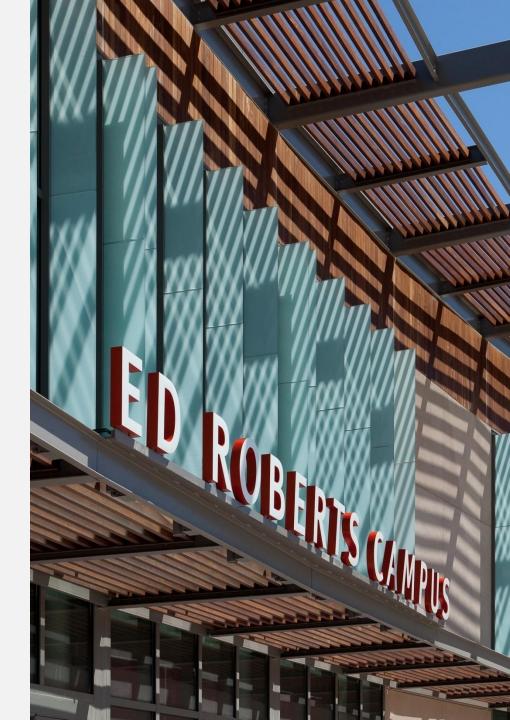
Designing for All

Building toward a just and resilient future

Ed Roberts Campus: Berkeley, CA

Gregg Novicoff, AIA LEED AP **LEDDY MAYTUM STACY** Architects



2 core ideas...



Design profoundly influences us and our sense of *confidence*, *comfort*, and *control*.

Variation in ability is *ordinary*, not special, and it affects most of us for at least part of our lives.

UNIVERSAL DESIGN

Celebrating the rich diversity of the human condition

"SUSTAINABLE DESIGN": A BROADER DEFINITION

- ENVIRONMENTALLY SUSTAINABLE
- SOCIALLY SUSTAINABLE
- FINANCIALLY SUSTAINABLE

PERSONS WITH DISABILITIES

Equitable use, intuitive, flexible and adaptable spaces

CHANGING NEEDS THROUGHOUT LIFE

- Evolving needs in the different phases of life
- Temporary / permanent injuries, health, pregnancies

DIFFERENT PEOPLE WITH DIFFERENT NEEDS

- Height, weight, energy level, disability type / level, age
- Health, environmental sensitivities, allergies

Universal Design Principles

Equitable

Overarching & transcending principle

HUMAN FUNCTION PRINCIPLES

Perceptible
Cognitively Sound

PROCESS PRINCIPLES

Flexible
Tolerant of Error
Efficient
Predictable & Stable

UNIVERSAL DESIGN

STRATEGY	BENEFIT	COST IMPACT	"SELLING" STRATEGY
SPACE REQUIREMENTS: APPROACH, REACH, CLEARANCES	EASE OF USE AND MANEUVERING WITHIN SPACES	ADDED FLOOR AREA = \$\$	 LARGER, FRIENDLIER SPACES ENHANCED FLEXIBILITY
CLEAR ORGANIZATION	IDENTIFIABLE PATH / SPACES MAKE ROOM FOR ERROR	NO COST	INTEGRATE WITH DESIGNREDUCES REQ'D SIGNAGE
AUTOMATIC DOORS	HANDS-FREE OPERATION	\$	■ INTEGRATE WITH DESIGN ■ ENHANCED ACCESS
TACTILE, RECOGNIZABLE FINISHES & MATERIALS	INTUITIVE AND PERCEPTIBLE SPACES AND PATHWAYS	NO COST	■ INTEGRATE WITH DESIGN ■ RICHNESS OF TEXTURES
BALANCED DAYLIGHTING	GOOD VISIBILITY FOR VISION- IMPAIRED	\$ LONG-TERM SAVINGS	ENERGY SAVINGSENHANCED INTERIORS
INDIRECT LIGHTING WITH DIMMERS & OCC SENSORS	NO-GLARE ADJUSTABLE LIGHT LEVELS FOR LIGHT SENSITIVITY HANDS-FREE OPERATION	\$ LONG-TERM SAVINGS	ENERGY SAVINGSDIFFERENT LIGHT LEVELS FOR DIFFERENT TASKS
TEMPERATURE CONTROLS	ADJUSTABLE, COMFORT LEVEL FOR TEMPERATURE SENSITIVITY	\$	THERMAL COMFORT FOR ALLENERGY-SAVING STRATEGY
LEVER HANDLES, WIDER DOORS AND OPENINGS THROUGHOUT	EASE OF USE AND MANEUVERING WITHOUT ASSISTANCE	\$	■ EASE OF USE FOR EVERYONE
ADDITIONAL GRAB BARS / DURABLE FINISHES	EASE OF USE AND MANEUVERING WITHOUT ASSISTANCE	\$	INTEGRATE WITH DESIGNREDUCES MAINTENANCE

