(Page 7 of 13)

§140.4(n)

NA: No operable windows

Provided

Provided

Registration Provider: Energysoft

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3

§120.1(d)5, and §120.1(e)3 6

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3,

§120,1(d)5, and §120.1(e)3 6

DCV

NA: Not required per

§120.1(d)3

NA: Not required

NA: Not required per

§120.1(d)3

NA: Not required space type

Registration Provider: Energysoft

Report Generated: 2022-04-06 08:47:50

CALIFORNIA ENERGY COMMISSION

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3,

NA: Not required per

§120.1(d)3

NA: Not required

space type

§120.1(d)5, and §120.1(e)3 6

DCV

Occ Sensor

Ventilation for this System Complies?

NRCC-MCH-I

(Page 9 of 13

NRCC-MCH-E

(Page 8 of 13)

4/6/2022

TITLE 24 DOCUMENTATION

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE Charter Headend Yucca Valley Report Page: 6720 La Contenta Rd. Date Prepared: I. SYSTEM CONTROLS his table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b) 2E for altered pace conditioning systems. Shut-Off Floor Area System Name §110.2(b) & (c)1, Controls Temp. Reset Being Served Controls Zoning §110.12 and §120.2(b) \$120.2(a)or \$141.0(b)2E §120.2(e) §140.4(f) NA: Eq. type per 110.2(c NA: Single Continuous NA: PTAC, PTHP, Rm AC, HI Marv Air 6 ton AC Single zone <= 25,000 ft2 per exception¹ 120.2(e)1 Heat/Cool Auto Timer 4 Hour Timer Single zone <= 25,000 ft² Switch Auto Timer **EMCS** Heat only restroom Single zone <= 25,000 ft² Setback 4 Hour Timer Included Switch FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats. *Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: 5A Temp Reset: Exempt because zones compliant with 5140.4(d): EXCEPTION 1 to §140.4(f) . VENTILATION AND INDOOR AIR QUALITY is table is used to demonstrate compliance with mandatory ventilation requirements in <u>\$120.1</u> and <u>\$120.2(e)3B</u> for all nonresidential, high-rise residential and hotel/motel cupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required utdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet. Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. ☐ Check this box if the project included new or altered high-rise residential dwelling units. Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2. Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-04-06 08:47:50 Schema Version: rev 20190401 STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE Charter Headend Yucca Valley Report Page: roject Name: Project Address: 6720 La Contenta Rd. Date Prepared:

ystem Design OA CFM

conditioned |# of Shower

toilets

Floor Area heads/

Airflow¹

Floor Area heads/

System Design OA CFM

Conditioned # of Shower

toilets

Floor Area heads/

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

Mechanical Ventilation Required per §120.1(c)3

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

toilets

Mechanical Ventilation Required per §120.1(c)

(ft²)

1258

Mechanical Ventilation Required per §120.1(c)3

(ft²)

10 11 12 13 14

of

people⁵

of

people5

Charter Headend Yucca Valley Report Page

10 11 12 13 14

people⁵

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only

ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing

6 5120.2(e)3 requires systems serving rooms that are required by 5130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.

Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles

6720 La Contenta Rd. Date Prepared

System Design

Transfer Air CFM

Min OA Min CFM

Transfer Air CFM

Min OA Min CFM

CFM

Registration Date/Time:

Report Version: 2019.1.003

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System Design

Transfer Air CFM

Min OA Required Min CFM

CFM

CFM

Required Provided per Design

CFM

0 18 Ventilation for this System Complies?

0 18 Ventilation for this System Complies?

Provided per Design

CFM

Exh. Vent per §120.1(c)4

Required Provided per Design

Registration Nu	umber:					Registrat	tion Date/Time	#	Re	gistration Provider: Energysoft	
CA Building End	ergy Efficiency Standar	ds - 2019 Nor	nresidenti	al Complian	ce	1, POSC 14, AND STATE	ersion: 2019.1 Version: rev 20		Report Ge	enerated: 2022-04-06 08:47:50	
	^{RNIA} al Systems								CAUSE	DRNIA ENERGY COMMISSION	
NRCC-MCH-E CERTIFICATE OF	COMPLIANCE								CALIFO	NRCC-MCH-E	
Project Name:	CONFLIANCE				Charter Headend	Vacca Valloy	Poport Page:			(Page 5 of 13)	
Project Address							Date Prepared	45.		4/6/2022	
vjecs Audress	**				07 Z0 La	CONTENTED TAU.	Jule (Tepate)			7/0/2022	
E 10/10 0:10		DV 6 1115	C) (CTF)	(C)							
	TEM SUMMARY (D	KY & WET	SYSTEM	15)							
Electric Resist	NIKA BERMAA SIGNASTA										
	01		(02	03		04				
r	Name or Item Tag			pment ription	Output Capacity (kW)		Applicable Exception to 5140.4(g) Allowing Electric Resistance Heating			nce Heating	
Н	leat only restroom		Ot	her	0		exception1: Supplement to a heating system in which at least 60% of the annual energy requirement is supplied by site-solar or recovered energy.				
G. PUMPS	-		1211	-						1	
This table is us	sed to demonstrate c	ampliance v	with Pres	crintive hy	dronic system r	requirements	s found in 51	10 4(k) applicable to	numns < 5hn		
01	02	omphance v	03	04	05	equiverne ne.	06		07	08	
			- 00					Controls per	(2)	100	
Name or Item Tag	Equipment	Туре	Qty	НР	Variable Flo	ow Hy	Hydronic Heat Pump Isolation		VSD on Pumps > 5HP	Differential Pressure Sensor	
H. FAN SYSTE	EMS & AIR ECONO	MIZERS									
This table is us		ompliance v				nd in <u>§140.4</u>	(c), <u>5140,4(e</u> ,	ond <u>§140.4(m)</u> for	fan systems. Fan systems servi	ing only process loads are	
System Name:	Marv Air 6 ton AC	Economiz	50	1980000	ial Enthalpy	100000000000000000000000000000000000000	Economizer Designed per §140.4(e) and Controls: (m)		System Fan Type:	Constant Volume	
01	02		03		04		05	06	07	08	
F N					D 1	45.00			Fan Power Pressure Drop	Adjustment - Table 140.4-B	
Fan Name or Item Tag	Fan Function	n	Qty	waximum	Design Supply (CFM)	Airtiow	HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)	
SF	Supply		7		30800		ВНР	0.1			

Charter Headend Yucca Valley Report Page:

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

Condition

(°F)

6720 La Contenta Rd. Date Prepared:

04

04

Rated Input Capacity

(Btu/h)23

<300,000

05

Minimum

Efficiency

Required per

Tables 110.2 /

Title 20

8.2

Rated

Efficiency

0.82

05 06

0.82

Heating Mode

System Name:	Marv Air 6 ton AC	Economizer:1	Differential Enthalpy	Econom	March 1	gned per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag Fan Function Qty		Mautinum Dacina Supulu Airffaire				Fan Power Pressure Drop Adjustment - Table 140.4		
		n Qty	Maximum Design Supply Airf (CFM)		HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply 7		30800		ВНР	0.1		
Total Sys	tem Design Supply A	rflow (CFM):	30800	The state of the s	ystem Design (B)HP:	0.7	Maximum System Fan Power (B)HP:	4.14

Registration Number:	Registration Date/Time:	Registration Provider: Energy
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2022-04-06 08:4

Charter Headend Yucca Valley Report Page

Project Address:				6720 La (Contenta Rd.	Date I	repared:			4/6/202
H. FAN SYSTEN	IS & AIR ECON	OMIZERS								
System Name:	CCU-1	Economizer	···¹ NA	A: <=54 kBtu/h cooling	Economi		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	0	3	04			05	06	07	08
Face Nicona and				Anning Design Consult	Ataflass		1		Fan Power Pressure Drop	Adjustment - Table 140.4-
Fan Name or Item Tag	Fan Functi	on Q	ty V	(CFM)	imum Design Supply Airflow (CFM)		HP Unit ² Design		Device	Design Airflow through Device (CFM)
SF	Supply		1	400		В	HP	0.1		
Total System	m Design Supply	Airflow (CFM):		400	Total Sy	stem [B)HP:)esign	0.1	Maximum System Fan Power (B)HP:	0.38
System Name:	Heat only restroom	Economizer	:1 NA	A: <=54 kBtu/h cooling	Economi Control	100.00	Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	0	3	04			05	06	07	08
Can Name on				Antiques Davies County	ATafla	111			Fan Power Pressure Drop	Adjustment - Table 140.4-F
Fan Name or	Fan Functi	on Q	ty IV	Maximum Design Supply	AIFTIOW	HP	Unit ²	Design HP	2000	Design Airflow through

lotal system besign supply Almow (CFM):	U	(B)HP:	U	Power (B)HP:
OOTNOTES: Computer room economizers must meet re	equirements of <u>§140.9(a)</u>	and will be documented on	the NRCC-PRC-E d	ocument.

¹ FOOTNOTES: Computer room economizers must meet requirements of §140.9(a)	and will be docum
² The unit used for HP must be consistent for all fans within a system.	

Supply

Total System Design Supply Airflow (CFM):

et t	he design	heating an	d cooling lo	ads of the l	building per	Į.
itior	sheet ta	bles.				
bla	nk.					

	Registration Date/Time:	Registration Provider: Energy
y Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2022-04-06 08:4

BHP

Total System Design

dda Faran aife	E A CAMPAGE CO
vider: Energysoft	Registration Number
2-04-06 08:47:50	CA Building Energy Efficiency St

Registration Number	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	

Registration Date/Time Registration Provider: Energysoft Report Version: 2019.1.003 Schema Version: rev 20190401

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a). §140.4(b) and §140.4(k) or §141.0(b)2 for alterations. Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) 04 05 06 07 08 09 10 11 Equipment Sizing per Mechanical Schedule (kBtu/h) 5140.4 (a&b) Cooling Output^{2,3} Load Calculations^{3,4} Heating Output^{2,3} Smallest Size Equipment Type per Tables 110.2 & Name or Item Equipment Category per Available1 Tables 110.2 Title 20 Rated Heating Per Design (kBtu/h) Load Rated Heating Cooling §140.4(a) (kBtu/h) (kBtu/h) Output (kBtu/h) (kBtu/h) (kBtu/h) (kBtu/h) Mary Air 6 ton 392.63 -3.07 14.79 Unitary Heat Pumps Air-cooled, split (3 phase) 43.4 NA: Load CCU-1 Unitary Heat Pumps Air-cooled, split (3 phase) 10.89 -0.44 1.02 Controls

Registration Date/Time:

Charter Headend Yucca Valley Report Page:

6720 La Contenta Rd. Date Prepared:

Report Version: 2019.1.003

Schema Version: rev 20190401

AC, air cooled, split (3 phase) Unitary AC/ Condensers Controls restroom FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to mee §140.4(a). Healthcare facilities are excepted. ²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specifical

3 If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load b ⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Mechanical Systems

A. GENERAL INFORMATION

03 Occupancy Types Within Project

☐ Hotel/Motel Guest Rooms (R-1)

☐ High-Rise Residential (R-2/R-3)

<u>\$140.4</u>, or <u>\$141.0(b)2</u> for alterations.

