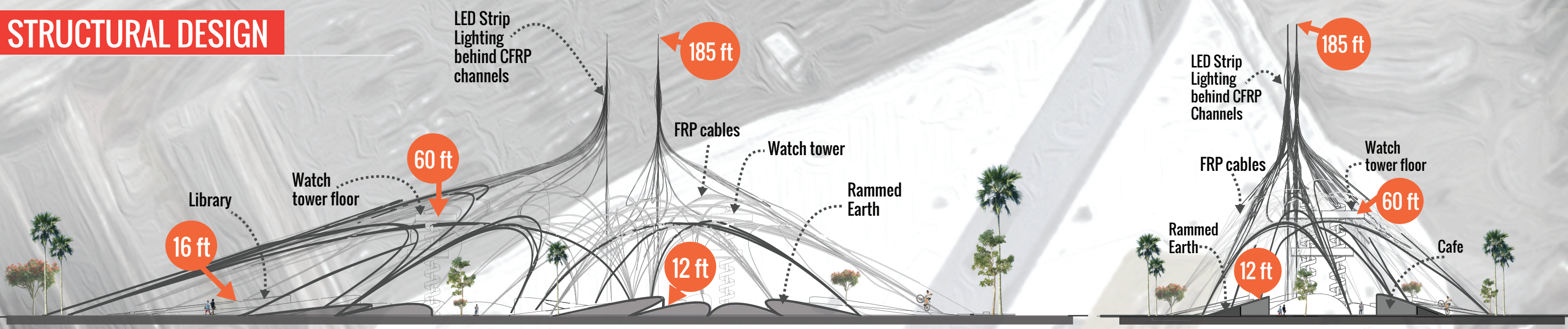


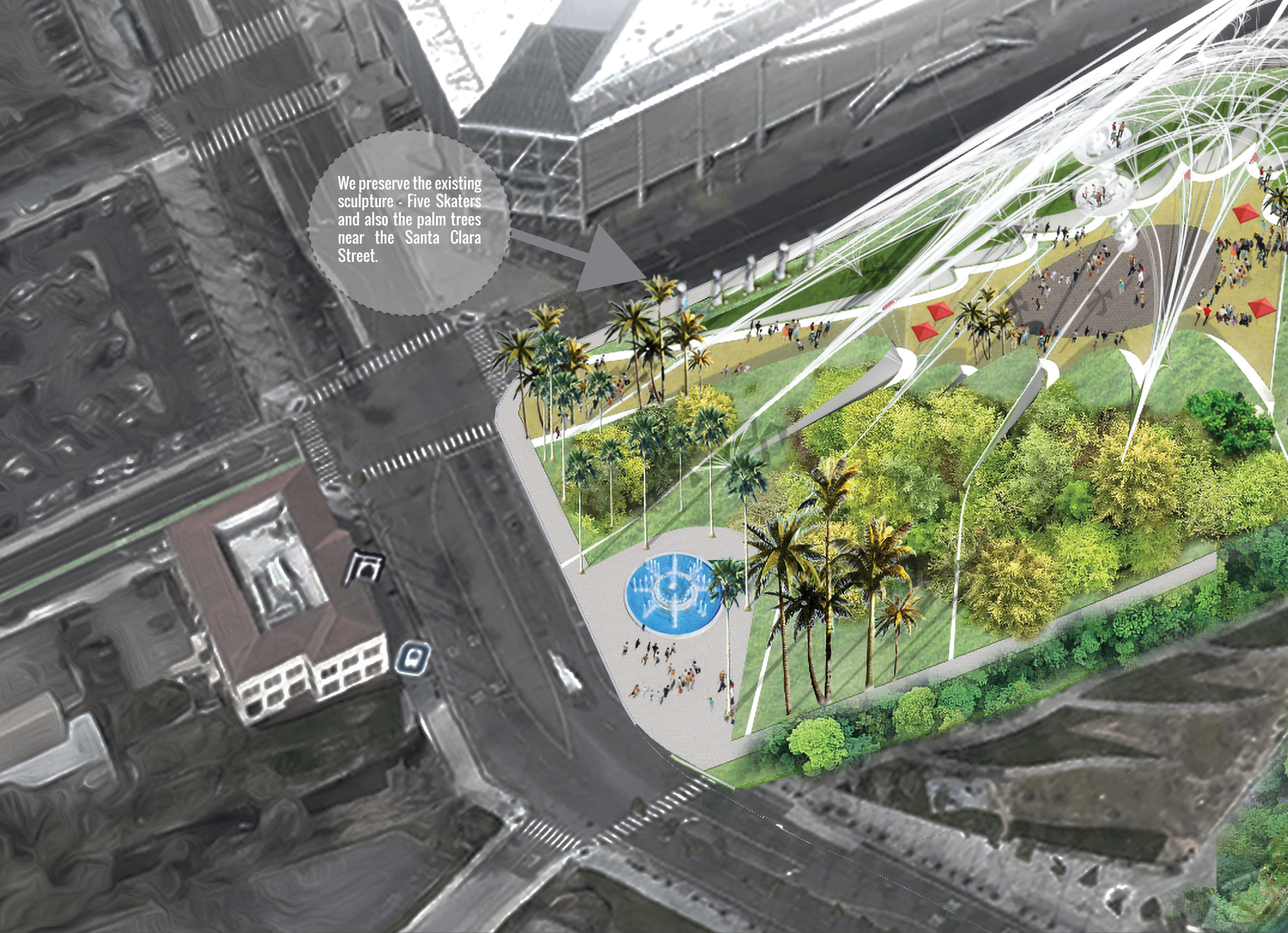
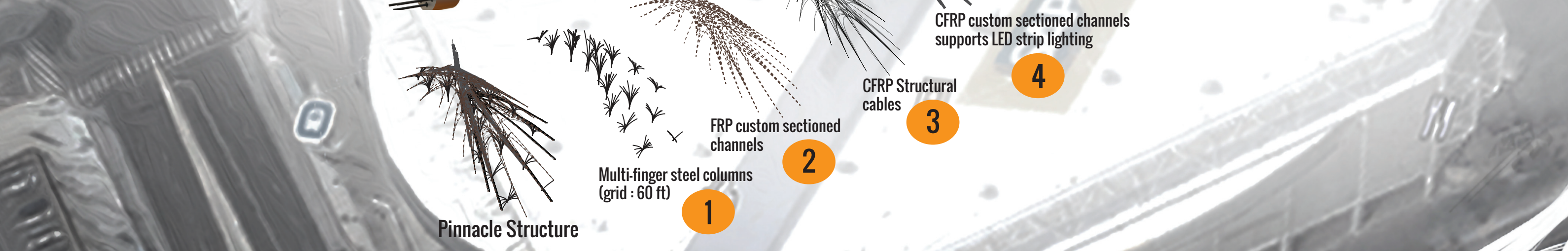
**STRUCTURAL DESIGN**

