

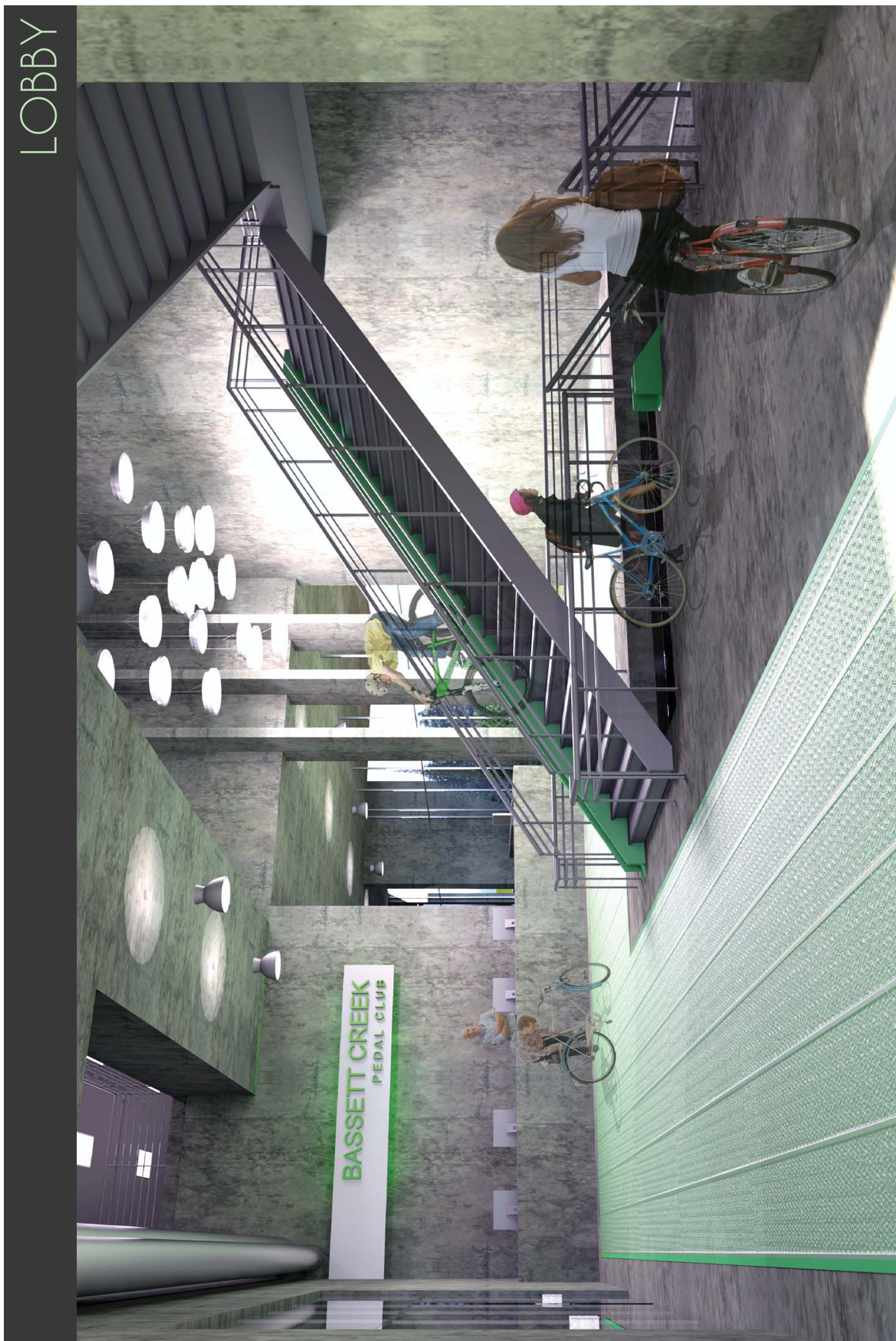
BASSETT CREEK  
PEDAL CLUB



