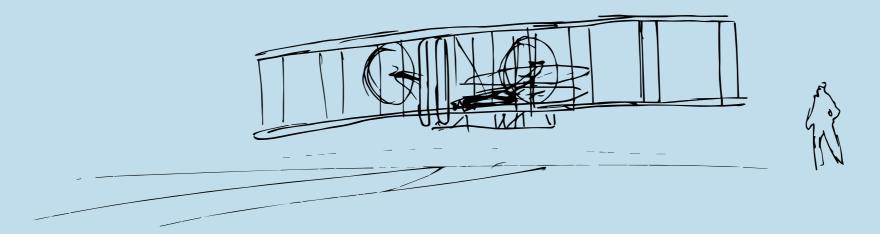
aeronautical destinations

Can an airport serve not only as a means of travel, but as a destination itself?

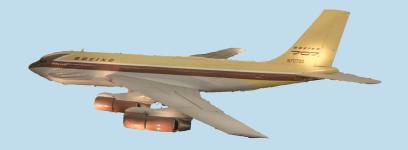
A brief bit of history of aviation and airports

First Flight in 1903 at Kitty Hawk, NC.



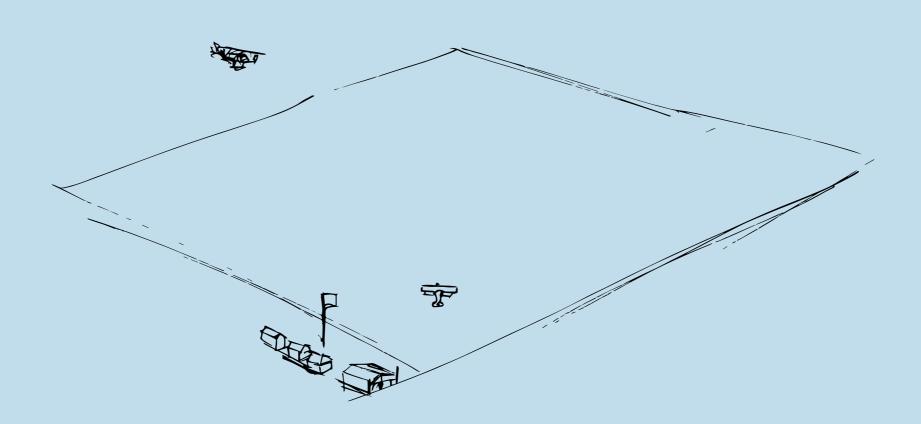
Air travel took off (ba dum tsss) after World War I.

After World War II, the Jet Age came about with the advent of the De Havilland DH5 Comet, Boeing 707, and Douglas DC-8.



Boeing 707 protoype airframe, "Dash 80"

The airport as it is known today is an evolution. From the first airports that were a large open field so aircraft could take off from any direction.



Eventually, this wouldn't work as loads became heavier and aircaft required a dedicated path, first seen at the Ford Dearborn Field.

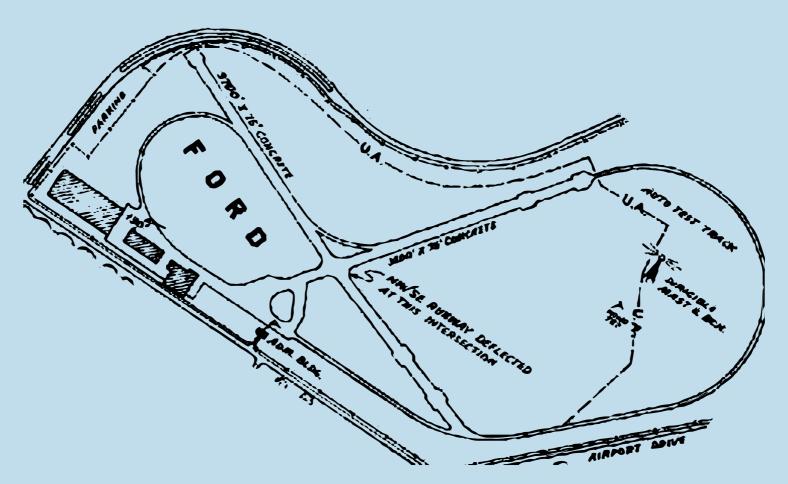
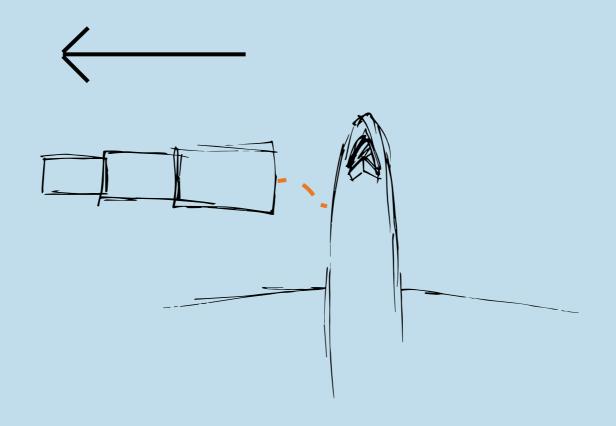


image courtesy of http://www.airfields-freeman.com/

Boeing's Burbank Field was the first to feature a covered path to the aircraft, something that would be hard to live without in this area.



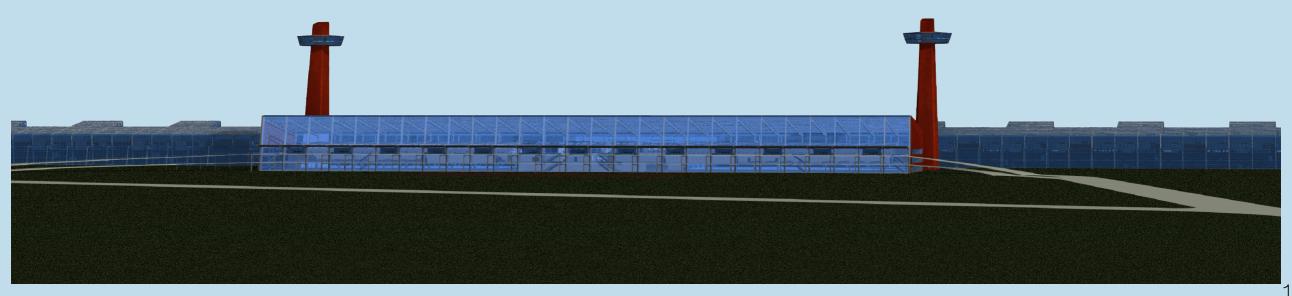
This and the advent of "superairports" in the 1960's allowed airports to handle much more aircraft.

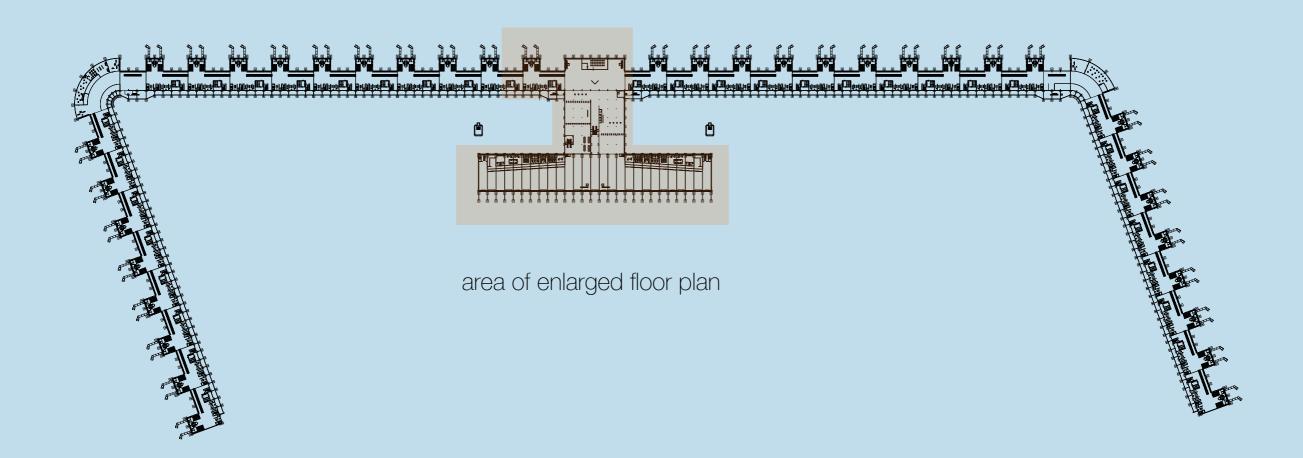


Minneapolis built their current airport in the 1960s. The Lindbergh Terminal has subsequently been expanded many times. The current terminal has five runways, 128 gates, and has an expansion plan to 2030. The current airport cannot expand anymore runways.

A new airport will have to be built.