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Summary

§110.1,

5140.4

Mechanical Systems

CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS

D. EXCEPTIONAL CONDITIONS

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Address:

Tag

Heat only

Mechanical Systems

CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

5140.4(k)

Air System(s)

Mechanical Controls

Mechanical Controls (existing to remain, altered

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

01 Project Location (city)

02 Climate Zone

☐ Office (B)

path outlined in §140.4, or §141.0(b)2 for alterations.

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2022-04-06 08:47:50

Registration Number: CA Building Energy Efficiency S

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

CERTIFICATE OF COMPLIANCE

STATE OF CALIFORNIA

Name or Item

Tag

Mary Air 6 ton

CCU-1

Heat only

restroom

Boiler Efficiency and Controls

Name or Item Tag

no central heating plant

3 Includes oil-fired (residual)

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

1390

See Table .

Registration Provider: Energysoft

CALIFORNIA ENERGY COMMISSION

§110.2(e)2

NRCC-MCH-E

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ompliance Results

Registration Provider: Energysoft

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

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Air Economizer

☑ Electric Resistance Heat

Zonal Systems/ Terminal Boxes

□ Ductwork (existing to remain, altered or new)

(Page 1 of 13)

4/6/2022

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive

04 |Total Conditioned Floor Area

Total Unconditioned Floor Area

Non-refrigerated Warehouse (S

Healthcare Facility (I)

Other (write in)

6720 La Contenta Rd. Date Prepared:

This table Includes mechanical systems ar components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in

Water Economize

Pumps

☐ Chillers

■ Boilers

System Piping

☐ Cooling Towers

Wet System Components

Registration Date/Time:

Charter Headend Yucca Valley Report Page:

NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

Yes AND Yes AND

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

Controls

5110.2,

5140.4(f

(See Table I)

Mandatory Measures Compliance (See Table Q for Details

Fans/

5140.4(c),

§140.4(e)

6720 La Contenta Rd. Date Prepared:

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES

5120.1

(See Table J)

Controls

5140.4(d)

(See Table K)

\$120.3,

(See Table L

Report Version: 2019.1.003

Schema Version: rev 20190401

Charter Headend Yucca Valley Report Page:

Yucca Valley

Retail (M

Relocatable Class Bldg (i

Mechanical Systems

CERTIFICATE OF COMPLIANCE

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Size Category

(Btu/h)

<65,000

<65,000

<65,000

Equipment Type¹

Hot Water, Gas-Fired

¹FOOTNOTES: Use NRCC-PLB to document compliance with domestic water heating equipment.

²Maximum capacity- minimum and maximum ratings as provided for and allowed by the unit's controls

Device (CFM)

Vlaximum System Fan

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

(Page 6 of 13)

CALIFORNIA ENERGY COMMISSION

Cooling Mode

Minimum

Efficiency

Required per

Tables 110.2 /

Title 20

13.0

13.0

Boiler Controls per 5140.4(k)

Temperature Rese

NA: <=500,00 Btu/h

J. VENTILATION AND INDOOR AIR QUALITY

80

ot item Tag

System Nam

Space Name

ot item Tag

Command

Center

Registration Number:

STATE OF CALIFORNIA

oject Name:

Project Address

ystem Name

ot item Tag

Restroom

outside air to occupiable space.

K. TERMINAL BOX CONTROLS

4 See Standards Tables 120.1-A and 120.1-B.

This section does not apply to this project.

NRCC-MCH-E

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Marv Air 6 ton AC

Occupancy Type4

Allothers

CCU-1

Occupancy Type⁴

Allothers

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Heat only restroom

Toilet, private

17 Total System Required Min OA CFM

17 Total System Required Min OA CFM

. VENTILATION AND INDOOR AIR QUALITY

17 Total System Required Min OA CFM

07 08 09

Isolation Valve

NA: only 1 boiler

SEER

SEER

AFUE

(Page 4 of 13

4/6/202

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This item has been electronically signed and sealed by Thomas Loren Frey using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. ISSUANCE

BIDS AND PERMITS 08/22/2022

REVISIONS NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER TLF PROFESSIONAL DRAWN BY CHECKED BY

BP

TDK

(Page 3 of 7

CALIFORNIA ENERGY COMMISSION

Registration Provider: Energysoft

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CALIFORNIA ENERGY COMMISSION

Field Inspector

NRCC-PLB-E (Page 5 of 7)

Nominal Pipe Diameter (in)

Minimum Insulation Required

1 to < 1.5

1.0 in or R-7.7 | 1.5 in or R-12.5

(Page 4 of

TLF

BP

DOCUMENTATION

STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: (Page 10 of 13 6720 La Contenta Rd. Date Prepare L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4()) for duct leakage testing.

NRCI-MCH-01-E - Must be submitted for all buildings

Duct Leakage Sealing M. COOLING TOWERS This section does not apply to this project. N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION 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 ttps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/ Field Inspector Form/Title Pass Fail STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE roject Name: Charter Headend Yucca Valley Report Page: (Page 13 of 13 6720 La Contenta Rd. Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. B R Brian Peceny Progressive Architecture Engineering I, inc. EA/ HERS Certification Identification (if applicable): 1811 4 Mile Rd. Grand Rapids MI 49525 616-361-2664 RESPONSIBLE PERSON'S DECLARATION STATEMENT ify the following under penalty of perjury, under the laws of the State of California The information provided on this Certificate of Compliance is true and correct. 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) 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 requirement of Title 24, Part 1 and Part 6 of the California Code of Regulations. 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. 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 building owner at occupancy. Progressive Architecture Engineering I, inc. 2022-04-06 1811 4 Mile Rd 35690 Phone: 616-361-2664 Grand Rapids MI 49525

STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Charter Headend Yucca Valley Report Page: ject Name: 6720 La Contenta Rd. Date Prepared DOMESTIC HOT WATER EQUIPMENT

is table is used to demonstrate compliance with mandatory equipment requirements in <u>4110.1</u> and <u>\$110.3</u>. For high-rise residential and hotel/motel occupancies, compliance with criptive requirements in §150.1[c]8 must also be demonstrated and with §150.2 for addition and alteration scopes. ipment Schedule: Individual Systems 04 Max GPM/ First | Rated Uniform lame or Volume (gal) Hour Rating **Energy Factor** Minimum Required Uniform Energy Factor (UEF)¹ Item Tag (FHR) (UEF) AM01224 Electric Instantaneous (12kW) 0 <= GPM <1.7 0.95 0.91

Water Heating Equipment All Occupancies								
	Yes	No	Not Applicable	Requirement				
18			×	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3				
19				New state buildings 50% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5				
20			×	Isolation valves for instantaneous water heater with input rating <6.8 kBTUH or 2 kW has been specified per §110.3(c)6				

Charter Headend Yucca Valley Report Page:

Recirculating system piping, including supply and return piping of the water heater

be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

6720 La Contenta Rd. Date Prepared:

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies,

The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system

TABLE 120.3-A PIPE INSULATION THICKNESS

Registration Date/Time:

Report Version: 2019,1,003

Charter Headend Yucca Valley Report Page:

6720 La Contenta Rd. Date Prepared

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant; an explanation should be included in Table E.

§110.3(c)2 unless systems serves healthcare facility.

pendix RA4.4.9 per §150.1(c)8.

mperature controls capable of adjusting temperature settings per §110.3(a).

Schema Version: rev 20190401

nsulation Mean Rating Temp (°F

systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3:

nsulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall

Registration Number: Registration Date/Time: Registration Provider: Energysoft Registration Number: Registration Date/Time: Registration Provider: Energysoft Registration Provider: Energysoft Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-04-06 08:47:50 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Generated: 2022-04-06 08:47:50 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Version: 2019.1.003 Report Generated: 2022-04-06 08:47:50 Schema Version: rev 20190401 Schema Version: rev 20190401 Schema Version: rev 20190401

This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for

Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E Charter Headend Yucca Valley Report Page: (Page 11 of 13) Project Name 6720 La Contenta Rd. Date Prepared O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

elections 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/NRCA/ Field Inspector Yes NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes". NRCA-MCH-04-A - Air Distribution Duct Leakage NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to $\frac{5120.1(c)3}{c}$) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO₂) NRCA-MCH-07-A Supply Fan Variable Flow Controls NRCA-MCH-08-A Valve Leakage Test NRCA-MCH-09-A Supply Water Temperature Reset Controls NRCA-MCH-10-A Hydronic System Variable Flow Controls NRCA-MCH-11-A Automatic Demand Shed Controls NRCA-MCH-12-A FDD for Packaged Direct Expansion Units NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to 'Yes''. NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this NRCA-MCH-16-A Supply Air Temperature Reset Controls NRCA-MCH-17-A Condenser Water Temperature Reset Controls

NRCA-MCH-18-A Energy Management Control Systems Registration Date/Time: Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401

Charter Headend Yucca Valley Report Page:

6720 La Contenta Rd. Date Prepared

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.

drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential Documents/NRCV/

NRCV-MCH-04-H Duct Leakaage Test NOTE: Must be completed by a HERS Rater

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

NRCV-MCH-27 High-rise Resdential NOTE: Must be completed by a HERS Rater

NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater

NRCV-MCH-24 Enclosure Air Leakaage Worksheet NOTE: Must be completed by a HERS Rater

These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name

Project Address:

Yes

Mechanical Systems

CERTIFICATE OF COMPLIANCE

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-20 Multi-Family Ventilation

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Compliance with Mandatory Measures documented through MCH

andatory Measures Note Block

NRCA-MCH-19-A Occupancy Sensor Controls

NRCA-MCH-21 Multi-Family Envelope Leakage

Registration Provider: Energysoft Registration Number: Registration Date/Time: Report Generated: 2022-04-06 08:47:50 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401

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

Report Generated: 2022-04-06 08:47:50 STATE OF CALIFORNIA

Project Address: 6720 La Contenta Rd. Date Prepared: 4/6/2022 C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance Domestic Hot Water Equipment Distribution Systems Compliance Results

Table F Table H COMPLIES D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions. Project Name: Charter Headend Yucca Valley Report Page: (Page 1 of 7 Project Address: 6720 La Contenta Rd. Date Prepared: 4/6/2022 A. GENERAL INFORMATION 02 Climate Zone 01 Project Location (city) Yucca Valley 03 Occupancy Types Within Project (select all that apply): ☐ High-Rise Residential ☐ Hotel/Mote State Building ☐ Healthcare Facility ☐ Other (Write In) B. PROJECT SCOPE his table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, \$150.1(c)8, and \$141.0(a), or \$141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document. My project consists of (check all that apply): System Type1.2 System Components New system (DHW system being installed for the first time in newly Individual System (serving nonresidential spaces) | Equipment | Distribution | Controls ☐ Equipment ☐ Distribution ☐ Controls System Alteration (equipment, distribution or controls) FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems. Owelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Provider: Energysoft

Domestic Water Heating System CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E

Charter Headend Yucca Valley Report Page:

E. ADDITIONAL REMARKS

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

(Page 12 of 13)

Field Inspector

Pass Fail

Plan sheet or construction document location

4/6/2023

Project Name:

Domestic Water Heating System

CERTIFICATE OF COMPLIANCE

Registration Provider: Energysoft Registration Number: Registration Date/Time: Report Generated: 2022-04-06 08:47:50

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Number:

Domestic Water Heating System

Mandatory Pipe Insulation All Occupancies

Fluid Temperature Range (°F)

105-140

Registration Number:

STATE OF CALIFORNIA

Project Name

Project Address:

(Page 2 of 7)

CERTIFICATE OF COMPLIANCE

Domestic Water Heating System

H. DOMESTIC HOT WATER CONTROLS

 \boxtimes

emonstrated with requirements in §150.1(c)8.