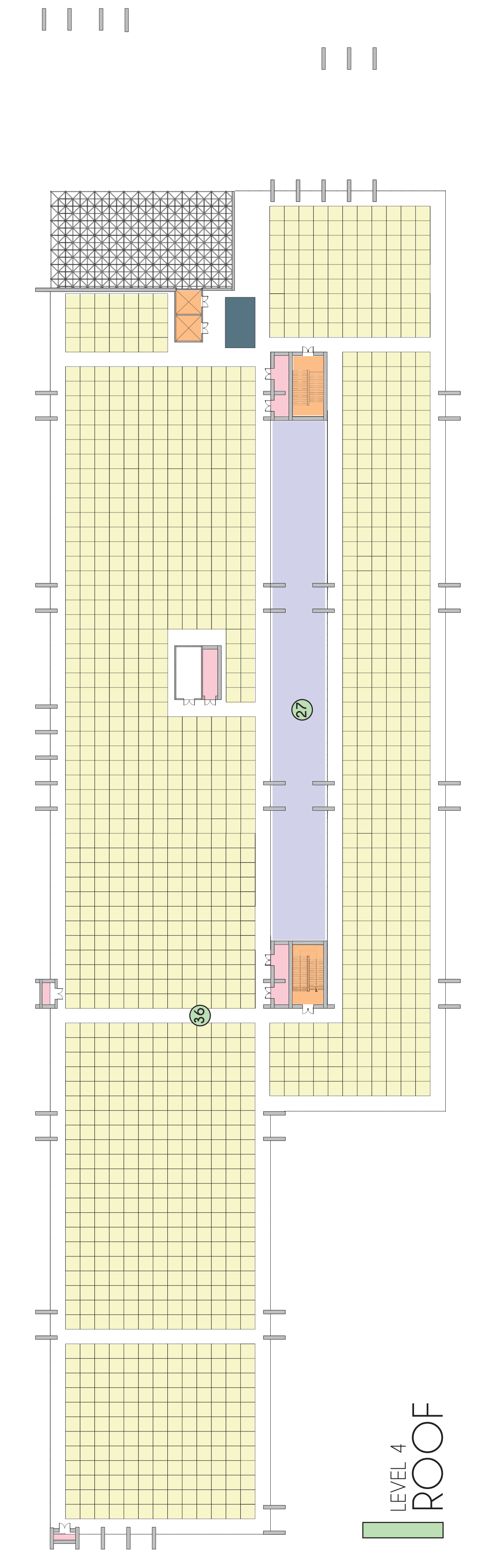
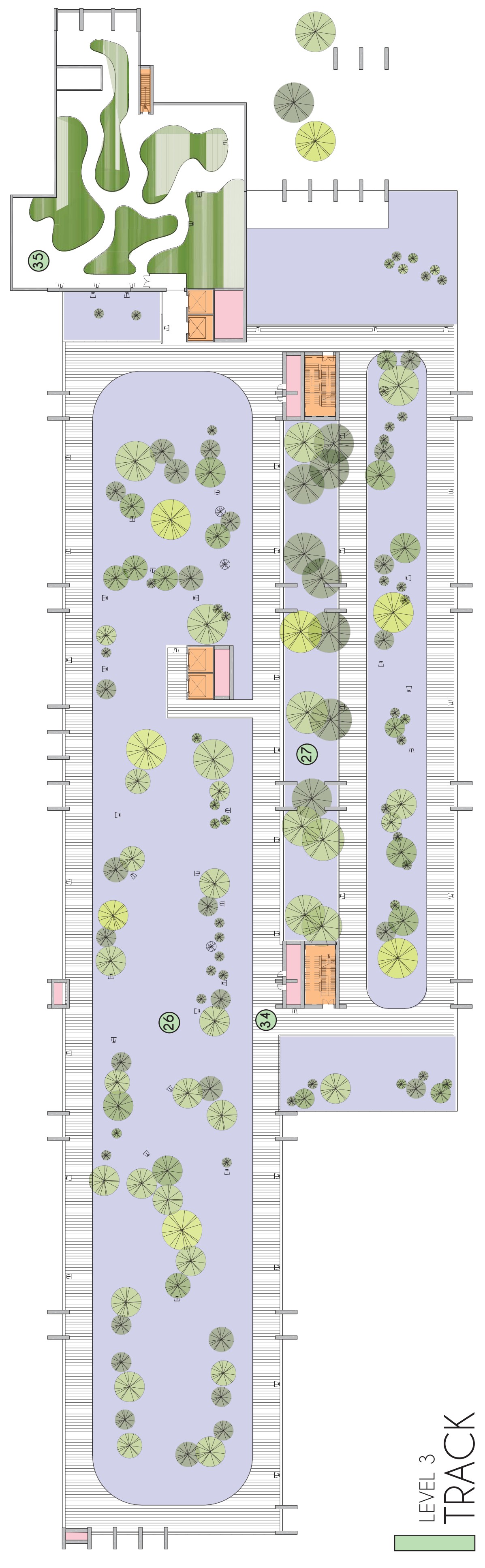