movement



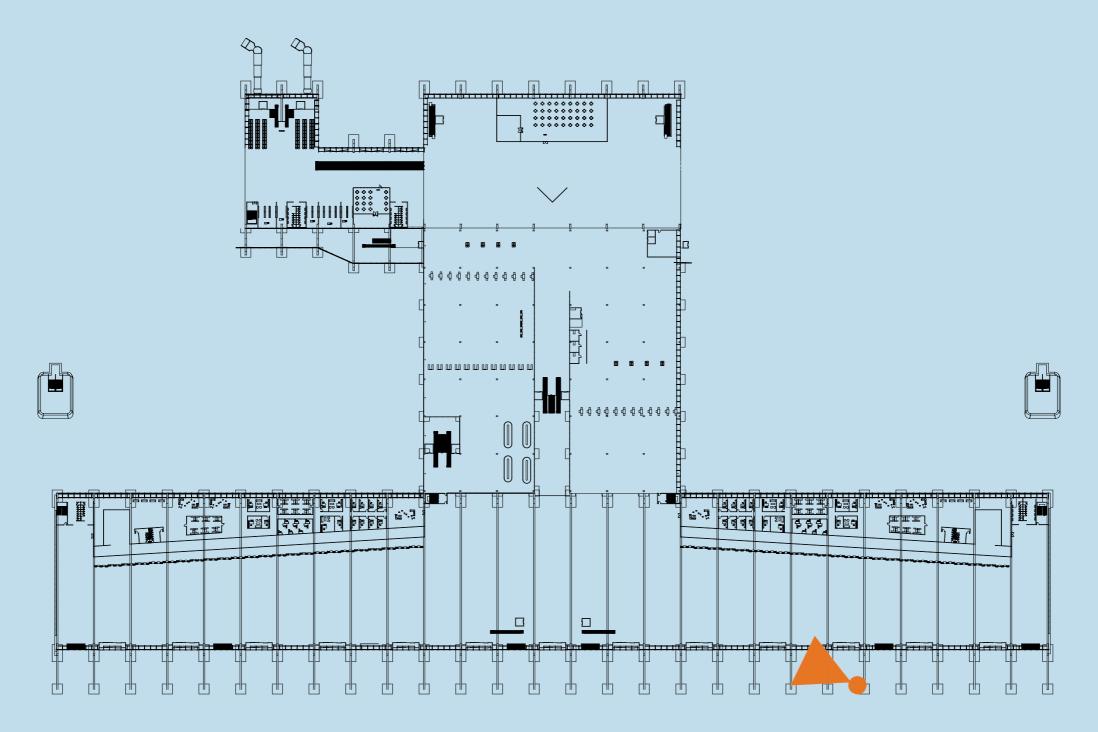




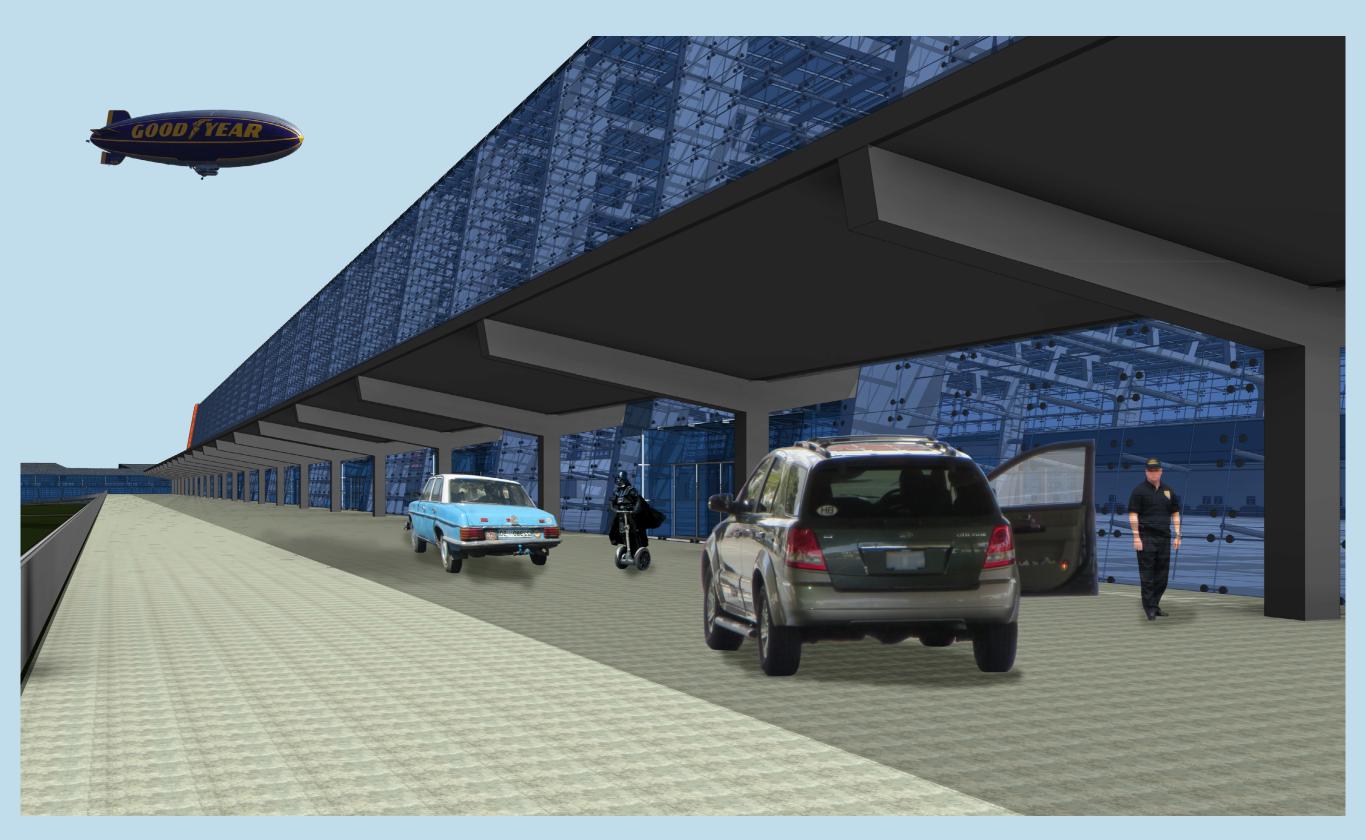
Approach to the terminal



Approach to the terminal

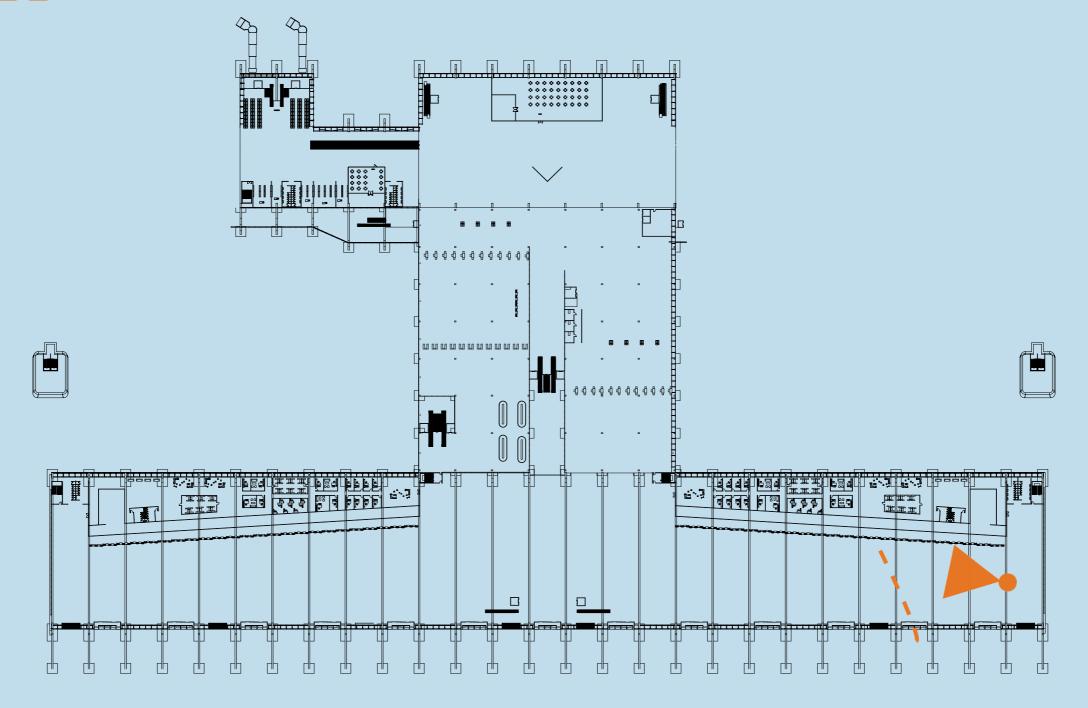


level 2 departures access

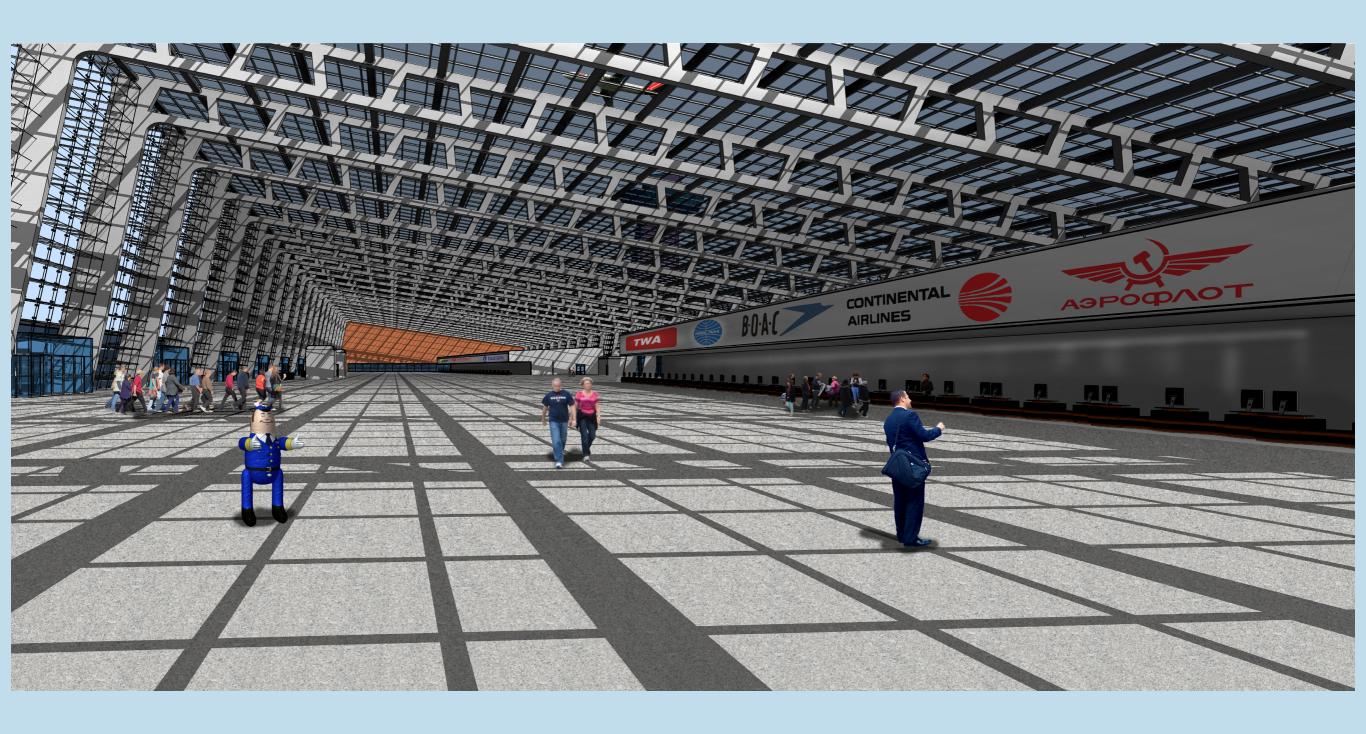


level 2 departures access

LEVEL 2

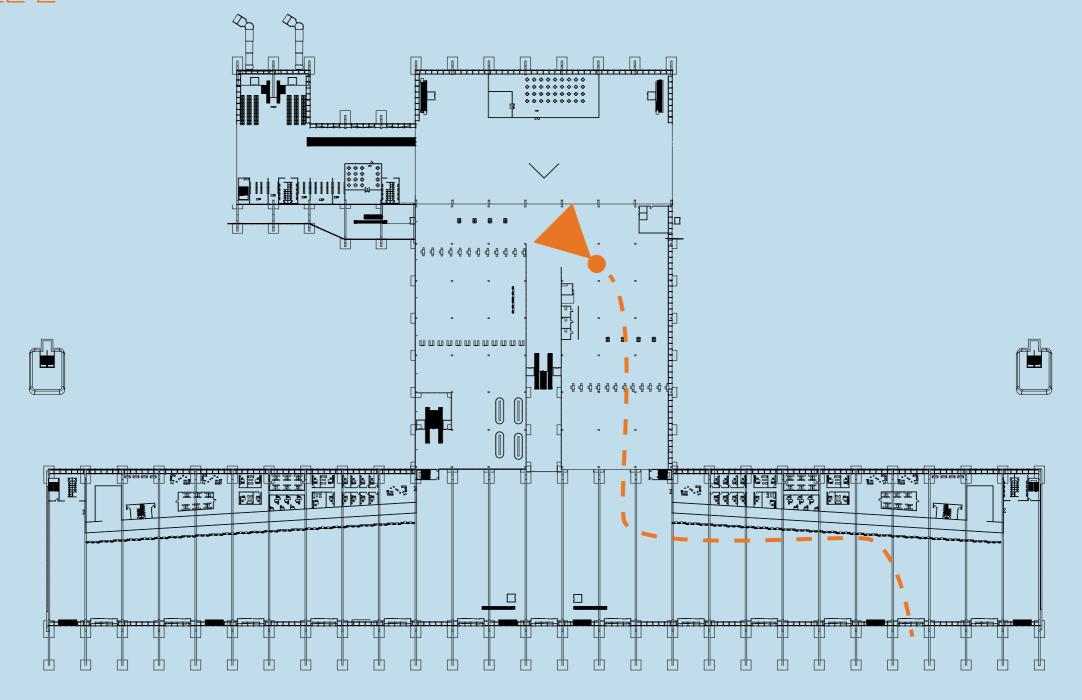


airport terminal interior 2nd floor

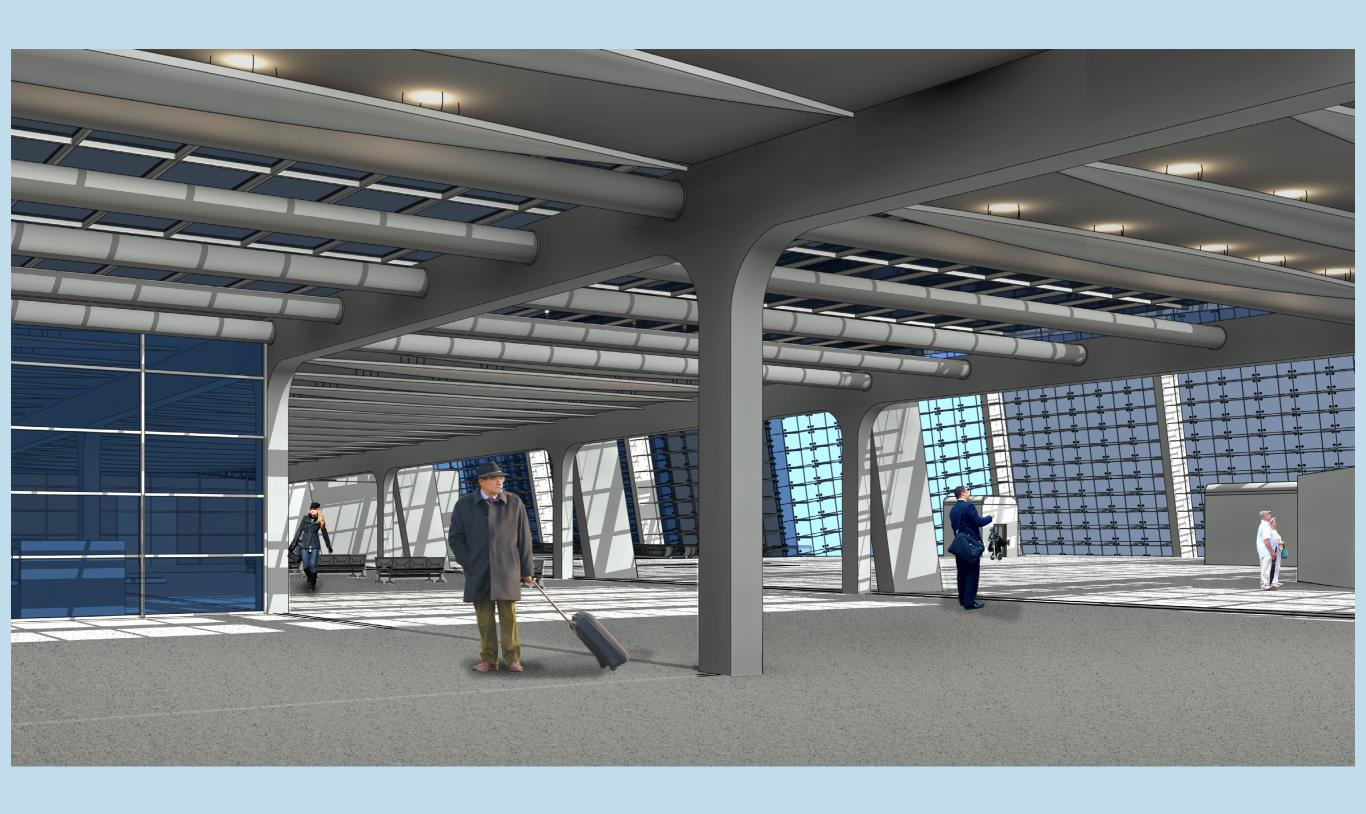


airport terminal interior 2nd floor

IFVFI 2

