

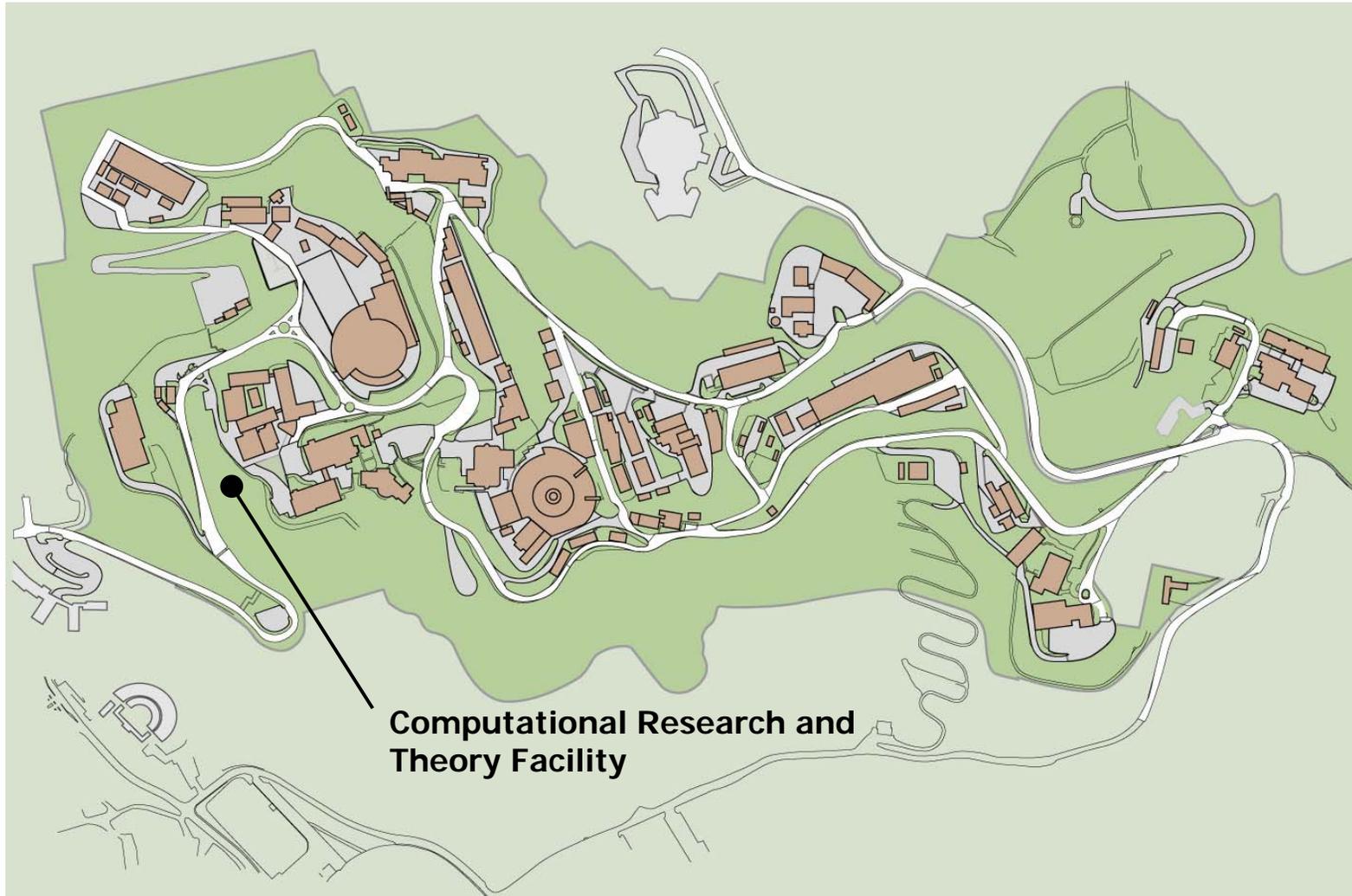
# Computational Research & Theory Facility



**Public Hearing**

**December 10, 2007**

# Project Site



# CRT Building Information



- **Occupancy 300**
  - **NERSC (National Energy Research Scientific Computing Center) Division**
  - **Computational Research Division**
  - **UC Berkeley/LBNL joint program in Computational Science & Engineering**
  - **Visualization Lab**
- **140,000 Gross Square Feet**
- **Building Access**
  - **Pedestrian and shuttle bus**
  - **Four ADA parking spaces**
  - **No additional parking**

