



# LEED Certification Review Report

This report contains the results of the technical review of an application for LEED® certification submitted for the specified project. LEED certification is an official recognition that a project complies with the requirements prescribed within the LEED rating systems as created and maintained by the U.S. Green Building Council® (USGBC®). The LEED certification program is administered by the Green Business Certification Inc. (GBCI®).

## Aggie Village Redevelopment

**Project ID** 1000039151  
**Rating system & version** LEED-NC v2009  
**Project registration date** 02/07/2014



### Construction Application Decision

CERTIFIED: 40-49, SILVER: 50-59, GOLD: 60-79, PLATINUM: 80+

## LEED FOR NEW CONSTRUCTION & MAJOR RENOVATIONS (V2009)

ATTEMPTED: 68, DENIED: 6, PENDING: 0, AWARDED: 62 OF 110 POINTS

	<b>SUSTAINABLE SITES</b> 22 OF 26		<b>MATERIALS AND RESOURCES</b> CONTINUED		
SSp1	Construction Activity Pollution Prevention	Y	MRC5	Regional Materials	2 / 2
SSc1	Site Selection	1 / 1	MRC6	Rapidly Renewable Materials	0 / 1
SSc2	Development Density and Community Connectivity	5 / 5	MRC7	Certified Wood	0 / 1
SSc3	Brownfield Redevelopment	1 / 1			
SSc4.1	Alternative Transportation-Public Transportation Access	6 / 6		<b>INDOOR ENVIRONMENTAL QUALITY</b> 9 OF 15	
SSc4.2	Alternative Transportation-Bicycle Storage and Changing Room	0 / 1	IEQp1	Minimum IAQ Performance	Y
SSc4.3	Alternative Transportation-Low-Emitting and Fuel-Efficient V	3 / 3	IEQp2	Environmental Tobacco Smoke (ETS) Control	Y
SSc4.4	Alternative Transportation-Parking Capacity	2 / 2	IEQc1	Outdoor Air Delivery Monitoring	0 / 1
SSc5.1	Site Development-Protect or Restore Habitat	0 / 1	IEQc2	Increased Ventilation	0 / 1
SSc5.2	Site Development-Maximize Open Space	1 / 1	IEQc3.1	Construction IAQ Mgmt Plan-During Construction	1 / 1
SSc6.1	Stormwater Design-Quantity Control	0 / 1	IEQc3.2	Construction IAQ Mgmt Plan-Before Occupancy	1 / 1
SSc6.2	Stormwater Design-Quality Control	0 / 1	IEQc4.1	Low-Emitting Materials-Adhesives and Sealants	1 / 1
SSc7.1	Heat Island Effect, Non-Roof	1 / 1	IEQc4.2	Low-Emitting Materials-Paints and Coatings	1 / 1
SSc7.2	Heat Island Effect-Roof	1 / 1	IEQc4.3	Low-Emitting Materials-Flooring Systems	1 / 1
SSc8	Light Pollution Reduction	1 / 1	IEQc4.4	Low-Emitting Materials-Composite Wood and Agrifiber Products	1 / 1
			IEQc5	Indoor Chemical and Pollutant Source Control	0 / 1
	<b>WATER EFFICIENCY</b> 6 OF 10		IEQc6.1	Controllability of Systems-Lighting	1 / 1
WEp1	Water Use Reduction-20% Reduction	Y	IEQc6.2	Controllability of Systems-Thermal Comfort	0 / 1
WEc1	Water Efficient Landscaping	2 / 4	IEQc7.1	Thermal Comfort-Design	1 / 1
WEc2	Innovative Wastewater Technologies	0 / 2	IEQc7.2	Thermal Comfort-Verification	0 / 1
WEc3	Water Use Reduction	4 / 4	IEQc8.1	Daylight and Views-Daylight	0 / 1
			IEQc8.2	Daylight and Views-Views	1 / 1
	<b>ENERGY AND ATMOSPHERE</b> 13 OF 35		<b>INNOVATION IN DESIGN</b> 6 OF 6		
EAp1	Fundamental Commissioning of the Building Energy Systems	Y	IDc1.1	Innovation in Design	0 / 1
EAp2	Minimum Energy Performance	Y	IDc1.1	Sustainable Education Program	1 / 1
EAp3	Fundamental Refrigerant Mgmt	Y	IDc1.2	Green Cleaning Policy	1 / 1
EAc1	Optimize Energy Performance	8 / 19	IDc1.2	Innovation in Design	0 / 1
EAc2	On-Site Renewable Energy	0 / 7	IDc1.3	Innovation in Design	1 / 1
EAc3	Enhanced Commissioning	2 / 2	IDc1.3	Innovation in Design	0 / 1
EAc4	Enhanced Refrigerant Mgmt	2 / 2	IDc1.4	Innovation in Design	0 / 1
EAc5	Measurement and Verification	1 / 3	IDc1.4	Innovation in Design	0 / 1
EAc6	Green Power	0 / 2	IDc1.4	Innovation in Design	1 / 1
			IDc1.5	Water Performance Measurement-Whole building	1 / 1
	<b>MATERIALS AND RESOURCES</b> 4 OF 14		IDc1.5	Innovation in Design	0 / 1
MRp1	Storage and Collection of Recyclables	Y	IDc2	LEED® Accredited Professional	1 / 1
MRC1.1	Building Reuse-Maintain Existing Walls, Floors and Roof	0 / 3		<b>REGIONAL PRIORITY CREDITS</b> 2 OF 4	
MRC1.2	Building Reuse, Maintain 50% of Interior	0 / 1	SSc2	Development Density and Community Connectivity	1 / 1
MRC2	Construction Waste Mgmt	1 / 2	SSc6.1	Stormwater Design-Quantity Control	0 / 1
MRC3	Materials Reuse	0 / 2	WEc1	Water Efficient Landscaping	0 / 1
MRC4	Recycled Content	1 / 2	WEc3	Water Use Reduction	1 / 1
			EAc1	Optimize Energy Performance	0 / 1
			EAc2	On-Site Renewable Energy	0 / 1
<b>TOTAL</b>		<b>62 OF 110</b>			

# CREDIT DETAILS



## Project Information Forms

### P1f1: Minimum Program Requirements

Approved

#### 06/08/2016 DESIGN PRELIMINARY REVIEW

The LEED Form states that the project complies with all Minimum Program Requirements. The project will comply with MPR 6: Must Commit to Sharing Whole-Building Energy and Water Usage Data via Option 1: Third Party Data Source. The project is located in Fort Collins, Colorado.