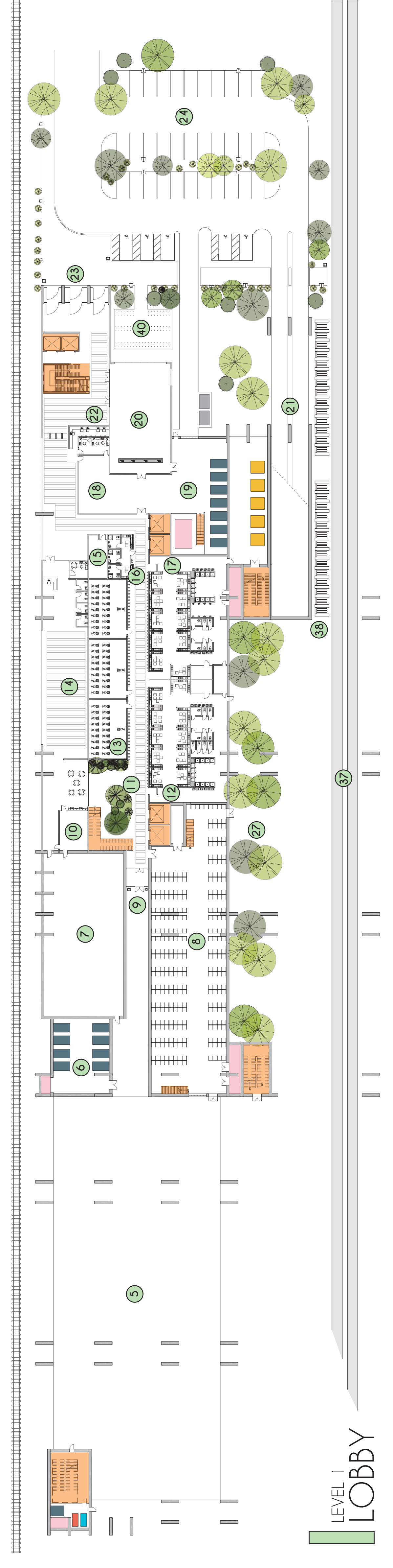
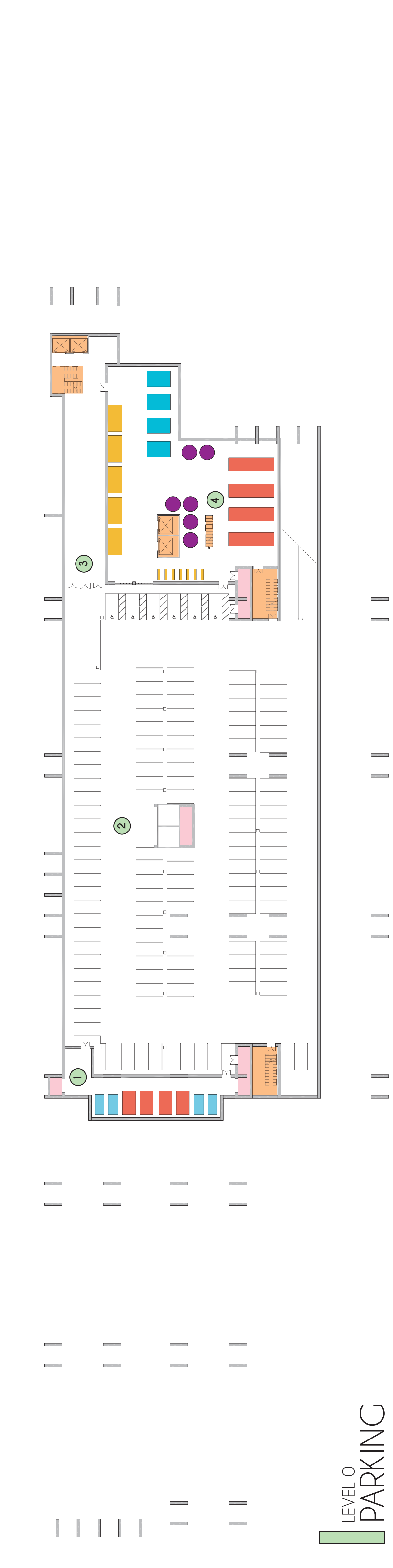