# pinnacle



**SECTION A-A**  
 CFRP: Carbon fiber reinforced polymer composites (max length: 270 ft)  
 FRP: Fiberglass reinforced polymer composites

**SECTION B-B**  
 For the main structure of Pinnacle, we use CFRP as it is lightweight, corrosion resistant, durable, exhibits comparable or more strength to traditional materials (concrete, steel, etc.).

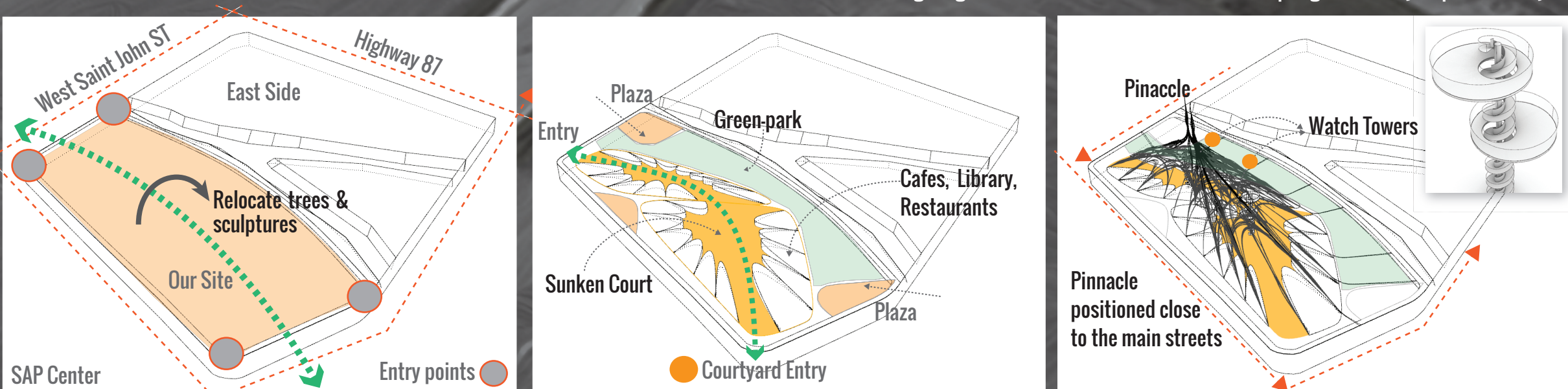


San Jose is placed at the heart of Silicon Valley. It is a global magnet attracting ideas, talent, and investment motivated to improve peoples' lives. This is made possible by the exchange of ideas that includes people from diverse parts of the world with diverse experiences. Our design celebrates this notion of "inclusivity", that is the lifeblood of Silicon Valley. We present Pinnacle, a 185 ft high landmark structure built with light and durable carbon fiber reinforced polymer composites that provide a semi-shaded iconic space that is memorable and eventful. This structure represents inclusiveness, collaboration, and the notion of diversity that brings people together. Functionally it shades a sunken courtyard and a set of watchtowers. These spaces encourage people watching and public interaction. The watchtower allows users to experience the neighboring area of the site including the beautiful cityscape of San Jose from multiple levels (40 ft and 60 ft high).

