



Energy and Water Efficiency Compliance Report

Echo Park – Taix Square

1911 Sunset Blvd.
Los Angeles, CA 90026

June 30, 2020

prepared for

1911 Sunset Investors, LLC

5000 E. Spring St., Ste 500
Long Beach, CA 90815

prepared by

Green Dinosaur, Inc

8695 Washington Blvd I Suite 205
Culver City, CA 90232

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TITLE 24-2016 COMPLIANCE REPORT

WATER USE CALCULATION TABLE

1. EXECUTIVE SUMMARY

1.1. PROJECT DESCRIPTION

The project consists of a new, one hundred seventy (170) unit multi-family complex located at 1911 Sunset Blvd. in Los Angeles, California. The project includes (13) studio, (13) Jr. one-bedroom, (100) one-bedroom, (36) two-bedroom, (4) three-bedroom units, and (4) town homes with 13,000 sf of commercial area over two (2) levels of subterranean garage on Levels P1 & P2. The project is generally described in the architectural set drawing package provided to the Consultant as prepared by TSM Architects and dated June 18, 2020. The report sets forth the energy and water performance requirements for the project and the simulation process utilized, the simulation results, systems, and equipment modeled to achieve the performance results. The systems and equipment modeled have been selected to meet the minimum energy requirements committed under the project's entitlement requirements and related programs and codes.

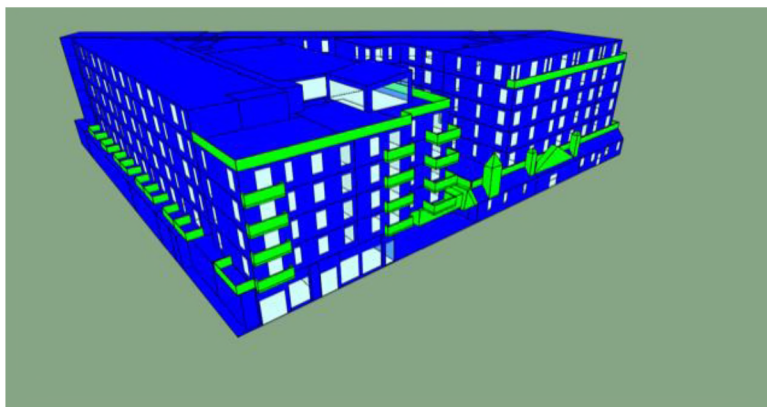
1.2. PROJECT TARGETS

The project has identified the following energy targets to ensure compliance with funding and code requirements:

- **21155.1 CEQA exemption for transit priority project subsection:** The buildings in the transit priority project are 15 percent more energy efficiency than required by Chapter 6 of the Title 24 of the California Code of Regulations and the buildings and landscaping are designed to achieve 25 percent less water usage than the average household in the region. The project design exceeds both objectives above.

1.3. ENERGY SIMULATION PROCESS

The CBECC Com software platform was selected for demonstrating energy performance under the 2016 Building Energy Efficiency Standards (2016 Title 24, Part 6). The software links CBECC-Com and EnergyPlus simulation engines for compliance runs and is approved by the California Energy Commission (CEC) for use under the 2016 Building Energy Efficiency Standards. The building geometry was modeled within IES VE based on the approved architectural bid set drawing package provided to the Consultant by the Client as prepared by TSM Architects and dated June 18, 2020. The energy model was developed under the Performance Method. Internal loads and schedules were specified in the model as dictated by the simulation protocol.



2. ENERGY EFFICIENCY

2.1. ENERGY EFFICIENCY MEASURES

The preliminary energy model for the building was developed basing our initial assumptions on the referenced project drawings and specifications and Prescriptive criteria outlined in 2016 Title 24, Part 6 Building Energy Efficiency Standards for high-rise residential buildings, when not defined. This prescriptive baseline is what the energy performance of the project will be ultimately compared against when we look at the percentage of time dependent value (TDV) energy savings over the Standard. The “Proposed Target” systems were used to generate the initial energy simulation results in full report in Appendices.

Building Envelope

- **External Wall (Wood framed) [U-factor]:** 0.065 (2x6, 16” O.C. R-21 cavity ins.)
- **External Wall (Metal framed) [U-factor]:** 0.149 (2x6, 16”O.C. R-19 cavity plus two layers of gypsum board on interior surface of wall)
- **External Wall (Concrete) [U-factor]:** 0.549 (140 lb/ft³ - 8in.)
- **Roof (Wood framed rafter) [U-factor]:** 0.034 (2x12 16” O.C. R-30 cavity ins.)
- **Roof (Wood framed rafter) [aged reflectance / aged emittance]:** 0.85 / 0.85 (must be CRRC Certified Cool Roofing)
- **Floor / Soffits (Wood Framed):** 0.091 (2x6 16” O.C. R-13 cavity ins.)

Envelope - Glazing

- **Window to Wall Ratio (WWR) [%]:** 21.5%
- **Fixed Window (NFRC) [U-factor / SHGC / Vis Trans]:** 0.28 / 0.22 / 0.71
- **Curtainwall or Storefront (NFRC) [U-factor / SHGC / Vis Trans]:** 0.41 / 0.22 / 0.50

Lighting

- **High-efficacy, LED lamp types for common areas:** Target lighting power density reduction in non-residential areas of 17.6% with LED lighting and T24 controls.

HVAC - Space Heating and Cooling

- **High-efficiency 16 SEER/HSPF=9.5 split system heat pumps for heating, ventilating, and air-conditioning (HVAC):** Split system heat pumps have one outdoor unit connected to one indoor fan coil units (FCU). Seasonal energy efficiency ratio (SEER) represents the “average” efficiency of HVAC equipment. By increasing this value over typical code-minimum efficiencies, the equipment provides the same amount of heating and cooling while using less electricity to operate it. Providing individual systems for each apartment allows the system to be powered from the tenant’s electric meter, which tends to encourage more responsible use and lower energy consumption.

Domestic Water Heating

- **central hot water systems:** Central Gas water heaters have a 95% thermal efficiency and a 50% solar thermal fraction to achieve a 36.0% TDV energy savings versus baseline.
- **High-efficiency water fixtures:** Using water-efficient fixtures inherently uses less hot water, which reduces the amount of water being heated and overall energy consumption.

2.2. HVAC EQUIPMENT SIZING AND SELECTION

The residential heating and cooling loads were auto-sized per apartment unit and the HVAC systems were assigned based on assignments in the architectural bid set drawing package.

Table 1 - HVAC System selection and assignment

Space	Indoor Fan coil	Outdoor Heat Pump	Cooling				Heating		Fan	
			Net capacity (kBtuh)	Sensible capacity (kBtuh)	SEER	EER	Net Capacity (kBtuh)	HSPF	Supply air (cfm)	Fan power (HP)
Standard-Res Units	Performance Spec	Performance Spec	Auto-size	Auto-size	16.0	13.0	Auto-size	9.5	400/T	AS
Amenity	Performance Spec	Performance Spec	Auto-size	Auto-size	16.0	13.0	Auto-size	9.5	400/T	AS
NOTE: All corridors all buildings are mechanically ventilated, and not directly conditioned. All split system heat pumps are AHRI certified. Performance data retrieved from AHRI product rating certificate. Occupancy density for all spaces were assumed to be equal to what is prescribed by code unless otherwise mentioned.										

2.3. ENERGY EFFICIENCY UPDATES REQUIRED

The bullet points below are the updates that are required to be made to the model to achieve the compliance total.

- Update and Improve HVAC split system heat pumps performance to achieve SEER=16 & HSPF=9.5 or greater for all residential units as well as units serving amenity areas.
- Update and Improve window performance for residential units of U-factor=0.28 and SHGC=0.22 for all residential windows and NFRC certificates.
- Update and improve storefront window performance for retail and lobby and other areas with storefront glazing to U-factor=0.41 and SHGC=0.22 with CMA NFRC certificates.
- Update Metal framed wall assemblies to be a maximum U-factor=0.151 or less on exterior walls which is a Mandatory Measure in section 120.7 of Energy Code.

2.4. ENERGY SAVINGS SUMMARY

Once the energy simulation models were completed based on the Architectural Set drawings, a comparative analysis was done to determine the energy and water performance relative to the Project Energy Targets above.

