COB3 PDU County of San Mateo





Project Goals & Priorities Design Principles

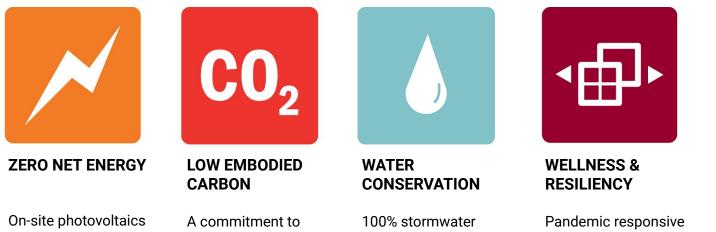
- Healthy and Contemporary Working Environment Light-filled and Naturally Ventilated Workplace
 designed for Future Programming Flexibility
- Sustainable Design : Net Zero / LEED Platinum / Low Carbon
- Iconic Civic Design: Strengthening the Public Realm, Sense of Presence, and Civic Gravitas

General Schedule

Overview



Sustainability Design Goals



offset 100% building operational predicted energy usage.

minimize embodied carbon through the use of timber and other natural or recycled materials.

runoff from building roof and site paving treated with On-site **Bioretention Planters.**

design. Access to daylight, natural ventilation, and green open space.



LEED CERTIFICATION PLATINUM

The Project is pursuing the highest LEED Certification - Platinum

Axonometric Design Features

Type Civic / Commercial + Office

Construction Type Type IV Heavy Timber (HT)

Project Area 208,000 sqft

Stories 5 Levels

Height

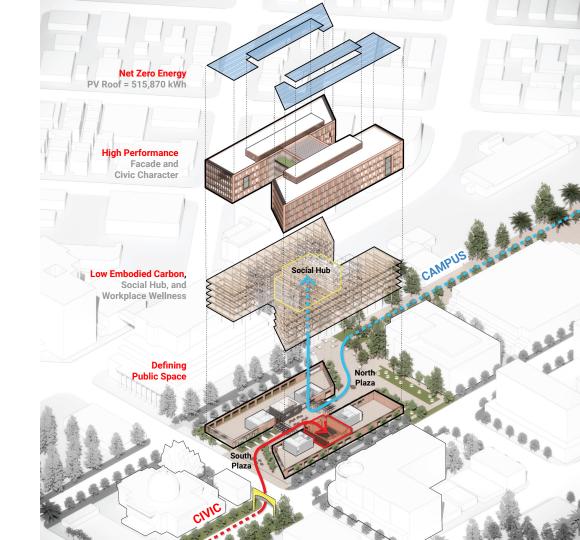
75'-9" to roof

Sustainability

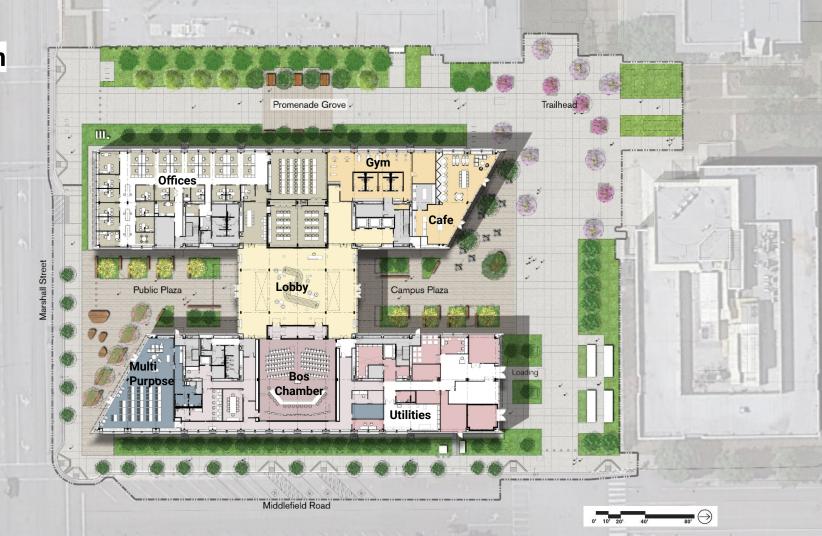
Zero Net Energy LEED Platinum Low Embodied Carbon