# Original Southwest View



# Revised Southwest View



# Revised Aerial View

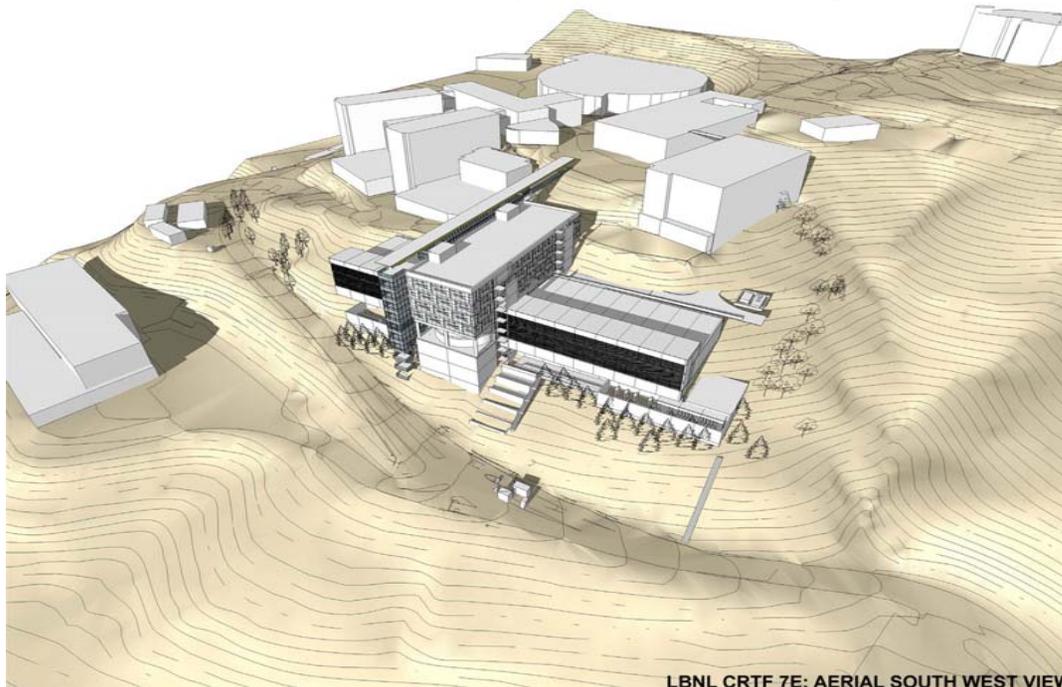


# Sustainability



- **Goal is a Minimum of LEED Silver**
- **Aggressive Energy Efficiency is Key**
  - Leverage the Berkeley Climate
    - Air economizer cycle
    - High performance cooling towers and chillers
  - Flexible
    - Air Based and/or Water Based Computer Cooling
    - Scalable for future computing technologies
    - Open plan offices
  - Sustainable Design
    - Energy Efficiency (reduced cooling from 5000 tons to 2000 tons)
    - Optimal solar orientation & screening
    - Roughed in for PV

# Computational Research & Theory Facility



## Environmental Impact Report

# CEQA Process



- **Notice of Preparation** -- **July/Aug 2007**
- **Draft EIR Circulation** -- **Nov/Dec 2007**
  - **Public Hearing** -- **Dec 10, 2007**
- **Planning Commission** -- **Dec 19, 2007**
- **Final EIR** -- **Feb 2008**
- **EIR Certification (Regents)** -- **March 2008**

- **Project Description**

- **Project Impacts Analysis**

*Aesthetics*  
*Geology*  
*Land Use*  
*Utilities*

*Air Quality*  
*Hazards*  
*Population*

*Biological*  
*Hydrology*  
*Pub Serv*

*Cultural*  
*Noise*  
*Traffic*

- **Cumulative Impacts Analysis**

- **Alternatives Analysis**

## Significant, Unavoidable Impacts

- Construction Noise
- Traffic (Cumulative)

## Alternatives

- No Project
- Low Profile Design
- Alternate LBNL Location

# Final EIR Process



- Record, review all comments
- Prepare written responses to comments
- Address substantive issues in Project Description changes and/or Final EIR analysis, as appropriate
- Prepare Mitigation Monitoring / Reporting Program
- Make Final EIR available to public / Regents

# Final EIR Process



- Record, review all comments
- Prepare written responses to comments
- **Address substantive issues in Project Description changes and/or Final EIR analysis, as appropriate**
- Prepare Mitigation Monitoring / Reporting Program
- Make Final EIR available to public / Regents

## Address substantive issues in Project Description changes and/or Final EIR analysis, as appropriate

- **Modifications to CRT design**
  - Lower height
  - Reduce sheer faces
  - Reduce volume