The performance of the current proposed design energy model (in kBtu/ sq.ft TDV) anticipates using 17.3% less energy than Title 24-2016 energy code requirements for the building. Refer to the Building Energy Analysis Report below to see additional details about the result by each energy end-use.

3. WATER EFFICIENCY

3.1. WATER EFFICIENCY MEASURES

The water calculation table was developed based on the projected plumbing water fixtures that is anticipated per architectural plans. It was compared against the average regional water use in Gallons Per Capita Per Day of 131 gallons as stated in the Metropolitan Water District *Water Tomorrow Annual Report to the California State Legislature, Covering Fiscal Year July 2018 – June 2019*. This baseline is multiplied by 2.42 people per unit (170 units) to determine the average daily water use baseline per residential unit, which is 317 gallons per unit per day.

The projected water fixture flow rates based on City of LA Green Building requirements and water conservation ordinances will be met as shown below. Other elements are calculated using accepted industry practice such as for landscape irrigation areas of 3,413 sf potable water use was calculated with conservative figures using the LEED water calculator and derived a daily rate of 164 gallons. The plumbing fixture flow rates are as follows and are based on the 2020 City of Los Angeles GRN 16 form for maximum plumbing fixture flow rates:

- **Showerheads:** 1.8 GPM (gallons per minute)
- **Lavatory faucets:** 1.2 GPM
- **Kitchen faucets:** 1.5 GPM
- **Tank water closets (toilets):** 1.0 GPF (gallons per flush)
- **Clothes washers:** Energy Star certified, 5.1 WF (water factor)
- **Dishwashers:** Energy Star certified, 4 GPC (gallons per cycle)

3.2. WATER SAVINGS SUMMARY

Once the water table calculations were completed based on projected plumbing water fixture selections, a comparative analysis was done to determine the water consumption relative to the regional average household water use. The savings of the current proposed water plumbing fixtures calculations (in gallons) results in using 73.9% less water than the regional average household water use. Refer to Water Use Calculation Table.

TITLE 24-2016 COMPLIANCE REPORT

FULL REPORT ON FOLLOWING PAGES

Project Name:	Echo Park - Taix Square	NRCC-PRF-01-E	Page 1 of 44
Project Address:	1911 Sunset Blvd Los Angeles 90026	Calculation Date/Time:	14:06, Thu, Jun 18, 2020
Compliance Scope:	NewComplete	Input File Name:	2020_0618 Echo Park Taix Square_v2.cibd16x

A. PROJECT GENERAL INFORMATION					
1.	Project Location (city)	Los Angeles	8.	Standards Version	Compliance2016
2.	CA Zip Code	90026	9.	Compliance Software (version)	CBECC-Com 2016.3.0 SP2
3.	Climate Zone	9	10.	Weather File	LOS-ANGELES-DOWNTOWN_722874_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	154,775 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	126,355 ft²	12.	Permitted Scope of Work	NewComplete
6.	Total # of Stories (Habitable Above Grade)	6	13	Building Type(s)	High-Rise Residential
7.	Total # of dwelling units	170	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ² -yr)					\$ 140.1
BUILDING COMPLIES					
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard	
Space Heating	0.91	0.72	0.19	20.9%	
Space Cooling	14.19	16.67	-2.48	-17.5%	
Indoor Fans	13.80	13.37	0.43	3.1%	
Heat Rejection	1.34	--	1.34	--	
Pumps & Misc.	3.43	--	3.43	--	
Domestic Hot Water	15.40	9.86	5.54	36.0%	
Indoor Lighting	8.90	7.33	1.57	17.6%	
COMPLIANCE TOTAL	57.97	47.95	10.02	17.3%	
Receptacle	45.03	45.03	0.0	0.0%	
Process	--	--	--	--	
Other Ltg	38.17	36.81	1.4	3.6%	
Process Motors	--	--	--	--	
TOTAL	141.17	129.79	11.4	8.1%	

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C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Domestic Hot Water: Check mechanical	Compliance Margin By Energy Component (from Table B column 4) Domestic Hot Water Pumps & Misc. Indoor Lighting Heat Rejection Indoor Fans Space Heating Space Cooling Penalty Energy Credit
2nd	Pumps & Misc.: Check mechanical	
3rd	Indoor Lighting: Check lighting	
4th	Heat Rejection: Check envelope and mechanical	
5th	Indoor Fans: Check envelope and mechanical	
6th	Space Heating: Check envelope and mechanical	
7th	Space Cooling: Check envelope and mechanical	

D. EXCEPTIONAL CONDITIONS

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

-specify-

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY				
Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project				
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.				
Building Component	Compliance Path		Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	-specify-
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	-specify-
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	-specify-
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☒	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	-specify-
	☐	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens	☐	Performance	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performance	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY							
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.			
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐	☒	Commissioning: §120.8 Simple Systems	NRCC-CXR-01 / 02 / 03 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Complex Systems	NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒			☐	☒	Covered Process: §120.6	NRCC-PRC-01-E
				☐	☒	Parking Garage	NRCC-PRC-02-E
				☐	☒	Commercial Refrigeration	NRCC-PRC-05-E
				☐	☒	Warehouse Refrigeration	NRCC-PRC-06/07/08-E
				☐	☒	Compressed Air	NRCC-PRC-10-E
				☐	☒	Process Boilers	NRCC-PRC-11-E

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.		Confirmed	
Building Component	Compliance Forms <i>(required for submittal)</i>	Pass	Fail
Envelope	☐ NRCI-ENV-01-E - For all buildings	☐	☐
	☐ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☐ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☐ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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Building Component	Compliance Forms (required for submittal)	Pass	Fail
Plumbing	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☐ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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Building Component	Compliance Forms (required for submittal)	Pass	Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)									
1.	Total Conditioned Floor Area	154,775 ft²	5.	Number of Floors Above Grade	6	Confirmed			
2.	Total Unconditioned Floor Area	126,355 ft²	6.	Number of Floors Below Grade	0	Pass	Fail		
3.	Addition Conditioned Floor Area	0 ft²							
4.	Addition Unconditioned Floor Area	0 ft²							
7. Opaque Surfaces & Orientation		8. Total Gross Surface Area		9. Total Fenestration Area				10. Window to Wall Ratio	
North Wall		14,329 ft²		3,318 ft²		23.2%		☐	☐
East Wall		11,643 ft²		2,775 ft²		23.8%		☐	☐
South Wall		13,053 ft²		3,304 ft²		25.3%		☐	☐
West Wall		19,466 ft²		3,197 ft²		16.4%		☐	☐
Total		58,491 ft²		12,594 ft²		21.5%		☐	☐
Roof		33,333 ft²		0 ft²		00.0%		☐	☐

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J. FENESTRATION ASSEMBLY SUMMARY								§ 110.6	Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.	Pass	Fail
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method ¹	Assembly Method	Area ft ²	Overall U-factor	Overall SHGC	Overall VT	Status ²		
T24 Fixed Window U-0.28 SHGC-0.22	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	10407	0.28	0.22	0.71	N	☐	☐
T24 Storefront U-0.41 SHGC-0.22	VerticalFenestration CurtainWall N/A	NFRC Rated	SiteBuilt	2603	0.41	0.22	0.50	N	☐	☐

¹ Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

² Status: N - New, A - Altered, E - Existing

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No
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K. OPAQUE SURFACE ASSEMBLY SUMMARY							§ 120.7/ § 140.3	Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	Pass	Fail
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹		
Internal Wood Ceiling/Floor	InteriorFloor	125749	Wood	13	NA	U-Factor: 0.062	N	☐	☐
InternalWoodPartition	InteriorWall	103899	Wood	13	NA	U-Factor: 0.091	N	☐	☐
WoodFrameWall	ExteriorWall	55829	Wood	21	NA	U-Factor: 0.065	N	☐	☐
FlatNonresWoodFramingAndOtherRoofU034 L1	Roof	7979	NA	0	29	U-Factor: 0.034	N	☐	☐
FlatNonresWoodFramingAndOtherRoofU034	Roof	34486	NA	0	29	U-Factor: 0.034	N	☐	☐
MassFloorU269	ExteriorFloor	971	NA	0	NA	U-Factor: 0.174	N	☐	☐
Underground wall	ExteriorWall	16405	NA	0	NA	U-Factor: 0.549	N	☐	☐
Underground floor	ExteriorFloor	41154	NA	0	NA	U-Factor: 0.485	N	☐	☐
MetalFrameWall	ExteriorWall	12731	Metal	19	NA	U-Factor: 0.149	N	☐	☐
InternalMetalPartitionR13	InteriorWall	26727	Metal	0	NA	U-Factor: 0.320	N	☐	☐
Internal Concrete Floor/Ceiling	InteriorFloor	113255	NA	0	NA	U-Factor: 0.184	N	☐	☐
InternalMetalPartitionR19	InteriorWall	6319	Metal	19	NA	U-Factor: 0.144	N	☐	☐