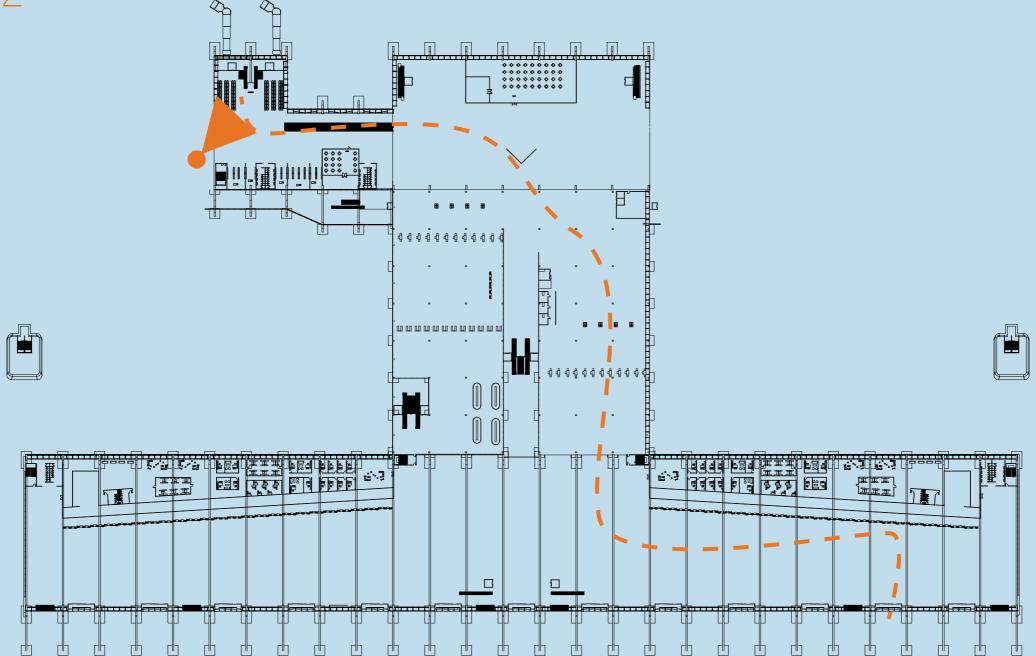


view to concourse from security

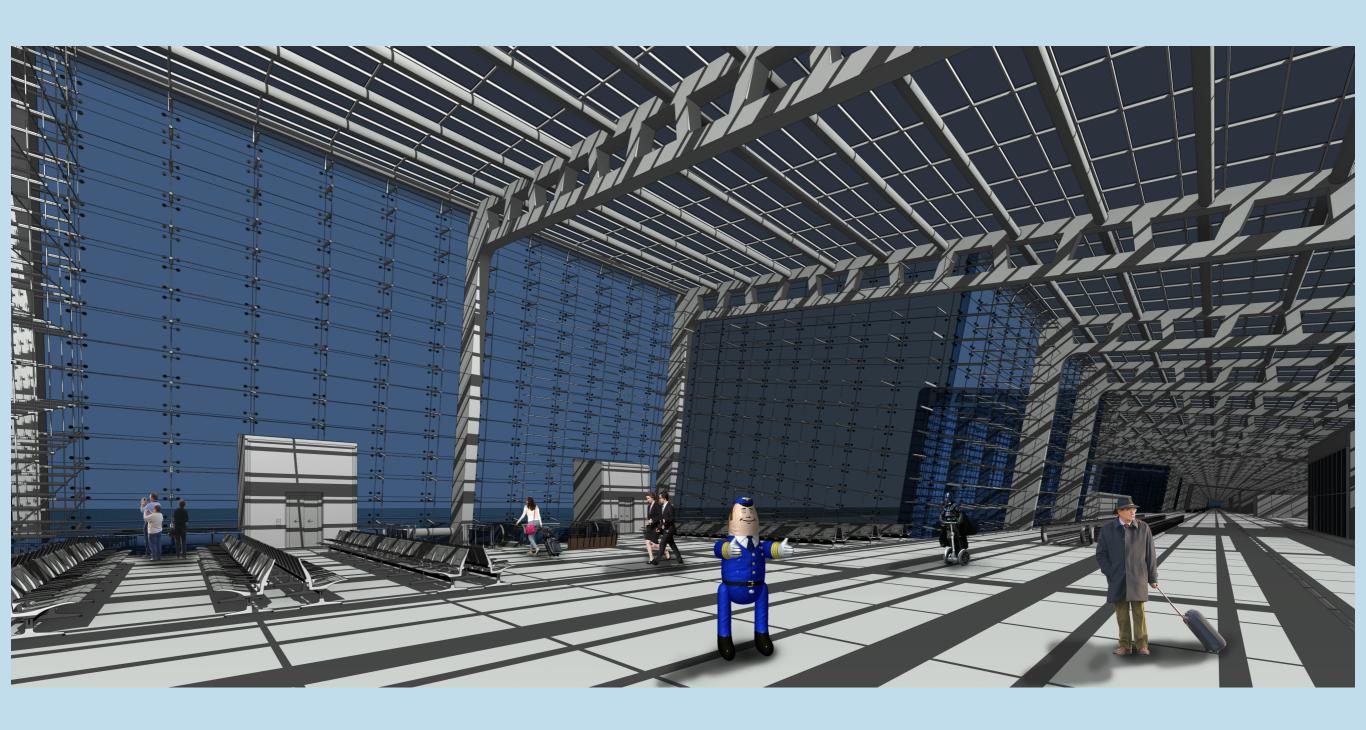


view to concourse from security

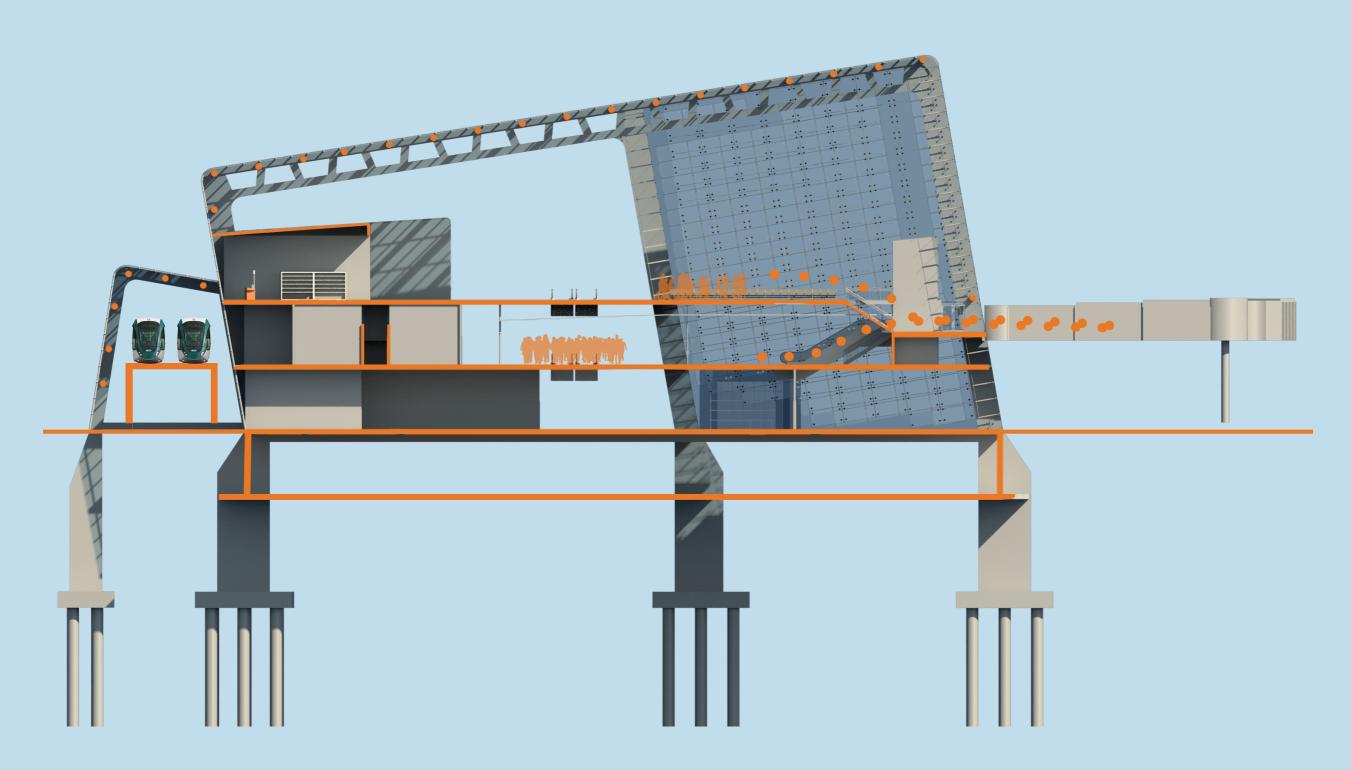
| F\/F| 2



view to gate from concourse

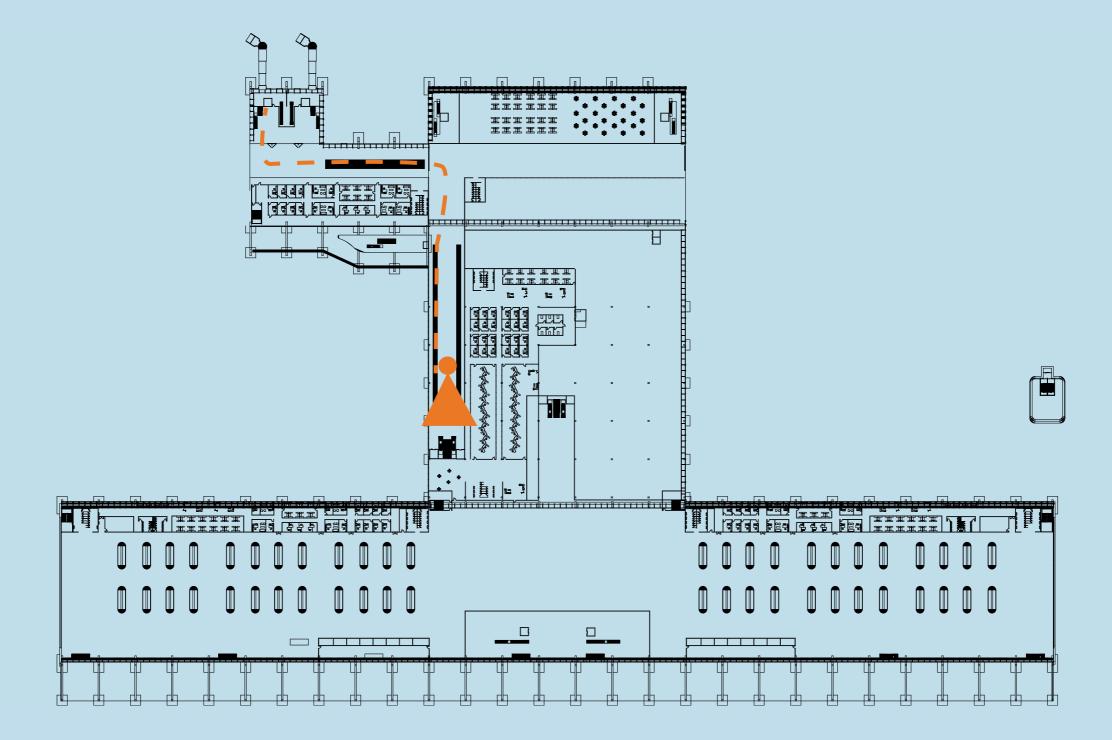


view to gate from concourse



concourse movement

LEVEL 1

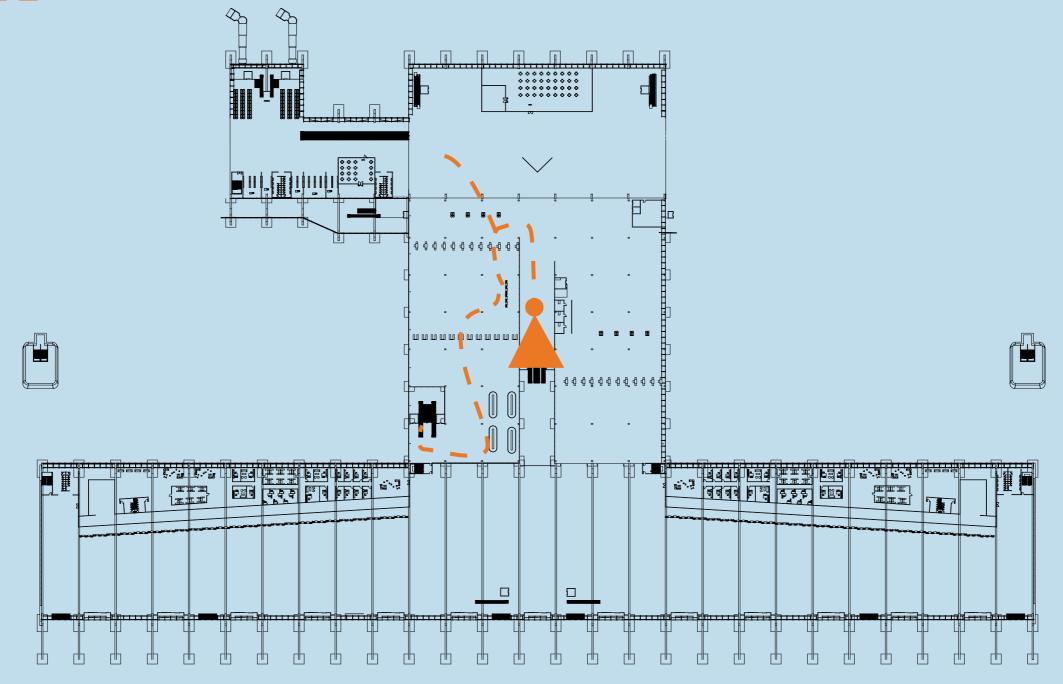


customs level transition

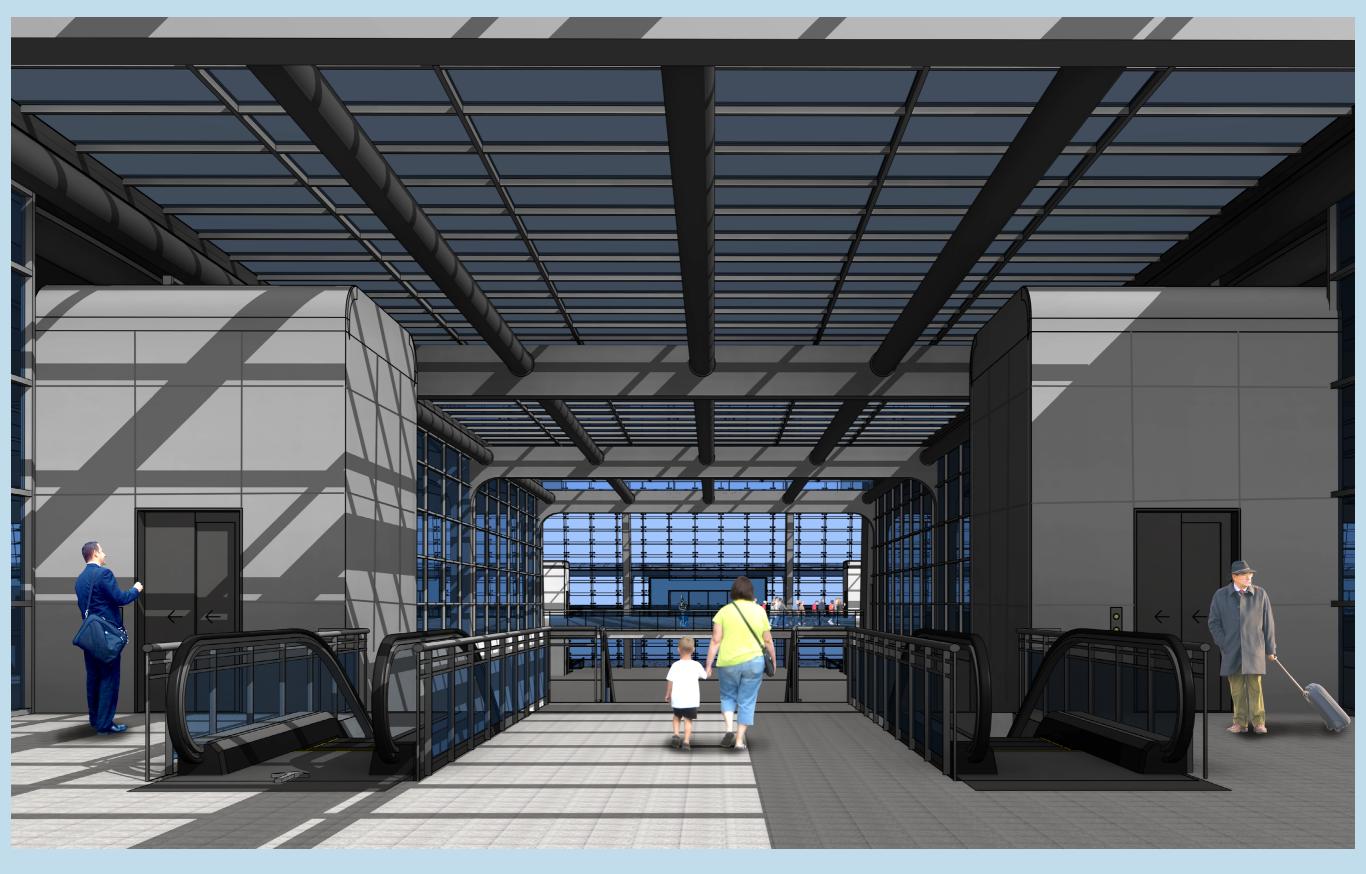


customs level transition

LEVEL 2