No

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

 \boxtimes

Plumbing Code 613.0.

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/NRCI/

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

mpliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Pipes that are externally heated

Conductivity Range

(Btu-in per hour

perft2 per °F)

0.22 - 0.28

NRCC-PLB-E

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

NRCC-PLB-E

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

NRCI-PLB-01-E - Must be submitted for all buildings RCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.

Construction documents require manufacturer certification that service water-heating systems are equipped with automatic

Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California

For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)88ii, or §150.2

For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference

For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes ommunication interface that meets demand responsive control requirements of \$110.12(a) per \$150.2(b)1Hiii.

Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401

Report Generated: 2022-04-06 08:47:50

Registration Provider: Energysoft

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2022-04-06 08:47:50

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E Charter Headend Yucca Valley Report Page: 6720 La Contenta Rd. Date Prepared: (Page 6 of 7) 4/6/2022

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019 compliance documents/Nonresidential Documents/NRCI/ Form/Title Pass Fail NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification

Registration Date/Time: Registration Number: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-04-06 08:47:50 Schema Version: rev 20190401

STATE OF CALIFORNIA **Domestic Water Heating System**

CALIFORNIA ENERGY COMMISSION NRCC-PLB-E CERTIFICATE OF COMPLIANCE NRCC-PLB-E Charter Headend Yucca Valley Report Page: 6720 La Contenta Rd. Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Brian Peceny Progressive Architecture Engineering I, inc. 2022-04-06 CEA/ HERS Certification Identification (if applicable): 1811 4 Mile Rd. City/State/Zip: Grand Rapids MI 49525 616-361-2664 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct.

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)

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. 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.

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 prayings to the building owner at occupancy.

Responsible Designer Name: Tom Frey 2022-04-06 Progressive Architecture Engineering I, inc. 1811 4 Mile Rd 35690 Phone: 616-361-2664 Grand Rapids MI 49525

Registration Number:

Registration Date/Time:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2022-04-06 08:47:50

This item has been electronically signed and sealed by Thomas Loren Frey using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ISSUANCE BIDS AND PERMITS

08/22/2022 REVISIONS

NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER PROFESSIONAL DRAWN BY CHECKED BY

TDK

TLF

BP

TITLE 24 DOCUMENTATION ANNUN

APPROX

ΑP

BOD BSMT

CAB CAP

CLR CMPR COL COMB CONC CONN CONV CP

CU

DEPT

DET

DISC

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ELEC

ELEV

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EMT

ES

EWC

EWH

EXP

FA

FACP

FBO

FCU

FDR

FDS

FIXT

FLA

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FMC

FSB

FU

FURN

GALV

GEN

GFI

GFP

GND

GRMC

HG

HOA

HP

HSKP

HTG

HTP

HTR

HTR

HUM

HV

HWP

IBC

IMC

IR

JBOX

KO

FLEX

CARD READER

COPPER

DEPARTMENT

DISCONNECT

DISTRIBUTION

DOOR SWITCH

DISHWASHER

EXHAUST FAN

ELEVATOR

EMERGENCY

ELECTRICAL STRIKE

EXPLOSION PROOF

FAHRENHEIT

FIRE ALARM

FAN COIL UNIT

FLUORESCENT

FULL LOAD AMPS

FLOOR, FLOORING

FLAT SCREEN BOX

GALVANIZED

GENERATOR

GROUND

HOSPITAL GRADE

HORSEPOWER

HEATING

HEATER

HEATER

HUMIDIFIER

INFRARED

KNOCKOUT

KEY SWITCH

JUNCTION BOX

HIGH VOLTAGE

HYDRONIC WATER PUMP

INTERRUPTING CAPACITY

ISOLATED GROUND

INTERNATIONAL BUILDING CODE

INTERMEDIATE METAL CONDUIT

HEAT PUMP

HAND-OFF AUTOMATIC

HIGH POWER FACTOR

HOUSEKEEPING PAD

FURNISH, FURNISHED

FLEXIBLE METAL CONDUIT

GROUND FAULT CIRCUIT INTERRUPTOR

GROUND FAULT CIRCUIT PROTECTOR

GALVANIZED RIGID METAL CONDUIT

FEEDER

FIXTURE

FLEXIBLE

DOUBLE THROW

DOMESTIC WATER HEATER

ELECTRIC INFARED HEATER

ENERGY MANAGEMENT SYSTEM

ELECTRICAL METALLIC TUBING

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

FIRE ALARM CONTROL PANEL

FUSED DISCONNECT SWITCH

FURNISHED BY OTHERS

FLEXIBLE CONNECTION

ELECTRIC, ELECTRICAL

DEAD LOAD

DAMPER

COOLING TOWER

CURRENT TRANSFORMER

•	ELECTRICAL	ABBREVÎAT	IONS
•	ELECTRICAL	ARRDE\/IAT	IWNI.
	LLLUINIUAL	ADDNLVIAI	IVIN

PUBLIC ADDRESS

PNEUMATIC ELECTRIC

PERFORATE, PERFORATED

PUMP - FIRE PROTECTION

POST INDICATING VALVE

POWER ROOF VENTILATOR

PULL BOX

PEDESTAL

PHASE

PANEL

PRIMARY

POWER RETURN AIR

POWER POLE

PROJECTOR

PAN TILT ZOOM

RETURN AIR FAN

RECEPTACLE

RAINTIGHT

ROUGH-IN ONLY

ROOFTOP UNIT

SUPPLY AIR FAN

SURFACE MOUNTED

SOLID NEUTRAL

STAINLESS STEEL

SELECTOR SWITCH

SPEAKER

STATION

STORAGE

SWITCH

SYSTEM

TELEPHONE

TERMINAL

TWIST LOCK

TOP OF DEVICE

TERMINAL UNIT

UNIT VENTILATOR

UNDER CABINET

UNDERGROUND

UNIT HEATER

ULTRA VIOLET

VOLT-AMPERES

VOLTS

WATTS

WIRE GUARD

TRANSFER

PHASE

WATER HEATER

TRANSFORMER

WEATHERPROOF

TELEVISION

TAMPER RESISTANT

TELEPHONE TERMINAL CABINET

TELEVISION TERMINAL CABINET

UNDERGROUND ELECTRICAL

UNDERGROUND TELEPHONE

VIDEO DISPLAY TERMINAL

VARIABLE FREQUENCY DRIVE

SWITCHBOARD

SWITCHGEAR

SUPPLY AIR

SECONDARY

SECTION

SHEET

RIGID METAL CONDUIT

RIGID NONMETALLIC CONDUIT

START/STOP PUSHBUTTONS

SURGE PROTECTIVE DEVICE

SYMMETRY, SYMMETRICAL

POLYVINYL CHLORIDE

PED

PIV

PNL

PTZ

RAF

RIO

RMC

RNMC

RT

RTU

SEC

SECT

SHT

SPKR

STA

SW

STOR

SWBD

SWGR

SYM

SYS

TEL

TOD

TU

TVTC

UG

VDT

VFD

WP

XFER

XFMR

TERM

RECEPT

LECTRICAL ABBREVIATIONS	' El	LECTRICAL ABBREVIATIONS
AMPERES	KV	KILOVOLT
ABOVE ACCESSIBLE CEILING	KVA	KILOVOLT-AMPERES
AIR COMPRESSER	KVAR	KILOVOLT-AMPERES REACTIVE
AIR CONDITIONING UNIT	KW	KILOWATTS
ACCESS DOOR	KWH	KILOWATT-HOURS
AUTOMATIC DOOR OPENER	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
ABOVE FINISH GRADE	LP	LIGHT POLE
ARC FAULT CIRCUIT INTERRUPTER	LSI	ELECTRONIC LONG-TIME, SHORT-TIME, AND
AUTHORITY HAVING JURISDICTION		INSTANTANEOUS TRIP AND DELAY ADJUSTMENTS
AIR HANDLING UNIT	LT	LITE, LIGHT
ALUMINUM	LTG	LIGHTING
AMPLIFIER	LV	LOW VOLTAGE
ANNUNCIATOR	M/C	MOMENTARY CONTACT
ACCESS PANEL	MAX	MAXIMUM
APPROXIMATE	MC	MECHANICAL CONTRACTOR
AMP SWITCH	MCA	MINIMUM CIRCUIT AMPS
AMP TRIP	MCB	MAIN CIRCUIT BREAKER
AUTOMATIC TRANSFER SWITCH	MCC	MOTOR CONTROL CENTER
AUXILARY	MD	MOTORIZED DAMPER
AMERICAN WIRE GAUGE	MD	MOTION DETECTOR
BOILER	MDC	MAIN DISTRIBUTION CENTER
BUILDING AUTOMATION SYSTEM	MDP	MAIN DISTRIBUTION PANEL
BATTERY	MECH	MECHANICAL
BARRIER FREE	MFDS	MAIN FUSED DISCONNECT SWITCH
BELOW FINISHED GRADE	MH	MANHOLE
BUILDING MANAGEMENT SYSTEM	MIC	MICROPHONE
BOTTOM OF DEVICE	ML	MAGNETIC DOOR LOCK
BASEMENT	MLO	MAIN LUGS ONLY
CONDUIT	MMS	MANUAL MOTOR STARTER
CABINET	MOA	MULTIOUTLET ASSEMBLY
CAPACITY	MOP	MAXIMUM OVERCURRENT PROTECTION
COMMUNITY ANTENNA TELEVISION	MS	MAGNETIC STARTER
CIRCUIT BREAKER	MSBD	MAIN SWITCH BOARD
CLOSED-CIRCUIT TELEVISION	MT	MOUNT
CEILING FAN	MTR	MOTOR, MOTORIZED
COMPACT FLUORESCENT	MTS	MANUAL TRANSFER SWITCH
CABINET HEATER	NC	NORMALLY CLOSED
CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CENTERLINE	NF	NONFUSED
CLEAR, CLEARANCE	NFDS	NONFUSED DISCONNECT SWITCH
COMPRESSOR	NL	NIGHT-LIGHT
COLUMN	NO	NORMALLY OPEN
COMBINATION	NPF	NORMAL POWER FACTOR
CONCRETE	OH	OVERHEAD
CONNECT, CONNECTED, CONNECTION	OHD	OVERHEAD DOOR
CONVECTOR	OL	OVERLOAD
CIRCULATING PUMP	P	PUMP
CARRIER	DΔ	PURLIC ADDRESS