¹ Status: N - New, A - Altered, E - Existing

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L. ROOFING PRODUCT SUMMARY							\$ 140.3	Confirmed	
1.	2.	3.	4.	5.	6.	7.	Pass	Fail	
Product Type	Product Density (lb/ft²)	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	Roofing Product Description			
FlatNonresWoodFramingAndOtherRoofU034 L1	1.006	0.85	0.85	Not Provided	Yes	CRRC Prod. ID: 123	☐	☐	
FlatNonresWoodFramingAndOtherRoofU034	1.006	0.85	0.85	Not Provided	Yes	CRRC Prod. ID: 434	☐	☐	

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)										§ 110.1 / § 110.2			
Dry System Equipment ¹ (Fan & Economizer info included below in Table N)												Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Pass	Fail
Equip Name	Equip Type	System Type (Simple ² or Complex ³)	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N) ⁴	Status ⁵		
								Cooling	Heating				
Sys L1 GYM	SZHP (Packaged3Phase)	Simple	1	69	No	0	69	EER-13.0	COP-3.40	No	N	☐	☐
Sys L1 OFFICE	SZHP (Split1Phase)	Simple	1	22	No	0	22	SEER-16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L1 RETAIL 1-2	SZHP (Packaged3Phase)	Simple	1	64	No	0	64	SEER-16.00 / EER-13.00	HSPF-9.50	No	N	☐	☐
Sys L1 RETAIL 03	SZHP (Packaged3Phase)	Simple	1	92	No	0	92	EER-13.0	COP-3.40	No	N	☐	☐
Sys L1 RETAIL 04	SZHP (Packaged3Phase)	Simple	1	75	No	0	75	EER-13.0	COP-3.40	No	N	☐	☐
Sys L6 AMENETIES	SZHP (Packaged3Phase)	Simple	1	27	No	0	27	SEER-16.00 / EER-13.00	HSPF-9.50	No	N	☐	☐
Sys L2 RES UNIT 1BRx4	SZHP (Split1Phase)	Simple	1	15	No	0	15	SEER-16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 1Bx3	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER-16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)										§ 110.1 / § 110.2			
Dry System Equipment ¹ (Fan & Economizer info included below in Table N)												Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Pass	Fail
Equip Name	Equip Type	System Type (Simple ² or Complex ³)	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N) ⁴	Status ⁵		
								Cooling	Heating				
Sys L2 RES UNIT 1Bx4 JR1Bx4 01	SZHP (Split1Phase)	Simple	1	33	No	0	33	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 1Bx4 JR1Bx4 02	SZHP (Split1Phase)	Simple	1	32	No	0	32	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 2Bx1	SZHP (Split1Phase)	Simple	1	6	No	0	6	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 2Bx2	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 2Bx3	SZHP (Split1Phase)	Simple	1	17	No	0	17	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	SZHP (Split1Phase)	Simple	1	18	No	0	18	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L2 RES UNIT 3Bx1 2Bx2	SZHP (Split1Phase)	Simple	1	20	No	0	20	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 1Bx3	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 1Bx4	SZHP (Split1Phase)	Simple	1	15	No	0	15	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 1Bx5 JR1Bx3	SZHP (Split1Phase)	Simple	1	31	No	0	31	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)										§ 110.1 / § 110.2			
Dry System Equipment ¹ (Fan & Economizer info included below in Table N)												Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Pass	Fail
Equip Name	Equip Type	System Type (Simple ² or Complex ³)	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N) ⁴	Status ⁵		
								Cooling	Heating				
Sys L3 RES UNIT 1Bx7 JR1Bx4	SZHP (Split1Phase)	Simple	1	43	No	0	43	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 2Bx1	SZHP (Split1Phase)	Simple	1	5	No	0	5	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 2Bx2	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 2Bx3	SZHP (Split1Phase)	Simple	1	17	No	0	17	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L3 RES UNIT 3Bx1 2Bx2	SZHP (Split1Phase)	Simple	1	20	No	0	20	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 1Bx3	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 1Bx4	SZHP (Split1Phase)	Simple	1	15	No	0	15	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 1Bx5 JR1Bx3	SZHP (Split1Phase)	Simple	1	31	No	0	31	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 1Bx7 JR1Bx4	SZHP (Split1Phase)	Simple	1	43	No	0	43	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 2Bx1	SZHP (Split1Phase)	Simple	1	5	No	0	5	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)										§ 110.1 / § 110.2			
Dry System Equipment ¹ (Fan & Economizer info included below in Table N)												Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Pass	Fail
Equip Name	Equip Type	System Type (Simple ² or Complex ³)	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N) ⁴	Status ⁵		
								Cooling	Heating				
Sys L4 RES UNIT 2Bx2	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 2Bx3	SZHP (Split1Phase)	Simple	1	17	No	0	17	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L4 RES UNIT 3Bx1 2Bx2	SZHP (Split1Phase)	Simple	1	20	No	0	20	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 1Bx3	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 1Bx4	SZHP (Split1Phase)	Simple	1	15	No	0	15	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 1Bx5 JR1Bx3	SZHP (Split1Phase)	Simple	1	31	No	0	31	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 1Bx7 JR1Bx4	SZHP (Split1Phase)	Simple	1	45	No	0	45	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 2Bx1	SZHP (Split1Phase)	Simple	1	6	No	0	6	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 2Bx2	SZHP (Split1Phase)	Simple	1	13	No	0	13	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L5 RES UNIT 2Bx3	SZHP (Split1Phase)	Simple	1	18	No	0	18	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)										§ 110.1 / § 110.2			
Dry System Equipment ¹ (Fan & Economizer info included below in Table N)												Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Pass	Fail
Equip Name	Equip Type	System Type (Simple ² or Complex ³)	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N) ⁴	Status ⁵		
								Cooling	Heating				
Sys L5 RES UNIT 3Bx1 2Bx2	SZHP (Split1Phase)	Simple	1	25	No	0	25	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 1Bx2	SZHP (Split1Phase)	Simple	1	11	No	0	11	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 1Bx3 01	SZHP (Split1Phase)	Simple	1	21	No	0	21	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 1Bx3 02	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 1Bx4 01	SZHP (Split1Phase)	Simple	1	19	No	0	19	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 1Bx4 02	SZHP (Split1Phase)	Simple	1	19	No	0	19	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 1Bx4 JR1Bx3	SZHP (Split1Phase)	Simple	1	35	No	0	35	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT 2Bx1	SZHP (Split1Phase)	Simple	1	6	No	0	6	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐
Sys L6 RES UNIT Sx1 2Bx1	SZHP (Split1Phase)	Simple	1	12	No	0	12	SEER- 16.000 / EER-13.000	HSPF-9.500	No	N	☐	☐

¹ Dry System Equipment includes furnaces, air handling units, heat pumps, etc.

² Simple Systems must complete NRCC-CXR-03-E commissioning design review form

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³ Complex Systems must complete NRCC-CXR-04-E commissioning design review form

⁴ A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS

⁵ Status: N - New, A - Altered, E - Existing

Wet System Equipment ¹								Pumps					Confirmed	
12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Pass	Fail
Equip Name	Equip Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Tank Ext. R Value	Qty	GPM	HP	VSD (Y/N)	Status ²		
SHW Heater	Storage	1	150.00	400	Thrml. Eff.: 0.95	SBLF: 0.020	NA		NA		No	N	☐	☐
RDHW Heater	Boiler	1	150.00	500	Thrml. Eff.: 0.950	NA	12.0	NA	NA	(kW)	NA	N	☐	☐

¹ Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.