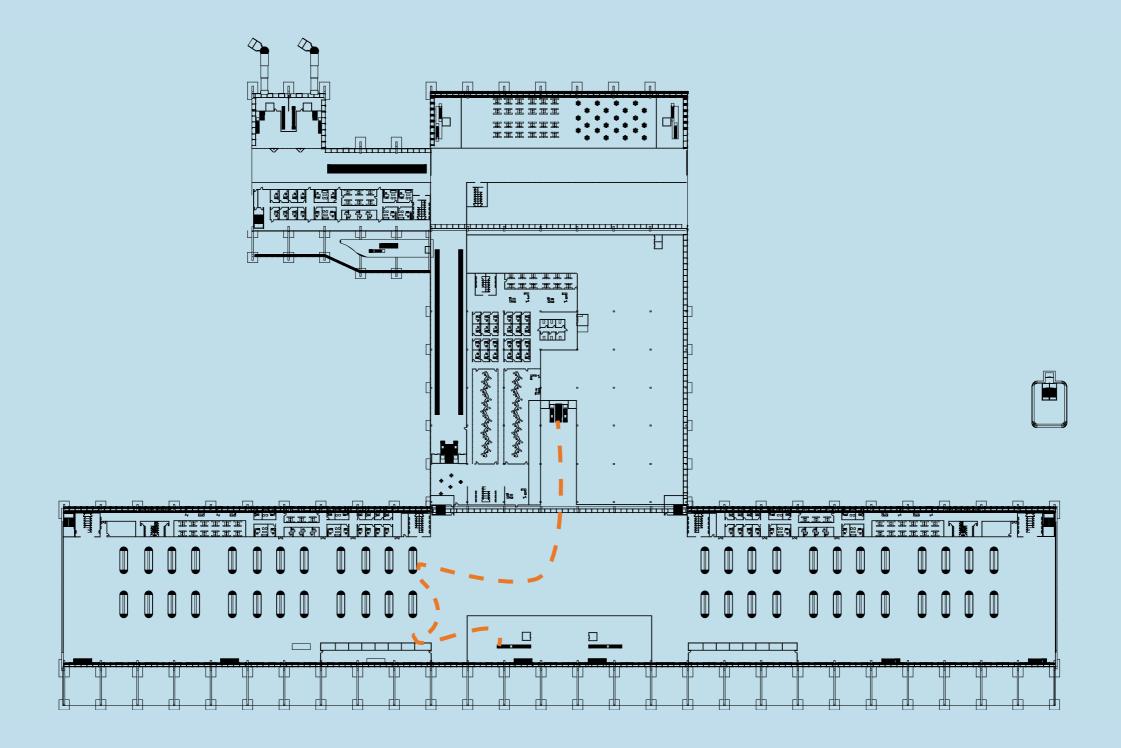


exit transition from level 2 to level 1

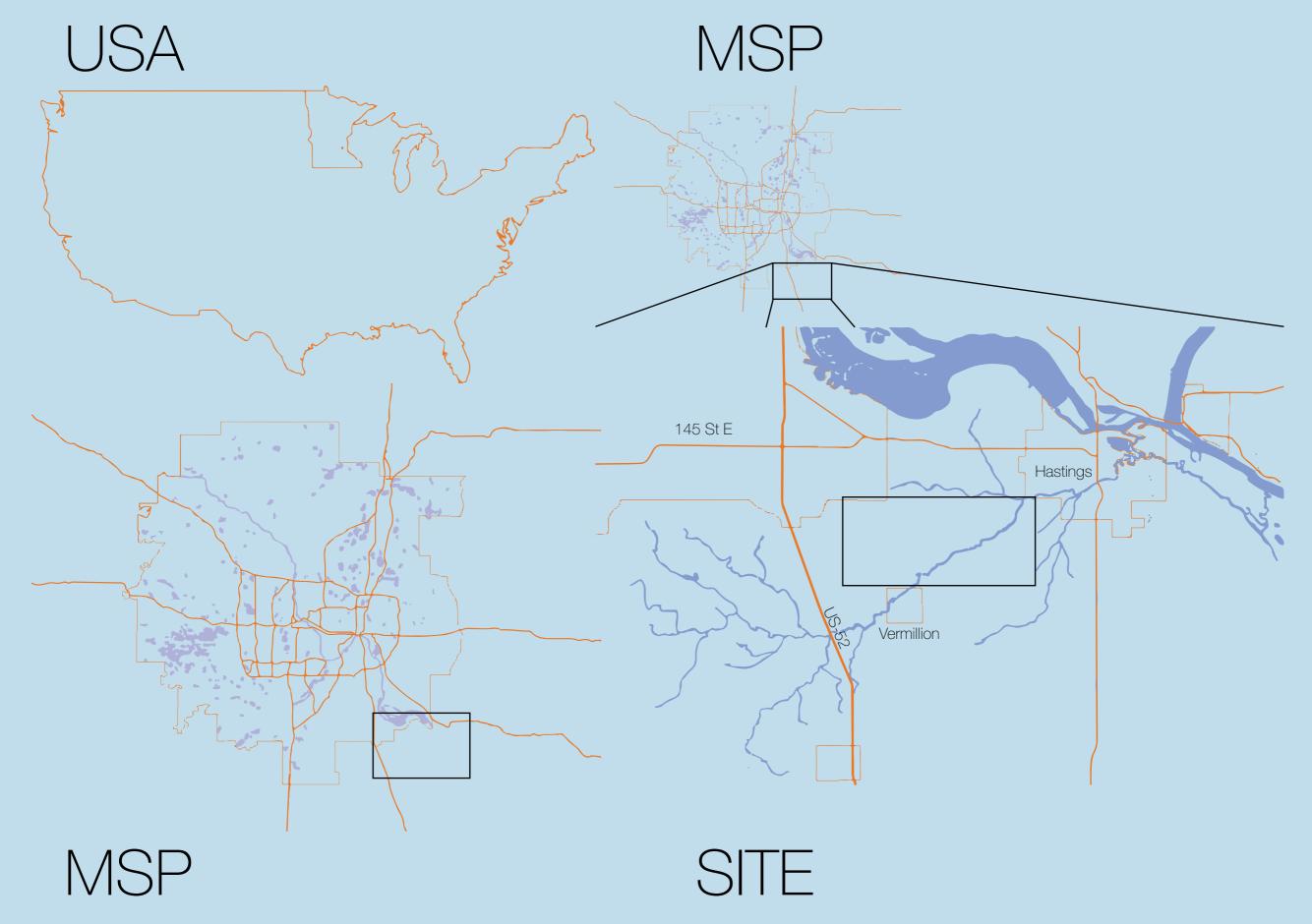


exit transition from level 2 to level 1

| FVF| 1



Site













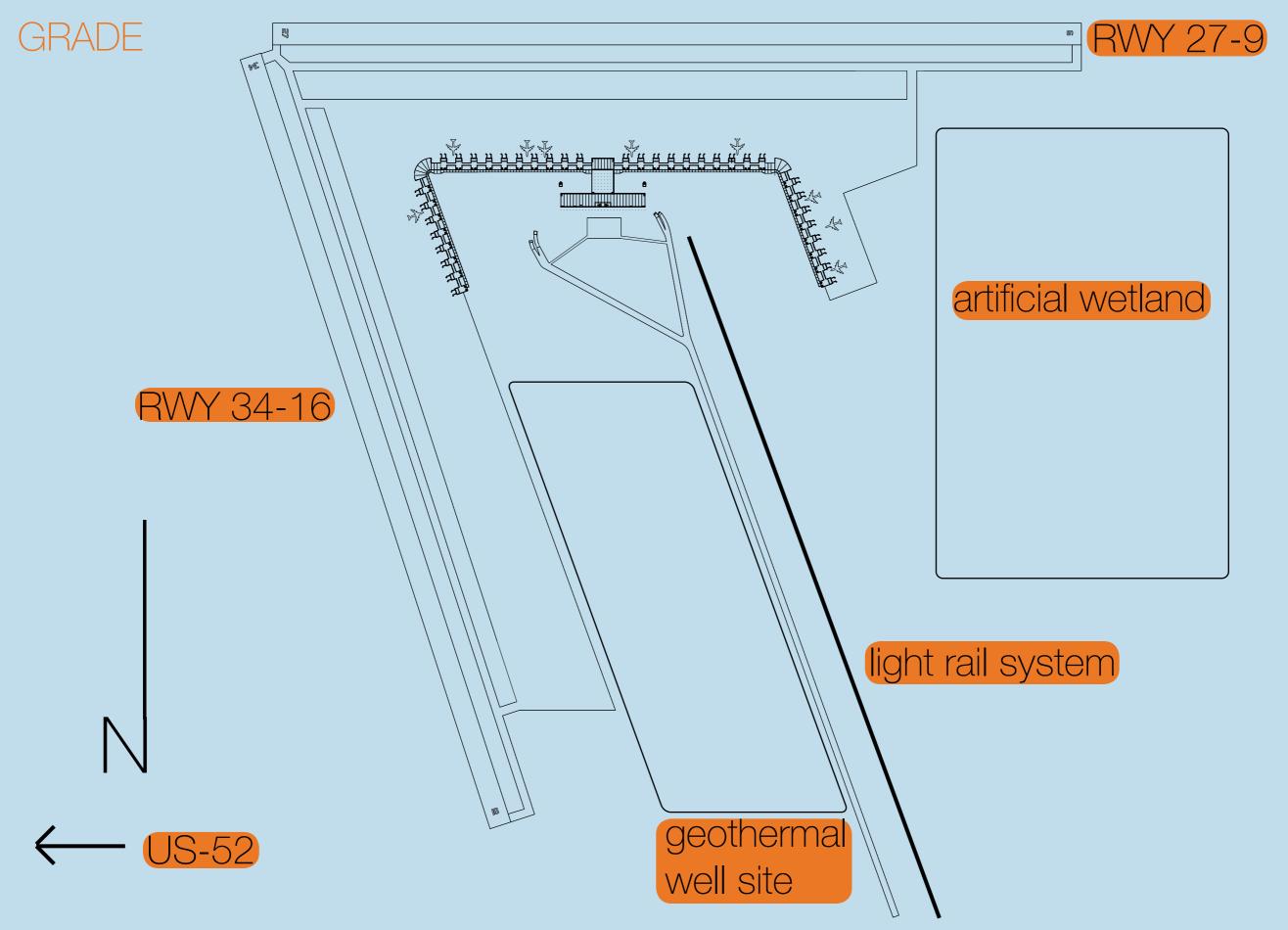




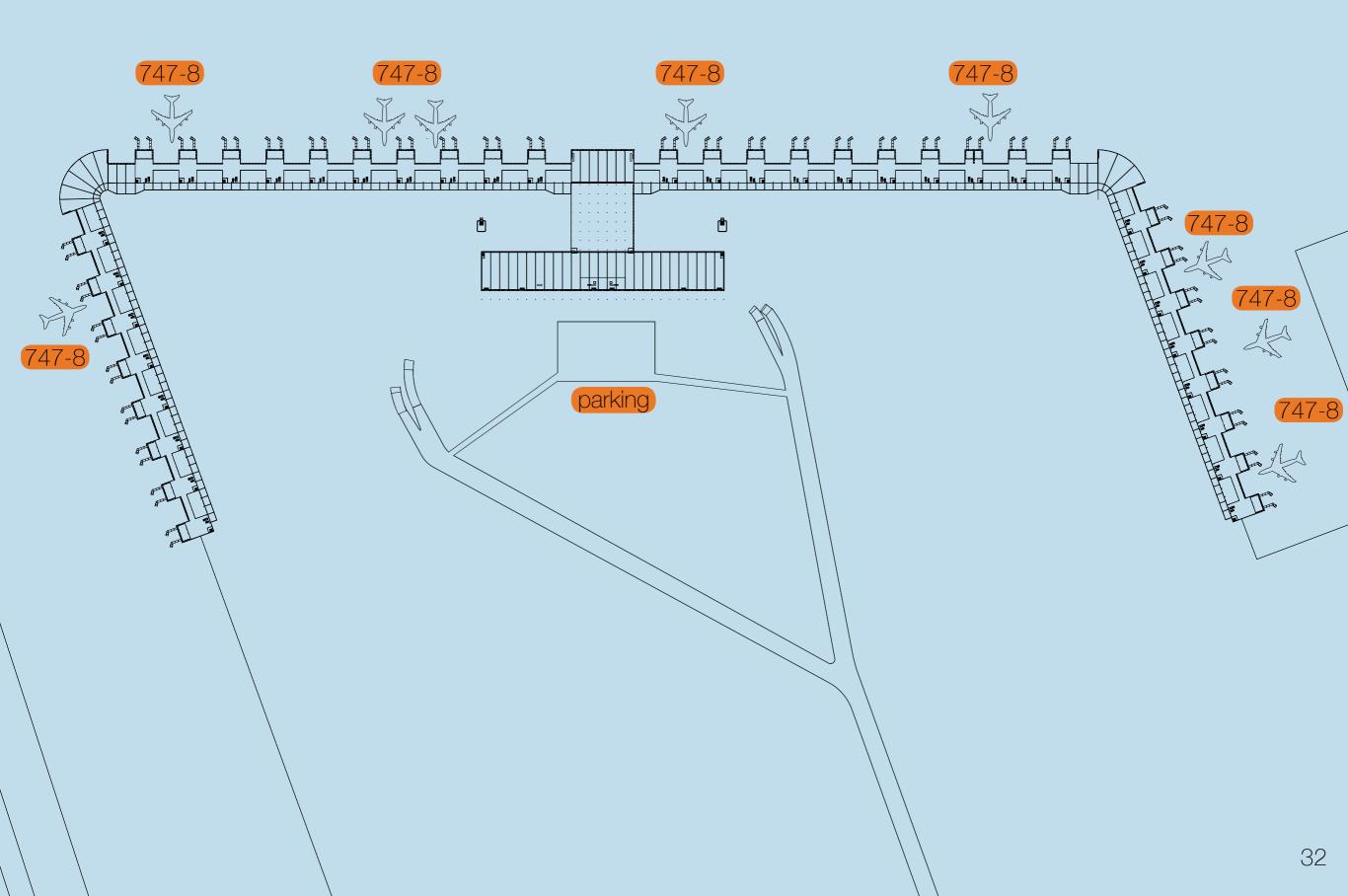




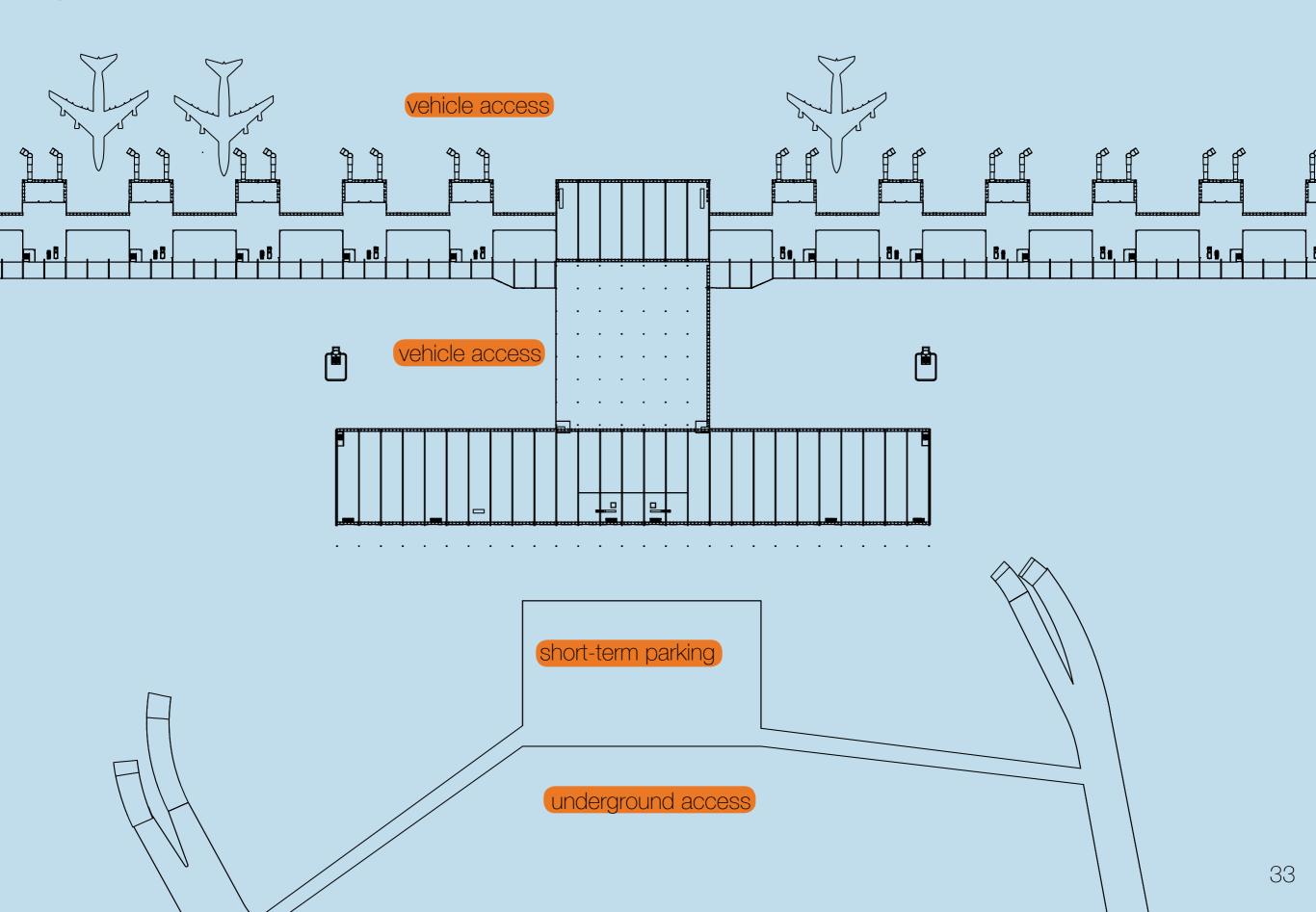
Dlans



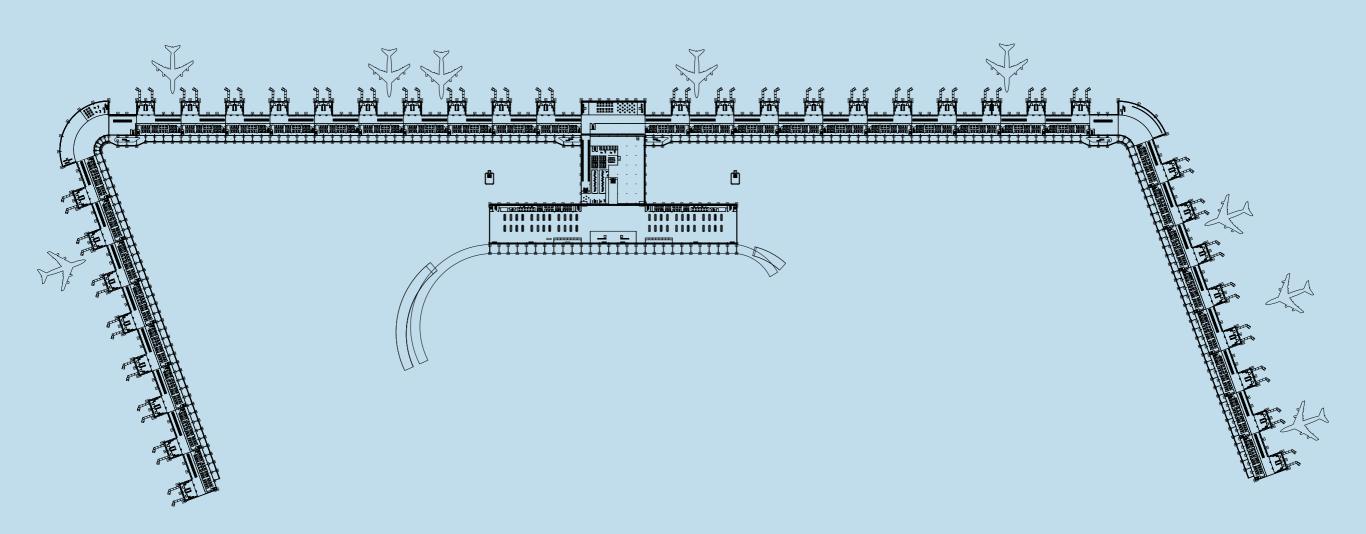
GRADE

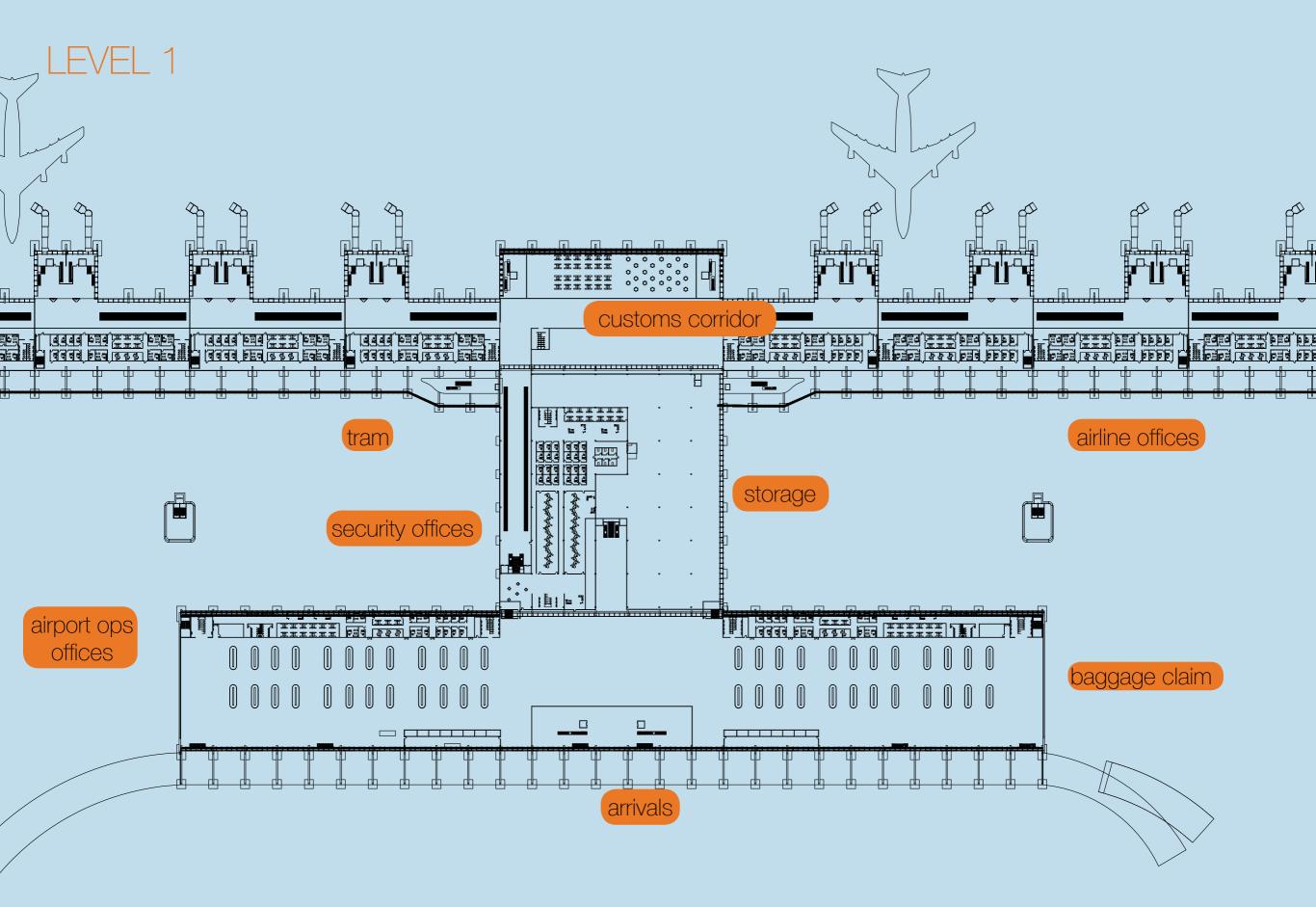


GRADE

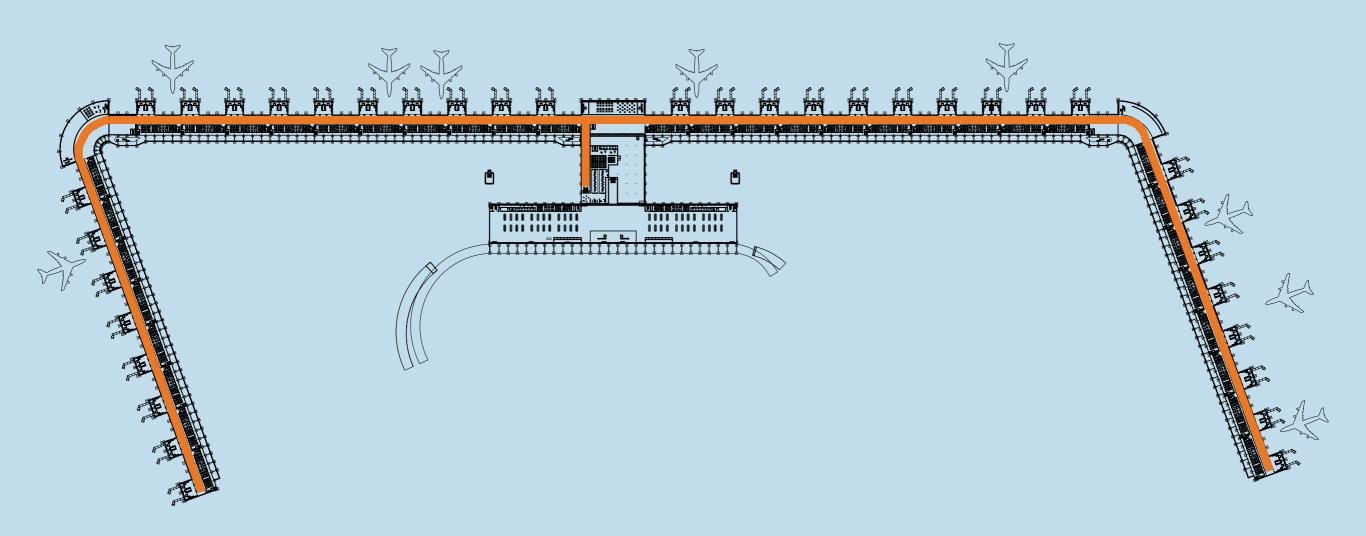


| F\/F| 1