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					DATA SYMBOL LEGEND	
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR X - OTHERS DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
Е	Ш	Е	Е	∇	DATA/PHONE OUTLET, 3/4" TO ACCESSIBLE CEILING OR CABLETRAY	18"
Е	Е	Е	Е		ABOVE COUNTERTOP DATA/PHONE OUTLET, MOUNT 4" ABOVE BACKSPLASH OR	46"
Е	E	Е	Е		MULTIOUTLET WIREMOLD ASSEMBLY, MOUNT 4" ABOVE BACKSPLASH OR PROVIDE DATA OUTLETS AS SHOWN ON DRAWING	46"
Е	Е	Е	Е		FLOOR DATA/PHONE OUTLET	
Е	Е	Е	Е		CEILING DATA/PHONE OUTLET	
Е	Х	Х	Е	WAP CLG	CEILING WIRELESS ACCESS POINT	
Е	Х	Х	Х	TV ▽	TELEVISION OUTLET	18"
Е	Е	Е	Е	Ф	CLOCK	84"
Е	Х	Х	Х	©+	INTERCOM OUTLET LOCATION	46"
Е	Х	Х	Х	© AV	INTERCOM - AUDIO/VISUAL	46"
Е	Χ	Х	Е	<u>(S)</u>	SPEAKER (WALL OR CEILING MT.)	84"
Е	Е	Е	Е	Ē	SOUND MASKING EMITTER (WALL OR CEILING MT.)	84"
Е	Χ	Х	Х	\$ V	VOLUME CONTROL	46"
Е	Х	Х	Х	M	MICROPHONE OUTLET	18"
Е	Х	Х	Х	P H	PROJECTOR CONTROL OUTLET	18"
Е	М	М	Е	H	HUMIDISTAT	46"
Е	М	М	Е	Ŷ	THERMOSTAT	46"
Е	Х	Х	Х	M	OUTLET IN FLOOR (MICROPHONE SHOWN)	

				L	IGHTING SYMBOL LEGEND	
BACKBOX &	DEVICE BY	INSTALLED BY	WIRED BY	SYMBOL	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
E	E		E	OSD \$	SINGLE POLE SWITCH	<u>(6.14.6.7</u> 46"
E	Е	Е	Е	3 \$	3-WAY SWITCH	46"
Е	Е	Е	E	\$	4-WAY SWITCH	46"
Е	Е	Е	E	D \$	DIMMER SWITCH	46"
Е	Е	Е	Е	os \$	OCCUPANCY SENSOR SWITCH	46"
Е	Е	Е	Е	MC \$	MOMENTARY CONTACT SWITCH	46"
Е	Е	Е	Е	т \$	TIMER SWITCH	46"
Е	Е	Е	Е	osd \$	COMBINATION: OCCUPANCY SENSOR / 0-10V DIMMER SWITCH	46"
Е	Е	Е	Е	MCD \$	COMBINATION: MOMENTARY CONTACT SWITCH / 0-10V DIMMER SWITCH	46"
Е	Е	Е	Е	CF \$	COMBINATION: LIGHT SWITCH / CEILING FAN CONTROLLER	46"
Е	Е	Е	E	LV# \$	LIGHTING CONTROL SYSTEM PUSH BUTTON STATION	46"
Е	Е	Е	Е	0S2 \$	DUAL RELAY OCCUPANCY SENSOR SWITCH	46"
Е	Е	Е	Е	K \$	KEYED SWITCH	46"
Е	Е	Е	E	GTD	GENERATOR TRANSFER DEVICE	
Е	Е	Е	Е	(OS)	CEILING OCCUPANCY SENSOR - DUAL TECHNOLOGY TYPE	
Е	Е	Е	Е	LS	CEILING LIGHT LEVEL SENSOR	
Е	Е	Е	Е	PC	PHOTOCELL	
Е	Е	Е	Е	•-	POLE MOUNTED LIGHT (TYPE DENOTED)	PER SCHED
Е	Е	Ш	Е	Q 🛒	WALL MOUNTED LIGHT (TYPE DENOTED)	AS NOTED
Е	Е	Е	Е	0	RECESSED LIGHT (TYPE DENOTED)	
Е	Е	Е	Е		SURFACE LIGHT (TYPE DENOTED)	
Е	Е	Е	Е	P1 • P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)	
Е	Е	Е	Е	├	INDUSTRIAL LIGHT (TYPE DENOTED)	
Е	Е	Е	Е		TRACK AND TRACK LIGHT (TYPES DENOTED)	AS NOTED
Е	Е	Е	Е		EMERGENCY DOUBLE HEAD WALL LIGHT (TYPE DENOTED)	96"
Е	Е	Е	Е	₩ •	EXIT SIGN (TYPE DENOTED)	
1						

LIGHT FIXTURE ON (EM) LIFE SAFETY OR CRITICAL BRANCH

AS NOTED

					POWER SYMBOL LEGEND	
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	SYMBOL		HEIGH MIDDL DEVI (U.N.
E	 E	E	E	Φ	SINGLE RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "TR" = TAMPER RESIST	ANT) 1
Е	E	E	Е	+	GFCI RATED SINGLE RECEPT	1
Е	E	E	Е	•	ISOLATED GROUND SINGLE RECEPT	
Е	Е	E	Е	•	SWITCHED SINGLE RECEPT	
Е	E	E	Е	Φ	DUPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTED TO	 UPS) 1
Е	E	Е	Е	 	GFCI RATED DUPLEX RECEPT	
Е	Е	Е	Е	•	ISOLATED GROUND DUPLEX RECEPT	1
Е	Е	Е	Е	•	SWITCHED DUPLEX RECEPT (SPLIT-WIRE)	,
Е	Е	Е	Е	P	USB/DUPLEX RECEPT	,
Е	Е	Е	Е	1	ABOVE COUNTERTOP DUPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 44"	
Е	Е	Е	Е	#	FOURPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTED 1	O UP
Е	Е	Е	Е	#	GFCI RATED FOURPLEX RECEPT	
Е	Е	Е	Е	-	ISOLATED GROUND FOURPLEX RECEPT	,
Е	E	Е	Е	-	SWITCHED FOURPLEX RECEPT (SPLIT-WIRE)	•
Е	Е	Е	Е	-	ABOVE COUNTERTOP FOURPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 44"	
Е	Е	Е	Е	(A)	ELECTRICAL CONNECTION TO EQUIPMENT. SEE EQUIPMENT CONNECTION SCHEDULE(OR NOTES ON DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WITH EQUIPMENT PROVIDER.	S)
Е	Е	E	Е	<u> </u>	MULTIOUTLET WIREMOLD ASSEMBLY, MOUNT 4" ABOVE BACKSPLASH OR PROVIDE POWER RECEPTS AS SHOWN ON DRAWING	
Е	Е	Е	Е		FLOOR RECEPT (DUPLEX SHOWN)	
E	E	Е	Е		CEILING RECEPT (DUPLEX SHOWN)	
Е	Х	Х	Х		JUNCTION BOX (FLOOR, WALL, CEILING SHOWN)	AS NC
Е	Е	Е	Е	•	PUSH BUTTON STATION	4
Е	Ε	Е	Е	M \$	MOTOR HORSEPOWER RATED SWITCH	4
Е	Е	Е	Е	F \$	FUSED SWITCH	4
Е	E	Е	Е	42	SAFETY DISCONNECT SWITCH (FUSED)	
Е	Е	Е	Е	4	COMBO MOTOR STARTER/DISCONNECT SWITCH (FUSED)	
Е	E/M	E/M	Е	VFD	VARIABLE FREQUENCY DRIVE	
Е	E/M	E/M	Е		SINGLE PHASE MOTOR (SEE SCHEDULE)	
Е	E/M	E/M	Е		THREE PHASE MOTOR (SEE SCHEDULE)	
Е	Е	Е	Е		CIRCUIT BREAKER PANEL	-
Е	Е	Е	Е	67772 3	POWER OR DISTRIBUTION PANEL	7

					WIRING SYMBOL LEGEND
BACKBOX & RACEWAY BY	DEVICE BY	INSTALLED BY	WIRED BY	<u>SYMBOL</u>	E - ELECTRICAL CONTRACTOR M - MECHANICAL CONTRACTOR X - OTHERS TO MIDDLE OF DEVICE DESCRIPTION HEIGHT TO (U.N.O.)
Е	Е	Е	Е		CONDUIT CONCEALED IN WALL OR OVERHEAD
Е	Е	Е	Е		CONDUIT CONCEALED BELOW FLOOR
Е	Е	Е	Е		CONDUIT EXPOSED
Е	Е	Е	Е		CONDUIT TRANSITION UP
Е	Е	Е	Е	•	CONDUIT TRANSITION DOWN
Е	Е	Е	Е	7	CONDUIT STUBBED OUT
Е	Е	Е	E	[J] <u></u>	UNDERFLOOR RACEWAY SYSTEM
Е	Е	Е	Е		CABLE TRAY (TYPE DENOTED)
Е	Е	Е	Е	<u></u>	CONDUIT SLEEVE (SIZE DENOTED)
Е	Е	Е	Е		BRANCH CIRCUIT HOME RUN
Е	Е	Е	Е		LOW VOLTAGE POWER WIRING
Е	Е	Е	Е		UNDERGROUND ELECTRICAL
Е	Е	Е	Е	—ОНЕ—	OVERHEAD ELECTRIC
Е	Х	Х	Е	->-	UTILITY SERVICE POWER POLE (SITE)
Е	Е	Е	Е	—-G—-	GROUND CONDUCTOR
Е	Е	Е	Е	•	LIGHTNING PROTECTION AIR TERMINAL
Е	Е	Е	E		LIGHTNING PROTECTION CONDUCTOR SPLICE
Е	Е	Е	Е	0	GROUND ROD (PLAN VIEW)
Е	Е	Е	Е	ے	GROUND CONNECTION TO STEEL OR STRUCTURE
Е	Е	Е	Е	•	GROUND CONNECTION - EXOTHERMIC WELD

SPECIAL CABINET (TYPE DENOTED)

TRANSFORMER (TYPE DENOTED)

E E E E GENERATOR (KVA DENOTED)

72"

GENERAL ELECTRICAL NOTES

- 1. UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC. 2. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE
- CEILINGS WHERE NOTED. 3. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY
- WHERE NOTED. 4. WHERE POSSIBLE, ALL CONDUIT AND CABLE SHALL BE RUN UNDER THE TOP CHORD OF THE JOISTS. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE RUN WITHIN 1-1/2" OF THE ROOF DECK.
- 5. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
- 6. ALL ELEVATION HEIGHTS SHOWN ARE MEASURED TO THE MIDDLE OF THE DEVICE UNLESS NOTED OTHERWISE.
- 7. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- 8. WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS.
- 10. TV OUTLETS, TELEPHONE OUTLETS, AND DATA OUTLETS SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM -ADJACENT POWER RECEPTACLE, INTENDED FOR COMPUTER USE