ENTRY

Understanding a specific need of the public is very important when looking at how a building can promote a healthy lifestyle, while saving energy and bringing a community closer together. Minneapolis, Minnesota, along with having some of the most extreme weather conditions in the world, lacks a solution for the harsh winter months for bicyclists. This thesis takes a close look at providing the Minneapolis metro area community with an intramural cycling environment that's able to be used year-round.



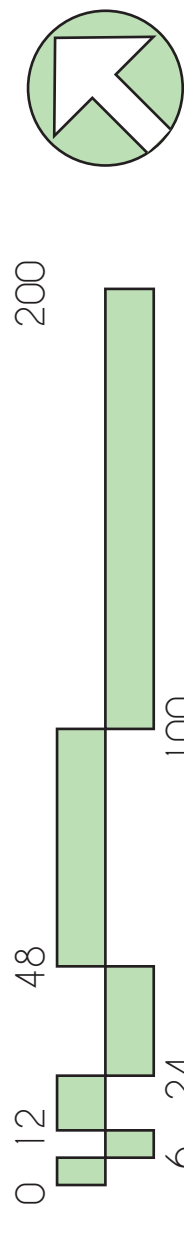
LOBBY

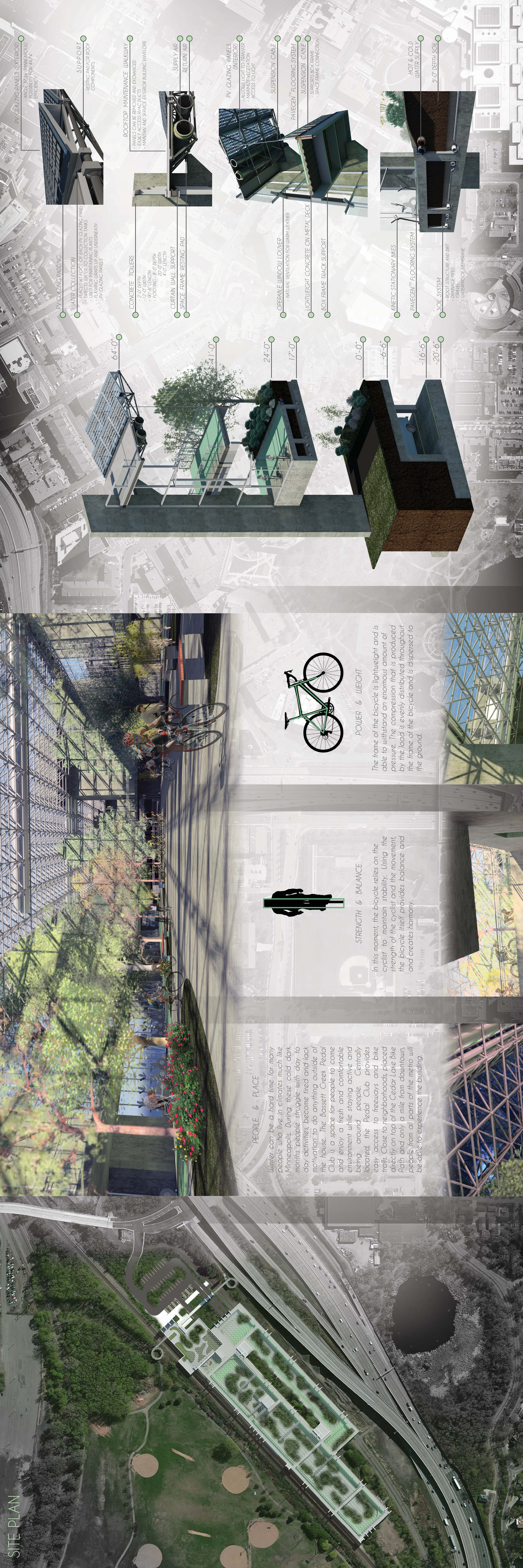


KEY & LEGEND

- 1. MECHANICAL
- 2. PARKING - 1/24 STALLS
- 3. LOUIER LEVEL ENTRY
- 4. MECHANICAL
- 5. MECHANICAL
- 6. MECHANICAL
- 7. DAYCARE - OUTDOOR
- 8. BICYCLE STORAGE
- 9. REAR ENTRY
- 10. DAYCARE - STORAGE
- 11. ATRIUM LOBBY
- 12. WOMEN'S LOCKER ROOM
- 13. SPINNING ROOMS
- 14. DAYCARE
- 15. CUSTODIAN SPACE
- 16. FAMILY LOCKER ROOM
- 17. MEN'S LOCKER ROOM
- 18. SHOP STORAGE
- 19. MECHANICAL
- 20. PUBLIC SHOP / MAINTENANCE
- 21. LOUIER PARKING ENTRY
- 22. RECEPTION / CHECK-IN
- 23. ENTRY
- 24. SURFACE PARKING - 39 STALLS
- 25. KINETIC STATIONARY BICYCLES
- 26. BICYCLE PARK / CLUB
- 27. TREE COURTYARD
- 28. PUBLIC CAFE
- 29. LEVEL 2 RECEPTION / CHECK-IN
- 30. PUBLIC RESTROOMS
- 31. OFFICES
- 32. PUBLIC CONFERENCE / MEETING
- 33. LEVEL 2 ENTRY
- 34. KINETIC TRACK
- 35. OUTDOOR PLAZA
- 36. ROOFTOP MAINTENANCE WALKWAY
- 37. EXISTING BIKE PATH - CEDAR LAKE TRAIL
- 38. NICE-RIDE BIKE SHARE STATION
- 39. EXISTING PEDESTRIAN BICYCLE BRIDGE
- 40. BIKE RACK