² Status: N - New, A - Altered, E - Existing

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)	No
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N. ECONOMIZER & FAN SYSTEMS SUMMARY ¹												\$ 140.4	Confirmed	
1.	2.	3.					4.					5.	Pass	Fail
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)		
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control			
Sys L1 GYM	343	2730	1.500	1.434	3.00	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
Sys L1 OFFICE	237	990	0.750	0.520	3.00	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
Sys L1 RETAIL 1-2	574	2930	2.000	1.539	3.00	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
Sys L1 RETAIL 03	1026	4190	3.000	2.201	3.00	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
Sys L1 RETAIL 04	745	3420	2.000	1.797	3.00	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
Sys L6 AMENETIES	304	1220	0.750	0.641	3.00	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
Sys L2 RES UNIT 1BRx4	257	530	0.250	0.152	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐
Sys L2 RES UNIT 1Bx3	148	420	0.167	0.120	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐

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N. ECONOMIZER & FAN SYSTEMS SUMMARY ¹													\$ 140.4	Confirmed	
1.	2.	3.					4.					5.	Pass	Fail	
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)			
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control				
Sys L2 RES UNIT 1Bx4 JR1Bx4 01	435	1160	0.500	0.332	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L2 RES UNIT 1Bx4 JR1Bx4 02	436	1120	0.500	0.321	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L2 RES UNIT 2Bx1	94	200	0.100	0.057	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L2 RES UNIT 2Bx2	185	430	0.167	0.123	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L2 RES UNIT 2Bx3	258	580	0.250	0.166	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	220	610	0.250	0.175	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L2 RES UNIT 3Bx1 2Bx2	276	700	0.250	0.201	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 1Bx3	156	420	0.167	0.120	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 1Bx4	257	520	0.250	0.149	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 1Bx5 JR1Bx3	448	1090	0.500	0.312	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 1Bx7 JR1Bx4	683	1470	0.750	0.421	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 2Bx1	94	190	0.100	0.054	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 2Bx2	185	430	0.167	0.123	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	

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N. ECONOMIZER & FAN SYSTEMS SUMMARY ¹													\$ 140.4	Confirmed	
1.	2.	3.					4.					5.	Pass	Fail	
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)			
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control				
Sys L3 RES UNIT 2Bx3	258	600	0.250	0.172	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L3 RES UNIT 3Bx1 2Bx2	276	680	0.250	0.195	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 1Bx3	156	420	0.167	0.120	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 1Bx4	257	520	0.250	0.149	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 1Bx5 JR1Bx3	448	1080	0.500	0.309	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 1Bx7 JR1Bx4	683	1470	0.750	0.421	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 2Bx1	94	190	0.100	0.054	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 2Bx2	185	430	0.167	0.123	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 2Bx3	258	600	0.250	0.172	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L4 RES UNIT 3Bx1 2Bx2	276	680	0.250	0.195	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 1Bx3	156	420	0.167	0.120	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 1Bx4	257	530	0.250	0.152	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 1Bx5 JR1Bx3	448	1090	0.500	0.312	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 1Bx7 JR1Bx4	683	1570	0.750	0.450	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	

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N. ECONOMIZER & FAN SYSTEMS SUMMARY ¹													\$ 140.4	Confirmed	
1.	2.	3.					4.					5.	Pass	Fail	
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)			
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control				
Sys L5 RES UNIT 2Bx1	94	190	0.100	0.054	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 2Bx2	185	440	0.167	0.126	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 2Bx3	258	610	0.250	0.175	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L5 RES UNIT 3Bx1 2Bx2	276	860	0.333	0.246	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 1Bx2	126	390	0.167	0.112	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 1Bx3 01	232	740	0.333	0.212	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 1Bx3 02	156	420	0.167	0.120	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 1Bx4 01	257	650	0.250	0.186	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 1Bx4 02	249	660	0.250	0.189	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 1Bx4 JR1Bx3	456	1210	0.500	0.347	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT 2Bx1	94	210	0.100	0.060	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	
Sys L6 RES UNIT Sx1 2Bx1	136	420	0.167	0.120	1.00	ConstantVolume	NA	NA	NA	NA	NA	NA	☐	☐	

¹ Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

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O. EQUIPMENT CONTROLS			§ 120.2	Confirmed	
1.	2.	3.	Pass	Fail	
Equip Name	Equip Type	Controls			
Sys L1 GYM	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐	
Sys L1 OFFICE	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐	
Sys L1 RETAIL 1-2	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐	
Sys L1 RETAIL 03	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐	
Sys L1 RETAIL 04	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐	
Sys L6 AMENITIES	SZHP	1 Zones With CO2Sensor Vent. Control No Economizer No Supply Air Temp. Control Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐	

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O. EQUIPMENT CONTROLS			§ 120.2	Confirmed	
1.	2.	3.	Pass	Fail	
Equip Name	Equip Type	Controls			
SHWFluidSys	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC No Heat Recovery	☐	☐	

P. SYSTEM DISTRIBUTION SUMMARY					§ 120.4/ § 140.4(l)			
		Dry System Distribution					Confirmed	
1.	2.	3.	4.	5.		6.	Pass	Fail
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage will be verified per NA1 and NA2	Ducts		Status ¹		
				Insulation R-Value	Location			
Sys L1 GYM	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L1 OFFICE	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L1 RETAIL 1-2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L1 RETAIL 03	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L1 RETAIL 04	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 AMENETIES	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 1BRx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 1Bx4 JR1Bx4 01	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 1Bx4 JR1Bx4 02	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 2Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 2Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L2 RES UNIT 3Bx1 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐

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P. SYSTEM DISTRIBUTION SUMMARY					§ 120.4/ § 140.4(l)			
		Dry System Distribution					Confirmed	
1.	2.	3.	4.	5.		6.	Pass	Fail
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage will be verified per NA1 and NA2	Ducts		Status ¹		
				Insulation R-Value	Location			
Sys L3 RES UNIT 1Bx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 1Bx5 JR1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 1Bx7 JR1Bx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 2Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 2Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L3 RES UNIT 3Bx1 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 1Bx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 1Bx5 JR1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 1Bx7 JR1Bx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 2Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 2Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L4 RES UNIT 3Bx1 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 1Bx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 1Bx5 JR1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 1Bx7 JR1Bx4	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 2Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐

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P. SYSTEM DISTRIBUTION SUMMARY						§ 120.4/ § 140.4(l)		
		Dry System Distribution					Confirmed	
1.	2.	3.	4.	5.		6.	Pass	Fail
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage will be verified per NA1 and NA2	Ducts		Status ¹		
				Insulation R-Value	Location			
Sys L5 RES UNIT 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 2Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L5 RES UNIT 3Bx1 2Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 1Bx2	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 1Bx3 01	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 1Bx3 02	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 1Bx4 01	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 1Bx4 02	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 1Bx4 JR1Bx3	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT 2Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐
Sys L6 RES UNIT Sx1 2Bx1	SZHP	No	No	4.2	Conditioned	N	☐	☐

¹ Status: N - New, E - Existing

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	Yes
Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	Yes
Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	Yes

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) ³						§ 140.6	
						Confirmed	
1.	2.	3.	4.	5.		Pass	Fail
Occupancy Type ¹	Conditioned Floor Area ² (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance			
				Area Category Footnotes (Watts)	Tailored Method (Watts)		
Exercise Room	2,285	2,285	0	0	0	☐	☐

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Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) ³						§ 140.6	
						Confirmed	
1.	2.	3.	4.	5.		Pass	Fail
Occupancy Type ¹	Conditioned Floor Area ² (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance			
				Area Category Footnotes (Watts)	Tailored Method (Watts)	☐	☐
Office (250 square feet in floor area or less)	1,583	1,266	0	0	0	☐	☐
Retail Merchandise Sales, Wholesale Showroom	11,723	11,256	0	0	0	☐	☐
High-Rise Residential Living Spaces	138,575		0	0	0	☐	☐
Lounge, Recreation	609	438	0	0	0	☐	☐
Building Totals:	154,775	15,245	0	0	0		

¹ See Table 140.6-C

² See NRCC-LTI-01-E for unconditioned spaces

³ Lighting information for existing spaces modeled is not included in the table

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) ¹	§ 130.0
This Section Does Not Apply	