# Visual Simulations – Proposed Project



Existing view from Ridge Road near Euclid Avenue



Visual simulation of proposed project

SOURCE: Environmental Vision - September 2022

FIGURE 4.1 - 4

Visual Simulation: Ridge Road near Euclid Avenue

004-000-11.07



Existing view from Hearst Avenue at Shattuck Avenue



Visual simulation of proposed project

SOURCE: Environmental Vision - September 2022

FIGURE 4.1 - 3

Visual Simulation: Hearst Avenue at Shattuck Avenue

004-000-11.07

# Visual Simulations - Alternative

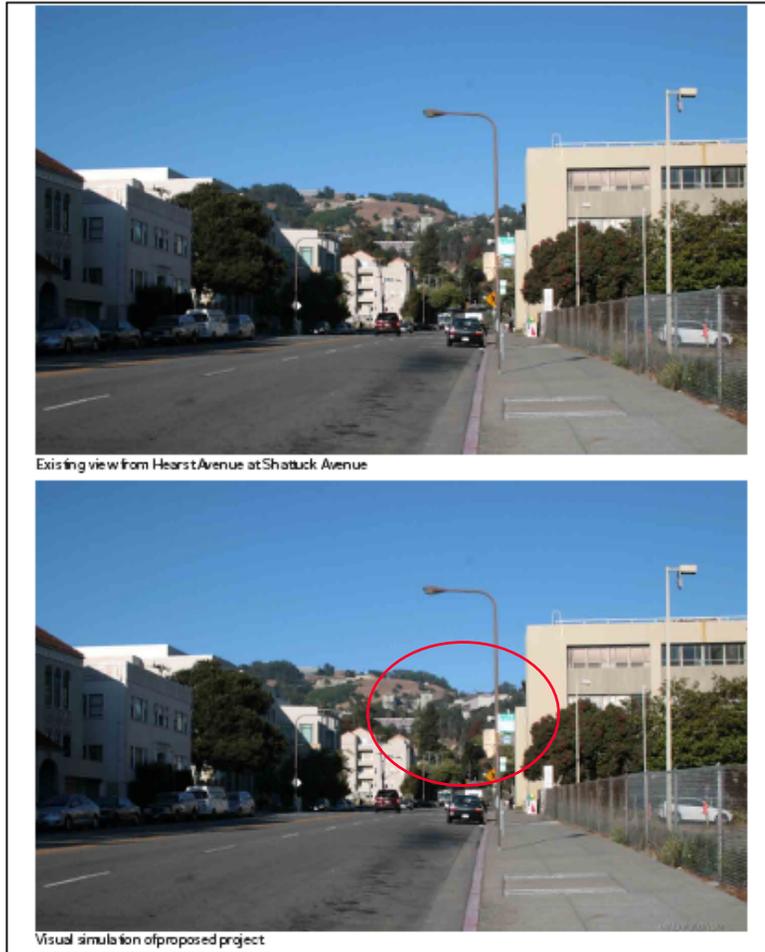


FIGURE 4.1 - 3

Visual Simulation: Hearst Avenue at Shattuck Avenue

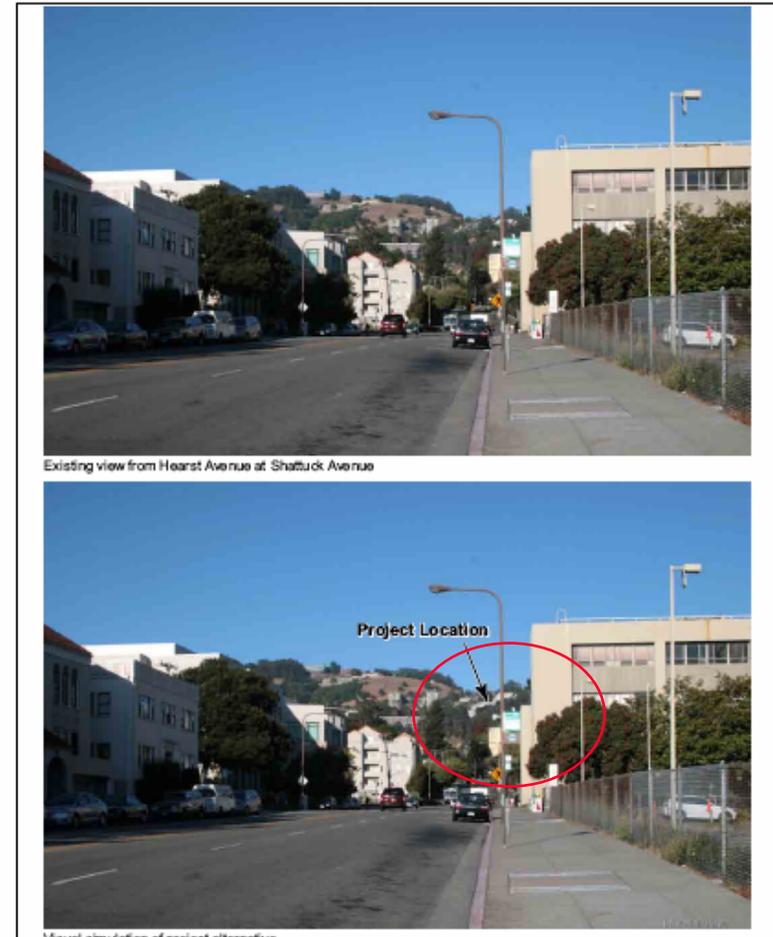


FIGURE 6.0-1

Low Profile Design Alternative

## Comments