- CHILLER
- BOILER
- VERTICAL DUCT SHAFT
- ELECTRICAL
- AIR HANDLER
- WATER COLLECTION
- OPEN TO BELOW
- VERTICAL CIRCULATION
- GRASS
- PAVEGEN™ KINETIC FLOOR
- PV PANELS





PEOPLE & PLACE

Winter can be a hard time for many people who live in climates much like Minneapolis. During these cold dark months people struggle with day to day activities, become tired and lack motivation to do anything outside of the house. The Bassett Creek Pedal Club is a space for people to come and enjoy a fresh and comfortable environment while staying active and being around people. Centrally located, the Pedal Club provides easy access to freeways and bike trails. Close to neighborhoods, placed directly on top of the Cedar Lake Bike Path and only a mile from downtown, people from all parts of the metro will be able to experience the building.

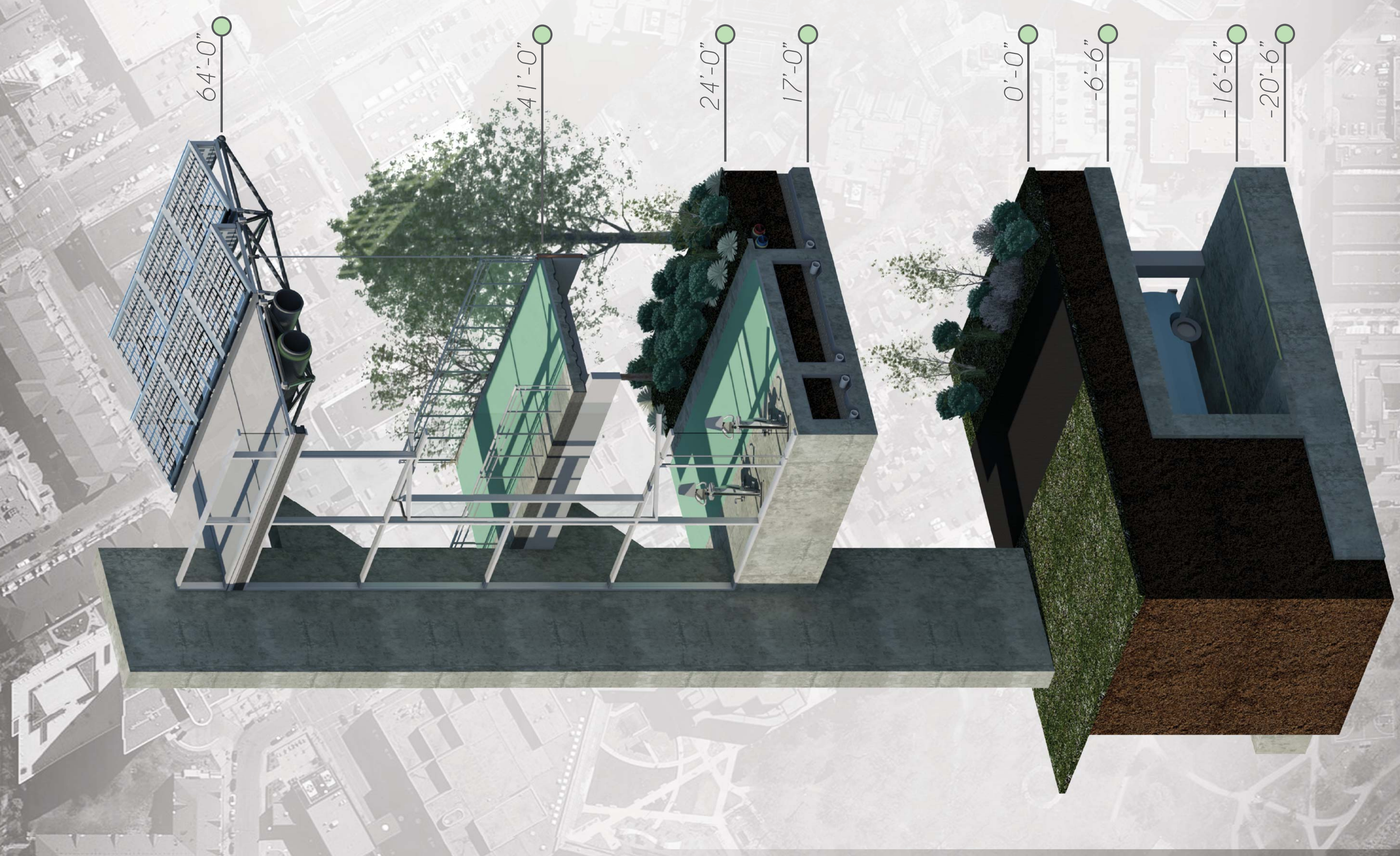
STRENGTH & BALANCE

In this moment, the bicycle relies on the cyclist to maintain stability. Using the strength of the cyclist and the movement, the bicycle itself provides balance and creates harmony.



POWER & WEIGHT

The frame of the bicycle is lightweight and is able to withstand an enormous amount of pressure. The compression that is produced by the load is evenly distributed throughout the frame of the bicycle and is dispersed to the ground.



**PV GLAZING-PADDING**  
 - PLACED AT FOOT OF EACH PV GLAZING PANEL  
 - USED FOR MAINTAINING CLEARANCE  
 - FLASHING WEARS UP AND UNDERNEATH  
 - PV GLAZING PANELS

**WATER COLLECTION**  
 - PLACED AT FOOT OF EACH PV GLAZING PANEL  
 - USED FOR MAINTAINING CLEARANCE  
 - FLASHING WEARS UP AND UNDERNEATH  
 - PV GLAZING PANELS

**CONCRETE TOWERS**  
 - 2'-0" DEPTH  
 - 12'-0" LENGTH  
 - 50'-6" DEPTH  
 - FOOTING: 8'-0" DEPTH  
 - 20'-0" DEPTH  
 - 4'-0" LENGTH

**CURTAIN WALL SUPPORT**  
 - SPACE FRAME- RESTING PAD

**ROOFTOP- MAINTENANCE WALKWAY**  
 - PANELS CAN BE REMOVED AND EXCHANGED  
 - EASILY ACCESS HVAC DUCTS  
 - MAINTAIN AND SERVICE EXTERIOR BUILDING ENVELOPE

