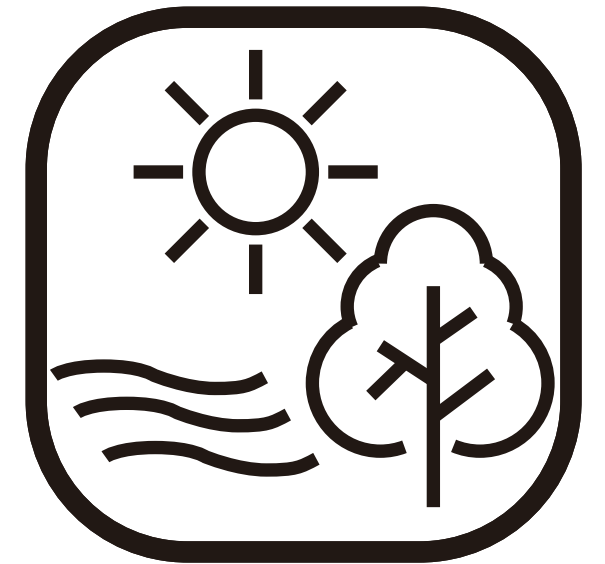
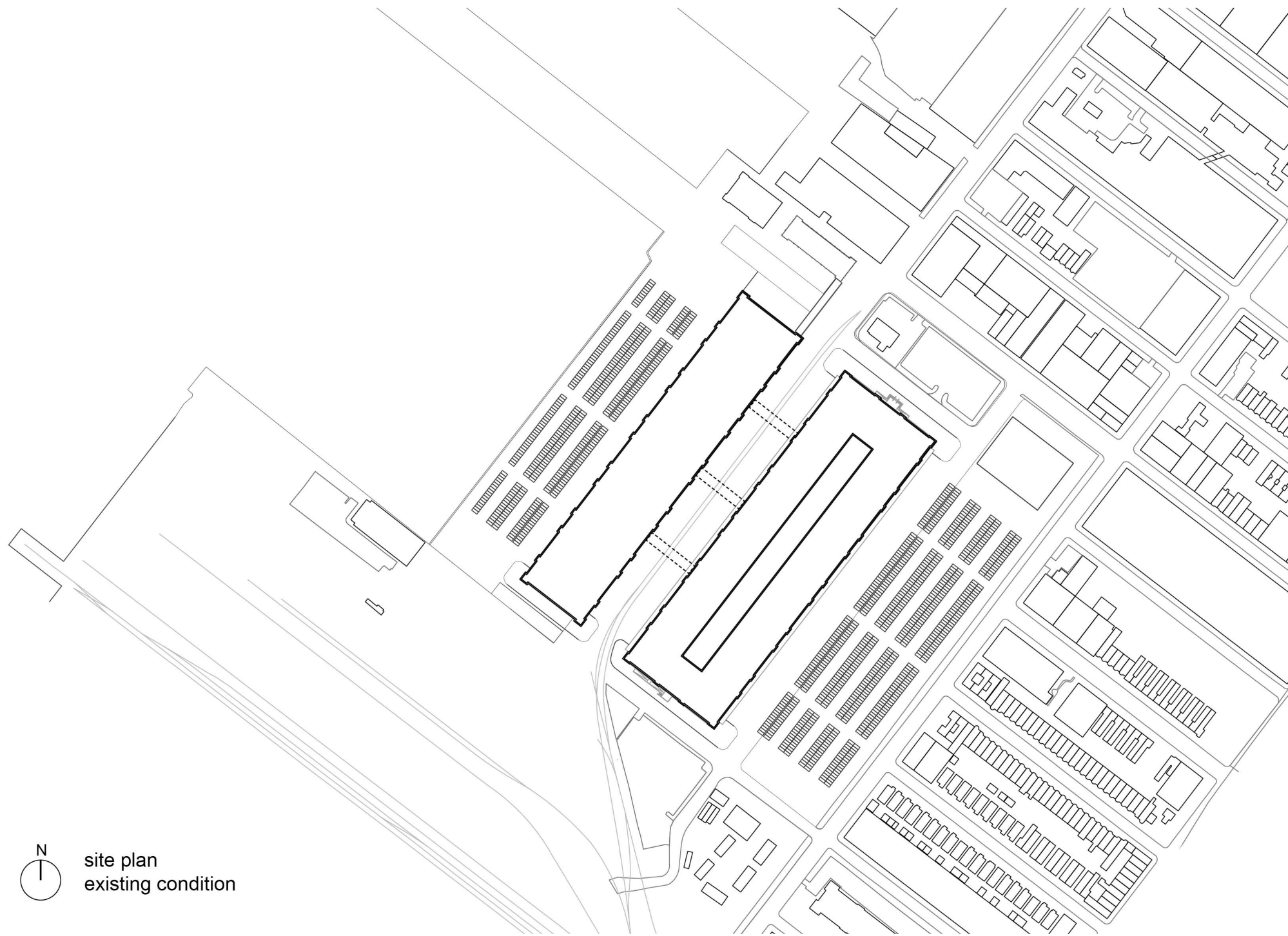