¹ If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES	§ 140.9
This Section Does Not Apply	

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS	§ 140.9
This Section Does Not Apply	

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS	§ 140.9
This Section Does Not Apply	

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S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS	§ 140.9
This Section Does Not Apply	

T. UNMET LOAD HOURS
This Section Does Not Apply

U. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.0	6.6	--	82.1	--	--
Space Cooling	55.5	64.2	-8.7	--	--	--
Indoor Fans	88.5	96.3	-7.8	--	--	--
Heat Rejection	5.1	--	--	--	--	--
Pumps & Misc.	21.8	--	--	--	--	--
Domestic Hot Water	1.1	1.1	0.0	1,632.2	1,039.8	--
Indoor Lighting	56.3	46.4	9.9	--	--	--
COMPLIANCE TOTAL	228.3	214.6	13.7	1,714.3	1,039.8	--
Receptacle	315.5	315.5	0.0	100.1	100.1	0.0
Process	--	--	--	--	--	--
Other Ltg	279.0	270.1	8.9	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	822.8	800.2	22.6	1,814.4	1,139.9	--

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	§ 10-103
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I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Lorcher	Signature: 
Company: Green Dinosaur	
Address: 8695 Washington Blvd	Signature Date: 06/18/2020
City/State/Zip: Culver City CA 90232	CEA Identification (If applicable): NR16-15-20004
Phone: 2134553311	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip: CA 0	Declaration Statement Type:	
Phone:	Title:	License #:

Responsible Lighting Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip: CA 0	Declaration Statement Type:	
Phone:	Title:	License #:

Responsible Mechanical Designer Name: -specify-	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip: CA 0	Declaration Statement Type:	
Phone:	Title:	License #:

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS				Confirmed	
1.	2.	3.	4.	Pass	Fail
Surface Name	Surface Type	Description of Assembly Layers	Notes		
Internal Wood Ceiling/Floor	InteriorFloor	Gypsum Board - 5/8 in. Wood framed roof, 16in. OC, 5.5in., R-13 Carpet - 3/4 in.		☐	☐
InternalWoodPartition	InteriorWall	Gypsum Board - 5/8 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 5/8 in.		☐	☐
WoodFrameWall	ExteriorWall	Stucco - 7/8 in. Plywood - 1/2 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 5/8 in.		☐	☐
FlatNonresWoodFramingAndOtherRoofU034 L1	Roof	Single Ply Roofing - 1/4 in. Compliance Insulation R28.63		☐	☐
FlatNonresWoodFramingAndOtherRoofU034	Roof	Single Ply Roofing - 1/4 in. Compliance Insulation R28.63		☐	☐
MassFloorU269	ExteriorFloor	Gypsum Board - 5/8 in. Air - Ceiling - 3/4 in. Concrete - 100 lb/ft3 - 6 in. Carpet - 3/4 in.		☐	☐
Underground wall	ExteriorWall	Concrete - 100 lb/ft3 - 6 in.		☐	☐
Underground floor	ExteriorFloor	Concrete - 100 lb/ft3 - 6 in.		☐	☐
MetalFrameWall	ExteriorWall	Stucco - 7/8 in. Plywood - 1/2 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in. Gypsum Board - 5/8 in.		☐	☐
InternalMetalPartitionR13	InteriorWall	Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 5/8 in.		☐	☐
Internal Concrete Floor/Ceiling	InteriorFloor	Gypsum Board - 5/8 in. Concrete - 100 lb/ft3 - 6 in. Carpet - 3/4 in.		☐	☐

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A. OPAQUE SURFACE ASSEMBLY DETAILS				Confirmed	
1.	2.	3.	4.	Pass	Fail
Surface Name	Surface Type	Description of Assembly Layers	Notes		
InternalMetalPartitionR19	InteriorWall	Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in. Gypsum Board - 5/8 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)
This Section Does Not Apply

C. OPAQUE DOOR SUMMARY							Confirmed	
1.	2.	3.	4.	5.	6.	7.	Pass	Fail
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Area	Overall U-factor	Status ¹		
ExtDoorU145	MetalInsulatedSingleLayerSectionalDoor	NFRCRated	Swinging	47	1.450	N	☐	☐
Door	MetalInsulatedSingleLayerSectionalDoor	NFRCRated	Swinging	3971	1.450	N	☐	☐

¹ Status: N - New, A - Altered, E - Existing

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT <i>(Adapted from 2016-NRCC-MCH-03-E)</i>																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Pass	Fail
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)		
Zn L1 GYM	Sys L1 GYM	2,730	NA	0.00	NA	NA	N	Sys L1 GYM	2,285	0.15	22.85	15.00	343	343	NA	N	NA	☐	☐

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A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Pass	Fail
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)		
Zn L1 OFFICE	Sys L1 OFFICE	990	NA	0.00	NA	NA	N	Sys L1 OFFICE	1,583	0.15	7.91	30.00	237	237	NA	N	NA	☐	☐
Zn L1 RETAIL 1-2	Sys L1 RETAIL 1-2	2,930	NA	0.00	NA	NA	N	Sys L1 RETAIL 1-2	2,870	0.20	23.92	24.00	574	574	NA	N	NA	☐	☐
Zn L1 RETAIL 03	Sys L1 RETAIL 03	4,190	NA	0.00	NA	NA	N	Sys L1 RETAIL 03	5,130	0.20	42.76	24.00	1,026	1,026	NA	N	NA	☐	☐
Zn L1 RETAIL 04	Sys L1 RETAIL 04	3,420	NA	0.00	NA	NA	N	Sys L1 RETAIL 04	3,723	0.20	31.03	24.00	745	745	NA	N	NA	☐	☐
Zn L2 RES UNIT 1BRx4	Sys L2 RES UNIT 1BRx4	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 1BRx4	3,213	0.08	10.00	24.28	243	257	NA	N	N	☐	☐
Zn L2 RES UNIT 1Bx3	Sys L2 RES UNIT 1Bx3	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 1Bx3	1,848	0.08	8.00	18.86	151	148	3	N	N	☐	☐
Zn L2 RES UNIT 1Bx4 JR1Bx4 01	Sys L2 RES UNIT 1Bx4 JR1Bx4 01	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 1Bx4 JR1Bx4 01	5,440	0.08	18.00	23.13	416	435	NA	N	N	☐	☐
Zn L2 RES UNIT 1Bx4 JR1Bx4 02	Sys L2 RES UNIT 1Bx4 JR1Bx4 02	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 1Bx4 JR1Bx4 02	5,449	0.07	16.00	25.43	407	436	NA	N	N	☐	☐
Zn L2 RES UNIT 2Bx1	Sys L2 RES UNIT 2Bx1	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 2Bx1	1,180	0.07	3.00	28.60	86	94	NA	N	N	☐	☐
Zn L2 RES UNIT 2Bx2	Sys L2 RES UNIT 2Bx2	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 2Bx2	2,314	0.07	6.00	28.14	169	185	NA	N	N	☐	☐
Zn L2 RES UNIT 2Bx3	Sys L2 RES UNIT 2Bx3	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 2Bx3	3,219	0.07	9.00	26.46	238	258	NA	N	N	☐	☐

Project Name:	Echo Park - Taix Square	NRCC-PRF-01-E	Page 28 of 44
Project Address:	1911 Sunset Blvd Los Angeles 90026	Calculation Date/Time:	14:06, Thu, Jun 18, 2020
Compliance Scope:	NewComplete	Input File Name:	2020_0618 Echo Park Taix Square_v2.cibd16x