The sunken court is adjoined by green grass mounds that inhabit spaces such as cafes, restaurants, bars, libraries, and interactive communal rooms (40k sqft area). The green mounds are designed to encourage outdoor sports activities such as running, hiking, biking, etc. More importantly, the sunken court is carefully designed to create a natural barrier between the interaction space and the natural riparian habitat that adjoins the site. Furthermore, we place a thick vegetative cover as a green park between the Guadalupe River and the sunken court to obstruct glare from artificial light at night. Our lighting design strategy places two kinds of light. The first is a LED strip channel lighting carefully encased in a carbon fiber reinforced polymer channel at the top of the Pinnacle. This design creates a continuous blue light source for diffused lighting at night, reducing glare and visual disturbance to the birds, insects, fishes, etc. The second light source is the LED spot lights placed on ground that is shielded by metal protectors and by the sunken courtyard's design. These lighting techniques allow the proposed space to be activated 18 hours a day and 7 days a week.



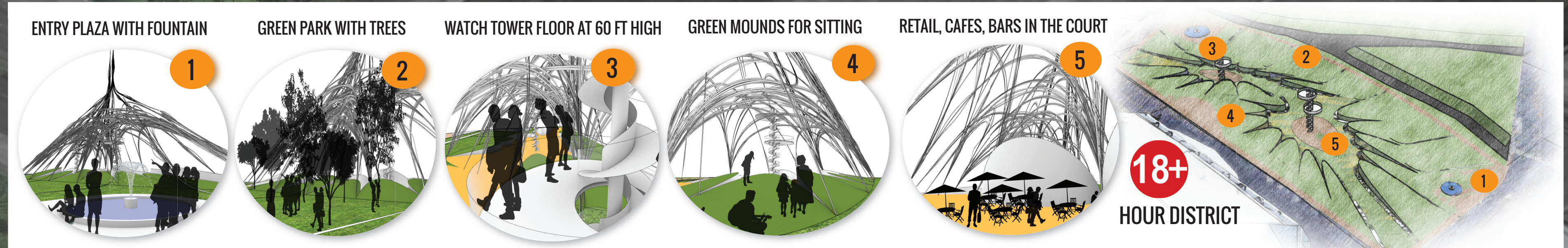
**CONCEPT**



We place "Pinnacle", an architectural landmark structure constructed using custom sectioned CFRP channels. Within the structure there are two watch towers that allow visitors an opportunity to see the beautiful cityscape of San Jose including the activated sunken courtyard. Pinnacle is strategically placed closer to the streets, imparting a unique street character to them.

**PLACEMAKING**

Our design incorporates place making strategies that renders the site activated 18+ hours a day, 7 days a week. The site supports five kinds of places such as: (1) Entry plazas containing water fountains with Pinnacle structure as the backdrop, (2) Green park with dense tree vegetation, children's carousel, and totlot playground, (3) Two watch towers each with floors at 40 ft and 60 ft height, (4) Slopped green mounds for sitting and to perform various outdoor sports activities, and (5) a sunken courtyard with access to spaces such as cafes, restaurants, bars, library etc. The court can also be utilised as open air concert or live music venues.



## LIGHTING DESIGN



1 Controllable LED strip light channels encased within CFRP sections.



2 Shielded LED spot lights from the ground provide directed lighting.

Our lighting design is motivated to minimize disruption to regular riparian life and maximize dynamic urban experience to visitors at night. To that end, we provide controllable LED strip blue lights (shorter wavelength light preferred) placed within custom-designed carbon fiber reinforced polymer composite (CFRP) channels to provide diffused continuous lighting. These lights are chosen to remove glare caused by a single source of light such as light bulbs etc. Furthermore, the lights are pointed to the ground and guarded from the top to reduce disruption to flights and birds.

The bottom part of the structure contains fiberglass-reinforced polymer channels. These are lit by a set of shielded LED spotlights. The direct glare and radiation of these spotlights are blocked by the design of the sunken courtyard and the green buffer that is placed between the riparian habitat and the proposed structure.

View from the eastside park and the Highway 87, looking at the Pinnacle at night.



View from the courtyard, showing the adjoining retail spaces, live concert, and people watching the surroundings from the centrally placed watch tower.



## SITE PLAN & PROGRAM

1. Entry Plaza
2. Relocated Children's Carousel
3. Relocated Tot-lot Playground
4. Five Skaters
5. Cafe/Bars
6. Library/Reading Rooms
7. Sunken Court
8. Green Park
9. Indoor Game Room
10. Immersize AR/VR Rooms
11. Open Air Exhibition Space