Completion October 2023

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Site Plan Level 01



Entry Canopy Perspective

CONTRACTOR OF STREET

mann

Lobby Perspective





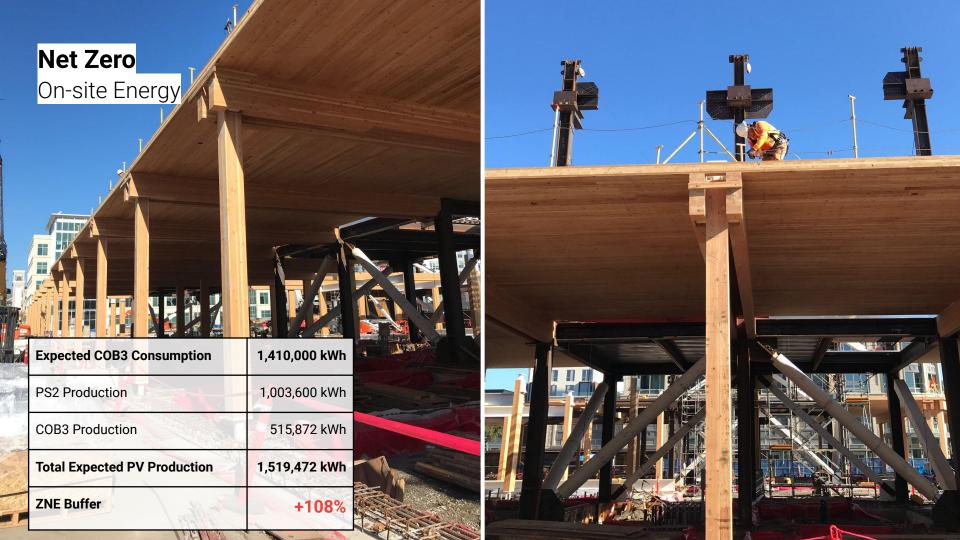
Typical Floor Program Plan

Level 02 HSA Office

Design Principles Flexible and Highly Efficient Floorplate

Typical Floor Plate Area ~40,000 gsf





Low Carbon Timber Structure Glulam + CLT

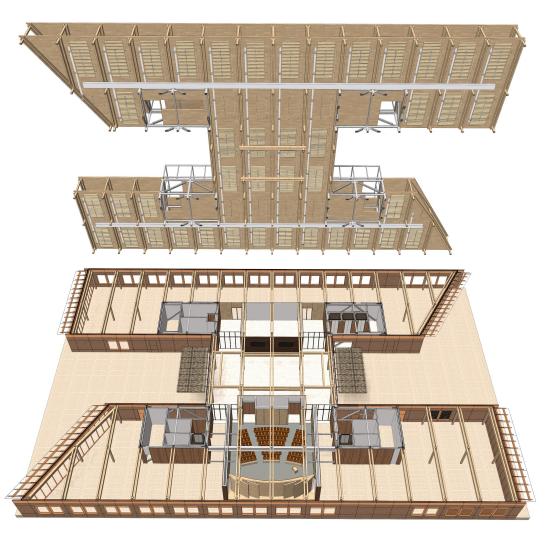


Structure: 85% Reduction in Embodied Carbon

- Optimized timber material volume
- Reduced piece count
- Reduced steel connections
- Reduced construction time
- Reduced floor-to-floor height

80% Less Embodied Carbon

Against Concrete Building Baseline Measured in the Life Cycle Analysis



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Carbon Summary Facts

Results:



Volume of Wood products used: **6,487 m3** of lumber and sheathing

US and Canada forests grow this much wood in: $\ensuremath{\textbf{18}}$ minutes



Carbon stored in the wood **5,670 mt** (metric tons) of CO_2



Avoided greenhouse gas emissions: **2,194 mt** (metric tons) of CO₂



Total potential carbon benefit: **7,864 mt** (metric tons) of CO₂

Equivalent:



1,663 cars off the road for a year



Energy to operate **830 homes for a year**







OFFICE:

- **L05** Board of Supervisors, PDU, County Managers
 - County Counsel, Human Resources
- L03 District Attorney
- L02 Human Service Agency

PUBLIC SPACES & OFFICE:

L01 Lobby, Chambers, Cafe, Gym, Multi-Purpose Human Service Agency