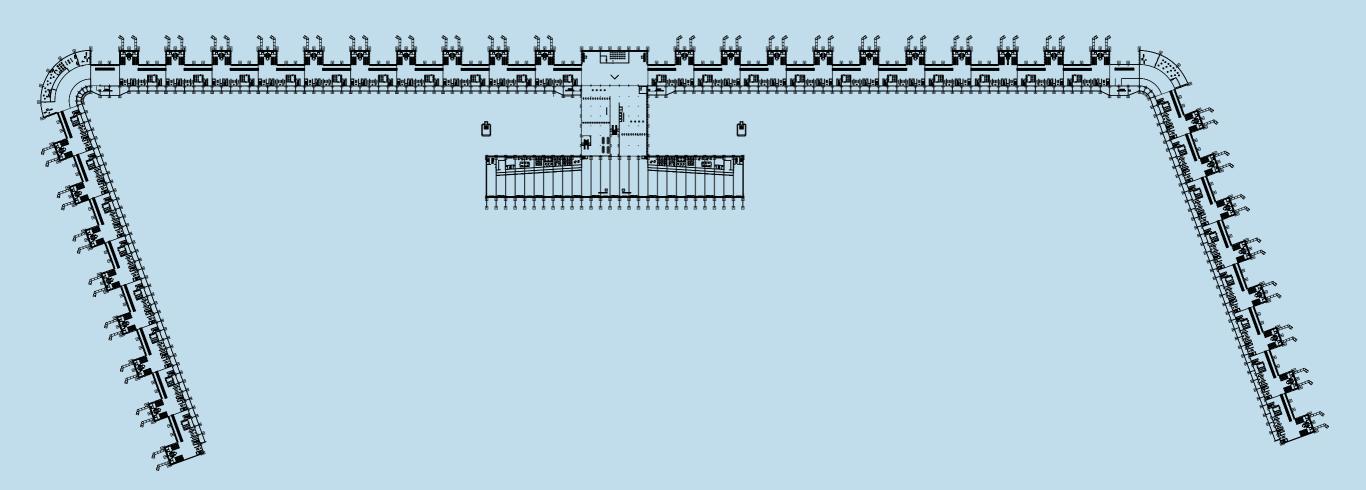


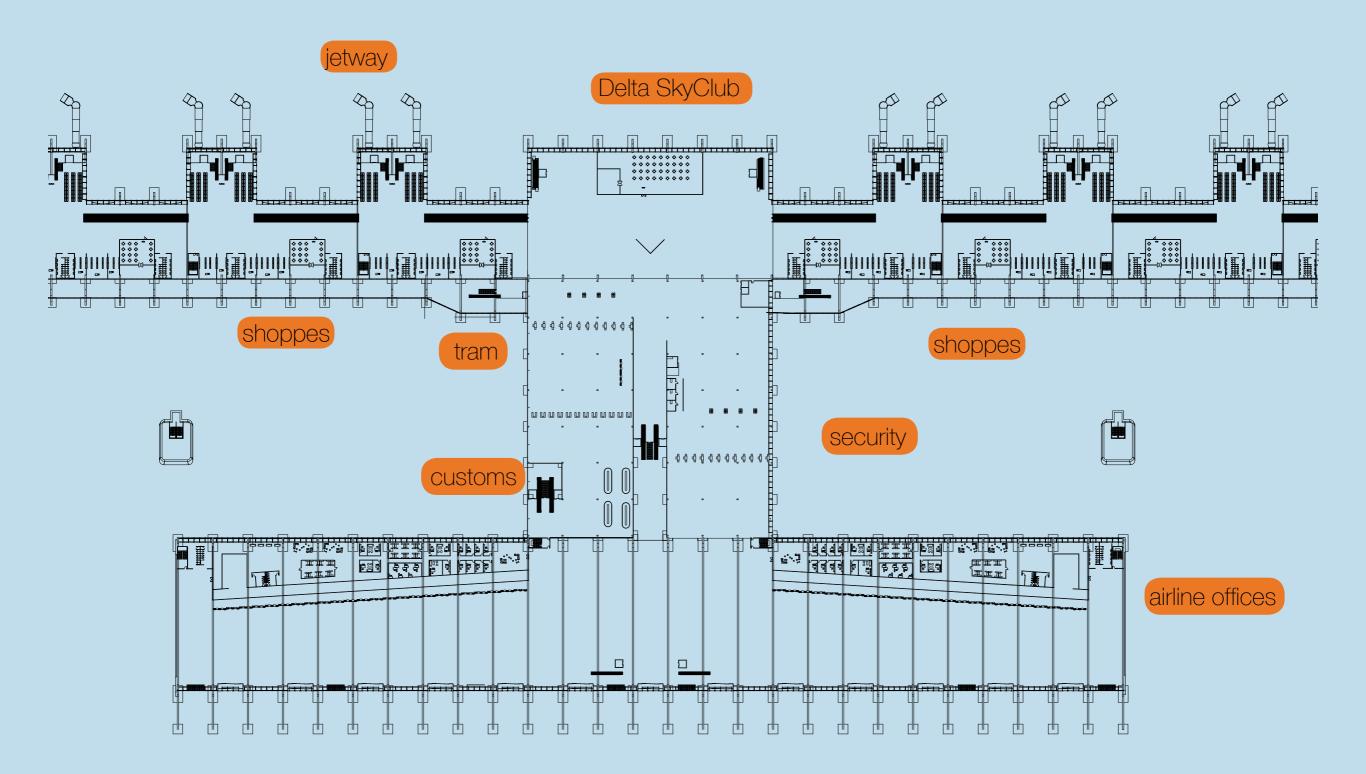
LEVEL 1



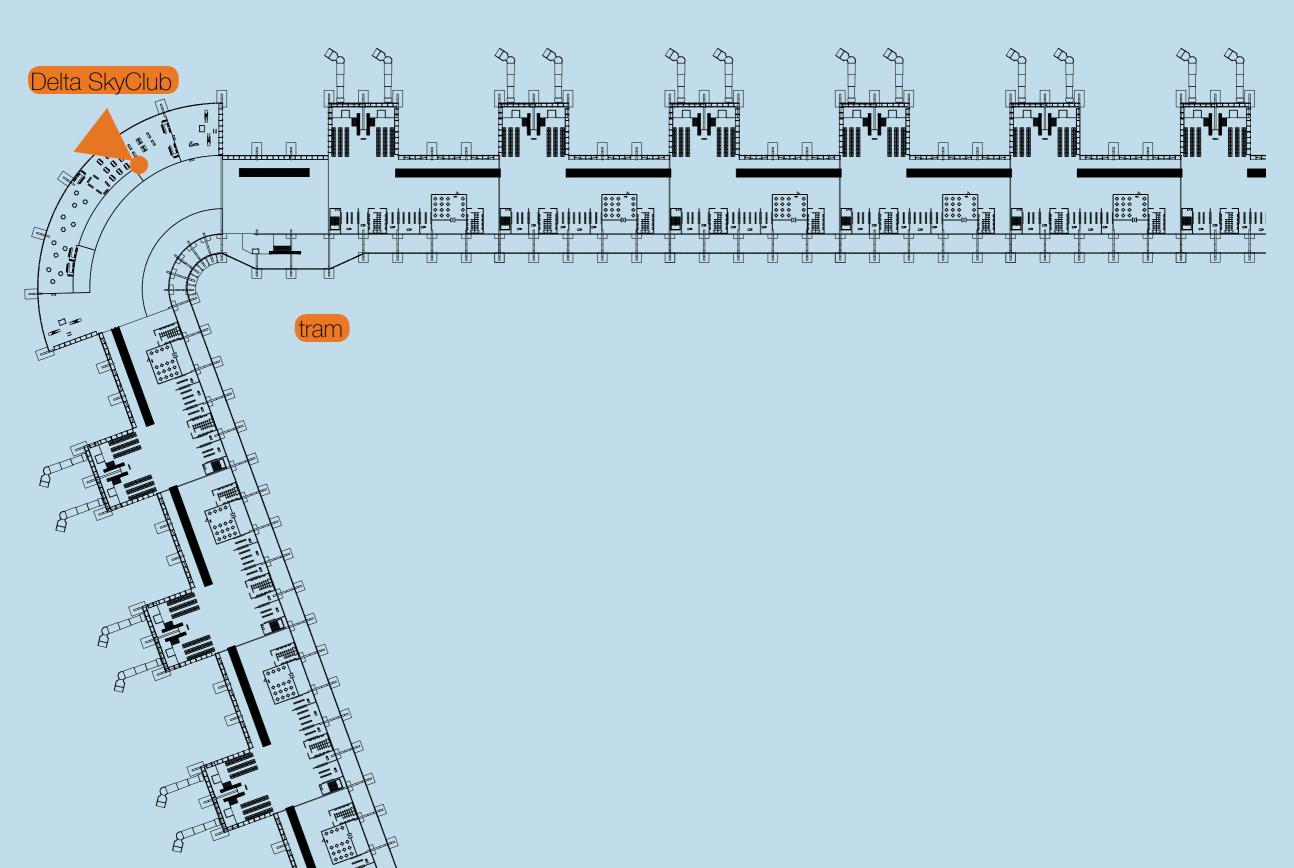
customs corridor in orange

IFVFI 2

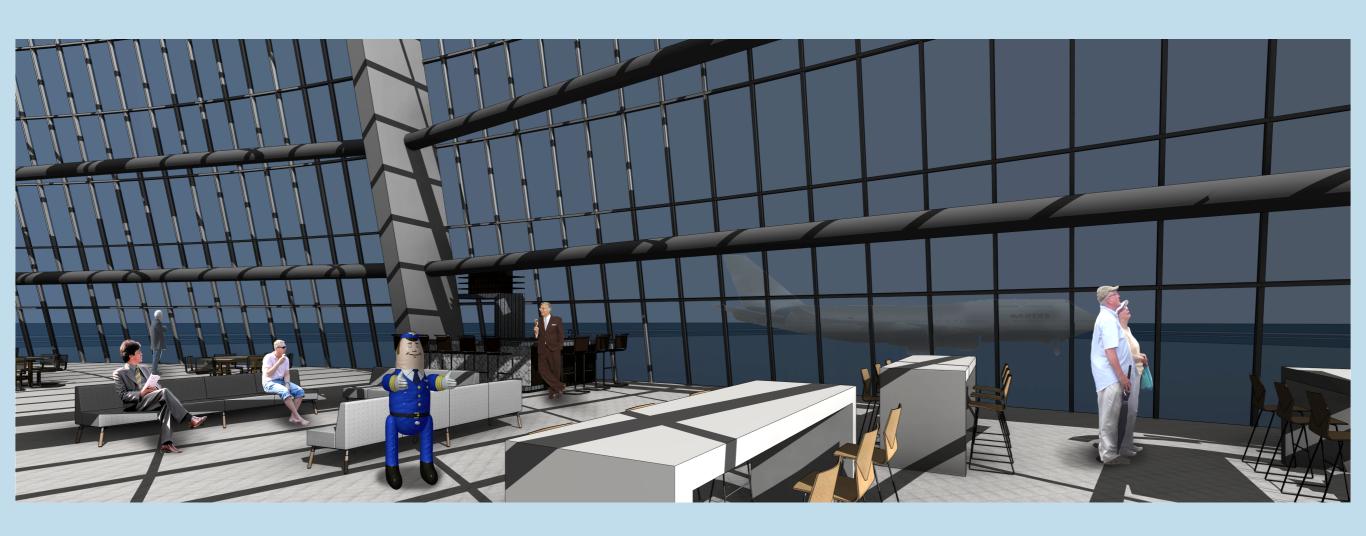




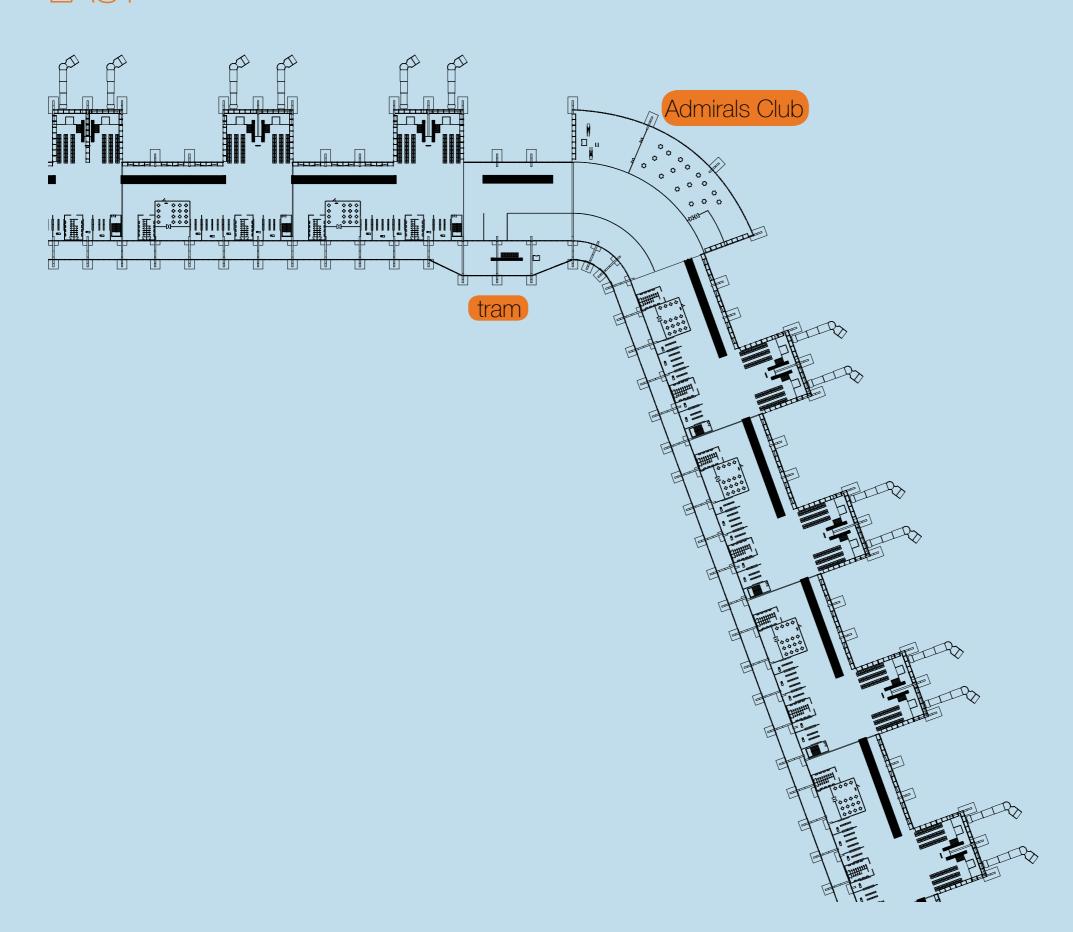
WEST



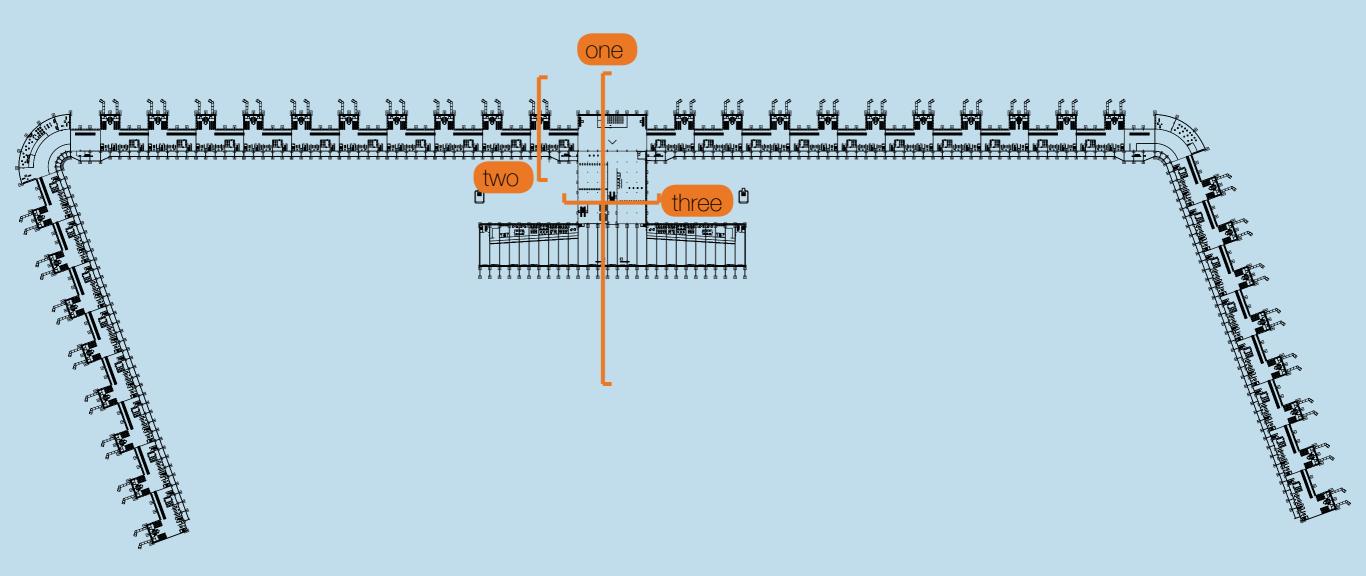
Delta SkyClub rendering



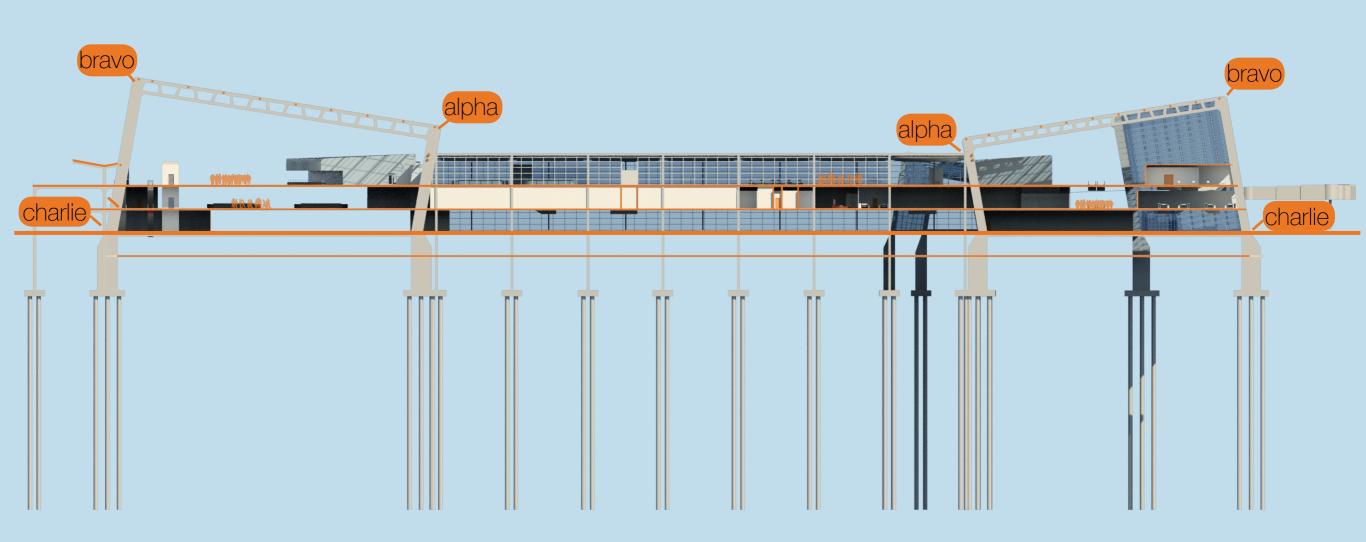
EAST



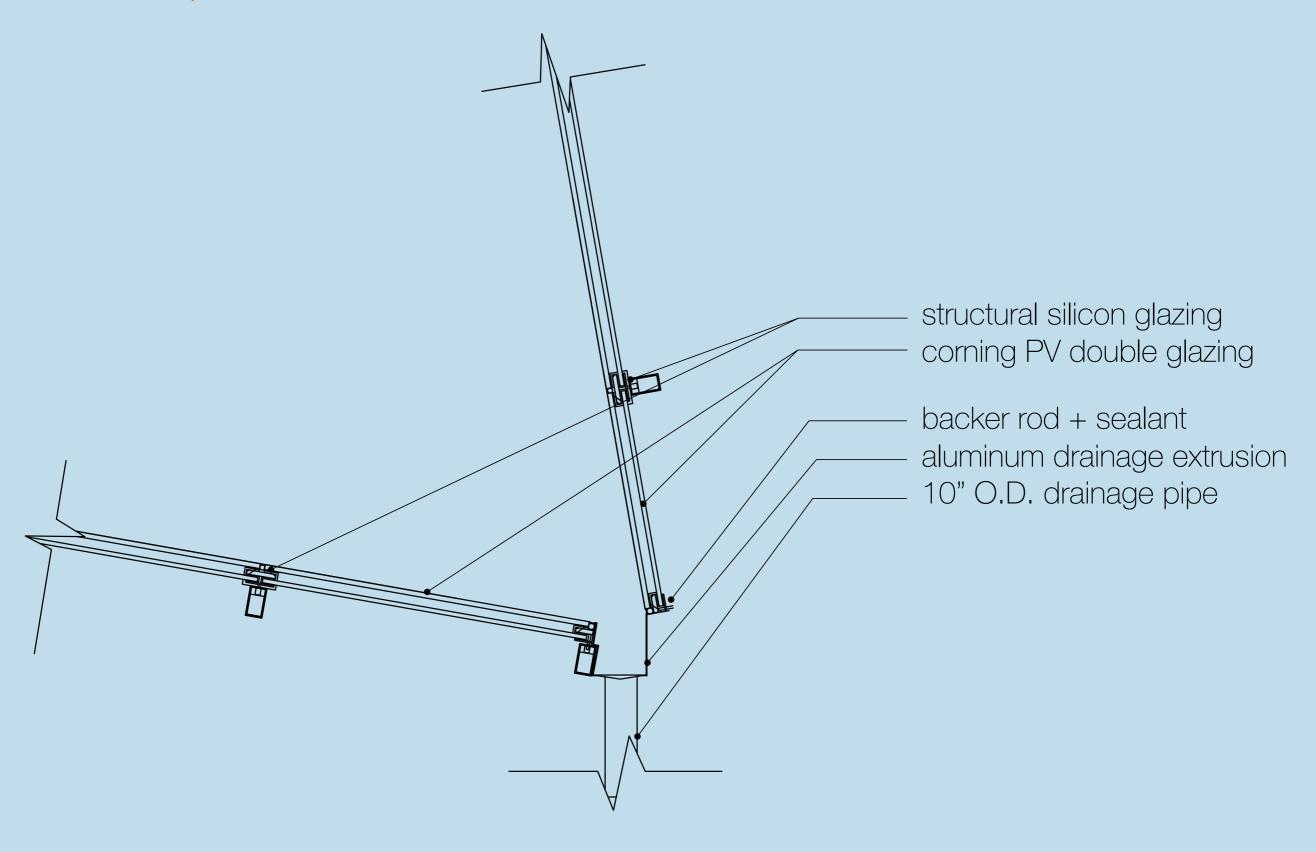
details



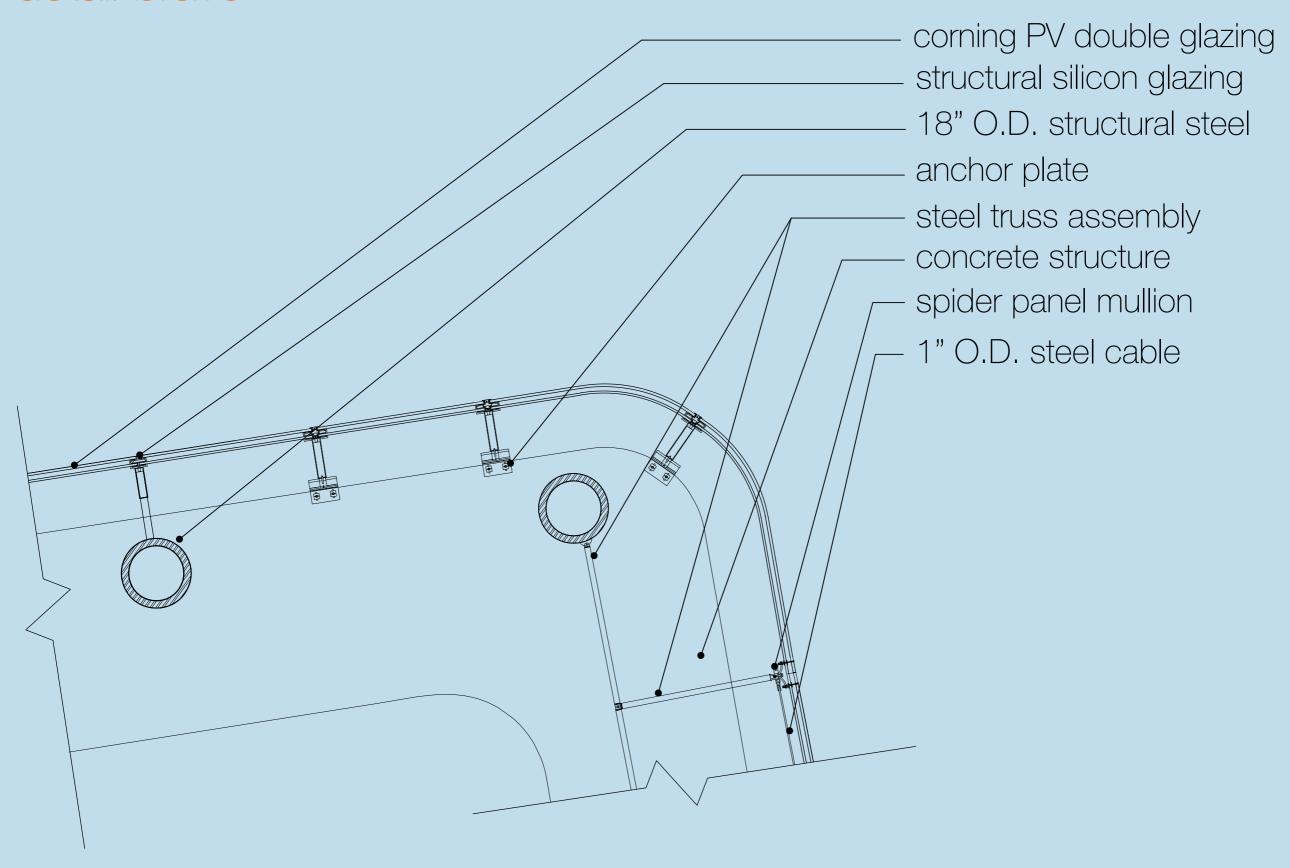
section perspective one