Han Kuo
New Ground Floor





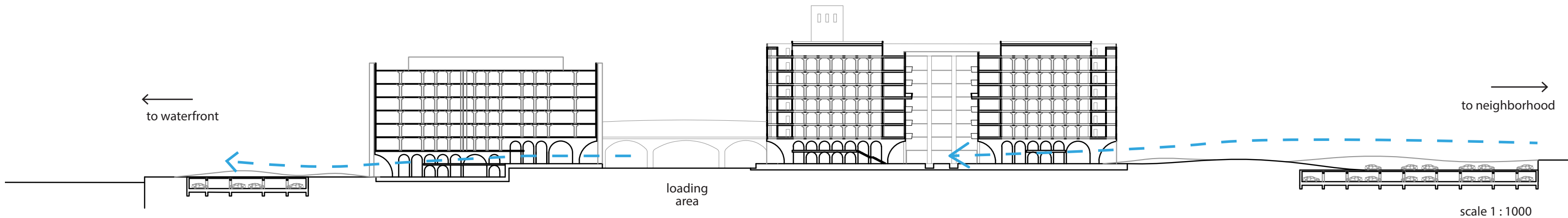
Brooklyn Army Terminal, New York

The whole project is trying to create the feeling of accessibility by visualizing it. Undoubtedly, the ground floor of every building is the most publicly accessible. However, the whole complex of Brooklyn Army Terminal is mostly occupied by automobile pathway and parking, and two monstrous buildings act like two gigantic walls dividing the neighborhood and waterfront. The strategy is to simply open the ground floor in order to not only re-build the linkage between local community and waterfront, but also offer new space for public programs.