SUSTAINABLE DESIGN

SYNERGIES WITH UNIVERSAL DESIGN

- Healthy indoor environments
- Thermal Comfort
- Transit-oriented Development (TOD)
- Carbon reduction

ECONOMICS

- Energy efficiency / Reduced operating costs
- Lowered maintenance
- Reduced Tenant Turnover



The Ed Roberts Campus



Seven non-profit organizations that share a mission: Helping people with disabilities lead independent lives

Ed Roberts Campus

Good design is fundamentally a social justice issue. Everyone has the right to dignified, inspiring places to live and work.

Design Objectives:

- 1. Create an international center serving and celebrating the Independent Living/ Disability Rights Movement
- 2. Build a community center that revitalizes its neighborhood, improves transit links and celebrates diversity
- 3. Integrate advanced Universal Design and Sustainable Design strategies within Transit Oriented Development













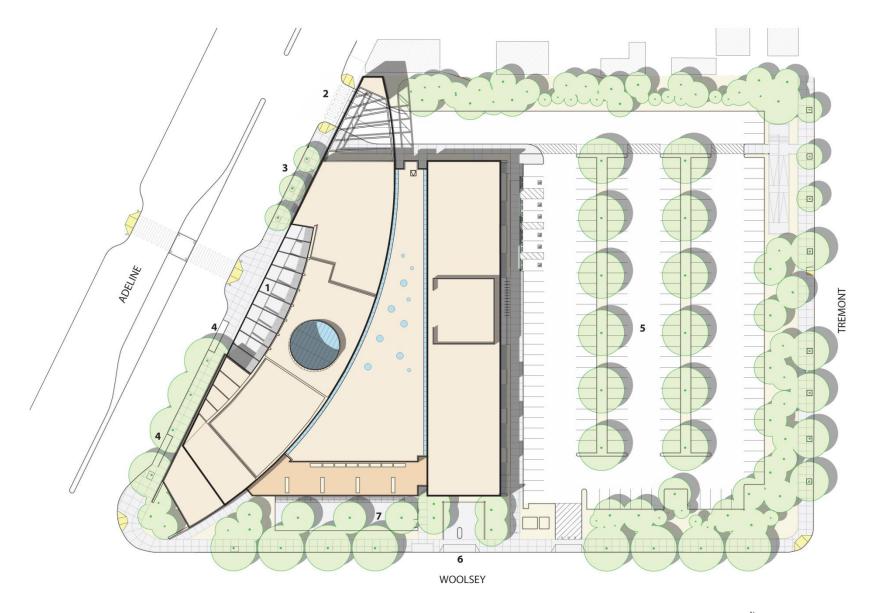




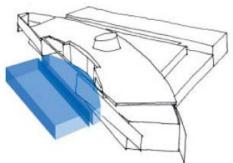
Universal Design Objectives

- Physical Environment
- Visual Environment
- Acoustical Environment
- Thermal Environment
- Chemical Environment
- Electronic Environment