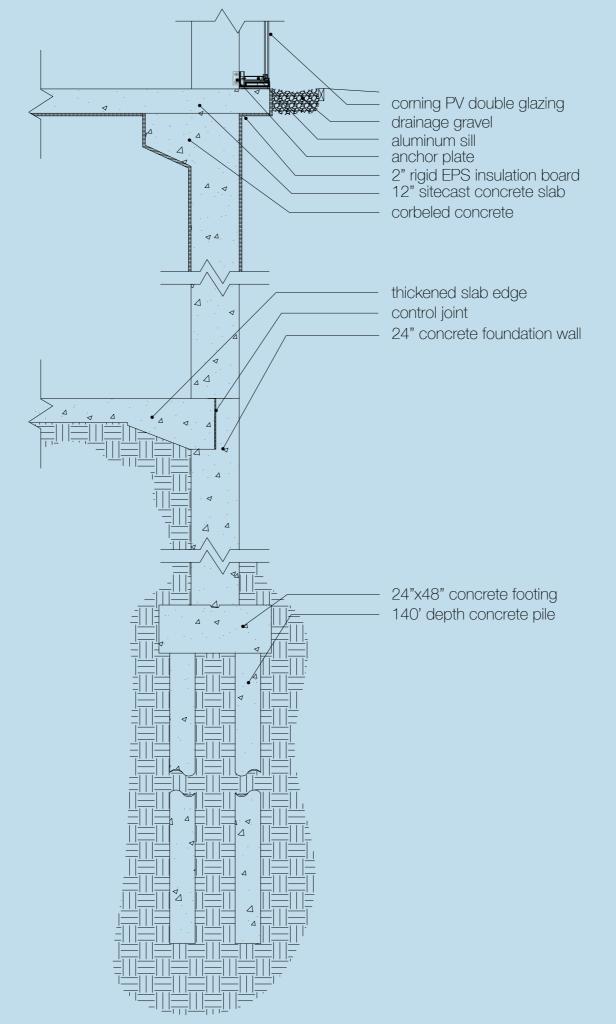
detail alpha

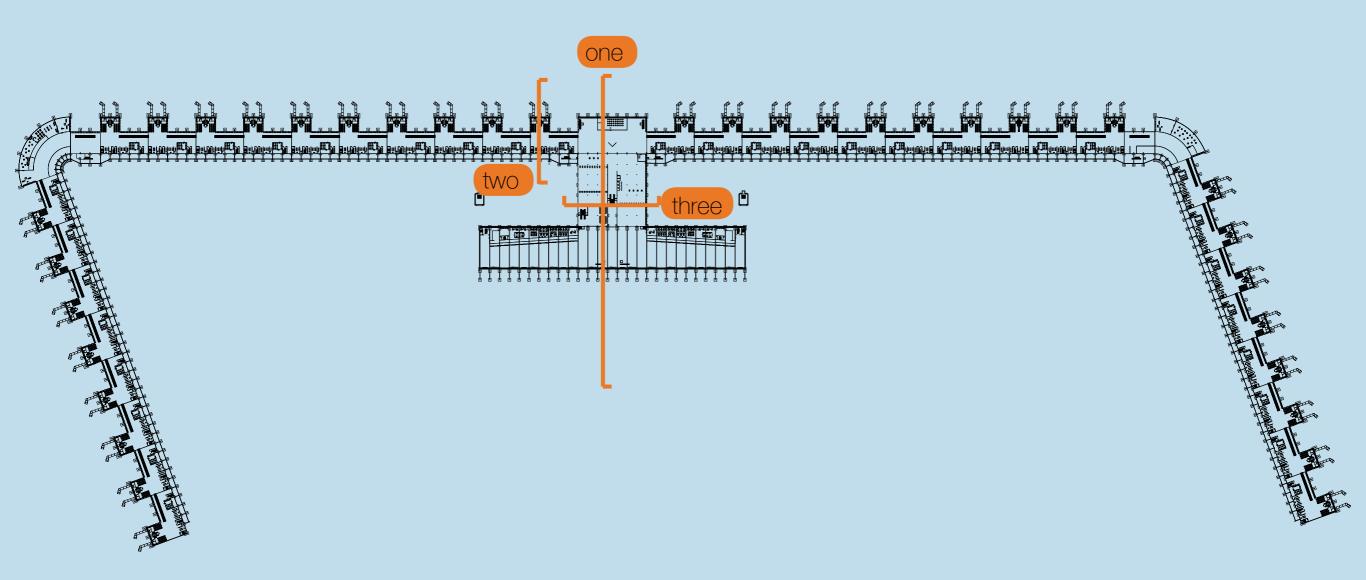


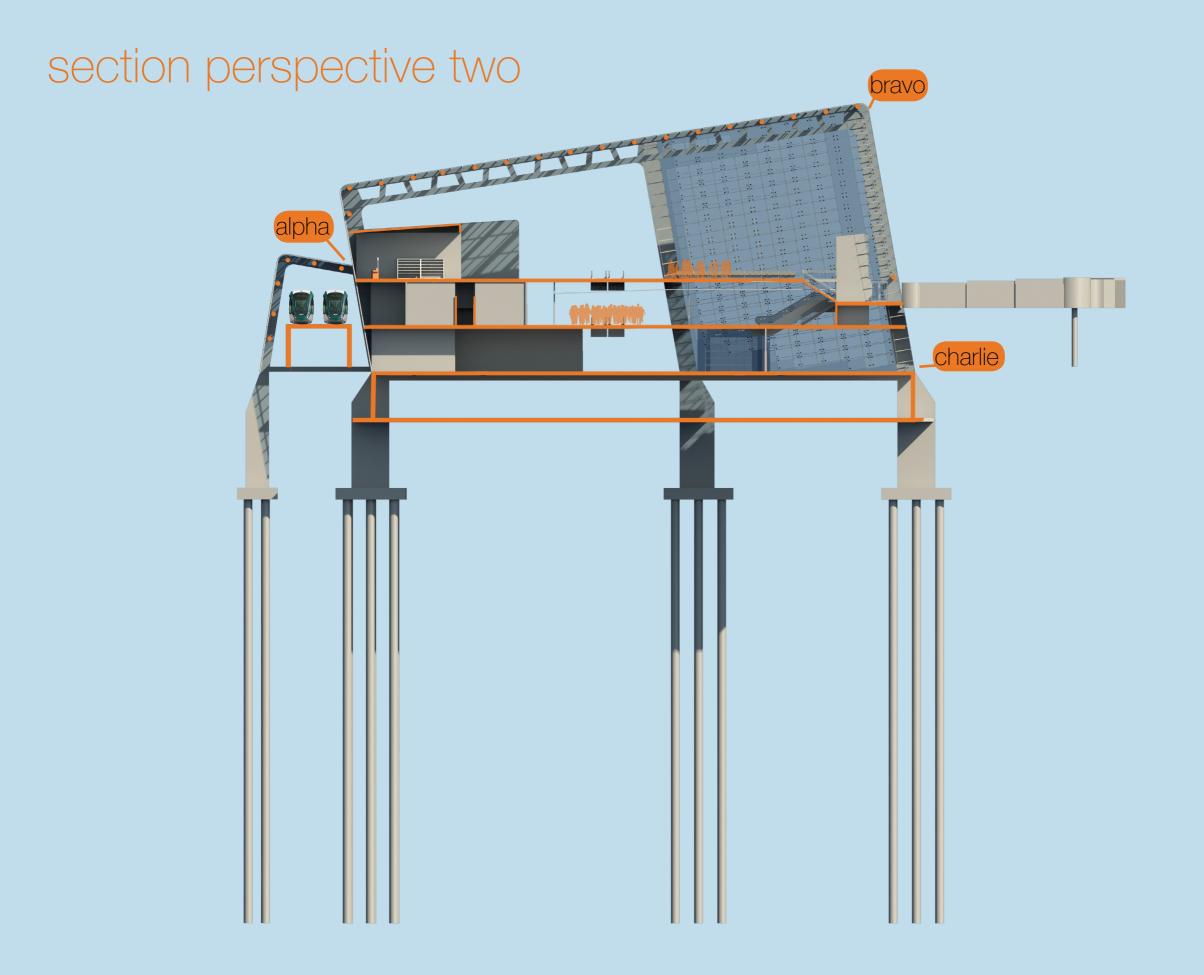
detail bravo



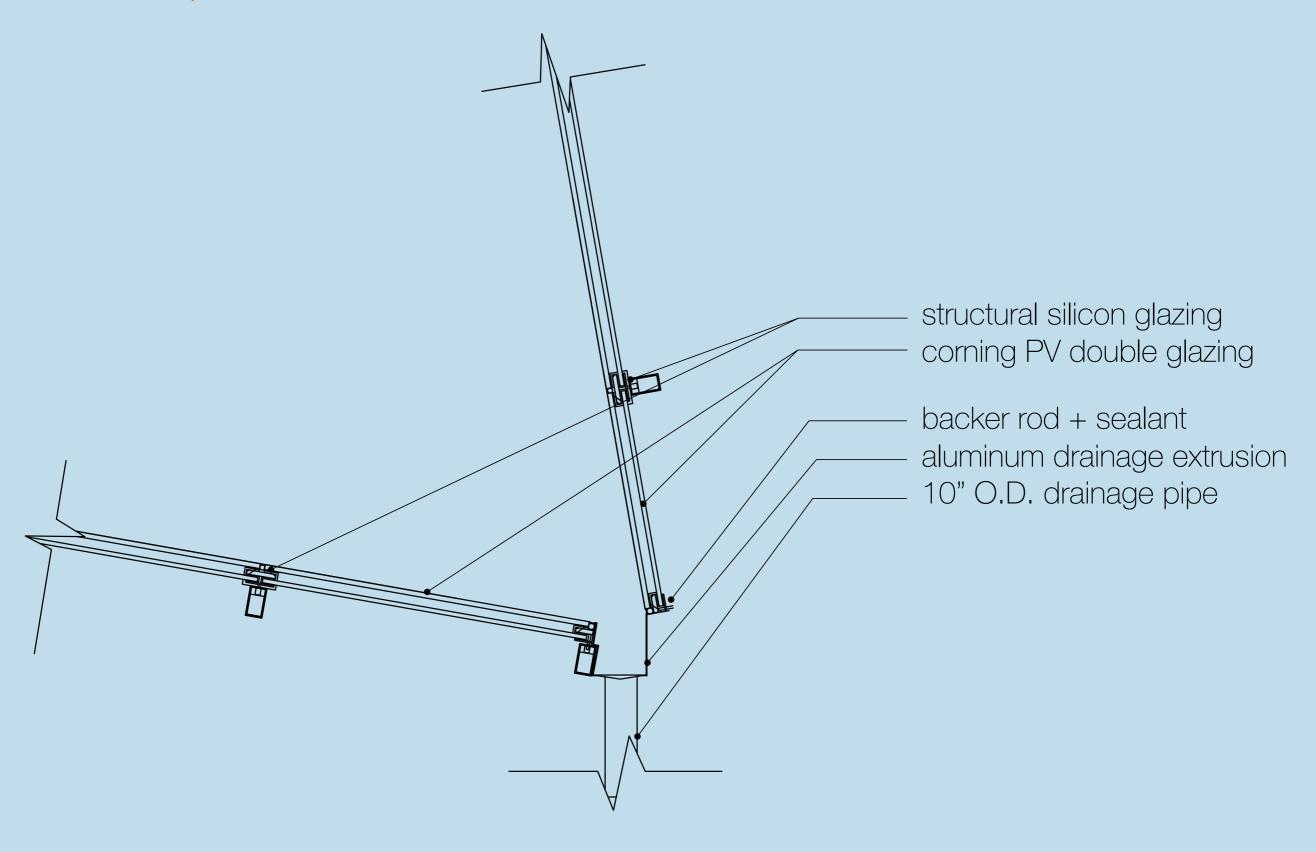
detail charlie



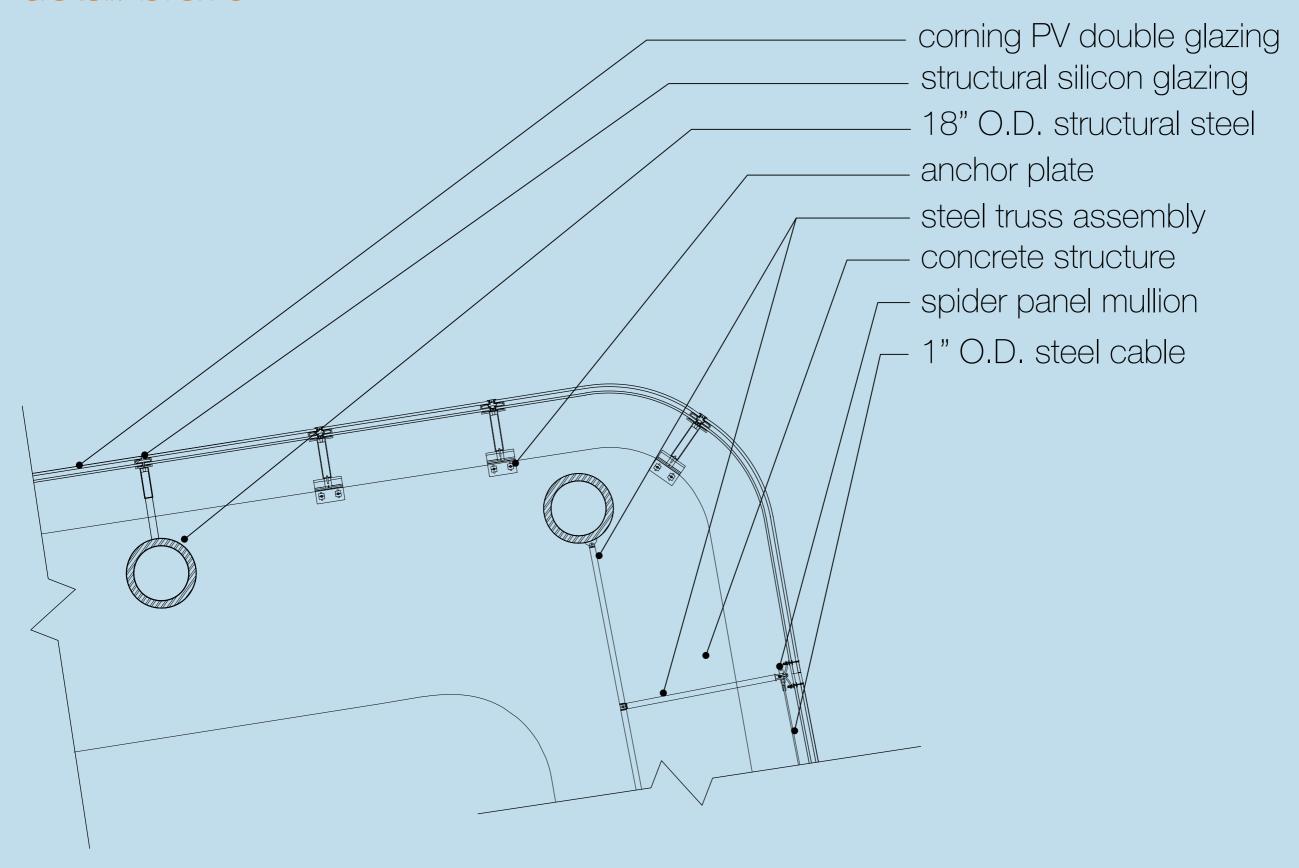




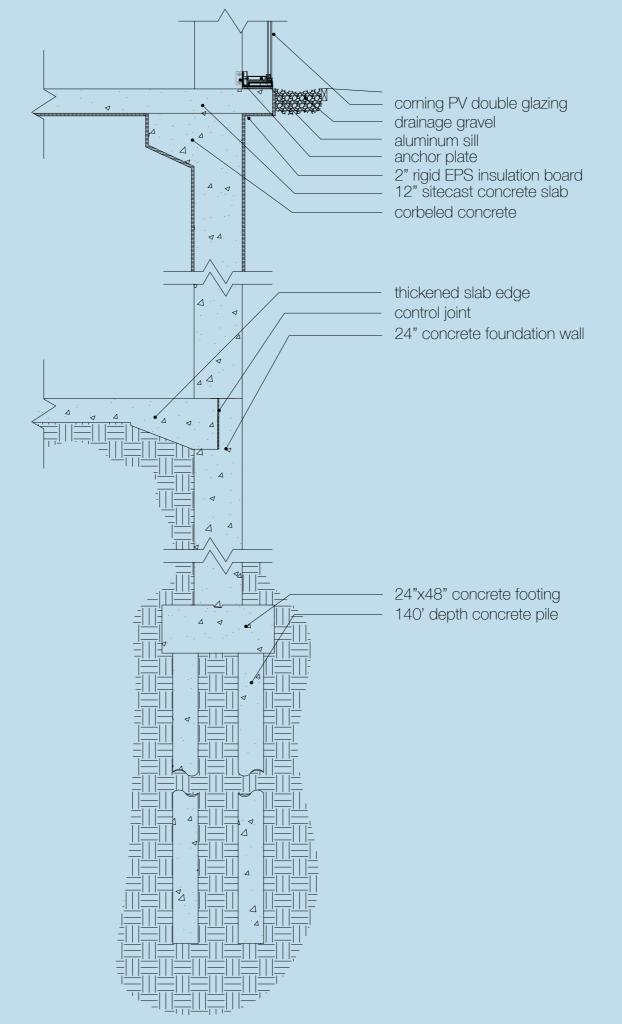
detail alpha

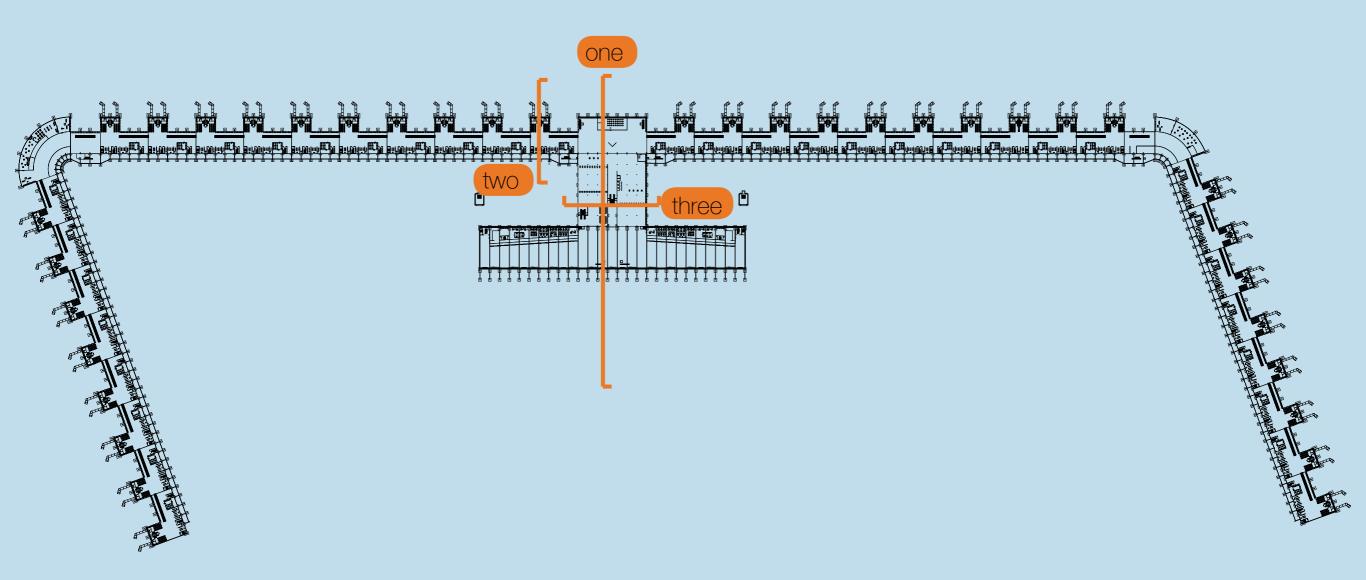


detail bravo



detail charlie

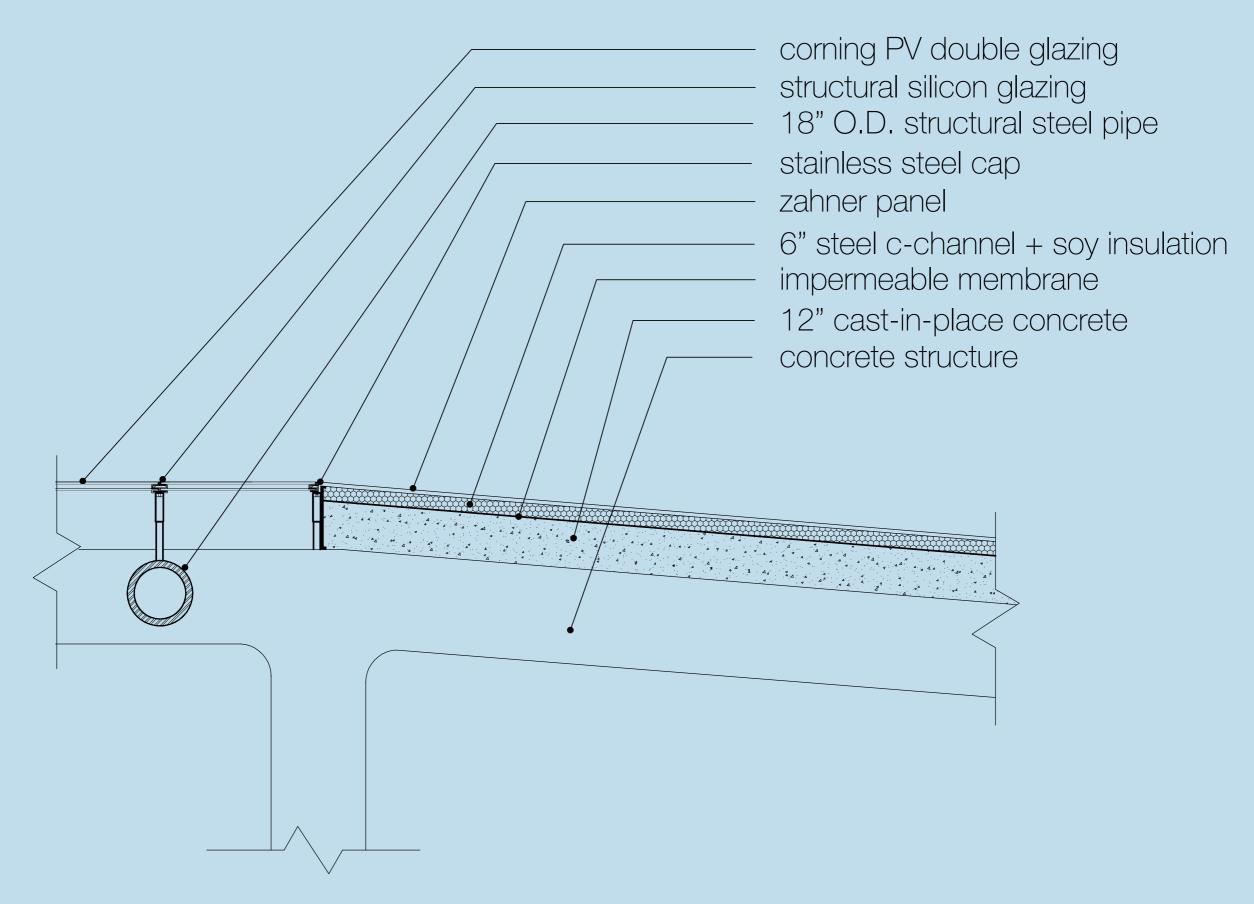


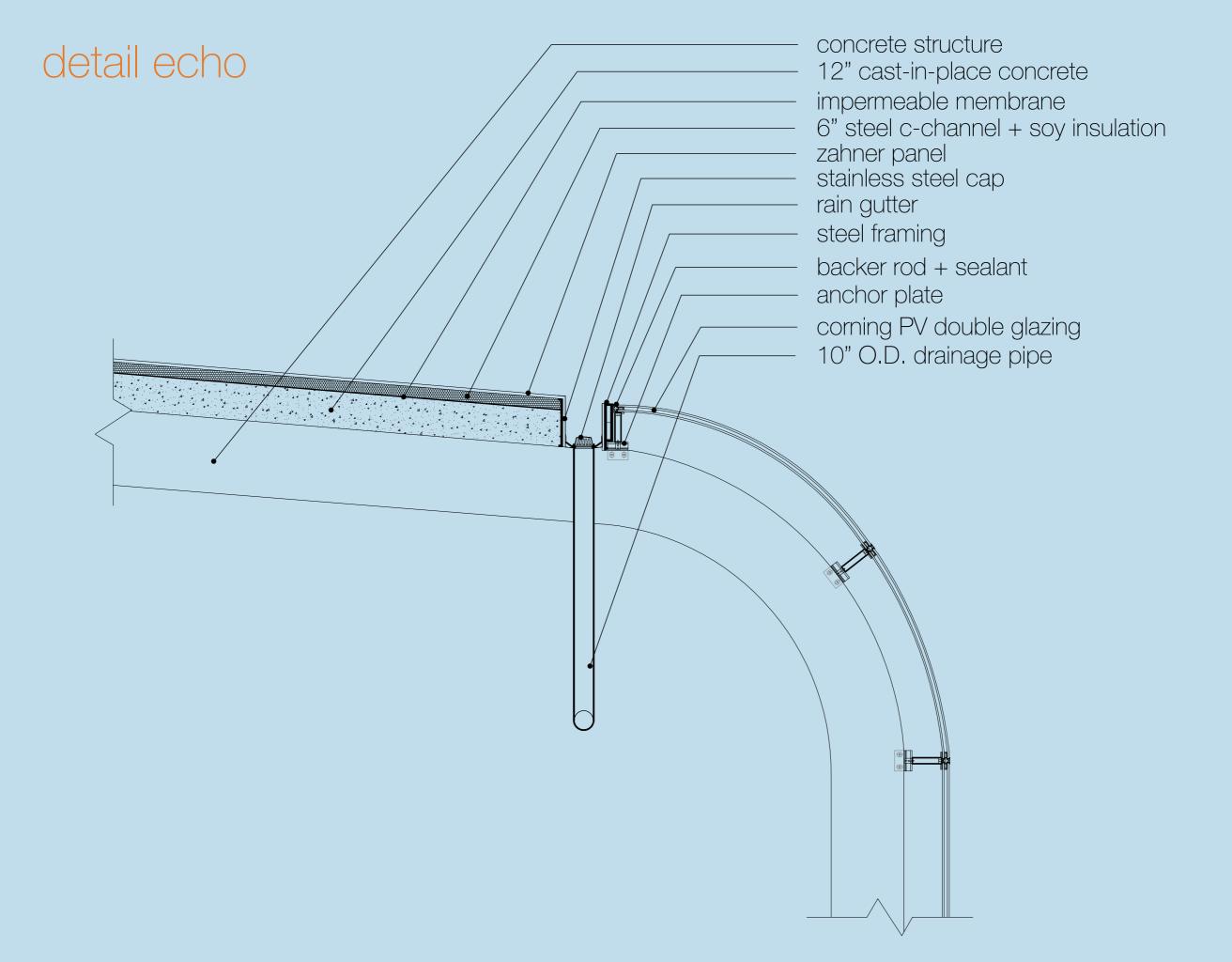