N
 |
 site plan
 existing condition

Building A

Building B



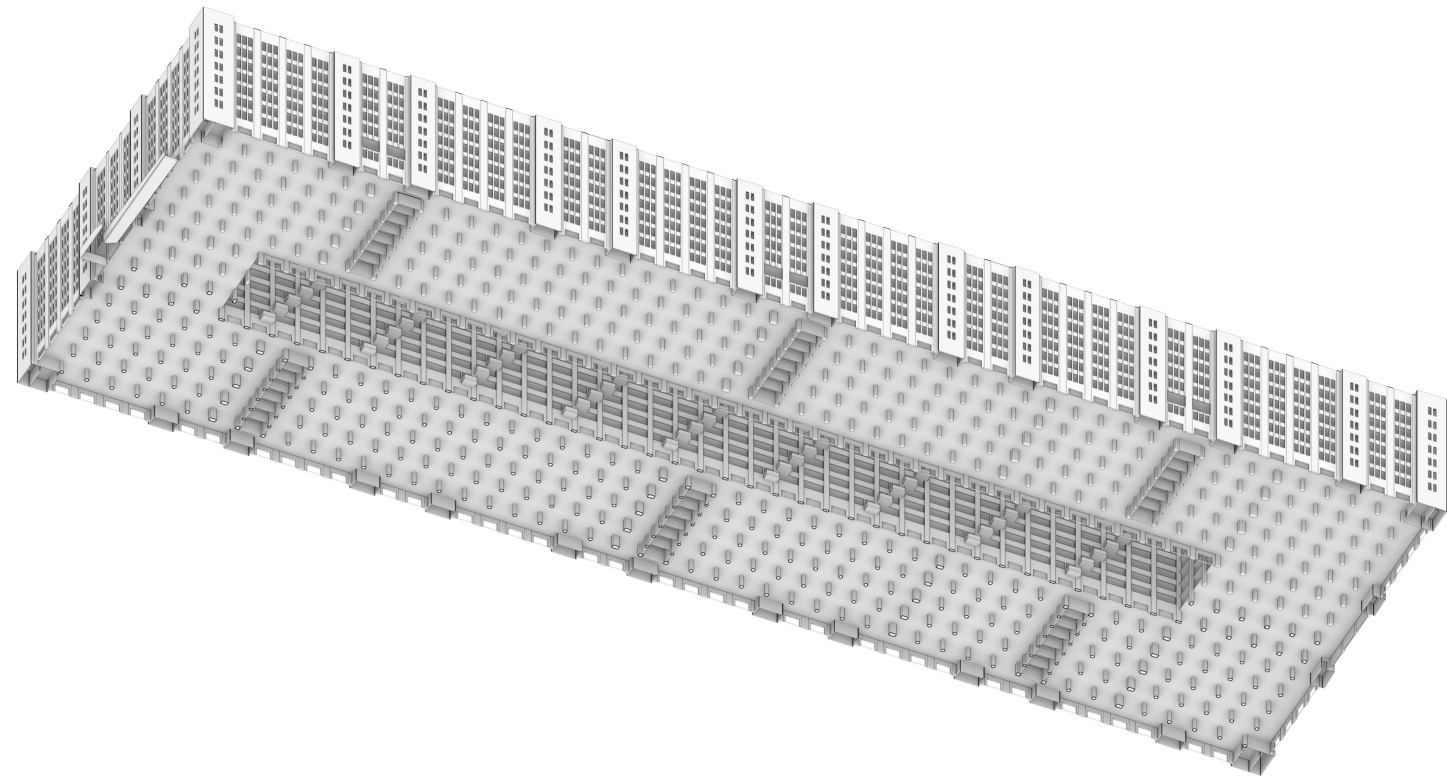
←
to waterfront

loading
area

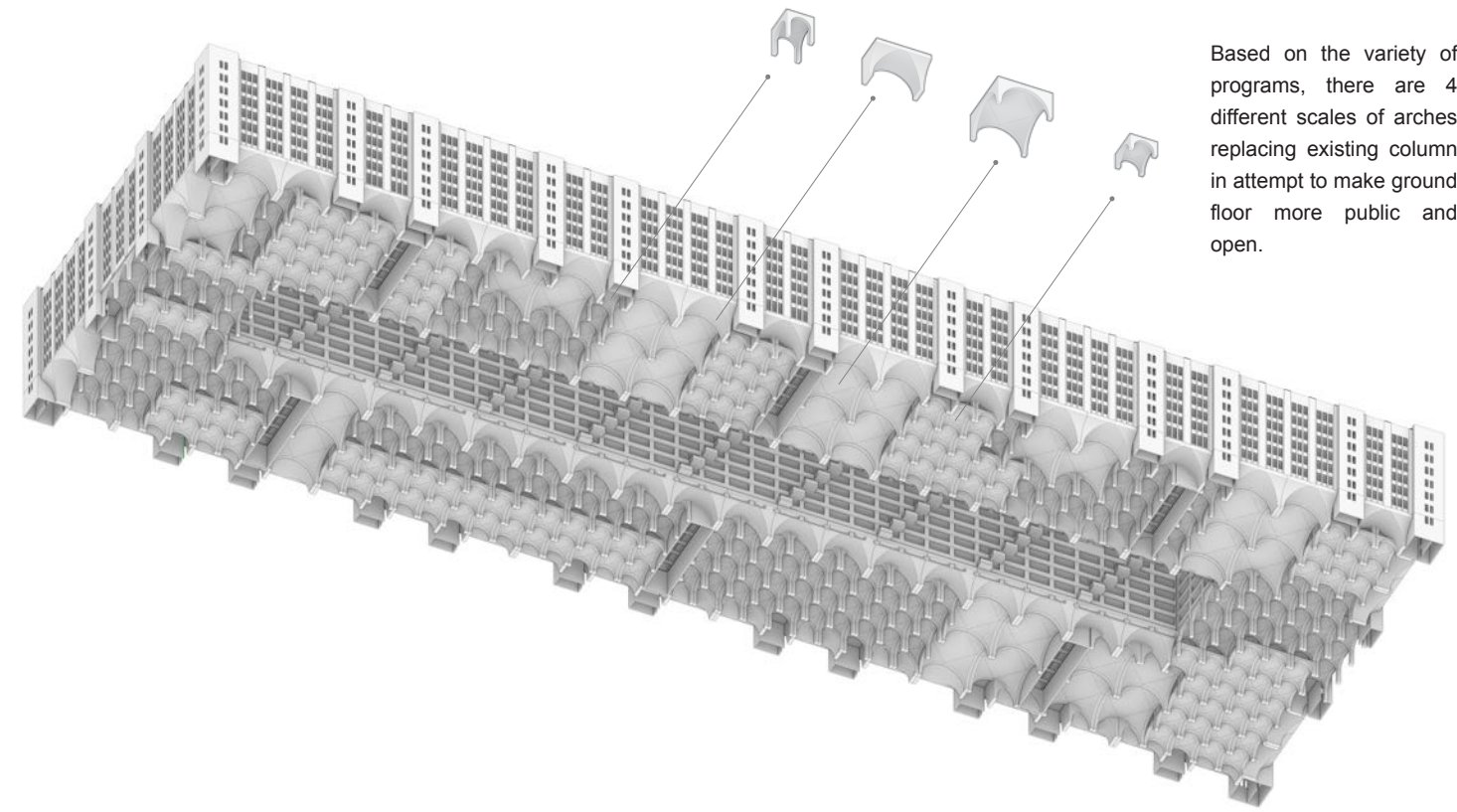
→
to neighborhood

scale 1 : 1000

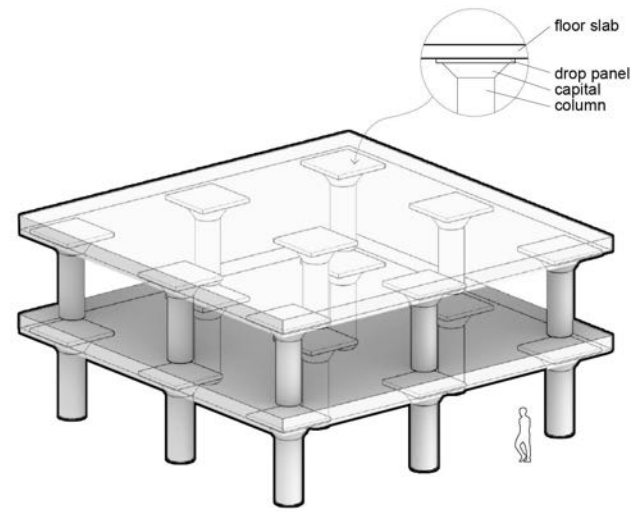
existing flat-slab structure system



