

## BICYCLE PARKING

**Introduction** In an effort to increase the use of sustainable transportation options, and to reduce student and staff from driving to campus, SCC seeks significant improvements to the manner in which it supports those who come to campus via bicycle.

### Existing Conditions

The existing campus has a total of 134 bicycle parking spots. 36 of these are located in the supervised Parking Garage. 10 are in the form of secured bike lockers and the remaining are standard bike racks. The remaining 98 are standard bike racks located in publicly accessible areas around campus and in plaza areas. There are also 89 additional spots for bicycles located in public rights-of-way within or immediately adjacent to the proposed SCC MIMP Boundary

See the attached Figure 13.1 – Existing Transportation and Parking Diagrams for specific locations and quantity.

### Proposed Capacity

SCC, as a State of Washington state agency, is required as part of any new capital project to comply with state-mandated sustainability guidelines. Among these guidelines are standards established by the US Green Building Council's – Leadership in Energy and Environmental Design (LEED) program. As such, the standards established by this program for large campus environments provides an appropriate guideline for both quantity and quality of a bicycle parking program.

This master plan is based on development up to 7,500 student FTE (Full Time Equivalent) enrollment. SCC's typical student to faculty/staff ratio of approximately 20:1 would anticipate faculty and staff FTE of 375. Based on this total of 7,875 total occupants as an assumed maximum capacity on campus at any one time. The LEED 4.1 standard for Bicycle Facilities for Large-Occupancy Projects, would require:

Please Note: LEED considers student to be "visitors" due to the transient nature of their use. Faculty, Staff, and Students who live on campus are considered "regular building occupants". Therefore, for the purposes of total campus planning:

Visitors	= 7,000
Regular Building occupants	= 875
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Total campus occupancy = 7,875	

#### LEED Version 4.1 Bicycle Facilities Standard

- Provide short-term bike storage for at least 2.5% of all peak visitors.
- Provide long-term bike storage for at least 15% of all regular building occupants in residential facilities in addition to short-term spaces.
- Provide long-term bike storage for at least 5% of all regular building occupants in addition to short-term spaces.
- Provide 1 shower facility for first 100 regular building occupants: 1 per 150 up to 999 regular occupants.

### Examples

Short term parking is characterized as a typical bike rack, in publicly accessible location, where security is provided wholly by the bike owner.



Long-term parking is characterized by bike parking in a monitored, secured facility (Bike Rooms) or user-controlled/accessible bicycle lockers.



**Total Campus Need (per LEED standard)**

Short-term storage for visitors = 7,000 x 2.5%	= 175 spaces
Short-term storage for regular building occupants = 875 x 2.5%	= 22 spaces
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Total Short Term Space need across campus	= 197 spaces

Long-term storage for regular building occupants in residential facilities = 500 x 15%	=75 spaces
Long-term storage for regular building occupants = 375 x 5%	= 20 spaces
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Total Long-Term Space need across campus	= 95 spaces

Shower Facilities for regular building occupants (excluding residential) = 1 for first 100 + 1 for each 150 after	
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Total shower/changing facility need across campus	= 3 total shower/changing facilities.

**Planned Bicycle Parking Facility Improvements**

SCC will address bicycle parking and shower facility needs on a project-by-project basis. The total need will be exceeded by the following minimum development. See the attached Figure 14 – Proposed Transportation and Parking

Existing facilities to remain.

East side of BE Phase II – SE corner	=42 short term bike parking
Main Entry to BE complex – Broadway	= 16 short-term bike parking
Howell Street Passage	= 34 short term bike parking

#### Student Housing

Sidewalks near main entrance = 15 short term bike parking  
Secured Bike Room inside building = 100 long term bike parking  
= 2 shower/changing rooms for non-residents

#### ITEC Building

Sidewalks near main entrance = 25 short term bike parking  
Secured Bike Room inside building + public bike lockers = 25 long term bike parking  
= 3 shower/changing rooms

#### Broadway Achievement Center

Sidewalks near main entrance = 20 short term bike parking  
Secured Bike Room inside building = 20 long term bike parking  
= 1 shower/changing rooms

#### Student Union/MAC

Sidewalks near main entrance = 18 short term bike parking  
Secured Bike Room inside building = 36 long term bike parking  
= 6 shower/changing rooms (existing)

Cumulatively, across campus, the above commitments total:

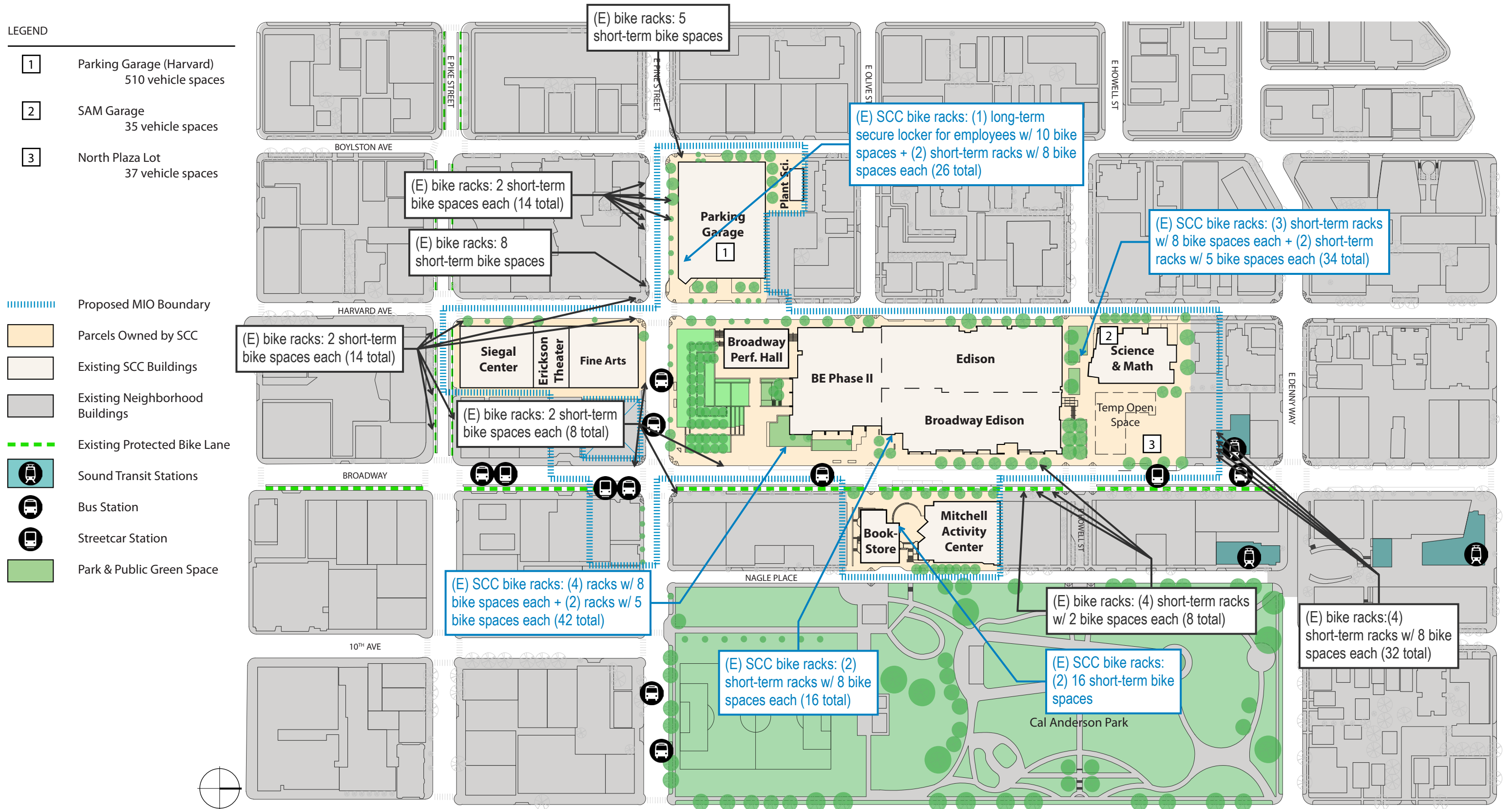
- 270 short-term bike parking spaces in bike racks located in publicly accessible areas. (73 more than the standard).
- 181 long-term parking spaces in secured bike room or publicly accessible lockers. (86 more than the standard)
- 12 shower/changing rooms. (9 more than the standard).

#### Aspirational Improvements

SCC acknowledges that certain campus-wide aspirational goals would benefit by the addition of bike facilities and will include them with the following aspirational project.

- South Plaza Improvements
- Howell Street Passage Improvements.

**FIGURE 13.1 - EXISTING TRANSPORTATION AND PARKING**



**FIGURE 14 - PROPOSED TRANSPORTATION AND PARKING**

LEGEND

- 1 Student Housing Garage  
±250 vehicle spaces  
Secure Bike Parking
- 2 SAM Garage  
±32 vehicle spaces
- 3 ITEC Garage  
±200 vehicle spaces  
Secure Bike Parking
- Proposed MIO Boundary
- Parcels Owned by SCC
- Existing SCC Buildings
- New Construction/Expansion
- Renovation
- Campus Entry Enhancements
- Existing Neighborhood Buildings
- Existing Protected Bike Lane
- Sound Transit Stations
- Bus Station
- Streetcar Station
- Park & Public Green Space