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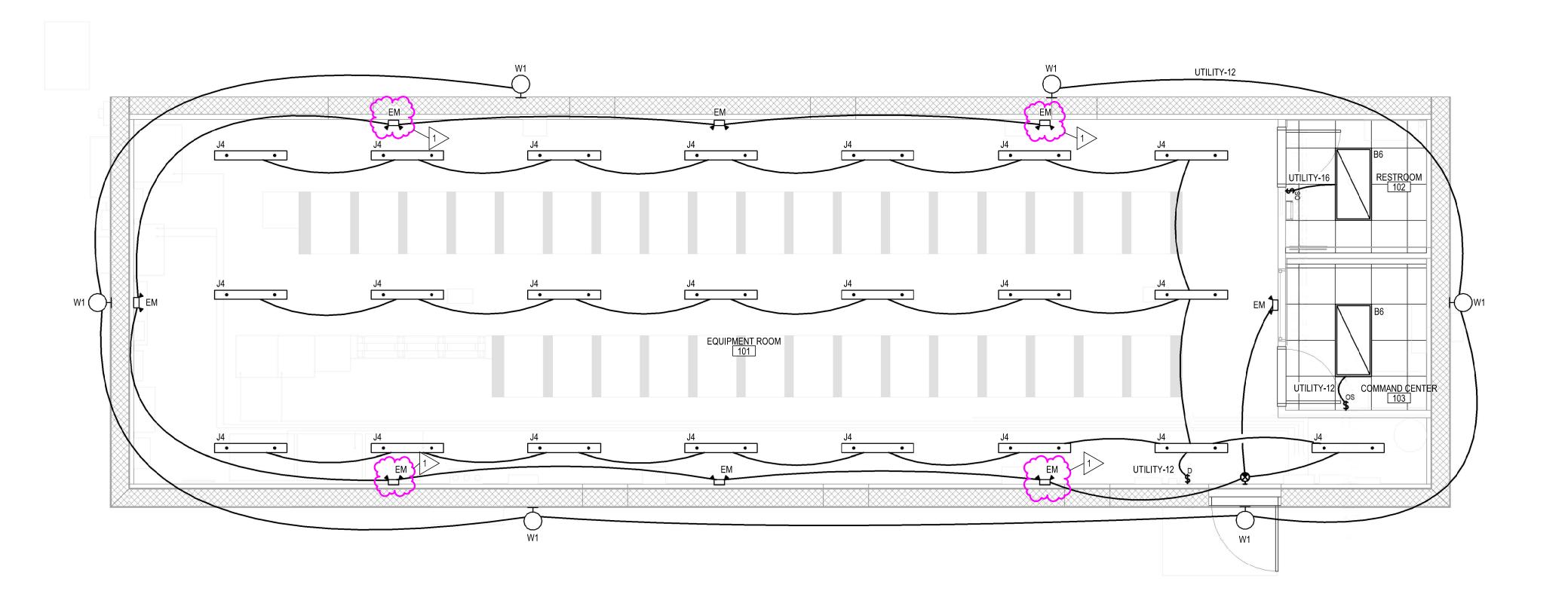
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DJH

CDM

KGG

ELECTRICAL NOTES AND **ABBREVIATIONS** E001





POWER GENERAL NOTES

EQUIPMENT PRIOR TO ROUGH-IN.

- A. SEE ARCHITECTURAL DRAWINGS FOR DIMENTIONS OF PANELBOARDS AND EXTERIOR COMPONENTS.
- B. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL
- RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

 C. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED
- D. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.
- E. CONNECT EMERGENCY LIGHTS AND EXIT SIGNS TO UNSWITCHED LEG OF NORMAL LIGHTING CIRCUIT SERVING SAME SPACE.
- F. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND
- CONTROL OF DEVICES.
- G. FIELD COORDINATE LOCATION OF OWNER FURNISHED EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE

PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE

CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL

I. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, AND #8 AWG FOR BRANCH CIRCUITS LONGER THAN 125 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.

○ POWER KEYNOTES

EQUIPMENT SCHEDULE.

- ROUTE (1) 1" CONDUIT FROM HVAC CONTROLLER TO LADDER RACK FOR CONTROL POWER.
- 2. IF NEEDED. COORDINATE WITH CIVIL.
- 3. GROUND WELL. 12" PVC WITH CAP.
- 4. PROVIDE ROUGH-IN FOR TEMPERATURE AND HUMIDITY SENSOR. COORDINATE LOCATION WITH MONITORING COMPANY.

DQ0

CHARESHORE CONSTR

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08/22/2022

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NO. DATE DESCRIPTION
1 09/16/2022 ELECTRICAL

FILE NUMBER 92260 PROJECT MANAGER PROFESSIONAL [

CDM

PROJECT MANAGER
PROFESSIONAL
DRAWN BY
CHECKED BY

FIRST FLOOR
PLANS
FD101

TAG	DESCRIPTION	POWER	VOLTAGE	PHASE	FEEDER	DISCONNECTING MEANS	DISC FURNISH/INSTALL	NOTES
HU-1	AIR HANDLING UNIT	208 VA	208 V	1	FEED FROM CCU-1			PROVIDE 3/4" CONDUIT FROM CONTROL WIRING BETWEEN UNITS
CU-1	CLOSE CONTROL UNIT	1872 VA	208 V	1	2 #12, #12 GND, 3/4" C		EC	BETWEEN ONTO
JH-1	CABINET UNIT HEATER	1500 VA	120 V	1		DISCONNECT FURNISHED WITH UNIT		
VH-1	DOMESTIC WATER HEATER	4900 VA	208 V	1	2 #10, #10 GND, 3/4" C	2P 30A FUSIBLE DISCONNECT	EC	
-1	EXHAUST FAN	138 VA	120 V	1	2 #12, #12 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	2 08 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK	4576 VA	208 V 1	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	EURNISHED WITH UNIT		
QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10 #10 GND 3/4" C	BURNISHED WITH UNIT		
	CONNECTION		K			(
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	2 08 ∨	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	PURNISHED WITH UNIT		
QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10 #10 GND 3/4" C	CURNISHED WITH UNIT		
)	CONNECTION		K	<u>'</u>	}	1		
QUIPMENT RACK 1	EQUIPMENT RACK CONNECTION	4576 VA	208 V	T		PURNISHED WITH UNIT		
QUIPMENT RACK 2	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
3 QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
4 QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10 #10 GND 3/4" C	FURNISHED WITH UNIT		
5	CONNECTION		Q)		
QUIPMENT RACK 6	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK 7	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
9 QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10. #10 GND. 3/4" C	URNISHED WITH UNIT		
0	CONNECTION			1	(3		
QUIPMENT RACK 1	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1		FURNISHED WITH UNIT	<u></u>	
QUIPMENT RACK 2	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	EURNISHED WITH UNIT		
4 QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
5 QUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	1		CURNISHED WITH UNIT		
6	CONNECTION					5	-	
QUIPMENT RACK 7	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
QUIPMENT RACK 8	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	PURNISHED WITH UNIT		
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	URNISHED WITH UNIT		
EQUIPMENT RACK	EQUIPMENT RACK	4576 VA	208 V	1	2 #10, #10 GND, 3/4" C	FURNISHED WITH UNIT		
OUIPMENT RACK	CONNECTION EQUIPMENT RACK	4576 VA	208 V	\	2 #10, #10 GND, 3/4" C	FÜRNISHED WITH UNIT	~~~~	~~~~~
1	CONNECTION			4				
QUIPMENT RACK	EQUIPMENT RACK CONNECTION	4576 VA	208 V	·····	doctoctoct	FURNISHED WITH UNIT	mmmm	munimun
AH-1	PACKAGE AIR HANDLING UNIT	10109 VA	208 V	1		2P 70A FUSIBLE DISCONNECT	€ C	
AH-2 (FUTURE)	PACKAGE AIR HANDLING UNIT	10109 VA	208 V	1		2P 70A FUSIBLE DISCONNECT	BC BC	
'AH-3	PACKAGE AIR	10109 VA	208 V	1 1	2 #4, #8 GND, 1" C	2P 70A FUSIBLE	EC EC	
AH-4	HANDLING UNIT PACKAGE AIR	10109 VA	208 V	1	2 #4, #8 GND, 1" C	DISCONNECT 2P 70A FUSIBLE	EC .	
	HANDLING UNIT		K	1	<u>(</u>	DISCONNECT	{	
AH-5	PACKAGE AIR HANDLING UNIT	10109 VA	208 V	I		DISCONNECT	f c 5	
AH-6 (FUTURE)	PACKAGE AIR HANDLING UNIT	10109 VA	208 V	1	2 #4, #8 GND, 1" C	2P 70A FUSIBLE DISCONNECT	E C	
AH-7	PACKAGE AIR	10109 VA	208 V	1	2 #4, #8 GND, 1" C	2P 70A FUSIBLE	₽C	
EEL-1	HANDLING UNIT RACK REEL	1200 VA	120 V	1	2#12,#12 GND, 5/4" C	DISCONNECT	<u>) </u>	
EEL-2 WG-1	RACK REEL SEWAGE EJECTOR	1200 VA 1000 VA	120 V 120 V	1	2 #12, #12 GND, 3/4" C 2 #12, #12 GND, 3/4" C		 EC	
	PUMP			'	, ,			
/ELL-1	WELL PUMP	2000 VA	208 V	1	2 #12, #12 GND, 3/4" C	MMS	EC	

GREÈN (POWER) PILOT LIGHT

ON-OFF SELECTOR SWITCH

STOP-START PUSHBUTTONS

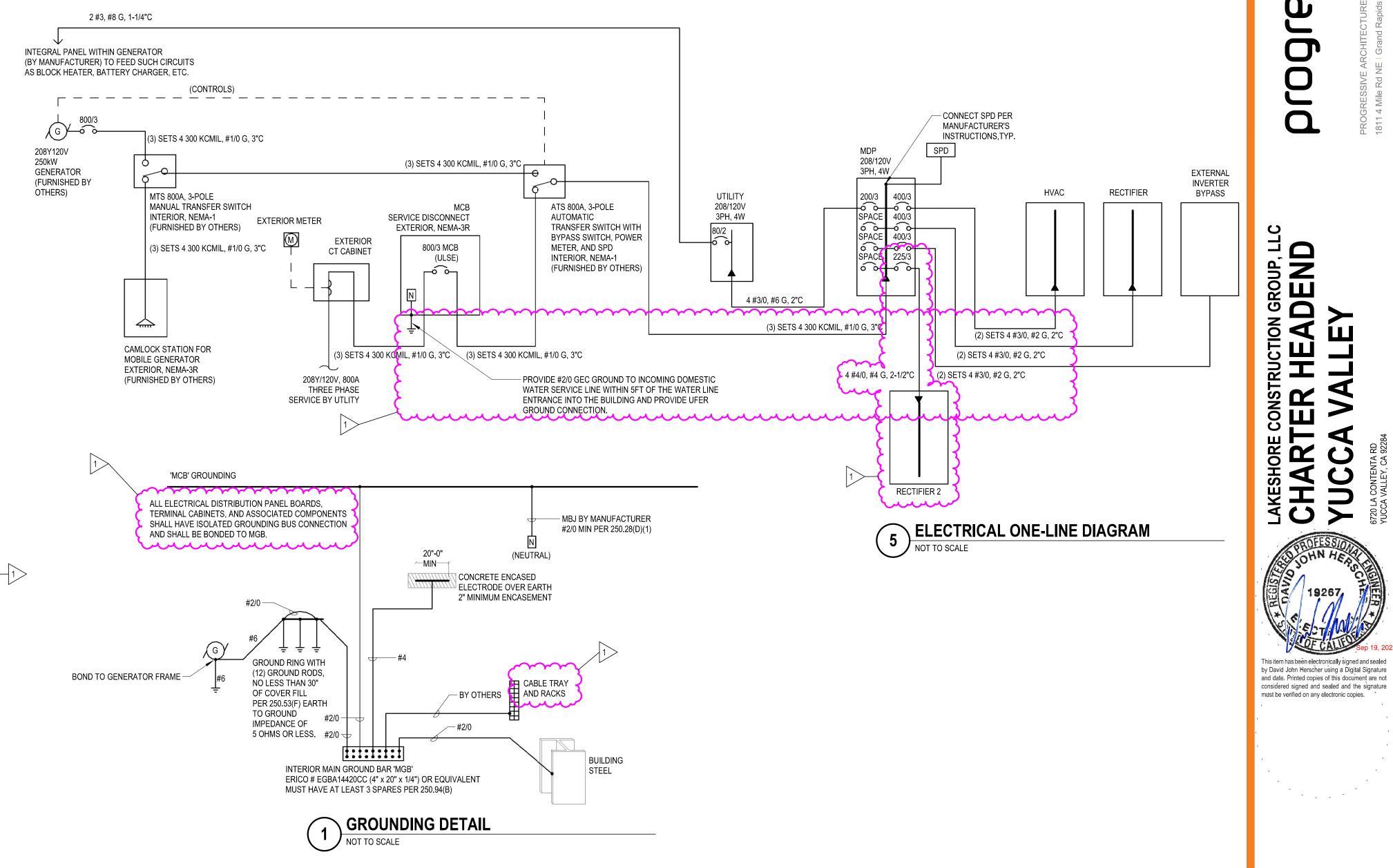
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1. INPUT AND OUTPUT CONDUCTORS TO AND FROM VFD'S SHALL BE INSTALLED IN SEPARATE RACEWAYS, INDEPENDENT FROM ANY OTHER CONDUCTORS, AND SHALL NOT PASS THRU ANY COMMON