It is noted that there is a space on the first floor of the North Building that is labeled as "future use." All spaces within the LEED Project Boundary must be considered for compliance. It appears that the owner will be finishing out this space and has not excluded it from any prerequisite or credit calculations. However, if the fit-out of the space requires additional water- and energy-consuming fixtures regulated by WEp1 and EAp2, those prerequisites must be revised and resubmitted with the construction documentation. Prerequisite compliance is not affected at this time.

### P1f2: Project Summary Details

Approved

#### 08/18/2016 DESIGN FINAL REVIEW

The additional documentation demonstrates compliance.

#### 06/08/2016 DESIGN PRELIMINARY REVIEW

The LEED Form includes the required project summary details. There are three building in this LEED application with a total 433,652 gross square feet. North building has six stories and 143,024 gross square feet. South building has four stories and 179,382 gross square feet. West building has six stories and 111,246 gross square feet. However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The total gross square footage of the project reported here (433,652) is inconsistent with that within P1f3: Occupant and Usage Data (411,362). All square footage values must be reported consistently. Revise the form to ensure that the total gross square footage is consistent across all submittals.

### P1f3: Occupant and Usage Data

Approved

#### 08/18/2016 DESIGN FINAL REVIEW

The additional documentation demonstrates compliance.

#### 06/08/2016 DESIGN PRELIMINARY REVIEW

The LEED Form includes the required occupant and usage data. The project consists primarily of office spaces. The average users value is 1,133, the peak users value is 533, and the FTE value is 43. The project includes 973 residents. However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The total gross square footage of the project reported here (411,362) is inconsistent with that within P1f2: Project Summary Details (433,652). All square footage values must be reported consistently. Revise the form to ensure that the total gross square footage is consistent across all submittals.

2. The total regularly occupied areas reported here (94,982 square feet of North building, 133,543 square feet of South Building, 75,823 square feet of West Building) is inconsistent with that within IEQc8.2: Daylight and Views (64,616 square feet of North Building, 78,576 square feet of South Building, 47,228 square feet of West Building). All square footage values must be reported consistently. Revise the form to ensure that the total regularly occupied area is consistent across all submittals.

### P1f4: Schedule and Overview Documents

Approved

#### 06/08/2016 DESIGN PRELIMINARY REVIEW

The LEED Form includes the design and construction schedule. The date of substantial completion is July 13, 2016 and the date of occupancy is July 13, 2016. The required documents have been uploaded.





## Sustainable Sites

### **SSp1: Construction Activity Pollution Prevention**

**Awarded**

10/21/2016 **CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that the project has implemented an erosion and sedimentation control (ESC) plan that conforms to the 2003 EPA Construction General Permit (CGP).

### **SSc1: Site Selection**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project site does not meet any of the prohibited criteria.

### **SSc2: Development Density and Community Connectivity**

**Awarded: 5**

POSSIBLE POINTS: 5

ATTEMPTED: 5, DENIED: 0, PENDING: 0, AWARDED: 5

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project complies with Option 2: Community Connectivity.

### **SSc3: Brownfield Redevelopment**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project has documented asbestos contamination in the building. Remediation of the asbestos has been or will be remediated as part of the project scope according to an acceptable standard.

### **SSc4.1: Alternative Transportation-Public Transportation Access**

**Awarded: 6**

POSSIBLE POINTS: 6

ATTEMPTED: 6, DENIED: 0, PENDING: 0, AWARDED: 6

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project complies with Option 2: Bus Station Proximity and is located within one-quarter mile walking distance of one or more stops for two or more public, campus, or private bus lines usable by building occupants.

### **SSc4.2: Alternative Transportation-Bicycle Storage and Changing Rooms**

**Not Attempted**

POSSIBLE POINTS: 1

### **SSc4.3: Alternative Transportation-Low-Emitting and Fuel-Efficient Vehicles**

**Awarded: 3**

POSSIBLE POINTS: 3

ATTEMPTED: 3, DENIED: 0, PENDING: 0, AWARDED: 3

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project complies with Option 4 and provides low-emitting and fuel-efficient vehicles via a vehicle sharing program to serve 74.42% of total LEED project FTE.

### **SSc4.4: Alternative Transportation-Parking Capacity**

**Awarded: 2**

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that no new parking has been created within the LEED project scope of work.

**SSc5.1: Site Development-Protect or Restore Habitat**  
POSSIBLE POINTS: 1

**Not Attempted**

**SSc5.2: Site Development-Maximize Open Space** **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project complies with Case 2: Sites with No Local Zoning Requirements. The open space provided is equal to or greater than the footprint of the LEED project building.

**SSc6.1: Stormwater Design-Quantity Control**  
POSSIBLE POINTS: 1

**Not Attempted**

**SSc6.2: Stormwater Design-Quality Control**  
POSSIBLE POINTS: 1

**Not Attempted**

**SSc7.1: Heat Island Effect, Non-Roof**  
POSSIBLE POINTS: 1

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**10/21/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that the project complies with Option 1 and 68% of nonroof base building hardscape surfaces will be mitigated through the use of materials with an SRI of at least 29.

**SSc7.2: Heat Island Effect-Roof**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**10/21/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that the project complies with Option 1 and 92.86% of the building roof surface has a Solar Reflectance Index meeting the credit requirements. The project has selected the Licensed Professional Exemption (LPE).

