6 of 6

Project Address: MONARCH BAY DRIVE, DANA POINT, CA 92629

Date Prepared: 4/27/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Minh Tran

Documentation Author Signature: Minh Tran

Company: CDI

Signature Date: 0/00/0000

Address: 16520 BAKE PARKWAY, SUITE 100

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: IRVINE, CA 92618

Phone: 949-336-6636

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Minh Tran

Responsible Designer Signature: Minh Tran

Company: CDI

Date Signed: 0/00/0000

Address: 16520 BAKE PARKWAY, SUITE 100

License: E17378

City/State/Zip: IRVINE, CA 92618

Phone: 949-336-6636

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

CDI Circa Domini International, Inc.  
Programming - Planning - Architecture - Interiors - Engineering  
16520 BAKE PKWY IRVINE, CA  
Phone: (949) 336-6636 Fax: (949) 336-6636

MONARCH BAY  
MONARCH BAY DRIVE  
DANA POINT, CA 92629

REVISION

DATE:  
4/12/2021

SHEET TITLE:

TITLE 24-  
OUTDOOR

SHEET NO.:

E-2.1