

Description of Project

Housing and Dining Services (HDS) is requesting ATFAB funding to install a bicycle and scooter charging and parking station outside of Braiden Hall.

Background Content: CSU policy prohibits residents from entering and charging their electronic-mobility devices in their residence halls and apartments. However, enforcement is low, and many staff observe many e-bikes and e-scooters brought into rooms regardless. From a sustainability lens, we would like to encourage residents to continue bringing e-mobility devices on campus, as an alternative form of vehicular use. We are also very aware of bike theft outside our residence halls, and we shouldn't expect our students to park highly valuable devices outside their buildings, given these high theft rates. We are looking to pilot a solution that allows for safe parking and charging of these devices, outside of buildings, and in compliance with current University policy.

In FY23, a staff member requested funding to conduct a feasibility study of completing such a project, and nearly \$8,000 was allocated for this purpose (both from the HDS Sustainability Fund and HDS Facilities). During Summer 2023, we were quoted approximately \$60,000 to purchase and install a 5-unit Bikeep ebike charge station. The feasibility report implied a Braiden Hall northeast site location. This location was selected because the staff member noticed many scooters brought inside the building with the FY23 resident cohort. This location was also selected from a previous solar-ready bike shelter ATFAB submission (unfunded due to the pandemic) due to high solar irradiance in the area.

Since Summer 2023, HDS Sustainability, along with feedback from Parking and Transportation Services (PTS) and CSU's Remodel and Construction Services (RCS), received various other vendor quotes, and have concluded that a [Saris unit](#) would work best on our CSU campus. These units allow students to bring their own charging cables that match their mobility device, as well as their own locks to secure their devices to the rack.

With ATFAB's support, HDS would like to move forward with Saris to purchase a ten-unit electric bike and scooter charge station in the courtyard, located northeast of Braiden Hall's main entry. RCS would be responsible for installation. The attached budget opinion also includes a solar-ready bike shelter that would shield these ten units from the weather elements and further encourage their use as covered bike storage.

Finally, given high bike theft rates, RCS included an add alternate scope item to include a security camera. The cost to add this scope into the base project would be an additional \$9,000, to this funding request. This is a flexible line item that can be added at ATFAB's purview.

Approximate timeline for the project (have you contacted Facilities for a bid and proposed schedule, if applicable?):

There is no strict timeline for this project. If the proposal is accepted, we would like to complete the project as soon as possible with the proposed bid and schedule by RCS.

How will users be supported?

We are proposing installing infrastructure that would be publicly available for anyone to use. We proposed the Braiden courtyard to discourage residents from storing and charging e-devices in their rooms, but anyone can use these Saris racks. These racks will also be highly visible for riders using the Mountain Side Bike Trail, connecting the LSC to the Pitkin Bike Lane.

Benefits to students in accordance to ATFAB by-laws?

This project directly benefits the CSU community, from Braiden Hall residents to anyone traveling and seeking a place to charge and store their electric bikes and scooters. This project continues to encourage micro-mobility modes of transportation, and a safe way to charge devices outside of CSU buildings, complying with HDS and University policy. Given this project is a stand-alone infrastructure project, we anticipate long lifetime, and ongoing maintenance performed by HDS Facilities.

Please provide any evidence that there is student support for following the proposal (i.e. petitioning, letters of support, requests for proposal by students, ASCSU resolutions, college council approvals, etc.) It is highly recommended that proposals reach out to students; the level of student support for your proposal will likely affect the board's decision to fund it.

We do not have any documented student support at this time. However, anecdotally, HDS is aware of such devices in the resident rooms, so providing an opportunity to appropriately park and lock devices should be well-received among students. This infrastructure would be the first University-owned at CSU, and we anticipate collecting data and feedback on usage. Later this Spring, HDS hopes to survey the number of electric devices currently inside residence halls, despite university policy prohibiting such behavior, to better understand demand for outdoor e-device charging and to inform future planning for this type of infrastructure.

Is your project mentioned in any of the CSU Campus Master Plan documents? Have any campus advisory committee discussed this project? It is recommended that you consult an applicable planning or advisory committee for letters of support and advice regarding your proposal. Please attach any documents if applicable.

While this type of infrastructure is not currently in the CSU Campus Master Plan, we are hoping this pilot can provide us with feedback on a university standard for micro-mobility charging and storing. We are in communications with PTS on the best ways to pilot this project, and there is a consensus that the Saris unit is one of the more suitable products for CSU campus in meeting the needs of our students.

FACILITIES MANAGEMENT

AT COLORADO STATE UNIVERSITY

REMODEL SERVICES BUDGET OPINION

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

REVISION 1

To: Laura Carter
HDS
286-3827
Braiden Hall/22

Date: 11/28/23
Project #: 230217B
Customer ID# 8046
Expiration Date: 2/26/2024

P.M.	Phone #	Project title
John Smith	567-1015	Braiden Hall - E-bike Parking and Shelter

Quantity	Labor/Material	Description	Unit Price	Less received	Line Total
		Provide and install a 10 unit Saris ebike charging station. Re-locate irrigation, trench to site, core drill, run underground power, pour concrete piers/pad, take delivery/assemble bike station, hook up to power, provide CSU standard metal bike shelter. Then fix landscaping.			
1.00	Structural	Take delivery and assemble charging rack	\$ 4,600.00		\$ 4,600.00
1.00	Electrical	Allowance for underground power to charging rack and core drilling	\$ 7,500.00		\$ 7,500.00
1.00	Excavation	Allowance for trenching and excavating pad site	\$ 11,250.00		\$ 11,250.00
1.00	Concrete	Provide concrete piers and pad	\$ 9,200.00		\$ 9,200.00
1.00	Bike Shelter	Provide and install metal bike shelter	\$ 19,000.00		\$ 19,000.00
1.00	Saris	10 unit Saris Ebike charging racks	\$ 16,000.00		\$ 16,000.00
1.00	Landscaping	Landscaping and sprinkler repair	\$ 8,000.00		\$ 8,000.00
				Construction Subtotal	\$ 75,550.00
		Add alternate: 1 security camera - \$9,000		Contingency	\$ 7,555.00
				Design Fees	\$ 8,310.50
				Third Party Code Review Fees	\$ 890.87
				Project Management Fees	\$ 7,555.00
				Advertisement Fees	
				Total	\$ 99,861.37

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.
2. Asbestos or Lead hazard assessment or abatement is not covered unless stated
3. This quote does not cover the activation of phone and data lines; customer will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, or **for 53 funds**, please call our Finance section at 970-566-1497.

\$ 12,978.87

Thank You For Your Business