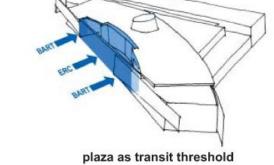


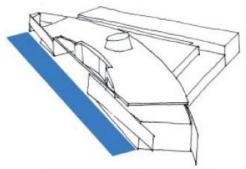






BART station interface

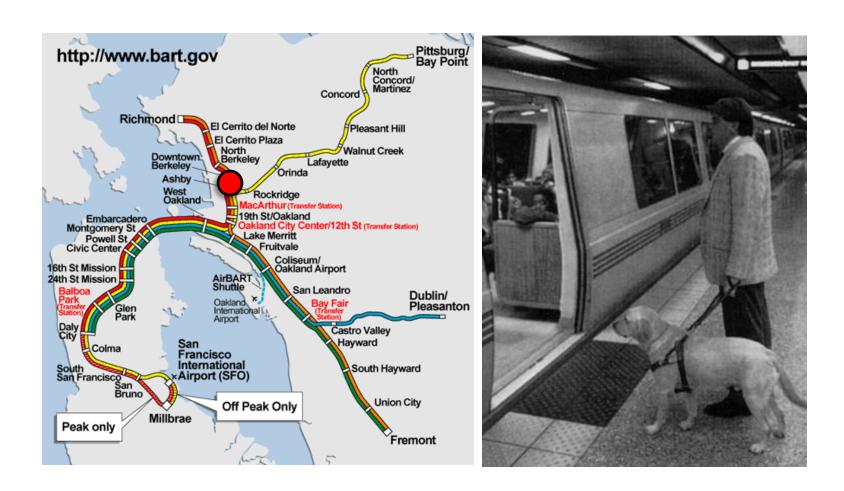




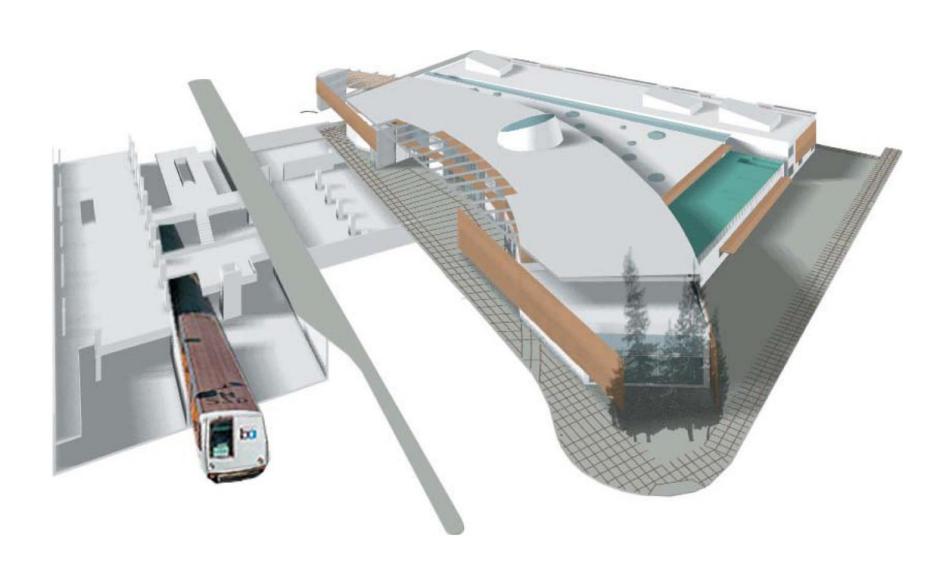
bus, paratransit & taxi zones

providing convenient mass transit access for all

Public transportation access...

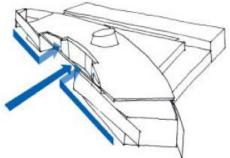


The ERC is located at a regional transit hub

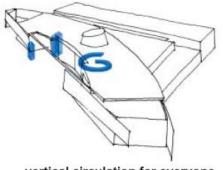


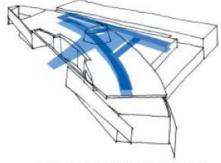






legible approach & entry





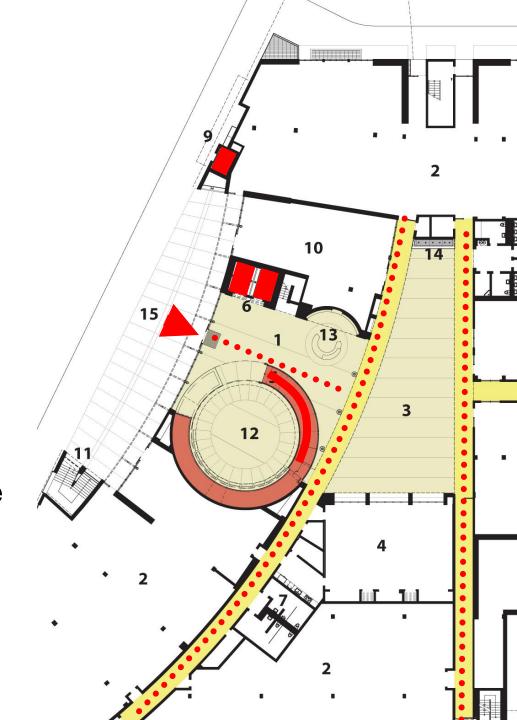
vertical circulation for everyone wide corridors | clear routes

