

# SPIRALS URBAN CONFLUENCE SILICON VALLEY

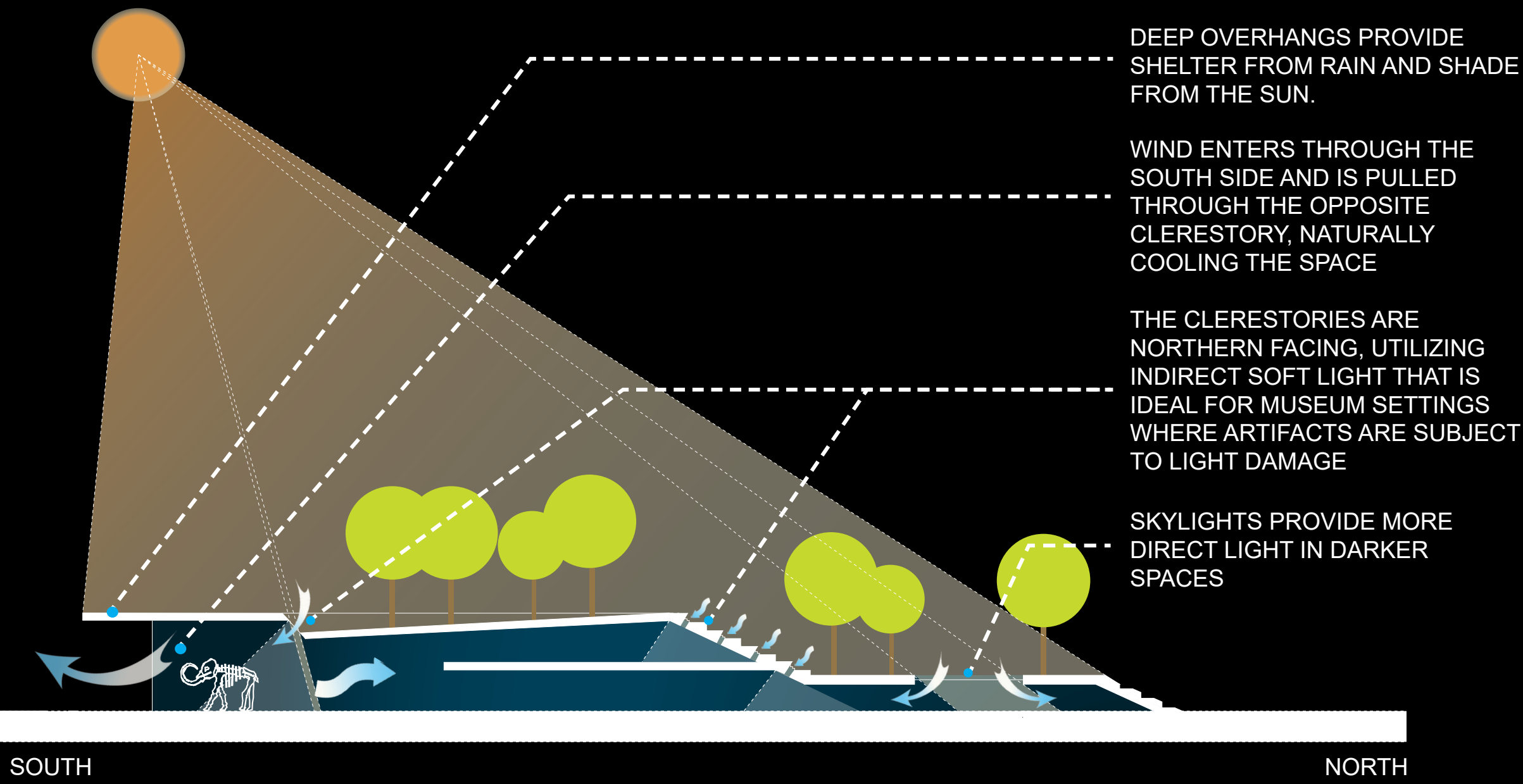
## SUSTAINABILITY

- 1 AT 200 FT ABOVE THE SURROUNDING URBAN SETTING, THE AIR IS FRESHER, THE WIND SPEED IS FASTER, AND THE TEMPERATURE IS SLIGHTLY COOLER. THE WIND TOWER AT THE LOOKOUT FUNNELS THIS NATURALLY CONDITIONED AIR, CASCADING THEM DOWN TO THE PLAZA BELOW.
- 2 WHEN WIND BLOWS ON THE SHALLOW REFLECTION POOL INTO THE INTERIOR, EVAPORATION COOLING OCCURS. THE WINDOWS ALONG THE FACADE ARE MADE TO BE OPERABLE TO TAKE ADVANTAGE OF THE NATURALLY VENTILATED AIR.
- 3 GREEN ROOFS REDUCE THE ALBEDO VALUE THAT NORMALLY CONTRIBUTES TO URBAN HEAT ISLAND EFFECT. THEY FURTHER REDUCE THE HEAT GAIN INSIDE THE BUILDING.