**SSc8: Light Pollution Reduction**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project meets the requirements using the LEED v4 credit substitution path SSc Light Pollution Reduction. The project has met uplight and light trespass requirements using either the backlight-uplight-glare (BUG) method (Option 1). Additionally, internally illuminated exterior signage does not exceed a luminance of 200 cd/m<sup>2</sup> (nits) during nighttime hours and 2000 cd/m<sup>2</sup> (nits) during daytime hours.



## Water Efficiency

### **WEp1: Water Use Reduction-20% Reduction**

**Awarded**

**06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that North building has reduced potable water use by 46.53%, South building has reduced potable water use by 47.74% and West building has reduced potable water use by 47.42%.

It is noted that the LEED Form states that the FTE for West Building is 17. However, in the Fixture Group Definitions table, the FTE is listed as 35. This issue does not affect prerequisite compliance, however, for future submittals, ensure that all information is presented consistently throughout the project.

### **WEc1: Water Efficient Landscaping**

**Awarded: 2**

POSSIBLE POINTS: 4

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 2

**06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the landscaping and irrigation systems have been designed to reduce potable water consumption for irrigation by 53.3% and reduce the total water used for irrigation by 53.3%.

### **WEc2: Innovative Wastewater Technologies**

**Not Attempted**

POSSIBLE POINTS: 2

### **WEc3: Water Use Reduction**

**Awarded: 4**

POSSIBLE POINTS: 4

ATTEMPTED: 4, DENIED: 0, PENDING: 0, AWARDED: 4

**06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project has reduced potable water use by 47.32%.



## Energy and Atmosphere

### **EAp1: Fundamental Commissioning of the Building Energy Systems**

**Awarded**

#### **11/11/2016 CONSTRUCTION FINAL REVIEW**

The additional documentation demonstrates compliance.

#### **10/25/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that fundamental commissioning is complete. However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. It is unclear if all required systems have been included within the commissioning scope of work. The LEED Form indicates that daylighting controls and domestic hot water systems have been commissioned; however, the executive summary only referenced HVAC and lighting control systems. All applicable systems installed as part of the LEED project scope of work must be included in the commissioning process. Provide documentation showing that the systems listed above have been commissioned (daylighting and domestic hot water systems).
2. The executive summary provided indicates that multiple issues were found and addressed along with some additional items which still remain open. Additionally, the report states that a Commissioning Issues Log has been created; however, it does not appear that this log has been provided as part of the documentation. Provide a summary of the issues corrected and the list of major outstanding/unresolved issues at the conclusion of the commissioning process.

### **EAp2: Minimum Energy Performance**

**Awarded**

#### **10/25/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form has been revised to address the issues outlined in the Preliminary Review and states that the project has achieved an energy cost savings of 27.2 %. The total predicted annual energy consumption for the project is 2,518,023 kWh/year of electricity and 86,136 therms/year of natural gas.

For future projects, please note the following:

1. The number of unmet load hours for the Proposed Case model (Building S) exceeds 300 hours. For future projects, ensure the number of unmet load hours for the Proposed Case model does not exceed the unmet load hours for the Baseline Case model by more than 50, and the total unmet load hours for all models does not exceed 300 hours per ASHRAE 90.1#2007 Section G3.1.2.2.
2. The model output reports for Building N (Proposed and Baseline Case) were inconsistent with the Minimum Energy Performance Calculator inputs. For future projects, please ensure the calculator inputs are consistent with all supporting documentation.
3. The narrative, and Comcheck compliance report, provided indicate that the Baseline Case total allowable exterior site lighting is 18.2 kW; however, from the supplemental calculations provided, it appears the Baseline Case was modeled with a total allowable exterior site lighting of 31.5 kW. For future projects, please ensure the model inputs are consistent with the supporting documentation and calculations.

#### **06/16/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project complies with Option 1: Whole Building Energy Simulation and has achieved an energy cost savings of 34.3%. However, to demonstrate compliance, the following comments requiring a project response (marked as Mandatory) must be addressed for the Final Review. For the remaining review comments (marked as Optional), a project response is optional.

##### TECHNICAL ADVICE

##### REVIEW COMMENTS REQUIRING A PROJECT RESPONSE (Mandatory)

1. Provide the following:
  - a. A narrative response to each Preliminary Review comment below.
  - b. A narrative describing any additional changes made to the energy models between the Preliminary and Final Review phases not addressed by the responses to the review comments. The mandatory comments are perceived to reduce the projected savings for the Proposed design. If the projected savings increase substantially in the Final submission, without implementing any optional comments that may improve performance, a narrative explanation for these results must be provided.
2. From the documentation provided in Plf4: Project Information, it appears that the chilled water is supplied to each

building from an on-site central plant consisting of two air-cooled chillers. However, it appears that one air-cooled chiller has been modeled for each building simulation (three in total). The LEED Campus Guidance (<http://www.usgbc.org/resources/leed-campus-guidance>) for this prerequisite states that if multiple energy models are created, Option 2 of Treatment of District or Campus Thermal Energy in LEED V2 and LEED 2009 — Design & Construction (<http://www.usgbc.org/sites/default/files/DES%20Guidance.pdf>) should be followed. Please note, as per the exception in Table 1 of the DESv2 guidance, the points floor requirement is not applied to this group project since the central plant is within the LEED Project Boundary. Revise the Baseline and Proposed case models to be consistent with the DESv2 — Option 2 modeling guidance, update the Minimum Energy Performance Calculator, and provide revised model output reports.