section perspective three

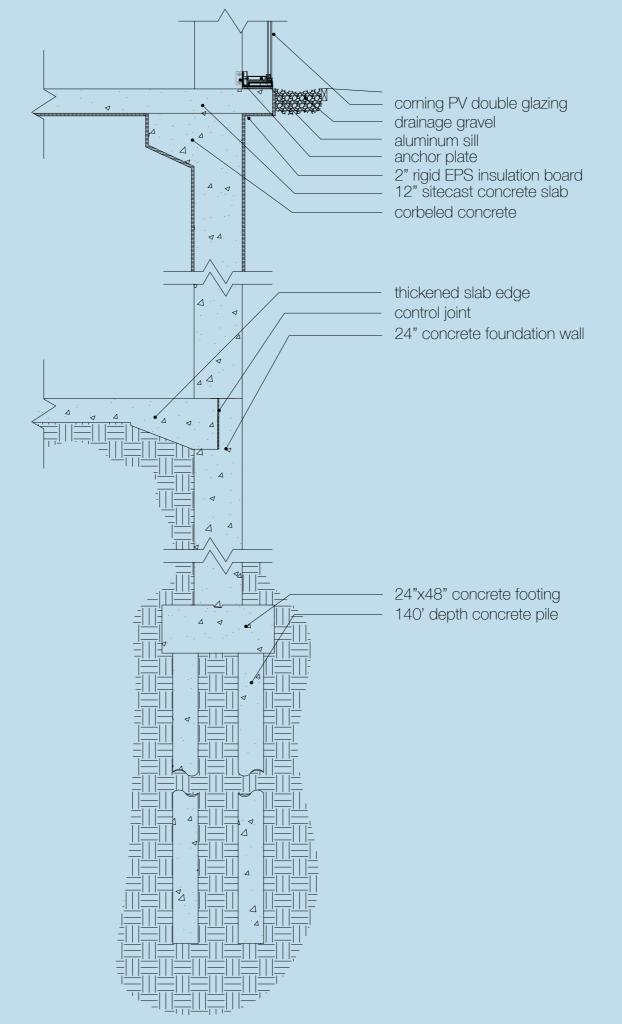


detail delta

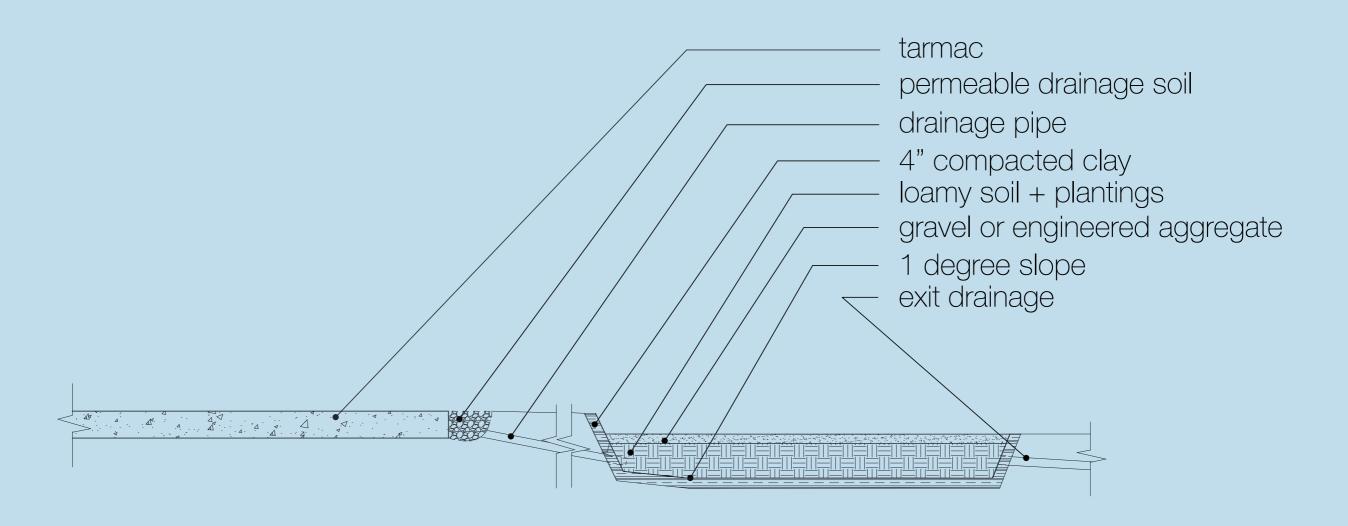




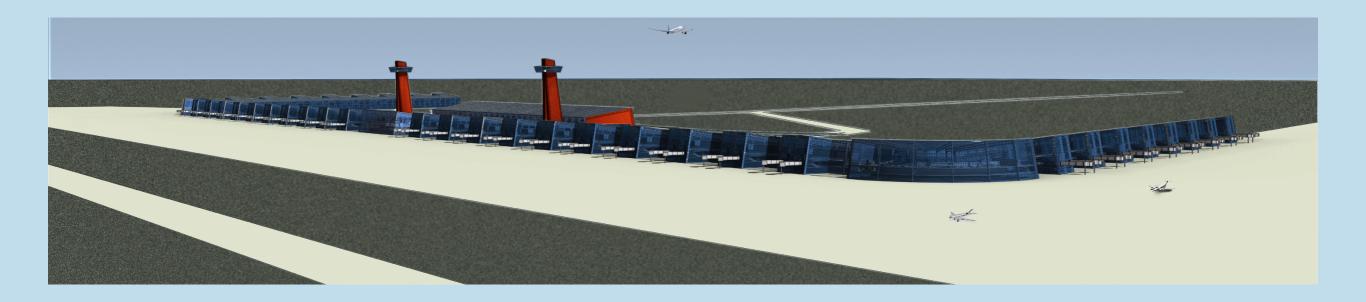
detail charlie



detail foxtrot

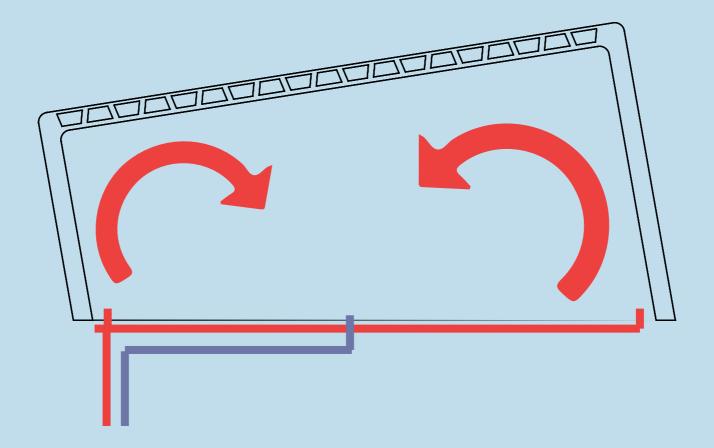


exterior from nw



systems

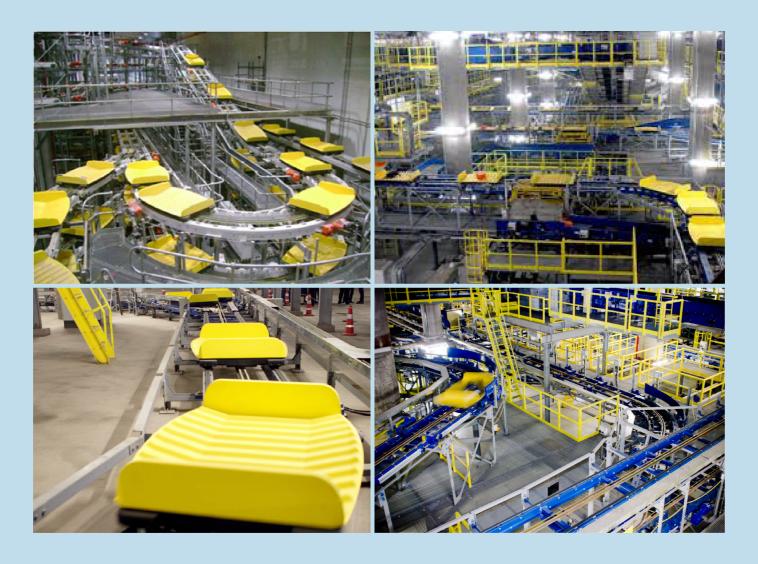
mechanical



supply on sides, return in middle for large open spaces. fan coil units for smaller spaces demanding a specfic environment