MCP MOTOR CIRCUIT PROTECTOR

CB CIRCUIT BREAKER

				LUMII	VAIRE	SCHEDULE		
TYPE	DESCRIPTION	MOUNTING	LAMP	VOLT	WATT	MANUFACTURER	CATALOG NUMBER	NOTE
B6	RECESSED LED 2x4 TROFFER	RECESSED	LED	120 V	31 W	LITHONIA	EPANL-2X4-4000LMHE-80CRI-40K-MIN10-Z T-MVOLT	
EM	EM FIXTURE	WALL MT @ 9'-0" AFF	LED	120 V	3 W	LITHONIA	EU2L-M12	
J4	SUSPENDED LENSED STRIP LIGHT	SUSPEND @ 10'-0" AFF	LED	120 V	25 W	LITHONIA	ZL1N-L48-3000LM-FST-MVOLT-40K-80CRI- MB	
W1	LED WALL PACK	WALL MT @ 13'-4" AFF	LED	120 V	30 W	CREE	C-WP-B-TR-4L-40K	
X1	EXIT SIGN	WALL MT @ 9'-0" AFF	LED	120 V	3 W	LITHONIA	ECBR-LED-M6	



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FILE NUMBER PROJECT MANAGER PROFESSIONAL DRAWN BY CHECKED BY

ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES E501

2-SPD TWO SPEED

RVS REDUCED VOLTAGE

VARIABLE FREQUENCY DRIVE

TRUCTION GROUP, LL HEADEND

, CONTENTA RD VALLEY, CA 922 by David John Herscher using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature

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REVISION 92260017

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ELECTRICAL SCHEDULES E502

LOCATION: EQUIPMENT ROOM 101 FEEDER: SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE NEMA 1 FED FROM: MDP

LOCATION: EQUIPMENT ROOM 101

FEEDER: SEE ONE-LINE DIAGRAM

LTS RCPTS MTRS OTHER P AMP

CONNECTED

45760 VA

2288 | 2 | 30 A | 1 |...

2288 -- -- 3 2288 | 2 | 30 A | 5 |

2288 | -- | -- | 7

2288 | 2 | 30 A | 9

| 2288 | 2 | 30 A | 13

2288 | -- | -- | 15

| 2288 | 2 | 30 A | 17

2288 -- -- 19

| -- | -- | 21

-- | -- | 23

|-- | -- | 25 -- -- 27 -- -- 29

- 31

| -- | -- | 33

-- -- 35 -- -- 37 -- -- 39

| -- | -- | 41

-- -- 43 -- -- 45 -- -- 47

-- -- 49 -- -- 51 -- -- 53

DEMAND FACTOR

100.00%

2288 -- --

MOUNTING: SURFACE NEMA 1

FED FROM: MDP

LOAD DESCRIPTION

14-27

14-31

Space

LOAD CLASSIFICATION

BUS AMPS: 225 AMPS SPECIAL:

LOAD DESCRIPTION	LTS	RCPTS	MTRS	OTHER	Р	BKR AMP		CIRCUIT		AMP	KR P	OTHER	MTRS	RCPTS	LTS	LOAD DESCRIPTION
GENERATOR PANEL		2280			2	80 A	1		2	20 A	1			1500		CUH-1
		2280					3]	4	30 A	2			2450		DWH-1
SOUTH UTILITY RECEPT		360			1	20 A	5]	6					2450		-
NORTH UTILITY RECEPT		360			1	20 A	7]	8	20 A	1			540		EXTERIOR SERVICE RECEPT
EXTERIOR SERVICE		540			1	20 A	9]	10	20 A	1	500				FIRE PANEL
COMMAND CENTER		720			1	20 A	11]	12	20 A	1				813	INTERIOR LIGHTING
CCU-1			936		2	15 A	13]	14	20 A	1	500				SECURITY PANEL
			936				15]	16	20 A	1				31	OFFICE/EXTERIOR LIGHTING
REEL-1				1200	1	20 A	17]	18	20 A	2		1000			WELL-1
COMMAND CENTER		540			1	20 A	19]	20				1000			-
REEL-2				1200	1	20 A	21]	22	20 A	1		1000	180		SWG-1
BATHROOM RECEPT		180			1	20 A	23]	24	20 A	1					Spare
Spare					1	20 A	25]	26	20 A	1					Spare
Spare					1	20 A	27]	28	20 A	1					Spare
Spare					1	20 A	29		30	20 A	1					Spare
Spare					1	20 A	31]	32	20 A	1					Spare
Space							33		34							Space
Space							35]	36							Space
Space							37]	38							Space
Space							39]	40							Space
			_													

LOAD CLASSIFICATION	CONNECTED	DEMAND FACTOR	CALCULATED	DANEL TOTALS	
Lighting	844 VA	100.00%	844 VA	PANEL TOTALS	
Motor	4872 VA	100.00%	4872 VA	CONNECTED LOAD:	23496 VA
Other	3400 VA	100.00%	3400 VA	EST. DEMAND LOAD:	23496 VA
Receptacle	14380 VA	100.00%	14380 VA		
				CONNECTED CURRENT:	65 A
				EST. DEMAND CURRENT:	65 A

.. | 42 | -- | -- |

Space

| -- | -- | 41 |

PANEL SHORT CIRCUIT CURRENT RATING TO BE COORDINATED WITH UTILITY COMPANY. PROVIDE EQUIPMENT WITH RATINGS GREATER THAN AVAILABLE FAULT CURRENT. MINIMUM AIC RATING TO BE 22AIC.

 \cdots

PANELBOARD: RECTIFIER 2

BUS AMPS: 225 AMPS

MAIN DEVICE: 225 A MLO

VOLTAGE: 208Y/120V / 3 ø / 4W

A.I.C. RATING: GREATER THAN AVAILABLE FAULT CURRENT

2 30 A 2

6 | 30 A | 2

| 8 | -- | --

10 | 30 A | 2

12 -- --

| 14 | 30 A | 2

| 16 | -- | -- |

| 18 | 30 A | 2

20 -- --

| 24 | -- | -- |

28 | -- | -- |

32 -- --

36 | -- | -- |

| 40 | -- | -- |

44 | -- | -- |

| 48 | -- | -- |

52 -- --

| 54 | -- | -- |

CALCULATED

45760 VA

2288

2288

2288

2288

OTHER | MTRS | RCPTS | LTS

LOAD DESCRIPTION

14-24

14-26

14-28

14-30

14-32

Space

Space Space

Space

Space Space Space

Space

Space

Space

Space

Space

Space

PANEL TOTALS

CONNECTED CURRENT: 127 A EST. DEMAND CURRENT: 127 A

CONNECTED LOAD: 45760 VA

EST. DEMAND LOAD: 45760 VA

PANELBOARD: RECTIFIER

PANEL SHORT CIRCUIT CURRENT RATING TO BE COORDINATED WITH UTILITY COMPANY. PROVIDE EQUIPMENT WITH RATINGS GREATER THAN AVAILABLE FAULT CURRENT. MINIMUM AIC

PANELBOARD: HVAC

PANEL TYPE:

SPECIAL:

P AMP

2 70 A

|--| -- |

2 70 A

-- --

2 70 A

|--| -- | 11

2 70 A 13

2 70 A

| -- | -- | 19

1 20 A 2

20 A

1 | 20 A | 27

| -- | -- | 29

|--| -- | 33

|-- | -- | 35

-- 37

| -- | -- | 41

DEMAND FACTOR

100.00%

1 20 A 25

VOLTAGE: 208Y/120V / 3 ø / 4W

A.I.C. RATING: GREATER THAN AVAILABLE FAULT CURRENT

AMP P

70 A 2

6 | 70 A | 2

10 70 A 2

12 | -- | -- |

14 | 15 A | 1 |

16 70 A 2

18 | -- | -- |

20 | 20 A | 1

22 | 20 A | 1

26 | 20 A | 1

28 | 20 A | 1

30 | -- | -- |

34 | -- | -- |

36 | -- | -- |

38 -- --

40 -- -- 42 -- --

CALCULATED

70900 VA

24 20 A

OTHER MTRS RCPTS LTS

5054

5054

5054

5054

5054

138

LOAD DESCRIPTION

PAH-4

PAH-6

Spare

Spare

Spare

Spare

Spare

Spare

Space Space

Space

Space

Space

Space

Space

PANEL TOTALS

CONNECTED CURRENT: 197 A EST. DEMAND CURRENT: 197 A

CONNECTED LOAD: 70900 VA

EST. DEMAND LOAD: 70900 VA

BUS AMPS: 400 AMPS

MAIN DEVICE: 400 A MLO

LOCATION: EQUIPMENT ROOM 101

FEEDER: SEE ONE-LINE DIAGRAM

LTS | RCPTS | MTRS | OTHER |

5054

5054

5054

5054

5054

5054

CONNECTED

70900 VA

LOCATION: EQUIPMENT ROOM 101

MOUNTING: SURFACE NEMA 1

FED FROM: MDP

LOAD DESCRIPTION

LOAD CLASSIFICATION

RATING TO BE 22AIC.