**SUPPLY AIR**  
**RETURN AIR**

**PV GLAZING PANELS (EXTERIOR)**  
 - ANGLE: 32.3% (MINNEAPOLIS)  
 - POSSIBILITY FOR 44.7% EFFICIENCY

**PV GLAZING PANELS (INTERIOR)**  
 - ALLOWS LIGHT TO TRANSFER  
 - MAXIMIZE VEGETATION ACCESS TO LIGHT

**OPERABLE WINDOW LOUVER**  
 - NATURAL VENTILATION FOR WARM WEATHER

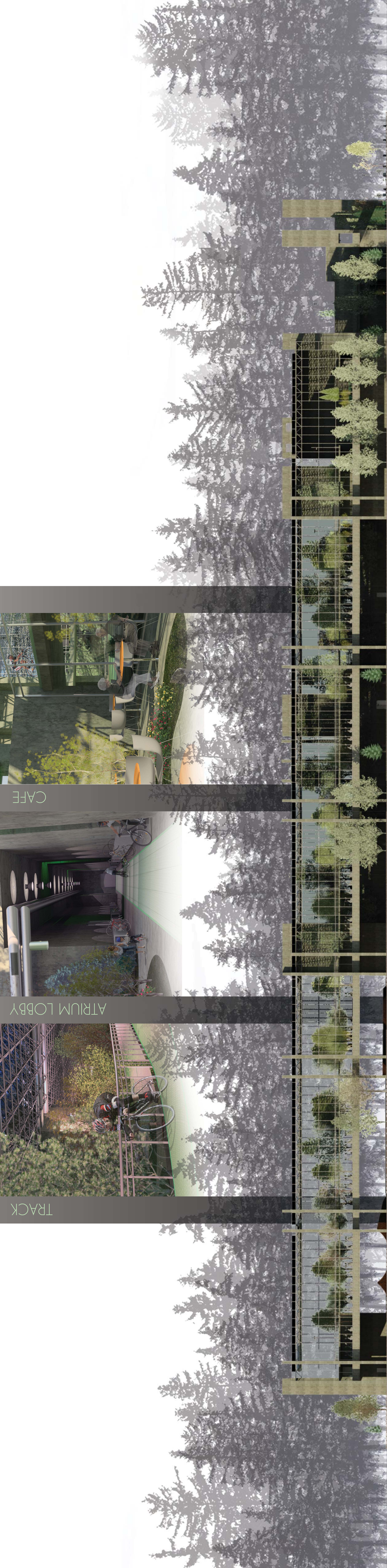
**LIGHTWEIGHT CONCRETE ON METAL DECK**  
**BOX FRAME TRACK SUPPORT**

**SUSPENSION CABLE**  
**PAVEGEN™ FLOORING SYSTEM**  
**SUSPENSION CABLE**  
 - SUPPORTS BOX FRAME  
 - SPACE FRAME CONNECTION

