

An Introduction to the Site...



The site is located off of Sixth Street, next to the Steam Plant. It is across from existing engineering buildings and is currently being used as a parking lot.



Opportunities



The presence of Paradise Path, a well-used transportation route borders the site, providing opportunity for quality pedestrian connections to the transportation building



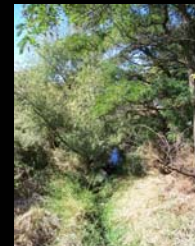
Opportunities

The site is surrounded by existing trees on the north, east, and south sides, providing opportunity for potential shading, wind block, and aesthetics



Opportunities

Paradise Creek, which borders the site provides opportunity for beauty and the potential to redesign existing bridges that connect the campus to the city infrastructure



Opportunities



The UI Steam Plant borders the site, providing opportunity for harvesting energy directly

Opportunities



The nearby intersection of Sixth Street and Line Street provides opportunity for transit equipment to locate the site and enter from either Sixth or Line Streets.

Opportunities

Engineering Physics Building
Buchanan Engineering Laboratory
Guass-Johnson Engineering Building



Existing Engineering Buildings and Laboratories are directly related to the site, located just across the street, and provide opportunity for continuing to develop this area of campus for advancement in engineering and technology

Constraints

The existing University Recycling Building borders the northern edge of the site and currently blocks transportation access from Line Street.



Constraints



The Steam Plant borders the site and may provide unwanted shading, clearance requirements, and less aesthetic components



Constraints



The position of Paradise Creek bordering the site limits building construction to remain on the south side of Paradise Path.

More of the Site



Site Analysis



Shadow Analysis



Site Shading Analysis:

Shadow Movement:
Generally progresses from west to east across the lot as the day passes. By 5pm, about 1/2 of the site is covered in shade from the Steam Plant and Recycling Center.



Sustainable Ideas to Consider

- o Photovoltaic Panels, Solar Energy
- o High-efficiency Lighting
- o Recycled Building Materials
- o Natural Daylight
- o Passive Solar Heating
- o Water Treatment
- o Integrated Cooling System
- o Shading
- o Thermal Zoning
- o Natural Ventilation
- o Climate Response Design
- o Local & Minimally Processed Materials
- o Rainwater Collection
- o Composting Toilets
- o Indigenous Landscape
- o Building Orientation
- o Insulation