- 4 SOLAR PV PANELS REDUCE DEPENDENCE ON CITY'S ELECTRIC GRID
- 5 CLERESTORIES ARE PRESENT THROUGHOUT TO PROVIDE NATURAL LIGHTING DURING THE DAY
- 6 THE CONNECTION TO SAP CENTER PERMITS AMENITIES AND RESOURCES FOR INFRASTRUCTURE TO BE SHARED, THERE BY REDUCING OPERATIONAL CARBON FOOTPRINT.



## PASSIVE LIGHTING - CLERESTORIES

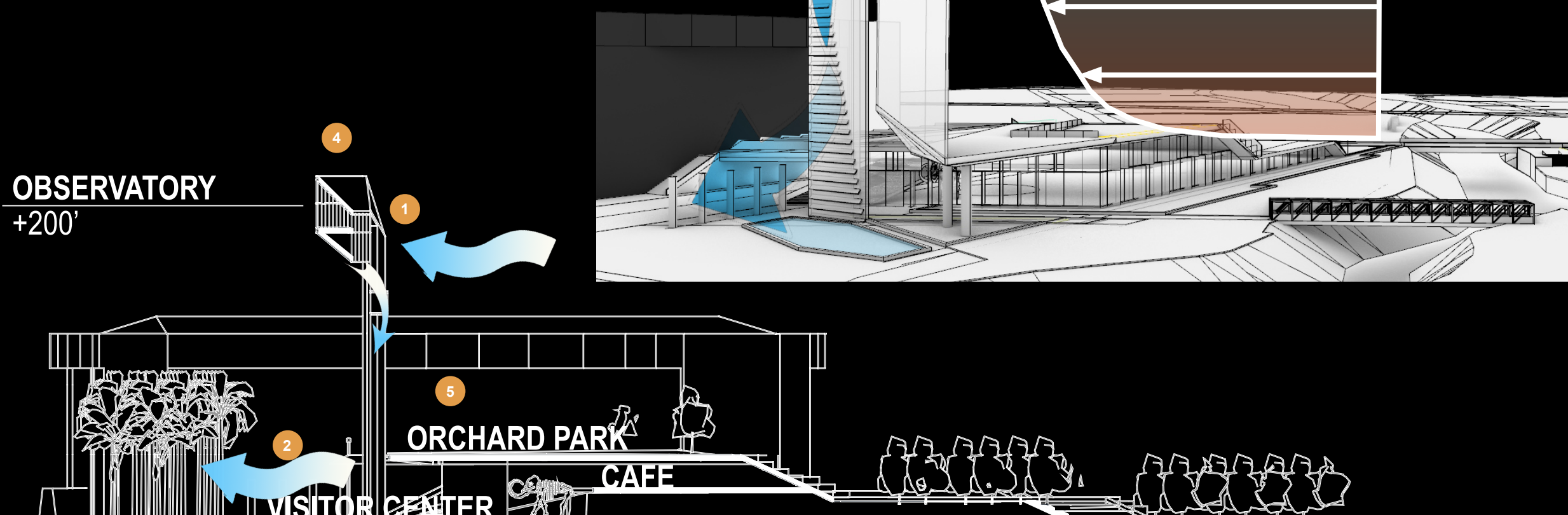
AS THE MAJORITY OF THE BUILDING IS RELATIVELY SHORT AND DEEP, NATURAL LIGHT CANNOT PENETRATE INTO THE CENTER OF THE BUILDING. CLERESTORIES SERVE THE DUAL PURPOSE OF PROVIDING NATURAL LIGHT AND ENCOURAGING THE FLOW OF AIR THROUGH THE SPACE. THIS MEANS THAT LESS ARTIFICIAL LIGHTING AND AIR CONDITIONING IS NEEDED WITHIN AND THEREFORE LESS ENERGY IS CONSUMED OVERALL.