3. The Interior Lighting Report indicates the Baseline and Proposed case residential units have been modeled with a schedule that results in 55 lighting full load hours per week. Additionally, the Baseline model lighting Equivalent Full Load Hours (EFLH - determined by dividing the total annual lighting consumption by the total lighting power) is approximately 3,660 hours/year for all the project buildings and the Proposed model EFLH is approximately 5,047 hours/year for all the project buildings, which is unexpectedly high given the anticipated schedule of operation for the project. The Energy Star Multifamily High Rise Program Simulation Guidelines ([http://www.energystar.gov/ia/partners/bldrs\\_lenders\\_raters/downloads/mfhr/ENERGY\\_STAR\\_MFHR\\_Simulation\\_Guidelines\\_0607-7fd8](http://www.energystar.gov/ia/partners/bldrs_lenders_raters/downloads/mfhr/ENERGY_STAR_MFHR_Simulation_Guidelines_0607-7fd8)) provides detail on expected lighting operation for residential spaces which is stated to be 2.34 EFLHs per day. Additionally, LEED Interpretation #1712 (<http://www.usgbc.org/leed-interpretations?clearsmartf=true&keys=1712>) outlines expected lighting schedules for residential projects. Ensure that the lighting models reflect all mandatory controls from Section 9 and reflect the anticipated schedule of operation for the building. After making any necessary changes to the model, provide a narrative justifying the equivalent full load hours of operation for lighting. It is noted that a narrative has been provided stating that an unknown error is causing an issue with the reported EFLHs; however, please provide a detailed explanation of the issues surrounding the problem with the reported EFLHs and supplemental documentation, such as screen shots of the lighting schedule inputs, to demonstrate that the same schedules are being used in both cases.

4. The exterior lighting calculations in the Minimum Energy Performance Calculator indicate that 317,463 square feet of area is being illuminated in the design; however, Plf2: Project Summary Details indicates the total hardscape area is 137,937 square feet. Also, it appears that the total site area within the LEED Project Boundary, after excluding the building footprints, is 316,369. It is unexpected that the entire project area would be illuminated. Additionally, the calculations indicate 3,600 ft of doorway lighting has been provided, however, it is unclear where this lighting is located from the plans provided in SSc8: Lighting Pollution Reduction. Provide a narrative justifying that credit is not being claimed in the Baseline model for surfaces that are not provided with lighting in the actual design and lighting fixtures are not being double counted for different exterior surfaces. Verify that the Proposed Case exterior lighting reflects the actual building design, and the Baseline Case reflects the allowed lighting power from ASHRAE 90.1-2007 Section 9.4.5, and that these values are appropriately updated in the model. Revise the calculations as well as the Proposed and Baseline case models as necessary.

5. It is unclear what method was used to distribute the site exterior lighting power to the three building models. The LEED Campus Guidance (<http://www.usgbc.org/resources/leed-campus-guidance>) for this prerequisite provides three options to prorate shared site-related energy-using features. Review the LEED Campus Guidance and provide a narrative justifying the method of proration used for the site-related energy-using features.

6. The process load demand reported in the Performance Outputs tab of the Minimum Energy Performance Calculator, for the South Building, of 160 kW for the Baseline and Proposed Cases is much greater than the installed power of 48.57 kW indicated in the Process Loads tab and is atypical when compared to the other buildings in this project. Revise the modeled values to be consistent with the design and the Process Load tab inputs. Additionally, provide a narrative clarifying any process loads occurring in the South building which are not occurring in the North and West buildings.

7. The Air-Side HVAC tab of the Minimum Energy Performance Calculator and model output reports indicate that the ERV units are modeled as variable volume units with some form of demand controlled ventilation operation; however, it is unclear how these units can vary the volume of outdoor air and still meet ventilation requirements as outlined in IEQp1: Minimum Indoor Air Quality Performance. After reviewing and making necessary revisions in response to IEQp1, revise the Proposed case model to reflect the design and provide a narrative clarifying how the variable speed operation for these units has been modeled in the Proposed case. Confirm that the HVAC system models reflect all mandatory controls from Section 6, and reflect the anticipated schedule of operation for the building.

8. It is unclear whether the Proposed Case HVAC system was modeled as designed because the model input reports indicate the air-cooled chillers for all buildings have been modeled with a COP of 4.1; however, the mechanical schedules indicate the rated efficiency of these units is 2.87 COP. Additionally, the documentation provided in the Minimum Energy Performance Calculator indicates that the chillers are evaporatively cooled; however, the units indicated in the mechanical schedule appear to be air-cooled. Table G3.1.10 (b)(Proposed) requires that the model be consistent with the design documents. Update the model so that all HVAC system parameters (e.g. chiller efficiencies, heating/cooling capacities, etc.) are consistent with the design documents, update the Minimum Energy Performance Calculator to reflect all changes made, and update the form to reflect any changes made. Additionally, provide a narrative and supporting documentation verifying the type of chillers modeled and how they are consistent with the design.

9. It is unclear whether the Baseline equipment capacities were based on sizing runs and oversized by 15% for cooling in accordance with Section G3.1.2.2 because the Air-Side HVAC tab of the Minimum Energy Performance Calculator indicates the Baseline case has a much higher total cooling capacity of 8,321,231 Btu/h than the Proposed case total cooling capacity of 3,994,008 Btu/h, which is unexpected. For example, the nominal total capacity for the 2-3F W APT WEST - PTAC CLG COIL in the Baseline case is 69,822 Btu/h; however, the nominal total



capacity for the same space in the Proposed case is 38,553 Btu/h. It is unclear why the Baseline case system would require a much greater cooling capacity than the Proposed case given the similar space types, envelope properties, and equal ventilation rates. Additionally, it appears this zone represents two separate spaces (2F and 3F). If this is the case, then the system efficiency must be selected based on the individual unit sizing (cooling capacity before applying any multipliers). Update the model, applicable capacity ranges, and efficiencies, in the Minimum Energy Performance Calculator for the systems used in the Baseline Case (consistent with the ranges listed in Tables 6.8.1A through 6.8.1G), and update the form to reflect any changes made. Additionally, provide a narrative justifying the discrepancy between the Baseline and Proposed case total cooling capacities.