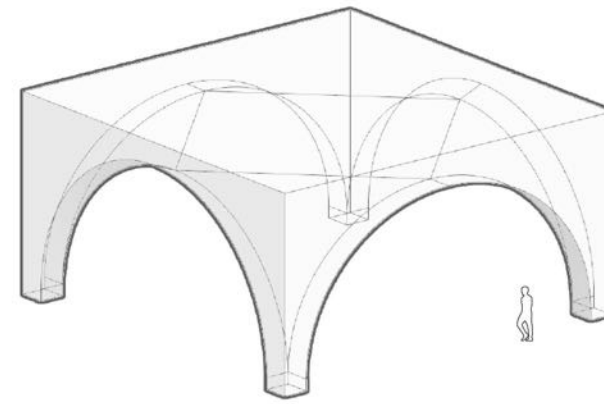
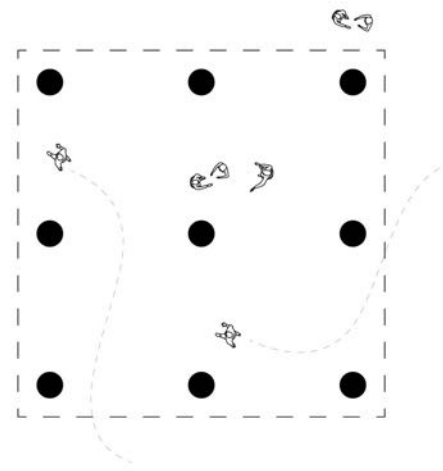
arch structural system



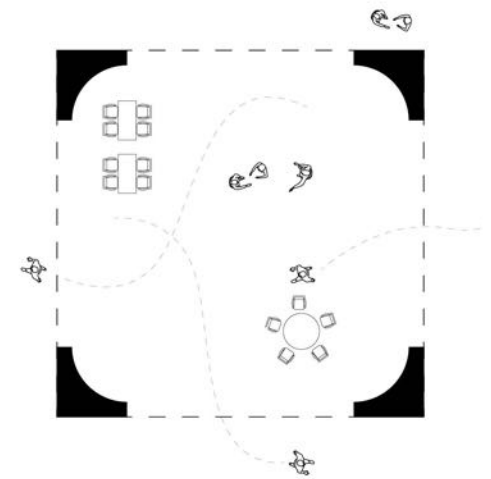
Based on the variety of programs, there are 4 different scales of arches replacing existing column in attempt to make ground floor more public and open.