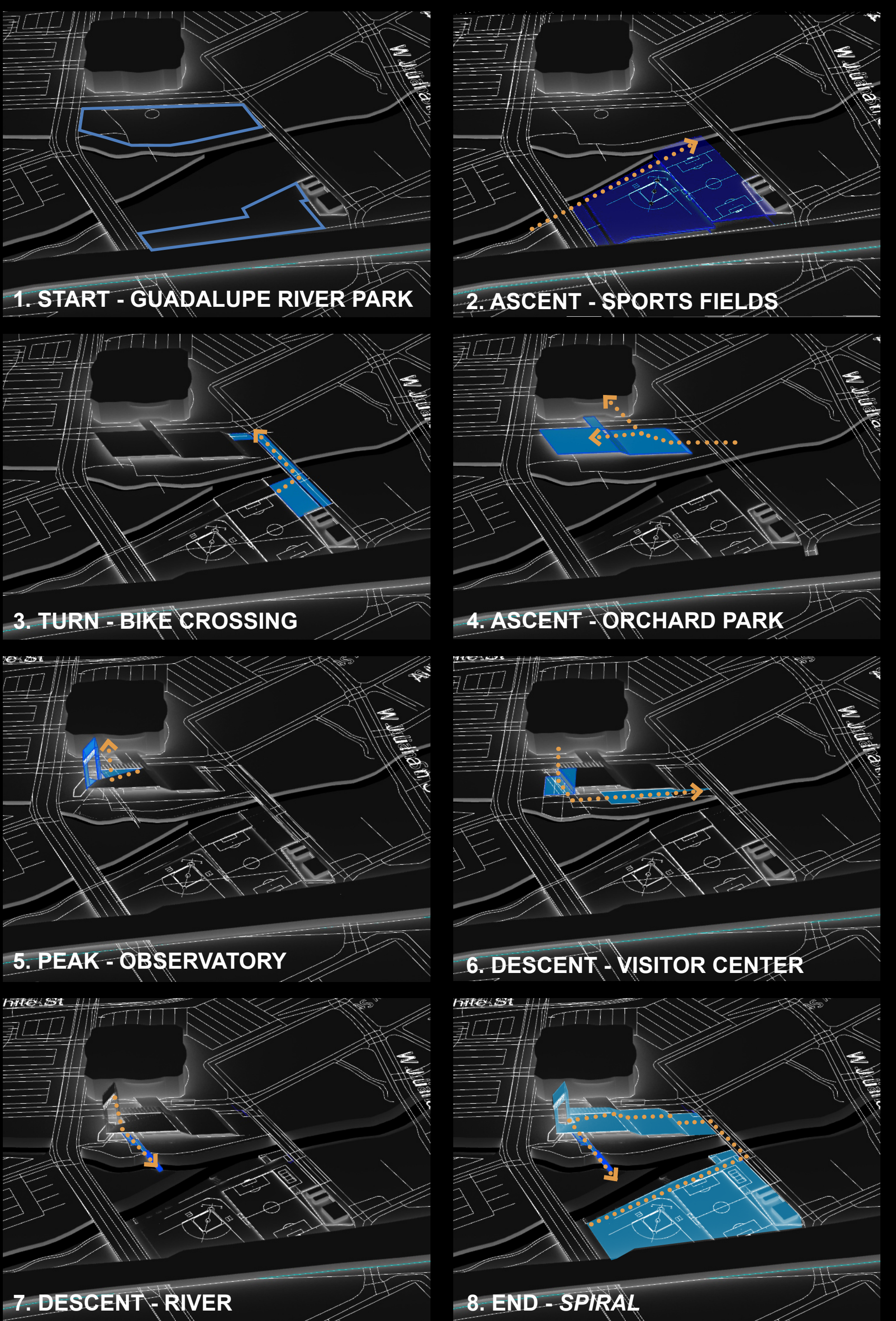
## PASSIVE COOLING - WIND FUNNEL

AIR IS COOLER AND WIND SPEED IS FASTER ABOVE THE SURROUNDING URBANSAPCE, WIND ENTERS THE INTAKE AND IS FUNNELED THROUGH THE VERTICAL FINNS ON THE SOUTH FACADE. A MECHANICAL TURBINE ASSISTS IN DRAWING THE AIR DOWN TO THE PLAZA BELOW. WATER FROM THE REFLECTING POOL FURTHER COOLS THE AIR.

THE SYSTEM DRAWS INSPIRATION FROM THE WATER FLOW OF THE RIVER AND ACTS BOTH AS A NATURAL AIR CONDITIONER AND A HUMIDIFIER DURING THE ARID SUMMER DAYS, REDUCING THE URBAN HEAT ISLAND EFFECT. THE FINNS ARE OPERABLE AND CAN CLOSE WHEN NECESSARY.