MOUNTING: SURFACE NEMA 1 **VOLTAGE**: 208Y/120V / 3 ø / 4W FED FROM: MDP BUS AMPS: 400 AMPS FEEDER: SEE ONE-LINE DIAGRAM

MAIN DEVICE: 400 A MLO A.I.C. RATING: GREATER THAN AVAILABLE FAULT CURRENT

LOAD DECORPORATION	LTS	RCPTS	MTRS	OTHER	Р	BKR AMP		OIDO:::=		Bł		OTHER	MTRS	RCPTS	LTS	LOAD DECORPTION
LOAD DESCRIPTION 4-1				2288		30 A	1	CIRCUIT	2	AMP 30 A	P	2288				LOAD DESCRIPTION 14-2
4- 1				2288	2	30 A	3	ļ	4	30 A		2288				14-Z
4-3				2288	2	30 A	5		6	30 A	2	2288				 14 - 4
14-3				2288		30 A	7		8	30 A		2288				14-4
 14-5				2288	2	30 A	9		10	30 A	2	2288				<u>-</u> 14 - 6
				2288			11		12			2288				
				2288	2	30 A	13		14	30 A	2	2288				 14 - 8
				2288			15		16			2288				-
14-9				2288	2	30 A	17		18	30 A	2	2288				14-10
		1		2288			19		20			2288				
14-11		1		2288	2	30 A	21		22	30 A	2	2288				14-12
		1		2288			23	1	24			2288				
14-13		1		2288	2	30 A	25		26	30 A	2	2288				14-14
				2288			27	ļ	28			2288				
<u>-</u> 14-15				2288	2	30 A	29		30	30 A	2	2288				 14 - 16
				2288			31		32			2288				
 14 - 17				2288	2	30 A	33		34	30 A	2	2288				 14-18
		1		2288	-		35	1	36		-	2288				
14-19		1		2288	2	30 A	37		38	30 A	2	2288				14-20
		1		2288	-		39		40		-	2288				
14-21				2288	2	30 A	41		42	30 A	2	2288				14-22
				2288	_		43		44	007	_	2288				
Space	7 	7 	~~~	7.50	<u> </u>		45	M M	46	<u></u>	- Y	7	\sim	\sim		Space
Space							47	1	48							Space
Space Space							49		50							Space
Space							51	'''	52							Space
Space							53	'''	54							Space
Space							55	 '''	56							Space
Space							57	'''	58							Space
Space							59	···	60							Space
Space							61		62							Space
Space							63	'''	64							Space
Space	~~		~~	~~	~	~~~~	65	~~	66	W Company	٨	~~	~~	~~		Space
Space							67	1	68							Space
Space							69	'''	70							Space
Space							71	· · · ·	72							Space
Space							73		74							Space
Space							75	^{'''}	76							Space
Space							77	·"	78							Space
Space							79	···	80							Space
Space							81		82							Space
Space Space							83		84							Space Space
1	1	1	<u> </u>	1	I	<u> </u>	1	J'		<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	1
OAD CLASSIFICATION CONNECTED				TED		DEMAND	FACTO	R	CALCU	LATED				D.A	NEL TOTA	u e
Other						100.0	00%		1006	72 VA				P	ANEL IUIA	ALO
														CON	NECTED LO	DAD : 100672 VA
														EST. D	EMAND LO	DAD: 100672 VA
											_ -					
														CONNECT	TED CURRI	ENT: 279 A
											-		_			FNT: 279 A

PANEL SHORT CIRCUIT CURRENT RATING TO BE COORDINATED WITH UTILITY COMPANY. PROVIDE EQUIPMENT WITH RATINGS GREATER THAN AVAILABLE FAULT CURRENT. MINIMUM AIC RATING TO BE 22AIC.

DISTRIBUTION PANEL: MDP

1 400 A 3 400 A 100.7 kVA RECTIFIER
2 400 A 3 400 A 70.9 kVA HVAC
3 200 A 3 200 A 23.5 kVA UTILITY
4 400 A 3 400 A 0.0 kVA EXTERNAL INVERTER BYPASS

5 -- -- 0.0 kVA Space
6 -- -- 0.0 kVA Space
7 -- -- 0.0 kVA Space
8 400 A 3 225 A 45.8 kVA RECTIFIER 2

VOLTAGE: 208Y/120 V. 3 ø 4 W.

DESCRIPTION/NAMEPLATE

SPECIAL:

SECTION No. 1

CONNECTED DEMAND ESTIMATED

75772 VA

149832 VA

100.00%

100.00%

100.00%

PANEL SHORT CIRCUIT CURRENT RATING TO BE COORDINATED WITH UTILITY COMPANY. PROVIDE | EQUIPMENT WITH RATINGS GREATER THAN AVAILABLE FAULT CURRENT. MINIMUM AIC RATING TO BE

844 VA

75772 VA

149832 VA

A.I.C.... GREATER THAN AVAILABLE FAULT...

PANEL TOTALS

CONN. LOAD: 240828 VA

EST. DEMAND LOAD: 240828 VA CONN. CURRENT: 668 A EST. DEMAND... 668 A

NOTES

LOCATION: EQUIPMENT ROOM 101

CKT FRAME POLES RATING KVA

MAIN DEVICE: 800 A

BUS AMPS:

LOAD CLASSIFICATION

22AIC.

STATE OF CALIFORNIA

Project Name: Project Address:

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-E

8/22/2022

(Page 2 of 7)

FILE NUMBER PROJECT MANAGER KGG **PROFESSIONAL** DRAWN BY CHECKED BY

CDM KGG

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in \$110.9, \$110.12(c), \$130.0, \$130.1, \$140.6 and \$141.0(b)2 for indoor lighting scopes using the prescriptive Charter Headend Yucca Valley Report Page: (Page 1 of 7) 8/22/2022 Project Address: 6720 La Contenta Road Date Prepared:

A. GENERAL INFORMATION 01 Project Location (city) Yucca Valley 04 Total Conditioned Floor Area (ft2) 02 Climate Zone 05 Total Unconditioned Floor Area (ft²) 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) ☑ Office ■ Warehouse | Hotel/Motel School Support Areas ☐ High-Rise Residential ☐ Relocatable Other (Write in) Parking Garage Healthcare See Table I

B. PROJECT SCOPE

This table includes 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 §141.0(b)2 for alterations.

Scope of Work	Conditioned Space	Unconditioned Spaces			
01	02	03	04	05	
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft ²)	
☑ New Lighting System	Area Category Method	1431	Area Category Method	0	
New Lighting System - Parking Garage					
Total Area of Work (ft²)	1431		0		

Registration Date/Time: Registration Number:

F. INDOOR LIGHTING FIXTURE SCHEDULE

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting

Registration Provider: Energysoft

Report Generated: 2022-08-22 15:06:20

NRCC-LTI-E		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	Charter Headend Yucca Valley Report Page:	(Page 3 of 7)
Project Address:	6720 La Contenta Road Date Prepared:	8/22/2022

Report Version: 2019.1.003

Schema Version: rev 20190401

14	4 Ft LED Strip Light	No	No	25	Mfr. Spec	22	No	550		
					Total Designe	d Watts: COND	DITIONED SPACES	612	- 140	

¹FOOTNOTE: 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.

²Authority 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

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

	01				02			0:	3
Mandator	y Demand Response 6110.12(c)			Shut off con	trols §130.1(c)			Field Ins	spector
Ivialidator	y Demand Response 9110.12(c)			Shut-un tun	(1015 9130.1(6)			Pass	Fail
	Required > 10,000 SF								
rea Level Controls		111.2							
04	05	06	07	08	09	10	11	1:	2
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §180.1(d)	Daylighting	Interlocked Systems §140.6(a)1	Field Ins	spector
					3100.1[4]			Pass	Fai
NOTES: Controls with a * red	quire a note in the space below exp	olaining how comp	pliance is achiev	ed.			13	"	

to §130.1(d)2

Registration Number:

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20190401

Registration Provider: Energysoft

Report Generated: 2022-08-22 15:06:20

C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Adjusted Lighting Power per §140.6(a) (Watts) Allowed Lighting Power per §140.6(b) (Watts) Compliance Results Lighting in 02 05 06 07 09 conditioned and Adjustments Area unconditioned Complete Category PAF Lighting spaces must not b Additional Building Category Designed **Control Credits** (Watts) 05 must be >= 08 combined for 5140.6(c)2 5140.6(c)1 5140.6(c)2G (Watts) §140.6(a)2 *Includes \$140.6 compliance per (Watts) Adjustments §140.6(b)1 (See Table I) (See Table I) (See Table J) (See Table K) (See Table F) (See Table P) 606.7 606.7 587.2 COMPLIES Conditioned 612 24.8 Unconditioned COMPLIES Controls Compliance (See Table H for Details)

Rated Power Reduction Compliance (See Table Q for Details)

Charter Headend Yucca Valley Report Page:

6720 La Contenta Road Date Prepared:

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGH	TING FIXTURE SCHEDU	ILE								
This table include	es all permanent designed	lighting and all pe	ortable lighting i	in offices.						
Designed Wattag	ge: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	1	Ō.
Name or Item	Complete Luminaire	Modular	Small Aperture &	Watts per	How is Wattage	Total Number	Excluded per	Design Watts	Field Inspector	
Tag	Description	(Track) Fixture	Color Change ^I	luminaire ²	determined	of Luminaires	§140.6(a)3	Design Watta	Pass	Fail
B6	2x4 LED Panel	No	No	31	Mfr. Spec	2	No	62		

Registration Date/Time: Registration Provider: Energysoft Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-22 15:06:20

Schema Version: rev 20190401

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE NRCC-LTI-E (Page 4 of 7) Project Name: Charter Headend Yucca Valley Report Page: 8/22/2022

6720 La Contenta Road Date Prepared: Project Address: I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06		
Area Description	Complete Building or Area Category Primary	Allowed Density	A 1842\	Allowed Wattage	Additional Allowance / Adjustment		
Area Description	Function Area	(W/ft ²)	Area (ft²)	(Watts)	Area Category	PAF	
Office	Office 250 square feet or less	0.7	66	46.2	No	Yes	
Restroom	Restrooms	0.65	58	37.7	No	Yes	
Equipment Room	Electrical Mechancial Telephone Room	0.4	1,307	522.8	No	No	
		TOTALS:	1,431	606.7	See Tables J, or	P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2022-08-22 15:06:20

Registration Provider: Energysoft

KGG

CDM

KGG

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-F

CERTIFICATE OF COMPLIANCE

Project Name:

Charter Headend Yucca Valley Report Page:

(Page 5 of 7)

Project Address:

6720 La Contenta Road Date Prepared:

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P. POWER ADJUSTMENT: LIG	HTING CO	NTROL	CREDI	(POW	/ER AD	JUSTN	IENT F	ACTOR	(PAF))						
This table includes all areas indi	coted in Tab	le I or T	able K a	s using	a PAF c	redit de	escribea	in <u>\$140</u>).6(a)2.				0	10	
Conditioned Spaces															
01					C)2					03	04	05	06	07
				PA	F per 💇	140.6(a)2 ¹				Lun	ninaires Contro	lled for PAF Cr	edit	Control
Area Description	1	2A	28	2C	3A.	38	4	5	б	7	Luminaire	Luminaire	Number of	Lighting	Credit Power
		Pick up	to one		Pic	k up to	one	Picl	k up to	one	Name or Item Tag	Design Watts	Luminaires	Controlled (Watts)	Adjustments (Watts)
Office		\boxtimes									B6	31	1	31	12.4
Restroom		×									B6	31	1	31	12.4
		08										0	9		
	Paul Child		plying PA requirer					Control of the Control			Total Power	Adjustment (W	/atts) CONDITI	ONED SPACES	: 24.8
I FOOTNOTES PAFE outlined in 1	abla 140 E	A inches	do 11 Da	iliah* d	immine	nluc O	EE- 2A)	Occupa	nt conc	ore in a	ffices [dlto/] 12	5 ft2, 281 Occur	ant sensors in	offices 126 2	50 ft2, 2C1

¹ FOOTNOTES: PAFs outlined in <u>Table 140.6-A</u> include 1) Daylight dimming plus OFF; 2A) Occupant sensors in offices [dlte/] 125 ft²; 2B) Occupant sensors in offices 251 - 500 ft²; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Date/Time: Registration Provider: Energysoft

Report Version: 2019.1.003 Schema Version: rev 20190401

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CERTIFICATE OF COMPLIANCE

Project Name:

Charter Headend Yucca Valley Report Page:

Project Address:

CALIFORNIA ENERGY COMMISSION

RRCC-LTI-E

PROJECT Name:

Charter Headend Yucca Valley Report Page:

6720 La Contenta Road Date Prepared;

8/22/2022

DOCU	IMENTATION AUTHOR'S DECLARATION STATEMENT	
l certi	fy that this Certificate of Compliance documentation is accu	ırate and complete.
	entation Author Name:	Documentation Author Signature:
Kevin (Groenenboom	Makrober
Compan	**************************************	Signature Date:
Progre	ssive Architecture Engineering I, Inc.	8-22-2022
Address		CEA/ HERS Certification Identification (if applicable):
1811 4	Mile Rd NE	
City/Sta	te/Zip:	Phone:
Grand	Rapids MI 49525	(616) 361-2664
RESPO	ONSIBLE 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 re-	sponsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3.	The energy features and performance specifications, materials, components, an of Title 24, Part 1 and Part 6 of the California Code of Regulations.	nd manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requireme
4.	The building design features or system design features identified on this Certific plans and specifications submitted to the enforcement agency for approval with	cate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, in this building permit application.
5.		If be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable mpliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Respons	sible Designer Name:	Responsible Designer Signature:
David	Hershcer	
Compan	Diana and the same	Date Signed:
Progre	ssive Architecture Engineering I, Inc.	8/23/2022
Address		License:
1811 4	Mile Rd NE	19267
City/Sta	te/Zip:	Phone:
Grand	Rapids MI 49525	616-361-2664

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CERTIFICATE OF COMPLIANCE

Project Name:

Charter Headend Yucca Valley Report Page:

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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This table documents clerestories, horizontal slats or light shelves meet the requirements in §140.3(d) if a Power Adjustment Factor was claimed on Table P. These features must be documented on the architectural plans or where appropriate within the construction documents. This PAF also must be verified in the field with an acceptance test per Table U.

Compliance Strategy

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included 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/NRCI/

Yes	No	Form/Title	Field In	spector
ies	INO	FORTIN TIES	Pass	Fail
•	0	NRCI-LTI-01-E - Must be submitted for all buildings		
0		NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		П
0	•	NRCI-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.		
•	0	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.		
		NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.		

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included 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/attcp/providers.html

Yes	Mo	No Form/Title	Field In	spector
ies	INO	FOITY TILE	Pass	Fail
•		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
0		NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
•	0	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
0		NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)		

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-22 15:06:20

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STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name:

Charter Headend Yucca Valley Report Page:

Project Address:

CALIFORNIA ENERGY COMMISSION
PROCE-LTO-E

Report Page:

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8/22/2022

A. GI	NERAL INFORMATION						
01	Project Location (city)	Yucca	Valley		en (10) 101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2224	
02	Climate Zone			04	Total Illuminated Hardscape Area (ft ²)	2334	
03	Outdoor Lighting Zone per Title 24 Part 1	510.	14 or as designated by Authority Ha	ving Jurisdi	ction (AHJ):		
	LZ-0: Very Low - Undeveloped Parkland	M	LZ-2: Moderate - Rural Areas		LZ-4: High - Must be reviewed by CA E	nergy Commission for Approva	
	LZ-1: Low - Developed Parkland		LZ-3: Moderately High - Urban Area	s			

B. PROJECT SCOPE

This table includes 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)21, for alterations.

Ny Project Consists of:										
01	02									
New Lighting System	Must Comply with Allowances from <u>§140.7</u>									
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	s your alteration increasing the connected lighting load (Watts)?								
03	04		05							
% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered	Calculation Method								
□ < 10% □ >= 10% and < 50% □ >= 50%										
Please proceed to Table F. Outdoor Lighting Fixture Schedule to de	fine the project's luminaires.									

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019,1.003

Schema Version: rev 20190401

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Schema Version: rev 20190401

Author

Checker

STATE OF CALIFORNIA Outdoor Lighting

NRCC-LTO-E		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Charter Headend Yucca Valley Report Page:	(Page 2 of 8)
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through 1. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer

		Calculations of	f Tot	al Allowed Ligh	nting	Power (Watts)	5140	0.7 or §141.0(b)2L				Cor	mpliance Results	
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage 5140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	2	Total Actual (Watts)	07 must be >= 08
350.26	+	15	+	-	+		+	-	OR	-	=	365.26	2	180	COMPLIES
					Cuto	off Compliance	(See	Table G for De	tails)						N/A
				C	ontro	ls Compliance	(See	Table H for De	tails)						COMPLIE

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Date/Time: Registration Provider: Energysoft Registration Number

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-22 15:06:20

Schema Version: rev 20190401

Outdoor Lighting

- m. m. c. i - i - i - i - i - i - i - i - i - i			
NRCC-LTO-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Charter Headend Yucca Valley	Report Page:	(Page 4 of 8)
Project Address:	6720 La Contenta Road	Date Prepared:	8/22/2022

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates 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.

01	02	03	04	0	5
Area Description	Shut-Off §130.2(c)1	Auto-Schedule 5130,2(c)2	Motion Sensor §130.2(c)3	Field In	spector
	3236.2(2/2	222351515	Transfers	Pass	Fail

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Charter Headend Yucca Valley Report Page:	(Page 3 of 8)
Project Address:	6720 La Contenta Road Date Prepared:	8/22/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)21 only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	1	Ö
Name or Item Tag	Complete Luminaire	Description	Watts per Juminaire ^{1, 2}	How is Wattage determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output 5130.2(b) 4	Fie Inspe Pass	
W1	LED Wallpack	☐ Linear	30	Mfr. Spec	5	New	0	180	NA: < 6200 lumens	П	
						Tota	Design Watts:	180			

* NOTES: 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)

¹FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u>

² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

³ 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

⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by <u>§130.2(b)</u>

G.	CUTO	FF I	REOL	JIREN	IENTS	(BUG
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This section does not apply to this project.

Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
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Outdoor Lighting

NRCC-LTO-E		CALIFORN	A ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Charter Headend Yucca Valley Report Page		(Page 5 of 8)
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I. LIGHTING POWER ALLOWANCE (per	§140.7)										
This table includes areas using allowance c	alculations per <u>§140.7</u> . (Seneral Hardsca	pe				01				
Allowance is per <u>Table 140.7-A</u> while "Use i			LOU LIBER	☑ General 'Use it		se it or lose it" Allowance (select all that apply) (select all that a					
					⊠ Per Application Table I		es Frontage Table K	☐ Ornamental Table L	Per Specific Area Table M		
Calculated General Hardscape Lighting Pov	ver Allowance per Table	140.7-A (LZ 0, 1	& 4)								
This section does not apply to this project.											
Calculated General Hardscape Lighting Pov	ver Allowance per Table	140.7-A (LZ 2 &	3)								
02	03	04	05	06	0	7	08	9	10		
		Area V	Vattage Allowanc	(AWA)		Area V	Vattage Allow	ance (AWA)	+university and		
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft ²)	Area Allowar (Watts)	nce Perin Lengt	neter th (lf)	Allowed Density (W	Allowance	AWA + LWA (Watts)		
Building Perimeter	Asphalt	2334	0.025	53,682	27	74	0.4	46.58	100.262		
					Initial W	attage	Allowance fo	r Entire Site (Watts):	250		
					Total	al Gene	ral Hardscap	e Allowance (Watts):	350.262		

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Registration Provider: Energysoft

able includes areas using the	wattage allowance per application from	m <u>Table 140.7</u>	<u>B</u> .						
01	02	03	04	05	06	07	08	09	10
		CALCULAT	ED ALLOWAN	CE (Watts)		DESIGN	WATTS		
Area Description	iption Application per Table 140.7-8	# of Locations	Allowance per Location ²	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Main Entrance	Building Entrance/Exit	ī	15	15	W1	30	1	30	15
					Total	Design Watts	for this Area:	30	
						Total A	llowance (Wa	tts) All Areas:	15

¹ FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

² The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per <u>Table 140.7-B</u>

³ For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALI	LOWANCE: SALES FRONTAGE
	not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

Registration Number:

STATE OF CALIFORNIA

NRCC-LTO-E

Project Name:

Project Address:

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Registration Date/Time:

Registration Provider: Energysoft

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8/22/2022

CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

	entation Author Name: Groenenboom	Documentation Author Signature:					
Company: Progressive Architecture Engineering I, Inc.		Signature Date: 8-22-2022					
Address 1811 4	s: 4 Mile Rd NE	CEA/ HERS Certification Identification (if applicable):					
City/Sta Grand	nte/Zip: Rapids MI 49525	Phone: (616) 361-2664					
RESPO	ONSIBLE PERSON'S DECLARATION STATEMENT						
l 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 requirement 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, calculation 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 I inspections. I understand that a completed signed copy of this Certificate of Com	be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable pliance is required to be included with the documentation the builder provides to the building owner at occupancy.					
50. 22	sible Designer Name:	Responsible Designer Signature					
David	Hershcer	//w W//					

Charter Headend Yucca Valley Report Page:

6720 La Contenta Road Date Prepared:

Registration Number:

Progressive Architecture Engineering I, Inc.

1811 4 Mile Rd NE

Grand Rapids MI 49525

City/State/Zip:

Registration Date/Time:

Date Signed:

icense:

19267

8/23/2022

616-361-2664

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Charter Headend Yucca Valley Report Page: (Page 7 of 8) Project Name: Project Address: 6720 La Contenta Road Date Prepared: 8/22/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included 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/NRCI/

Yes	No	Form/Title	Field Inspector	
res			Pass	Fail
•	0	NRCI-LTO-01-E - Must be submitted for all buildings		
6		NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		(D)

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included 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
	•	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.		

Registration Number:

Registration Date/Time:

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Registration Provider: Energysoft

by David John Herscher using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ISSUANCE BIDS AND PERMITS

REVISIONS

08/22/2022

NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER PROFESSIONAL DRAWN BY CHECKED BY

Author

Checker