welcoming people with diverse abilities

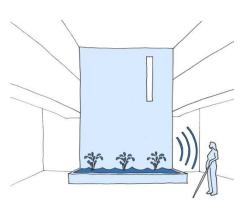
Universal Design

Physical Environment

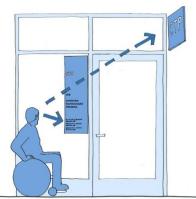
- Generous Lobby
- Large two-sided elevators
- Helical ramp used by all
- Simple loop circulation
- Accessible safety features
- Flexible space / flexible pace
- 7 ft. wide corridors



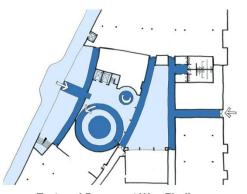








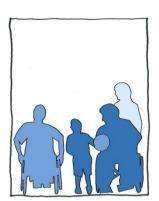
Visible Signage

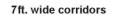


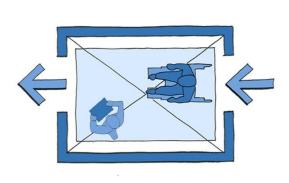
Textured Pavement Way Finding







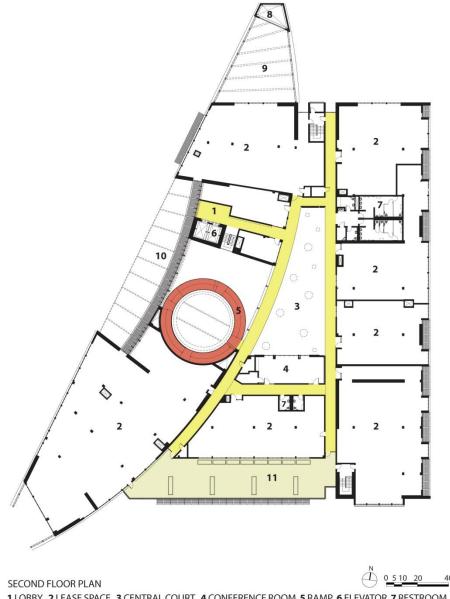




Large Double Sided Elevator

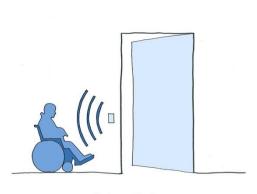


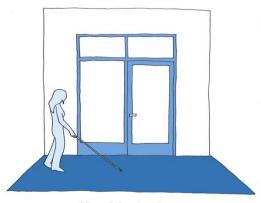
Specialized Elevator Controls

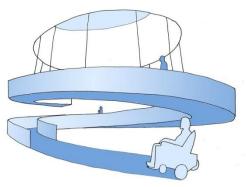


1 LOBBY 2 LEASE SPACE 3 CENTRAL COURT 4 CONFERENCE ROOM 5 RAMP 6 ELEVATOR 7 RESTROOM 8 BART VENTILATION 9 CANOPY ABOVE DRIVEWAY 10 TRELLIS WITH SUNSCREEN 11 ROOF DECK





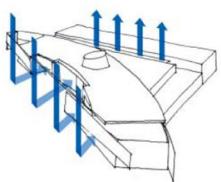




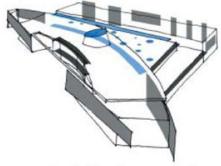
Vertical Circulation

Automatic Doors Visual Contrast





natural ventilation





daylighting | sun control

creating healthy, inviting, resource-efficient spaces

Universal Design

Chemical Environment

- Non-toxic materials / IAQ program
- Filtered fresh air
- Green cleaning program
- Smoke & fragrance free environment
- Tenants can upgrade indoor air filtering levels
- Air quality tests: 50-100% better than LEED IAQ standards