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Pass	Fail
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft ²)	MIN. VENT PER AREA (CFM/ft ²)	DESIGN NUM. OF PEOPLE (CFM/person)	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)		
Zn L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	2,753	0.07	8.00	25.65	205	220	NA	N	N	☐	☐
Zn L2 RES UNIT 3Bx1 2Bx2	Sys L2 RES UNIT 3Bx1 2Bx2	NA	NA	0.00	NA	NA	N	Sys L2 RES UNIT 3Bx1 2Bx2	3,448	0.07	10.00	25.69	257	276	NA	N	N	☐	☐
Zn L3 RES UNIT 1Bx3	Sys L3 RES UNIT 1Bx3	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 1Bx3	1,948	0.08	6.00	24.48	147	156	NA	N	N	☐	☐
Zn L3 RES UNIT 1Bx4	Sys L3 RES UNIT 1Bx4	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 1Bx4	3,213	0.07	8.00	29.09	233	257	NA	N	N	☐	☐
Zn L3 RES UNIT 1Bx5 JR1Bx3	Sys L3 RES UNIT 1Bx5 JR1Bx3	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 1Bx5 JR1Bx3	5,600	0.07	16.00	26.00	416	448	NA	N	N	☐	☐
Zn L3 RES UNIT 1Bx7 JR1Bx4	Sys L3 RES UNIT 1Bx7 JR1Bx4	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 1Bx7 JR1Bx4	8,534	0.07	22.00	28.27	622	683	NA	N	N	☐	☐
Zn L3 RES UNIT 2Bx1	Sys L3 RES UNIT 2Bx1	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 2Bx1	1,180	0.07	3.00	28.60	86	94	NA	N	N	☐	☐
Zn L3 RES UNIT 2Bx2	Sys L3 RES UNIT 2Bx2	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 2Bx2	2,314	0.07	6.00	28.14	169	185	NA	N	N	☐	☐
Zn L3 RES UNIT 2Bx3	Sys L3 RES UNIT 2Bx3	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 2Bx3	3,219	0.07	9.00	26.46	238	258	NA	N	N	☐	☐

Project Name:	Echo Park - Taix Square	NRCC-PRF-01-E	Page 29 of 44
Project Address:	1911 Sunset Blvd Los Angeles 90026	Calculation Date/Time:	14:06, Thu, Jun 18, 2020
Compliance Scope:	NewComplete	Input File Name:	2020_0618 Echo Park Taix Square_v2.cibd16x

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Pass	Fail
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE (CFM/person)	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)		
Zn L3 RES UNIT 3Bx1 2Bx2	Sys L3 RES UNIT 3Bx1 2Bx2	NA	NA	0.00	NA	NA	N	Sys L3 RES UNIT 3Bx1 2Bx2	3,448	0.07	10.00	25.69	257	276	NA	N	N	☐	☐
Zn L4 RES UNIT 1Bx3	Sys L4 RES UNIT 1Bx3	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 1Bx3	1,948	0.08	6.00	24.48	147	156	NA	N	N	☐	☐
Zn L4 RES UNIT 1Bx4	Sys L4 RES UNIT 1Bx4	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 1Bx4	3,213	0.07	8.00	29.09	233	257	NA	N	N	☐	☐
Zn L4 RES UNIT 1Bx5 JR1Bx3	Sys L4 RES UNIT 1Bx5 JR1Bx3	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 1Bx5 JR1Bx3	5,600	0.07	16.00	26.00	416	448	NA	N	N	☐	☐
Zn L4 RES UNIT 1Bx7 JR1Bx4	Sys L4 RES UNIT 1Bx7 JR1Bx4	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 1Bx7 JR1Bx4	8,534	0.07	22.00	28.27	622	683	NA	N	N	☐	☐
Zn L4 RES UNIT 2Bx1	Sys L4 RES UNIT 2Bx1	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 2Bx1	1,180	0.07	3.00	28.60	86	94	NA	N	N	☐	☐
Zn L4 RES UNIT 2Bx2	Sys L4 RES UNIT 2Bx2	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 2Bx2	2,314	0.07	6.00	28.14	169	185	NA	N	N	☐	☐
Zn L4 RES UNIT 2Bx3	Sys L4 RES UNIT 2Bx3	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 2Bx3	3,219	0.07	9.00	26.46	238	258	NA	N	N	☐	☐
Zn L4 RES UNIT 3Bx1 2Bx2	Sys L4 RES UNIT 3Bx1 2Bx2	NA	NA	0.00	NA	NA	N	Sys L4 RES UNIT 3Bx1 2Bx2	3,448	0.07	10.00	25.69	257	276	NA	N	N	☐	☐
Zn L5 RES UNIT 1Bx3	Sys L5 RES UNIT 1Bx3	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 1Bx3	1,948	0.08	6.00	24.48	147	156	NA	N	N	☐	☐

Project Name:	Echo Park - Taix Square	NRCC-PRF-01-E	Page 30 of 44
Project Address:	1911 Sunset Blvd Los Angeles 90026	Calculation Date/Time:	14:06, Thu, Jun 18, 2020
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A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Pass	Fail
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE (CFM/person)	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)		
Zn L5 RES UNIT 1Bx4	Sys L5 RES UNIT 1Bx4	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 1Bx4	3,213	0.07	8.00	29.09	233	257	NA	N	N	☐	☐
Zn L5 RES UNIT 1Bx5 JR1Bx3	Sys L5 RES UNIT 1Bx5 JR1Bx3	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 1Bx5 JR1Bx3	5,600	0.07	16.00	26.00	416	448	NA	N	N	☐	☐
Zn L5 RES UNIT 1Bx7 JR1Bx4	Sys L5 RES UNIT 1Bx7 JR1Bx4	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 1Bx7 JR1Bx4	8,534	0.07	22.00	28.27	622	683	NA	N	N	☐	☐
Zn L5 RES UNIT 2Bx1	Sys L5 RES UNIT 2Bx1	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 2Bx1	1,180	0.07	3.00	28.60	86	94	NA	N	N	☐	☐
Zn L5 RES UNIT 2Bx2	Sys L5 RES UNIT 2Bx2	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 2Bx2	2,314	0.07	6.00	28.14	169	185	NA	N	N	☐	☐
Zn L5 RES UNIT 2Bx3	Sys L5 RES UNIT 2Bx3	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 2Bx3	3,219	0.07	9.00	26.46	238	258	NA	N	N	☐	☐
Zn L5 RES UNIT 3Bx1 2Bx2	Sys L5 RES UNIT 3Bx1 2Bx2	NA	NA	0.00	NA	NA	N	Sys L5 RES UNIT 3Bx1 2Bx2	3,448	0.07	10.00	25.69	257	276	NA	N	N	☐	☐
Zn L6 AMENITIES	Sys L6 AMENITIES	1,220	NA	0.00	NA	NA	N	Sys L6 AMENITIES	609	0.50	20.30	15.00	304	304	NA	Y	NA	☐	☐
Zn L6 RES UNIT 1Bx2	Sys L6 RES UNIT 1Bx2	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 1Bx2	1,574	0.07	4.00	28.60	114	126	NA	N	N	☐	☐
Zn L6 RES UNIT 1Bx3 01	Sys L6 RES UNIT 1Bx3 01	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 1Bx3 01	2,903	0.07	6.00	34.03	204	232	NA	N	N	☐	☐