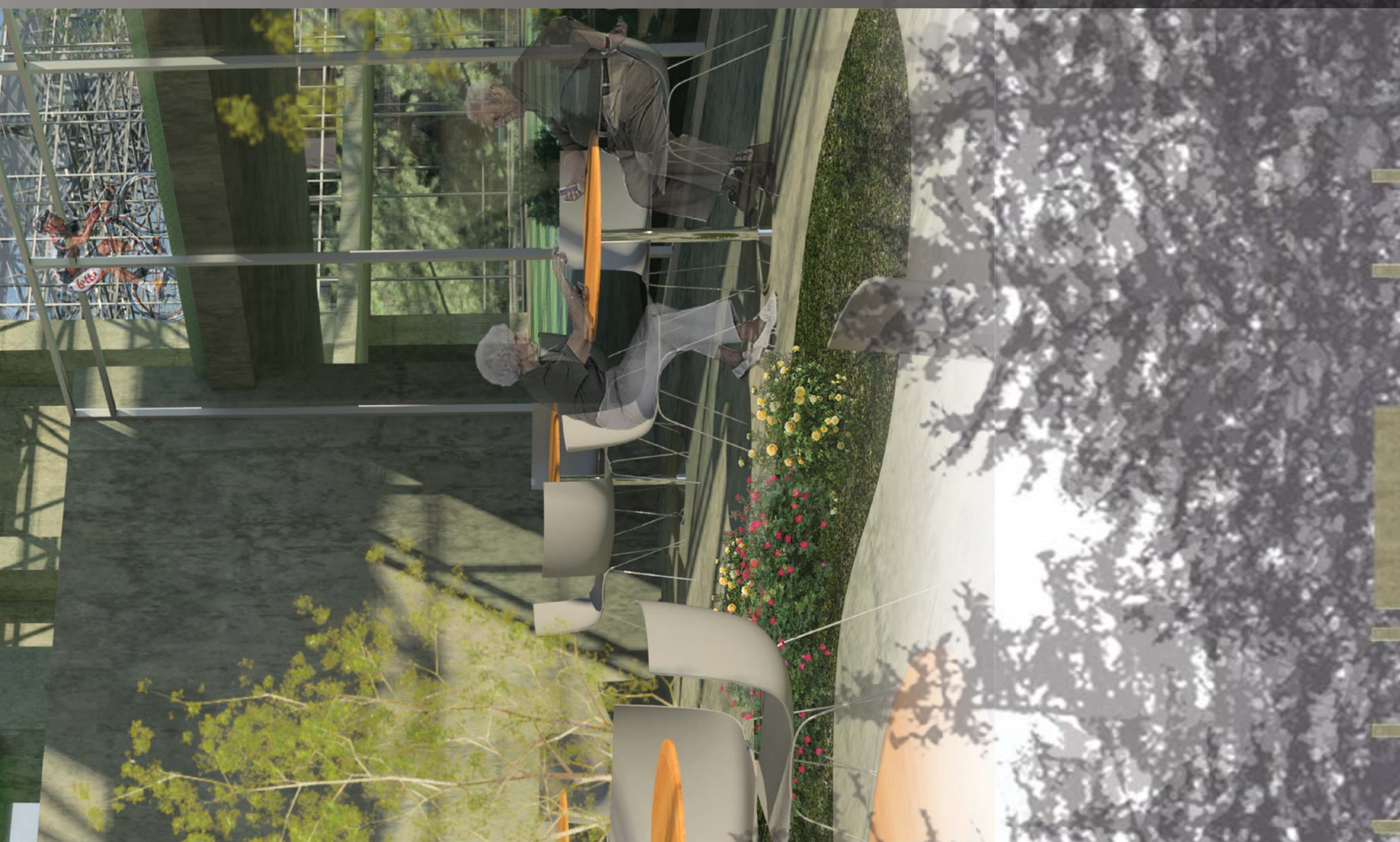
**KINETIC STATIONARY BIKES**  
**PAVEGEN™ FLOORING SYSTEM**

**SOIL SYSTEM**  
 - ROOT STRUCTURE AND DIRT  
 - DRAINAGE PIPES  