REVIEW COMMENTS THAT DO NOT REQUIRE A PROJECT RESPONSE FOR THIS PROJECT, BUT SHOULD BE CONSIDERED AS EDUCATIONAL NOTES FOR FUTURE SUBMITTALS (Optional):

10. Multiple entries were missing in the Water-Side HVAC tab of the Minimum Energy Performance Calculator for the Proposed case Model. For future submittals, please ensure to complete all applicable inputs into the provided worksheet.

11. The model outputs indicate that electric space heating has been modeled in the Proposed and Baseline case models; however, it is unclear why this energy consumption has not been included in the total energy cost calculations in the Performance Outputs tab of the Minimum Energy Performance Calculator and it is unclear what this end-use consumption represents. For future submittals, please ensure to include all modeled energy use in the total energy cost calculations.

12. From the mechanical plans provided in Plf4: Schedule and Overview Documents, it appears there is an unfinished space on the first floor of the North Building. Future spaces must be modeled using the anticipated fully occupied conditions which includes lighting loads, miscellaneous loads, ventilation requirements, and temperature setpoint requirements for HVAC systems. If the future spaces are anticipated to be conditioned, then they must be modeled with HVAC equipment sized to meet the expected fully occupied loads. As stated in LEED Interpretation 10102, any anticipated, but not yet installed, energy using systems in the incomplete spaces must be included in the calculations of this prerequisite. The energy using systems for incomplete space(s) that are not part of the project scope of work (such as incomplete space lighting systems and controls, thermal zones, VAV boxes, HVAC controls, unregulated loads, etc.) must be modeled identically in the Baseline and Proposed Case per ASHRAE 90.1-2007 Appendix G Table G3.1. Table G3.1 provides further guidance for each modeled end-use [e.g. Table G3.1.6(c)(Proposed), Table G3.1.10(d) and (e)]. For future submittals, please ensure all spaces within the project boundary are modeled to reflect fully occupied conditions and are consistent with the requirements in ASRHAE Appendix G. Due to the relative size of the space, this issue has not been made mandatory.

### **EAp3: Fundamental Refrigerant Management**

**Awarded**

**06/15/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that there are no CFC-based refrigerants serving the project building.

### **EAc1: Optimize Energy Performance**

**Awarded: 8**

POSSIBLE POINTS: 19

ATTEMPTED: 13, DENIED: 6, PENDING: 0, AWARDED: 8

**10/25/2016 CONSTRUCTION PRELIMINARY REVIEW**

Additional documentation has been provided for EAp2: Minimum Energy Performance claiming an energy cost savings of 27.2%.

**06/16/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project has achieved an energy cost savings of 34.3%. However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. Refer to the comments within EAp2: Minimum Energy Performance and resubmit this credit. It is noted that 14 points were attempted for this credit; however, the documentation provided in EAp2 and Plf2: Project Summary Details indicates this is a 100% New Construction project; therefore, 12 points were pending.

### **EAc2: On-Site Renewable Energy**

POSSIBLE POINTS: 7

**Not Attempted**

### **EAc3: Enhanced Commissioning**

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

**Awarded: 2**

**11/11/2016 CONSTRUCTION FINAL REVIEW**

The additional documentation demonstrates compliance.

#### 10/25/2016 CONSTRUCTION PRELIMINARY REVIEW

The LEED Form states that enhanced commissioning has been implemented. However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. Refer to the comments within EAp1: Fundamental Commissioning of Building Energy Systems and resubmit this credit.

#### **EAc4: Enhanced Refrigerant Management      Awarded: 2**

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

#### 06/15/2016 DESIGN PRELIMINARY REVIEW

The LEED Form states that the project selected refrigerants and HVAC&R systems that minimize or eliminate the emission of compounds that contribute to ozone depletion and global climate change. Additionally, all fire suppression systems in the LEED project do not use ozone-depleting substances including CFCs, HCFCs, or halons. The refrigerant impact calculation indicates that the total refrigerant impact of the LEED project is 33 per ton, which is less than the maximum allowable value of 100.

For future submittals, please ensure the form inputs are consistent with the design. The form indicates one chiller has an Rc of 0, which appears to be an entry error; however, upon recalculation, by using the previously entered Rc value of 2.0 for the same chiller model, the total refrigerant impact of the LEED project is 66. The documentation demonstrates compliance.

#### **EAc5: Measurement and Verification      Awarded: 1**

POSSIBLE POINTS: 3

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### 10/25/2016 CONSTRUCTION PRELIMINARY REVIEW

The LEED Form states that the project complies with Option 3 and has committed to sharing whole-building energy and water data through the ENERGY STAR Portfolio Manager.

#### **EAc6: Green Power**

POSSIBLE POINTS: 2

**Attempted**



## Materials and Resources

### MRp1: Storage and Collection of Recyclables

**Awarded**

06/08/2016 **DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project has provided appropriately sized dedicated areas for the collection and storage of materials for recycling.

### MRc1.1: Building Reuse-Maintain Existing Walls, Floors and Roof POSSIBLE POINTS: 3

**Not Attempted**

### MRc1.2: Building Reuse, Maintain 50% of Interior POSSIBLE POINTS: 1

**Not Attempted**

### MRc2: Construction Waste Management POSSIBLE POINTS: 2

**Awarded: 1**

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

10/21/2016 **CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that the project has diverted 64.52% of the on-site generated construction waste from landfill.

### MRc3: Materials Reuse POSSIBLE POINTS: 2

**Not Attempted**

### MRc4: Recycled Content POSSIBLE POINTS: 2

**Awarded: 1**

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

10/21/2016 **CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that 13.05% of the total building materials content, by value, has been manufactured using recycled materials.

### MRc5: Regional Materials

**Awarded: 2**

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

10/26/2016 **CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that 34.57% of the total building materials value includes materials and products that have been manufactured and extracted within 500 miles of the project site.