exhaust and supply would be on the tram-side of the concourse, with sytlised intakes

baggage

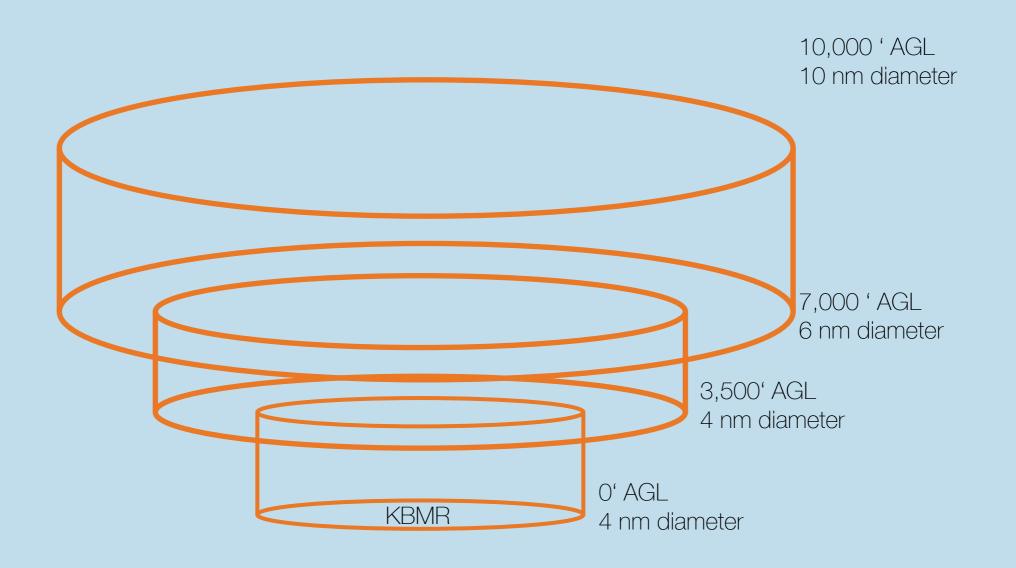


siemens baggage system

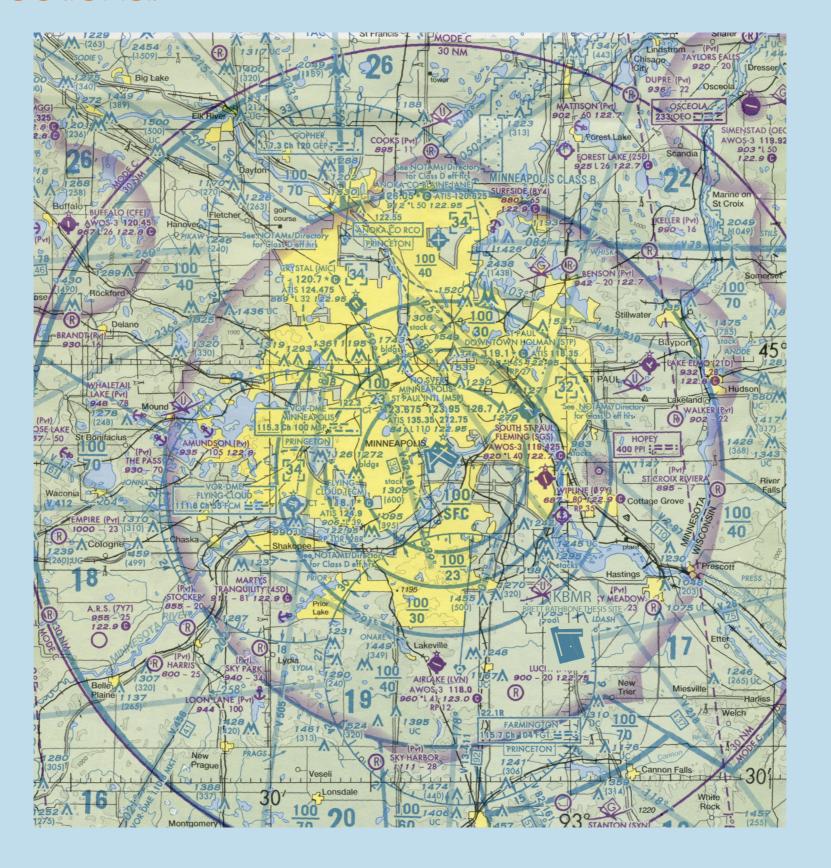
bags are tagged by the system and placed on an individual carriage system, and they are stored in a storage area. bags are then requested by the system for their respective location. The entire system is automated, but monitored.

airspace

class b airspace rules



twin cities sectional



thank you

questions + comments?