 - GRAVEL  
 - WATERPROOF MEMBRANE

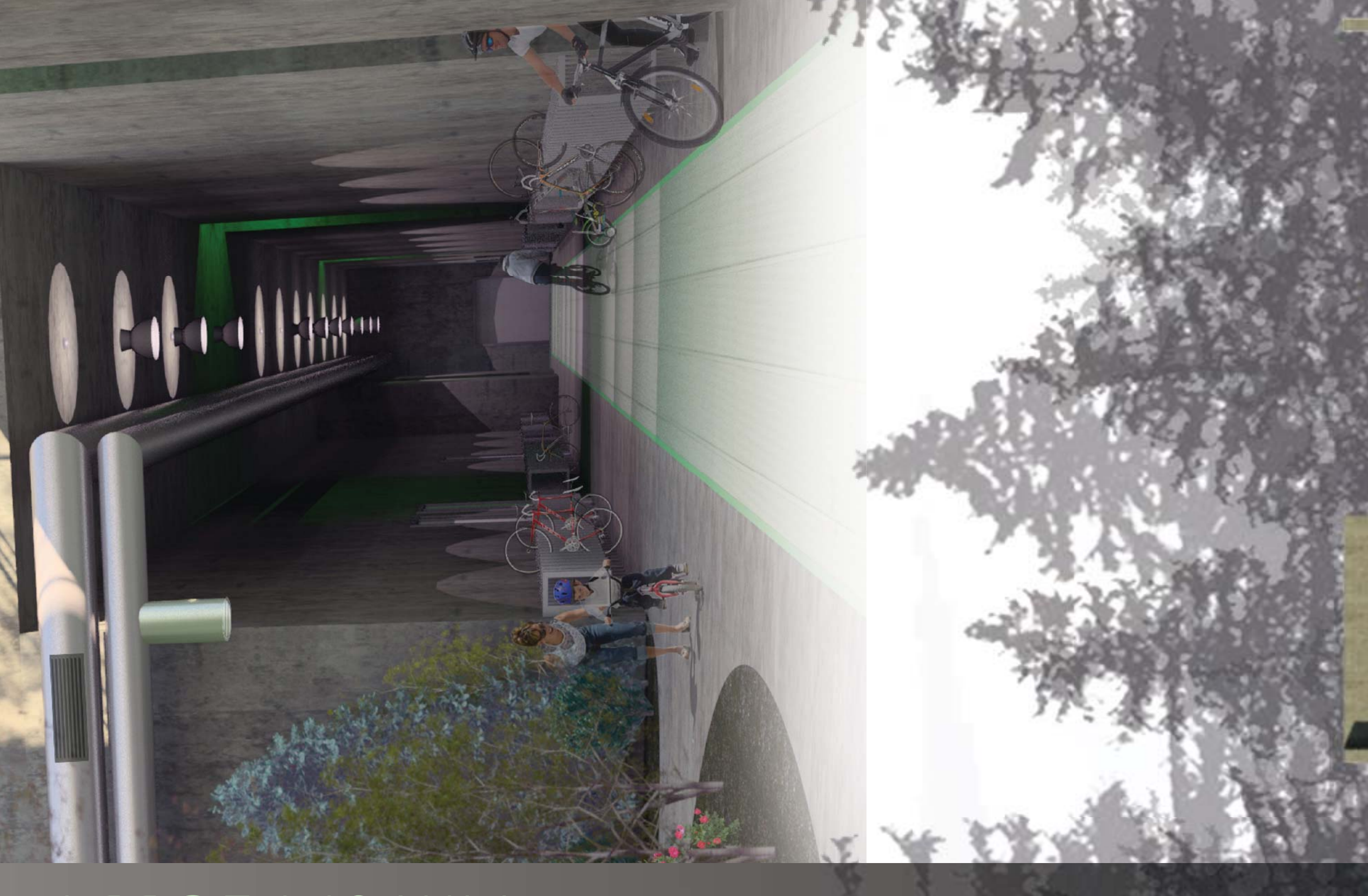
**HOT & COLD WATER SUPPLY**  
**5'-0" DEPTH SOIL**



SOUTH ELEVATION



CAFE



ATRIUM LOBBY



TRACK