## CIRCULATION - SPIRAL

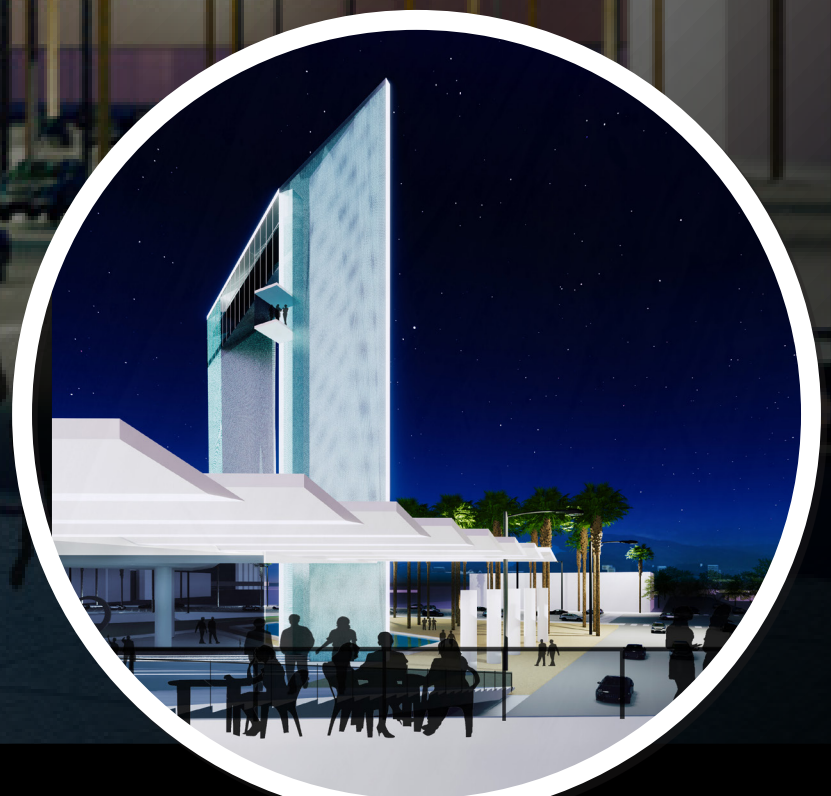


# SPIRALS

URBAN CONFLUENCE SILICON VALLEY



SKYBRIDGE & PV CANOPIES



VISITOR CENTER



WIND FUNNEL & OBSERVATORY