### MRc6: Rapidly Renewable Materials POSSIBLE POINTS: 1

**Not Attempted**

### MRc7: Certified Wood POSSIBLE POINTS: 1

**Not Attempted**



## Indoor Environmental Quality

### IEQp1: Minimum Indoor Air Quality Performance

**Awarded**

#### 10/25/2016 CONSTRUCTION PRELIMINARY REVIEW

The additional documentation demonstrates that the project is mechanically ventilated and that the ventilation system has met the minimum requirements of ASHRAE 62.1-2007.

#### 06/16/2016 DESIGN PRELIMINARY REVIEW

The LEED Form states that the project is mechanically ventilated and that the ventilation system has met the minimum requirements of ASHRAE 62.1-2007. However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. From the documentation provided it appears that the FCU-L1 units, in the South and West buildings, serve community/study rooms in addition to corridor spaces; therefore, these units appear to be multi-zone recirculating systems. Revise the form to calculate the minimum ventilation requirements for the FCU-L1 units using Table IEQp1-A1. Mechanical Ventilation - Multiple Zone Unit. Please ensure to include all spaces occupancy types served by the FCU-L1 units.

2. The mechanical schedules indicate the FCU-C4 units have a design ventilation rate of 350 CFM; however, the form indicates the Design Outdoor Airflow for these units is 450 CFM and it appears they do not meet the calculated minimum ventilation requirements. Revise the form inputs to be consistent with the design ventilation rates and provide documentation, such as revised mechanical schedules, demonstrating that the minimum ventilation requirements have been met for these fan systems.

3. From the documentation provided in EAp2: Minimum Energy Performance, and the mechanical schedules, it appears that ERV-1N and ERV-2N are variable volume units; however, it appears these systems serve multiple ventilation zones and it is unclear how these systems will be controlled to ensure that the required minimum ventilation rate is provided to each space. Provide a narrative and documentation, including mechanical plans and control diagrams, verifying how the variable speed operation is controlled. Please note, only using CO2 sensors in the return air duct of systems serving multiple ventilation zones does not comply with ASHRAE 62.1-2007 because the CO2 concentration in the critical zone(s) could be diluted with the return air from other non-critical zones served by the same ventilation system, thereby under ventilating the critical zone(s). Provide detailed documentation to confirm that the demand controlled ventilation strategy complies with 62.1-2007. If using CO2 sensors located in the return air duct alone, provide detailed documentation and evidence that the critical zone(s) will not be under ventilated and describe how these sensors accurately measure the worst case CO2 concentration from the critical zones. The project team may refer to the guidelines from "A. Appendix CO2-Based Demand Controlled Ventilation" of ASHRAE 62.1-2007 User's Manual for additional information. Optionally, the project team may wish to refer to the article "Dynamic Reset for Multiple-Zone Systems" ASHRAE Journal, March 2010, which may provide strategies for possible dynamic reset control approaches.

If it is found the ventilation design or air flow rate for the system must be changed due to any of the previous comments, provide revised mechanical schedules and plans with confirmation the revision has been communicated to the contractor which verifies the revised outdoor airflow rates have been implemented into the design.

### IEQp2: Environmental Tobacco Smoke (ETS) Control

**Awarded**

#### 06/08/2016 DESIGN PRELIMINARY REVIEW

The LEED Form states that smoking is prohibited within 25 feet of entries, outdoor air intakes, and operable windows. Additionally, smoking is prohibited within the building.

### IEQc1: Outdoor Air Delivery Monitoring

POSSIBLE POINTS: 1

**Not Attempted**

### IEQc2: Increased Ventilation

POSSIBLE POINTS: 1

**Not Attempted**

### IEQc3.1: Construction IAQ Management Plan-During Construction

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

#### 10/21/2016 CONSTRUCTION PRELIMINARY REVIEW

The LEED Form states that the project reduces air quality problems resulting from construction to promote the comfort and well-being of construction workers and building occupants.

### **IEQc3.2: Construction IAQ Management Plan-Before Occupancy** **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### **11/11/2016 CONSTRUCTION FINAL REVIEW**

The additional documentation demonstrates compliance.

#### **10/25/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that an Indoor Air Quality (IAQ) Management Plan was developed and implemented and that the project complies with Option 1, Path 1: Pre-occupancy flush-out. However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. The total area documented in the calculations for this credit (318,588 sf) is inconsistent with the gross floor area documented in P1f2: Project Summary Details (433,652 sf). Revise the calculations and provide a narrative demonstrating that the required volume of outdoor air per square foot of floor has been delivered to the project buildings.

### **IEQc4.1: Low-Emitting Materials-Adhesives and Sealants** **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### **11/10/2016 CONSTRUCTION FINAL REVIEW**

The additional documentation demonstrates compliance.

#### **10/21/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that all adhesive and sealant products used on the inside of the weatherproofing system and applied on-site have been included in the tables and comply with the VOC limits of the referenced standards for this credit. However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. It is unclear whether all adhesives and sealants used on the inside of the weatherproofing system and applied on-site have been included in the table. Refer to the referenced standards of this credit and confirm whether the comprehensive list of adhesives and sealants, as defined by the referenced standards, used on the inside of the weatherproofing system and applied on-site have been included in the table. The following are common products included in this credit: flooring adhesives, subfloor adhesives, drywall and panel adhesives, wall-base adhesives, multipurpose construction adhesives, structural glazing and wood adhesives, substrate adhesives, tile adhesives, contact adhesives, architectural sealants (including grouts, and polyurethane or plastic foams), duct sealants, plumbing adhesives and sealants, wall-covering adhesives, fiberglass panel adhesives, welding adhesives, and aerosol adhesives. Refer to the South Coast Air Quality Management District (SCAQMD) South Coast Rule 1168 (effective date of July 1, 2005 and rule amendment date of January 7, 2005) for the complete list and definitions. Consult AQMD and product manufacturers for assistance in properly classifying products. Revise the form, provide additional manufacturer documentation, and include a narrative to explain any special circumstances, if necessary.

