

## **PROJECT STATEMENT**

**DESIGN OBJECTIVES:** DESIGN OF THE GALLERY OF TECHNOLOGY (THE GALLERY) COMBINES THE SPIRIT OF TECHNOLOGICAL DEVELOPMENT WITH A SENSE OF FUNDAMENTAL INNOVATIVE POSSIBILITIES FOUND IN THE SILICON VALLEY TO CREATE A POWERFUL AND PHYSICAL ICONIC LANDMARK OF URBAN IDENTITY. THE GALLERY WILL ENHANCE COMMUNITY LIVING BY SUPPORTING NET ZERO ENERGY DESIGN PRINCIPLES, GREEN ENVIRONMENTAL PLANNING GOALS WHILE ACTING AS A CATALYST TO INVIGORATE THE GUADALUPE RIVER PARK AND GARDENS.

**GALLERY OF TECHNOLOGY:** DESIGN OF THE GALLERY IS BASED ON THE BELIEF THAT IT WILL BE A BEACON OF LIGHT TO SHOW HOW INNOVATIVE PAST, PRESENT AND FUTURE TECHNOLOGICAL DEVELOPMENTS HAVE AND WILL IMPACT AND IMPROVE COMMUNITY, WORLD AND ENVIRONMENTAL CONDITIONS. THE GALLERY WILL INCLUDE A MUSEUM AND OBSERVATION TOWER. THE GALLERY WILL BE LOCATED IN THE WEST SIDE AREA OF THE DESIGN COMPETITION MAP.

**MUSEUM:** THE ONE-STORY HIGH-BAY MUSEUM WILL INCLUDE THE FOLLOWING: MUSEUM LOBBY AND GENERAL BUILDING SERVICES AREA, PAST TECHNOLOGIES GALLERY; PRESENT TECHNOLOGIES GALLERY; FUTURE TECHNOLOGIES GALLERY; MUSEUM WORKING AND STORAGE AREA; CONFERENCE AND MEETING ROOMS; MUSEUM ADMINISTRATION OFFICES; AND FOOD SERVICES FACILITY.

**OBSERVATION TOWER:** THE TOWER REACHES A HEIGHT OF APPROXIMATELY 200 FEET. THE TOWER SERVES AS AN ICONIC LANDMARK FOR VISITORS ON THE GROUND AND PROVIDES A 360 DEGREE VIEW OF THE SILICON VALLEY FOR TOWER VISITORS.

**SITE DESIGN CONSIDERATIONS:** THE GALLERY AND TOWER ARE DESIGNED TO “FLOAT” ABOVE A WATER POND FEATURE THAT INCLUDES GRANITE WALKING AND ACTIVITY PADS CONNECTING THE GALLERY WITH SANTA CLARA, N AUTUMN AND WEST SAINT JOHN STREETS. THE PROPOSAL ALSO INCLUDES TREES AND PLANTING MATERIALS TO PROVIDE SHADE AND VISUAL COMFORT FOR VISITORS.

**CONSTRUCTION MATERIALS:** THIS PROPOSAL CALLS FOR THE IMPLEMENTATION OF NEW BUILDING MATERIALS INCLUDING: 1) SELF CLEANING MICRO STRUCTURES DESIGNED TO FORM A LATTICE WORK OF CELL STRUCTURES WITH CARBON FIBER REINFORCING TO CREATE HIGH STRENGTH, VERY LOW WEIGHT FRAMING MEMBERS; 2) EXTREMELY LIGHT WEIGHT AEROGEL INSULATION; 3) ETHYLENE TETRA-FLUOROETHYLENE FILM MEMBRANES TO CREATTE FLEXIBLE BUILDING FACADES; 4) PASSIVE SOLAR NANO-CRYSTALLINE FILM WINDOWS; AND 5) SELF-HEALING AND CLEANING, CARBON ABSORBING CONCRETE.

**RENEWABLE ENERGY RESOURCES:** DESIGN OF THE MUSEUM AND TOWER WILL UTILIZE PHOTOVOLTAIC SOLAR PANELS AND OPTIMUM BUILDING ORIENTATION DESIGN FEATURES INCLUDING CLEAR STORY NATURAL LIGHTING AND THE DESIGN OF CHIMINY STACK EXHAUST ELEMENTS TO ACHIEVE A ZERO NET ENERGY BUILDING.

**ACCESSIBILITY FEATURES:** THE GALLERY AND SURROUNDING SITE FEATURES ARE ACCESSIBLE TO ALL VISITORS.