RIVER CROSSING



ORCHARD PARK



BIKE CROSSING



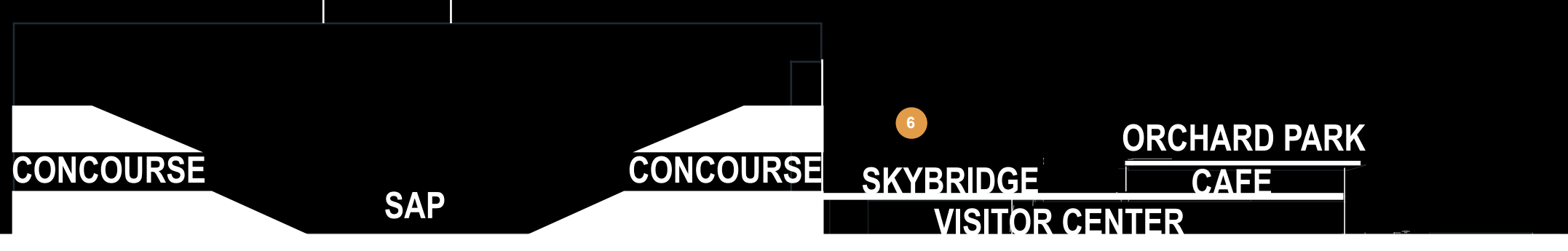
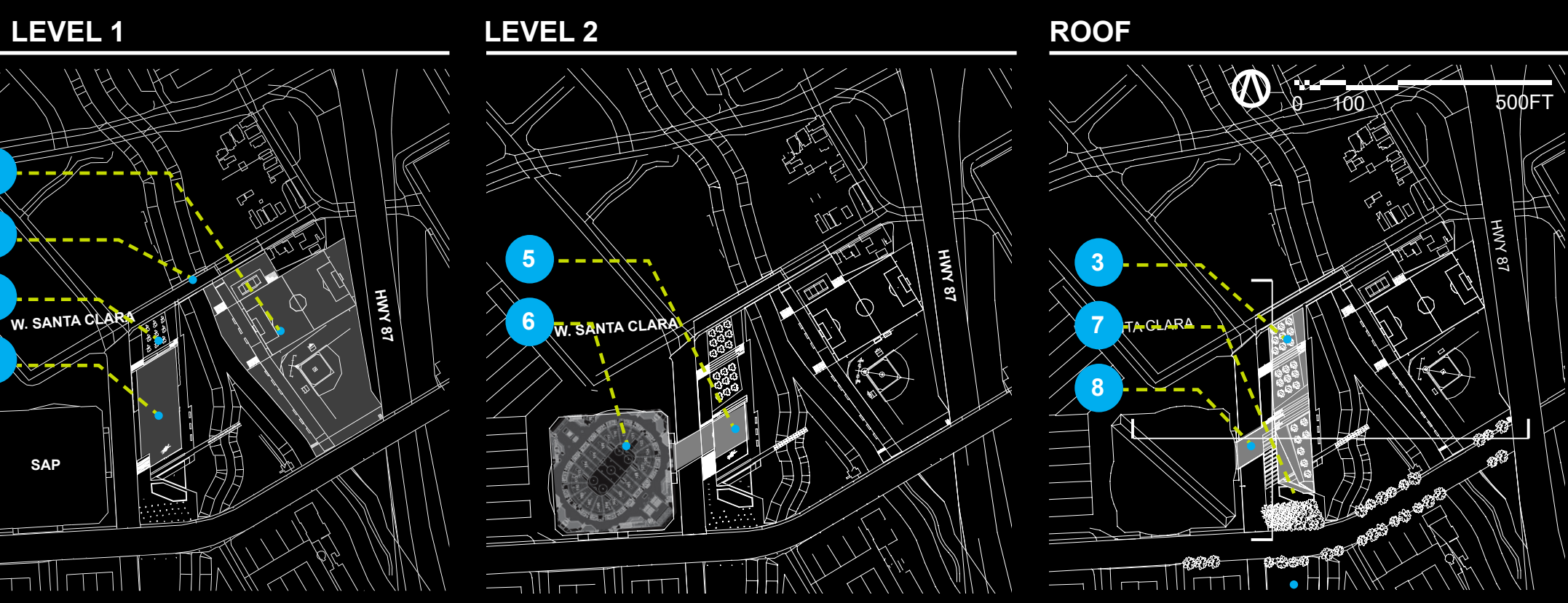
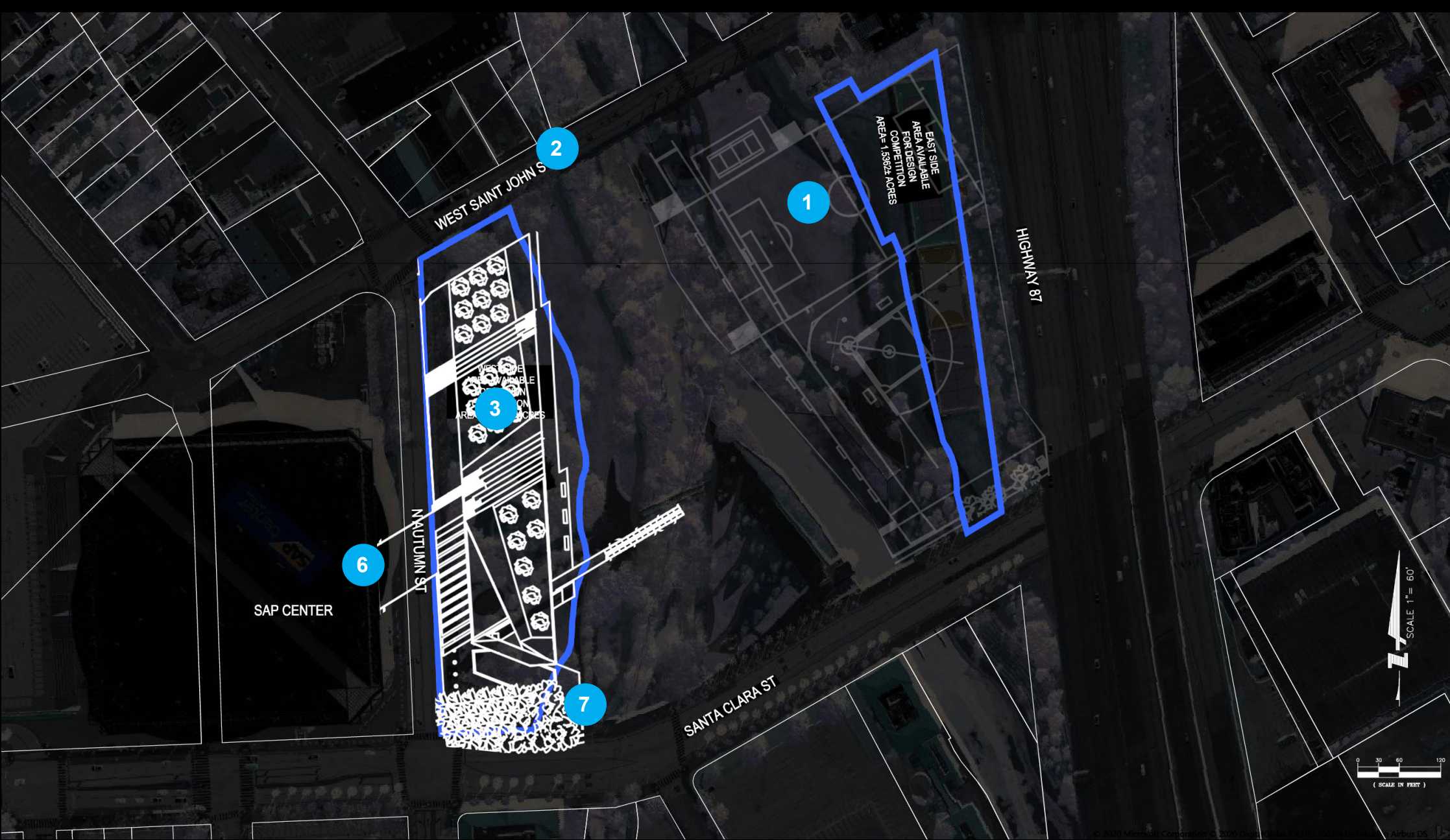
SPORTS FIELDS



PROGRAMMING & PLAN

- 1 SPORTS FIELDS
- 2 BIKE CROSSING
- 3 ORCHARD PARK
- 4 VISITOR CENTER
- 5 CAFE
- 6 SAP CONCOURSE
- 7 OBSERVATORY
- 8 SKYBRIDGE

SITE PLAN



SPORTS FIELDS

HWY 87