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A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Pass	Fail
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE (CFM/person)	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)		
Zn L6 RES UNIT 1Bx3 02	Sys L6 RES UNIT 1Bx3 02	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 1Bx3 02	1,948	0.08	6.00	24.48	147	156	NA	N	N	☐	☐
Zn L6 RES UNIT 1Bx4 01	Sys L6 RES UNIT 1Bx4 01	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 1Bx4 01	3,213	0.07	8.00	29.09	233	257	NA	N	N	☐	☐
Zn L6 RES UNIT 1Bx4 02	Sys L6 RES UNIT 1Bx4 02	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 1Bx4 02	3,117	0.07	8.00	28.37	227	249	NA	N	N	☐	☐
Zn L6 RES UNIT 1Bx4 JR1Bx3	Sys L6 RES UNIT 1Bx4 JR1Bx3	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 1Bx4 JR1Bx3	5,701	0.08	22.00	20.55	452	456	NA	N	N	☐	☐
Zn L6 RES UNIT 2Bx1	Sys L6 RES UNIT 2Bx1	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT 2Bx1	1,180	0.07	3.00	28.60	86	94	NA	N	N	☐	☐
Zn L6 RES UNIT Sx1 2Bx1	Sys L6 RES UNIT Sx1 2Bx1	NA	NA	0.00	NA	NA	N	Sys L6 RES UNIT Sx1 2Bx1	1,707	0.07	5.00	25.48	127	136	NA	N	N	☐	☐
								TOTAL	154,775		538.77		13,495	14,315	3			☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													§ 140.4	
1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
Sys L2 RES UNIT 1BRx4	SZHP	1	15.00	15.00	No	Zn L2 RES UNIT 1BRx4	530	NA	NA	0.152	☐	☐	☐	☐
Sys L2 RES UNIT 1Bx3	SZHP	1	12.00	12.00	No	Zn L2 RES UNIT 1Bx3	420	NA	NA	0.120	☐	☐	☐	☐
Sys L2 RES UNIT 1Bx4 JR1Bx4 01	SZHP	1	33.00	33.00	No	Zn L2 RES UNIT 1Bx4 JR1Bx4 01	1160	NA	NA	0.332	☐	☐	☐	☐
Sys L2 RES UNIT 1Bx4 JR1Bx4 02	SZHP	1	32.00	32.00	No	Zn L2 RES UNIT 1Bx4 JR1Bx4 02	1120	NA	NA	0.321	☐	☐	☐	☐
Sys L2 RES UNIT 2Bx1	SZHP	1	6.00	6.00	No	Zn L2 RES UNIT 2Bx1	200	NA	NA	0.057	☐	☐	☐	☐
Sys L2 RES UNIT 2Bx2	SZHP	1	12.00	12.00	No	Zn L2 RES UNIT 2Bx2	430	NA	NA	0.123	☐	☐	☐	☐
Sys L2 RES UNIT 2Bx3	SZHP	1	17.00	17.00	No	Zn L2 RES UNIT 2Bx3	580	NA	NA	0.166	☐	☐	☐	☐
Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	SZHP	1	18.00	18.00	No	Zn L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	610	NA	NA	0.175	☐	☐	☐	☐
Sys L2 RES UNIT 3Bx1 2Bx2	SZHP	1	20.00	20.00	No	Zn L2 RES UNIT 3Bx1 2Bx2	700	NA	NA	0.201	☐	☐	☐	☐
Sys L3 RES UNIT 1Bx3	SZHP	1	12.00	12.00	No	Zn L3 RES UNIT 1Bx3	420	NA	NA	0.120	☐	☐	☐	☐
Sys L3 RES UNIT 1Bx4	SZHP	1	15.00	15.00	No	Zn L3 RES UNIT 1Bx4	520	NA	NA	0.149	☐	☐	☐	☐
Sys L3 RES UNIT 1Bx5 JR1Bx3	SZHP	1	31.00	31.00	No	Zn L3 RES UNIT 1Bx5 JR1Bx3	1090	NA	NA	0.312	☐	☐	☐	☐
Sys L3 RES UNIT 1Bx7 JR1Bx4	SZHP	1	43.00	43.00	No	Zn L3 RES UNIT 1Bx7 JR1Bx4	1470	NA	NA	0.421	☐	☐	☐	☐
Sys L3 RES UNIT 2Bx1	SZHP	1	5.00	5.00	No	Zn L3 RES UNIT 2Bx1	190	NA	NA	0.054	☐	☐	☐	☐
Sys L3 RES UNIT 2Bx2	SZHP	1	12.00	12.00	No	Zn L3 RES UNIT 2Bx2	430	NA	NA	0.123	☐	☐	☐	☐
Sys L3 RES UNIT 2Bx3	SZHP	1	17.00	17.00	No	Zn L3 RES UNIT 2Bx3	600	NA	NA	0.172	☐	☐	☐	☐
Sys L3 RES UNIT 3Bx1 2Bx2	SZHP	1	20.00	20.00	No	Zn L3 RES UNIT 3Bx1 2Bx2	680	NA	NA	0.195	☐	☐	☐	☐
Sys L4 RES UNIT 1Bx3	SZHP	1	12.00	12.00	No	Zn L4 RES UNIT 1Bx3	420	NA	NA	0.120	☐	☐	☐	☐
Sys L4 RES UNIT 1Bx4	SZHP	1	15.00	15.00	No	Zn L4 RES UNIT 1Bx4	520	NA	NA	0.149	☐	☐	☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													\$ 140.4	
1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
Sys L4 RES UNIT 1Bx5 JR1Bx3	SZHP	1	31.00	31.00	No	Zn L4 RES UNIT 1Bx5 JR1Bx3	1080	NA	NA	0.309	☐	☐	☐	☐
Sys L4 RES UNIT 1Bx7 JR1Bx4	SZHP	1	43.00	43.00	No	Zn L4 RES UNIT 1Bx7 JR1Bx4	1470	NA	NA	0.421	☐	☐	☐	☐
Sys L4 RES UNIT 2Bx1	SZHP	1	5.00	5.00	No	Zn L4 RES UNIT 2Bx1	190	NA	NA	0.054	☐	☐	☐	☐
Sys L4 RES UNIT 2Bx2	SZHP	1	12.00	12.00	No	Zn L4 RES UNIT 2Bx2	430	NA	NA	0.123	☐	☐	☐	☐
Sys L4 RES UNIT 2Bx3	SZHP	1	17.00	17.00	No	Zn L4 RES UNIT 2Bx3	600	NA	NA	0.172	☐	☐	☐	☐
Sys L4 RES UNIT 3Bx1 2Bx2	SZHP	1	20.00	20.00	No	Zn L4 RES UNIT 3Bx1 2Bx2	680	NA	NA	0.195	☐	☐	☐	☐
Sys L5 RES UNIT 1Bx3	SZHP	1	12.00	12.00	No	Zn L5 RES UNIT 1Bx3	420	NA	NA	0.120	☐	☐	☐	☐
Sys L5 RES UNIT 1Bx4	SZHP	1	15.00	15.00	No	Zn L5 RES UNIT 1Bx4	530	NA	NA	0.152	☐	☐	☐	☐
Sys L5 RES UNIT 1Bx5 JR1Bx3	SZHP	1	31.00	31.00	No	Zn L5 RES UNIT 1Bx5 JR1Bx3	1090	NA	NA	0.312	☐	☐	☐	☐
Sys L5 RES UNIT 1Bx7 JR1Bx4	SZHP	1	45.00	45.00	No	Zn L5 RES UNIT 1Bx7 JR1Bx4	1570	NA	NA	0.450	☐	☐	☐	☐
Sys L5 RES UNIT 2Bx1	SZHP	1	6.00	6.00	No	Zn L5 RES UNIT 2Bx1	190	NA	NA	0.054	☐	☐	☐	☐
Sys L5 RES UNIT 2Bx2	SZHP	1	13.00	13.00	No	Zn L5 RES UNIT 2Bx2	440	NA	NA	0.126	☐	☐	☐	☐
Sys L5 RES UNIT 2Bx3	SZHP	1	18.00	18.00	No	Zn L5 RES UNIT 2Bx3	610	NA	NA	0.175	☐	☐	☐	☐
Sys L5 RES UNIT 3Bx1 2Bx2	SZHP	1	25.00	25.00	No	Zn L5 RES UNIT 3Bx1 2Bx2	860	NA	NA	0.246	☐	☐	☐	☐
Sys L6 RES UNIT 1Bx2	SZHP	1	11.00	11.00	No	Zn L6 RES UNIT 1Bx2	390	NA	NA	0.112	☐	☐	☐	☐
Sys L6 RES UNIT 1Bx3 01	SZHP	1	21.00	21.00	No	Zn L6 RES UNIT 1Bx3 01	740	NA	NA	0.212	☐	☐	☐	☐
Sys L6 RES UNIT 1Bx3 02	SZHP	1	12.00	12.00	No	Zn L6 RES UNIT 1Bx3 02	420	NA	NA	0.120	☐	☐	☐	☐
Sys L6 RES UNIT 1Bx4 01	SZHP	1	19.00	19.00	No	Zn L6 RES UNIT 1Bx4 01	650	NA	NA	0.186	☐	☐	☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													§ 140.4	
1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
Sys L6 RES UNIT 1Bx4 O2	SZHP	1	19.00	19.00	No	Zn L6 RES UNIT 1Bx4 O2	660	NA	NA	0.189	☐	☐	☐	☐
Sys L6 RES UNIT 1Bx4 JR1Bx3	SZHP	1	35.00	35.00	No	Zn L6 RES UNIT 1Bx4 JR1Bx3	1210	NA	NA	0.347	☐	☐	☐	☐
Sys L6 RES UNIT 2Bx1	SZHP	1	6.00	6.00	No	Zn L6 RES UNIT 2Bx1	210	NA	NA	0.060	☐	☐	☐	☐
Sys L6 RES UNIT Sx1 2Bx1	SZHP	1	12.00	12.00	No	Zn L6 RES UNIT Sx1 2Bx1	420	NA	NA	0.120	☐	☐	☐	☐
Sys L1 GYM TU	Uncontrolled	1	NA	NA	NA	Zn L1 GYM	2730	NA	0.00	NA	NA	☐	☐	☐
Sys L1 OFFICE TU	Uncontrolled	1	NA	NA	NA	Zn L1 OFFICE	990	NA	0.00	NA	NA	☐	☐	☐
Sys L1 RETAIL 1-2 TU	Uncontrolled	1	NA	NA	NA	Zn L1 RETAIL 1-2	2930	NA	0.00	NA	NA	☐	☐	☐
Sys L1 RETAIL O3 TU	Uncontrolled	1	NA	NA	NA	Zn L1 RETAIL O3	4190	NA	0.00	NA	NA	☐	☐	☐
Sys L1 RETAIL O4 TU	Uncontrolled	1	NA	NA	NA	Zn L1 RETAIL O4	3420	NA	0.00	NA	NA	☐	☐	☐
Sys L6 AMENETIES TU	Uncontrolled	1	NA	NA	NA	Zn L6 AMENETIES	1220	NA	0.00	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY
This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)										§ 110.3	Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Pass	Fail
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition		
SHW Heater	Gas	Storage	1	150.00	400	Thrm. Eff.: 0.95	NA	SBLF: 0.020	NA	NA	☐	☐
RDHW Heater	Gas	Boiler	1	150.00	500	Thrm. Eff.: 0.950	12.0/0.0	NA	NA	Conditioned	☐	☐