### **IEQc4.2: Low-Emitting Materials-Paints and Coatings** **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### **10/26/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that all paint and coating products used on the inside of the weatherproofing system and applied on-site have been included in the tables and comply with the VOC limits of the referenced standards for this credit.

### **IEQc4.3: Low-Emitting Materials-Flooring Systems** **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**10/21/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that all interior flooring materials meet or exceed applicable criteria for the Carpet and Rug Institute, South Coast Air Quality Management District, the California Department of Health Standard, or FloorScore; the carpet adhesives used have a VOC level of less than 50 g/L; all floor finishes meet the requirements of SCAQMD Rule 1113; and all tile setting adhesives and grout meet SCAQMD Rule 1168.

**IEQc4.4: Low-Emitting Materials-Composite Wood and Agrifiber Products**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**10/26/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that all composite wood and agrifiber products used on the interior of the building and all laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies contain no added urea-formaldehyde resins.

**IEQc5: Indoor Chemical and Pollutant Source Control**

**Not Attempted**

POSSIBLE POINTS: 1

**IEQc6.1: Controllability of Systems-Lighting**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**06/15/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that lighting controls are provided for 100% of building occupants and 100% of shared multi-occupant spaces to enable adjustments that meet needs and preferences.

For future submittals, please ensure the descriptions provided for the multi-occupant are sufficient to justify that the high level of lighting requirements for these spaces have been met. Some descriptions do not indicate how the lighting levels can be adjusted for varying group needs, such as dimming or bi-level control switches. Additionally, some multi-occupant spaces have not been included in the form (e.g. Classrooms and Conference Rooms). After reviewing the lighting plans, and narrative provided in Plf4: Schedule and Overview Documents, it was determined that the multi-occupant spaces have been provided with multi-level controls; therefore this credit has been awarded. The documentation demonstrates compliance.

**IEQc6.2: Controllability of Systems-Thermal Comfort**

**Not Attempted**

POSSIBLE POINTS: 1

**IEQc7.1: Thermal Comfort-Design**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**06/15/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the mechanically ventilated and mechanically conditioned project space is in compliance with ASHRAE 55-2004.

**IEQc7.2: Thermal Comfort-Verification**

**Not Attempted**

POSSIBLE POINTS: 1

**IEQc8.1: Daylight and Views-Daylight**

**Not Attempted**

POSSIBLE POINTS: 1

**IEQc8.2: Daylight and Views-Views**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**08/18/2016 DESIGN FINAL REVIEW**

The additional documentation demonstrates compliance.

**06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project has provided direct line of sight views from 92.57% of all regularly occupied spaces in North Building, 96.86% of all regularly occupied spaces in South Building and 90.57% of all regularly occupied spaces in West Building. However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The total regularly occupied areas reported here (64,616 square feet of North Building, 78,576 square feet of South Building, 47,228 square feet of West Building) is inconsistent with that within Pf3: Occupant and Usage Data (94,982 square feet of North building, 133,543 square feet of South Building, 75,823 square feet of West Building). All square footage values must be reported consistently. Regularly occupied spaces are areas where one or more individuals normally spend time (more than one hour per person per day on average) seated or standing as they work, study, or perform other focused activities inside a building. In residential applications, these areas are all spaces except bathrooms, utility areas, and closets or other storage rooms. Provide a narrative describing the function and reason for all excluded regularly occupied spaces, as well as revised LEED Forms, calculation spreadsheets and highlighted plans if necessary.



## Innovation in Design

### **IDc1.1: Innovation in Design**

POSSIBLE POINTS: 1

**Not Attempted**

### **IDc1.1: Sustainable Education Program**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

#### **10/21/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that the project team has developed and implemented a Public Education program. This strategy is detailed in the LEED BD+C v2009 Reference Guide. The documentation provided for the development of a signage program and guided tours complies with the Reference Guide requirements.

### **IDc1.2: Green Cleaning Policy**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

#### **06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project team has developed and implemented a Green Housekeeping program. The project must demonstrate compliance with LEED-EBOM 2009 IEQp3: Green Cleaning Policy. The Green Cleaning Policy follows the LEED-EBOM Policy Model and demonstrates the development of a comprehensive and quantitative green cleaning program that includes detailed information regarding staff training, cleaning processes and chemicals, and occupant feedback.

### **IDc1.2: Innovation in Design**

POSSIBLE POINTS: 1

**Not Attempted**

### **IDc1.3: Innovation in Design**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

#### **06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project achieves exemplary performance for WEc3: Water Use Reduction. The requirement for exemplary performance is 45% and the project has documented 47.32%.

### **IDc1.3: Innovation in Design**

POSSIBLE POINTS: 1

**Not Attempted**

### **IDc1.4: Innovation in Design**

POSSIBLE POINTS: 1

**Not Attempted**

### **IDc1.4: Innovation in Design**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

#### **10/26/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that the project achieves exemplary performance for MRc5: Regional Materials. The requirement for exemplary performance is 30% and the project has documented 34.57%.

### **IDc1.5: Water Performance Measurement-Whole building**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

#### **06/08/2016 DESIGN PRELIMINARY REVIEW**

The LEED Form states that the project team has developed and implemented an ID credit proposal for LEED-EBOM 2009 WEc1.1: Water Performance Measurement — Whole Building. Each building within the LEED project has a whole building water meter that measures the total potable water use for the entire building and associated grounds. Meter data will be compiled into monthly and annual summaries. Additionally, the project's site irrigation will be submetered.



**IDc1.5: Innovation in Design**  
POSSIBLE POINTS: 1

**Not  
Attempted**

**IDc2: LEED® Accredited Professional**  
POSSIBLE POINTS: 1

**Awarded: 1**

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**10/21/2016 CONSTRUCTION PRELIMINARY REVIEW**

The LEED Form states that a LEED AP has been a participant on the project development team.



## Regional priority

### SSc2: Development Density and Community Connectivity

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: , PENDING: , AWARDED: 1

### WEc3: Water Use Reduction

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: , PENDING: , AWARDED: 1

**TOTAL**

**110**

**68**

**6**

**0**

**62**

# REVIEW SUMMARY

Review			POINTS:			
	SUBMITTED	RETURNED	SUBMITTED	DENIED	PENDING	AWARDED

<b>Design Preliminary</b>	<b>03/24/2016</b>	<b>06/17/2016</b>	<b>50</b>	<b>0</b>	<b>13</b>	<b>35</b>
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Credit	STATUS	TYPE	POINTS: ATTEMPTED	DENIED	PENDING	AWARDED
PIf1: Minimum Program Requirements	Approved		0	0	0	0
PIf2: Project Summary Details	Not Approved		0	0	0	0
PIf3: Occupant and Usage Data	Not Approved		0	0	0	0
PIf4: Schedule and Overview Documents	Approved		0	0	0	0
SSc1: Site Selection	Anticipated	Design	1	0	0	1
SSc2: Development Density and Community Connectivity	Anticipated	Design	6	0	0	6
SSc3: Brownfield Redevelopment	Anticipated	Design	1	0	0	1
SSc4.1: Alternative Transportation-Public Transportation Access	Anticipated	Design	6	0	0	6
SSc4.3: Alternative Transportation-Low-Emitting and Fuel-Efficient Vehicles	Anticipated	Design	3	0	0	3
SSc4.4: Alternative Transportation-Parking Capacity	Anticipated	Design	2	0	0	2
SSc5.2: Site Development-Maximize Open Space	Anticipated	Design	1	0	0	1
SSc8: Light Pollution Reduction	Anticipated	Design	1	0	0	1
WEp1: Water Use Reduction-20% Reduction	Anticipated	Design	0	0	0	0
WEc1: Water Efficient Landscaping	Anticipated	Design	2	0	0	2
WEc3: Water Use Reduction	Anticipated	Design	5	0	0	5
EAp2: Minimum Energy Performance	Pending	Design	0	0	0	0
EAp3: Fundamental Refrigerant Management	Anticipated	Design	0	0	0	0
EAc1: Optimize Energy Performance	Pending	Design	14	0	12	0
EAc4: Enhanced Refrigerant Management	Anticipated	Design	2	0	0	2
MRp1: Storage and Collection of Recyclables	Anticipated	Design	0	0	0	0
IEQp1: Minimum Indoor Air Quality Performance	Pending	Design	0	0	0	0
IEQp2: Environmental Tobacco Smoke (ETS) Control	Anticipated	Design	0	0	0	0
IEQc6.1: Controllability of Systems-Lighting	Anticipated	Design	1	0	0	1
IEQc7.1: Thermal Comfort-Design	Anticipated	Design	1	0	0	1
IEQc8.2: Daylight and Views-Views	Pending	Design	1	0	1	0
IDc1.2: Green Cleaning Policy	Anticipated	Design	1	0	0	1
IDc1.3: Innovation in Design	Anticipated	Design	1	0	0	1
IDc1.5: Water Performance Measurement-Whole building	Anticipated	Design	1	0	0	1

**Design Final**

**08/16/201609/06/2016**

**1**

**0**

**0**

**1**

**Credit**

	STATUS	TYPE	POINTS: ATTEMPTED	DENIED	PENDING	AWARDED
PIf2: Project Summary Details	<b>Approved</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
PIf3: Occupant and Usage Data	<b>Approved</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
IEQc8.2: Daylight and Views-Views	<b>Anticipated</b>	Design	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>

**Construction Preliminary****09/30/201610/27/2016****32****6****4****22**

<b>Credit</b>	<b>STATUS</b>	<b>TYPE</b>	<b>POINTS: ATTEMPTED</b>	<b>DENIED</b>	<b>PENDING</b>	<b>AWARDED</b>
SSp1: Construction Activity Pollution Prevention	<b>Awarded</b>	Construction	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
SSc7.1: Heat Island Effect, Non-Roof	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
SSc7.2: Heat Island Effect-Roof	<b>Awarded</b>	Design	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
EAp1: Fundamental Commissioning of the Building Energy Systems	<b>Pending</b>	Construction	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
EAp2: Minimum Energy Performance	<b>Awarded</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
EAc1: Optimize Energy Performance	<b>Awarded</b>	Design	<b>14</b>	<b>6</b>	<b>0</b>	<b>8</b>
EAc3: Enhanced Commissioning	<b>Pending</b>	Construction	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>
EAc5: Measurement and Verification	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
MRC2: Construction Waste Management	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
MRC4: Recycled Content	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
MRC5: Regional Materials	<b>Awarded</b>	Construction	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
IEQp1: Minimum Indoor Air Quality Performance	<b>Awarded</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
IEQc3.1: Construction IAQ Management Plan-During Construction	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IEQc3.2: Construction IAQ Management Plan-Before Occupancy	<b>Pending</b>	Construction	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
IEQc4.1: Low-Emitting Materials-Adhesives and Sealants	<b>Pending</b>	Construction	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
IEQc4.2: Low-Emitting Materials-Paints and Coatings	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IEQc4.3: Low-Emitting Materials-Flooring Systems	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IEQc4.4: Low-Emitting Materials-Composite Wood and Agrifiber Products	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IDc1.1: Sustainable Education Program	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IDc1.4: Innovation in Design	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IDc2: LEED® Accredited Professional	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>

**Construction Final**

**11/07/201611/11/2016**

**4**

**0**

**0**

**4**

**Credit**

	STATUS	TYPE	POINTS: ATTEMPTED	DENIED	PENDING	AWARDED
EAp1: Fundamental Commissioning of the Building Energy Systems	<b>Awarded</b>	Construction	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
EAc3: Enhanced Commissioning	<b>Awarded</b>	Construction	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
IEQc3.2: Construction IAQ Management Plan-Before Occupancy	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
IEQc4.1: Low-Emitting Materials-Adhesives and Sealants	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>