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E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS									§ 110.3		Confirmed	
1.	2.	3.	4.	5.	6.	7.		8.	9.	10.	Pass	Fail
System Name	Number of Dwelling Units Served by System	System Type	Number of Water Heaters / System	Multi-Family Distribution Type	Solar Fraction (%)	Recirculating Pump		Number of Recirculation Loops	Recirculation Loop Insulation Thickness	Recirculation Loop Location		
						Eff	BHP					
RDHW system	173	Standard	1	Demand Control (Standard Design for new construction)	0.50	0.60	0.50	1	1.5	Conditioned	☐	☐

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)										G. § RA4		
1.	2. Collector											
System Name	Manufacturer	Brand	Model #	SRRC Cert	Type	Area ft²	Rated Eff.Curve Slope	Rated Eff.Curve Intercept	Number	Fluid	Angle from true north (degrees)	Slope from horizontal (degrees)
SHWFluidSys												
RDHW system												

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)							G. § RA4	
1.	3. Software		4. Storage		5.	6	Confirmed	
System Name	Name of program used	Version	Water Heater Tank Volume (gallons)	Secondary Tank Volume (gallons)	# of Identical Dwelling Units	Solar Fraction	Pass	Fail
SHWFluidSys			150			0.5	☐	☐
RDHW system						0.50	☐	☐

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)	§ RA4
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Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
	SHWFluidSy s	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L1 GYM	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L1 OFFICE	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L1 RETAIL 1-2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L1 RETAIL 03	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L1 RETAIL 04	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L6 AMENITIES	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L2 RES UNIT 1BRx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L2 RES UNIT 1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
	Sys L2 RES UNIT 1Bx4 JR1Bx4 01	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)																			§ RA4		
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Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed		
																					Fail
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS			
Sys L2 RES UNIT 1Bx4 JR1Bx4 O2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L2 RES UNIT 2Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L2 RES UNIT 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L2 RES UNIT 2Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L2 RES UNIT 3Bx1 1Bx1 JR1Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L2 RES UNIT 3Bx1 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 1Bx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).																				
Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
		Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
Sys L3 RES UNIT 1Bx5 JR1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 1Bx7 JR1Bx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 2Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 2Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L3 RES UNIT 3Bx1 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 1Bx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)																			§ RA4	
Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).																				
Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS		
Sys L4 RES UNIT 1Bx5 JR1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 1Bx7 JR1Bx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 2Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 2Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L4 RES UNIT 3Bx1 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 1Bx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)																			§ RA4	
Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).																				
Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
																				Fail
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS		
Sys L5 RES UNIT 1Bx5 JR1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 1Bx7 JR1Bx4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 2Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 2Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L5 RES UNIT 3Bx1 2Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT 1Bx2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT 1Bx3 01	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)																			§ RA4		
Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).																					
Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed		
																					Fail
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS			
Sys L6 RES UNIT 1Bx3 02	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT 1Bx4 01	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT 1Bx4 02	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT 1Bx4 JR1Bx3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT 2Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Sys L6 RES UNIT Sx1 2Bx1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY
This Section Does Not Apply

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NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)	§ 140.6
This Section Does Not Apply	

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	§ 130.1
This Section Does Not Apply	

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)	§ 140.6-D
This Section Does Not Apply	

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)							§ 140.6(c) 3H	
Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)							
Rectangular Spaces							
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed	
						Pass	Fail
NA	NA	NA	NA	NA	NA	☐	☐
Non-Rectangular Spaces							
This Section Does Not Apply							

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Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)						
1.	2.	3.	4.	Allowed Watts	Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise		Pass	Fail
0	0	0	0	0	☐	☐

5. Wall Display
This Section Does Not Apply

6. Floor Display and Task Lighting
This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting
This Section Does Not Apply

8. Very Valuable Merchandise
This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)						§ 130.4	
Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).							
Test Description		Indoor			Outdoor	Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A	Pass	Fail
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls		
Occupant Sensors		☐	☐	☐	☐	☐	☐
Automatic Time Switch		☐	☐	☐	☐	☐	☐
Automatic Daylighting		☐	☐	☐	☐	☐	☐
Demand Responsive		☐	☐	☐	☐	☐	☐
Outdoor Controls		☐	☐	☐	☐	☐	☐

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WATER USE CALCULATION TABLE

FULL REPORT ON FOLLOWING PAGES

Water Use Calculation Table

Fixture Type	Flow Rate* (gpm or gpf)	Duration (min or # flush)	Daily Uses	Occupants	Gallons Per Day
Residential Water Use					
Showerheads	1.8 x	8 x	1 x	411 =	5918.4
Lavatory faucets	1.2 x	0.25 x	5 x	411 =	616.5
Kitchen faucets	1.5 x	4 x	1 x	411 =	2466.0
Tank water closets (M)	1.28 x	1 x	5 x	205 =	1312.0
Tank water closets (F)	1.28 x	1 x	5 x	206 =	1318.4
Subtotal					= 11631.3
Clotheswashers (gal/person-day)**	5.1			411 =	2096.1
Dishwashers (gal/person-day)***	0.43			411 =	176.7
Potable Water Irrigation (daily) ****				=	164.0
Total Daily Baseline Water Use (BWU) in Gallons Per Day					= 14068.1
Average use per Household per Day = 14,068/170					= 82.8

Current Water Use per Multi-Family Household (MWD 2018/19 Annual Report Gallons Per Capita Per Day of 131 x estimate of 2.42 occupants per multi-family residential unit)		317
Water Use per Unit per Day (inc. appliances & irrigation)		82.8
Percent Reduction from MWD Baseline		73.9%

Assumptions

`- 170 units, 411 occupants ~2.42 occupants/unit According to the City of Los Angeles Department of City Planning, the most recent estimated household size for multi-family housing units in the City of Los Angeles area is 2.42 persons per unit. Source: Jack Tsao, Data Analyst II, Los Angeles Department of City Planning, July 31, 2019.

* Flow rates are the maximum allowed under City of Los Angeles Green Building Code (Form GRN 16).

** Clothes Washer assumed in each unit. Los Angeles Green Building Code requires Energy Star certified units. Typical Energy Star unit = 3.2 WF (Water Factor) = 5.08 gal per person per day.

*** Dishwasher assumed in each unit. Los Angeles Green Building Code required Energy Star certified units. Typical Energy Star unit = 4 GPC (Gallons per Cycle) = 0.43 per person per day.

****;irrigation potable water was estimated by using LEED v4 at 3,413 sf and assumed to be native landscaping with a daily potable water gallons rate shown above (grey water expected to make up if additional irrigation is needed pending final landscaping designs.