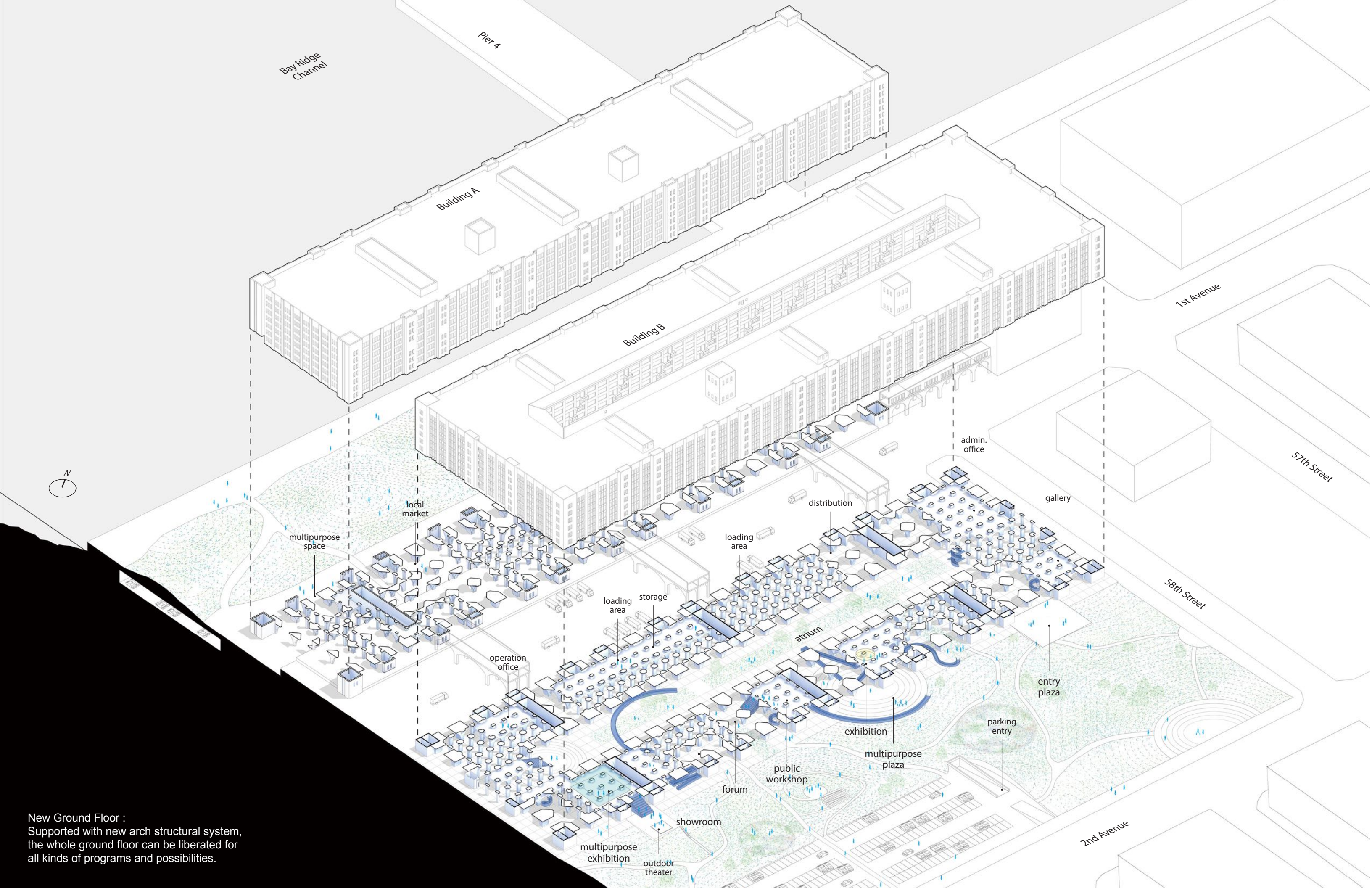
flat-slab system



arch system



construction sequence of concrete arch



New Ground Floor :
Supported with new arch structural system,
the whole ground floor can be liberated for
all kinds of programs and possibilities.

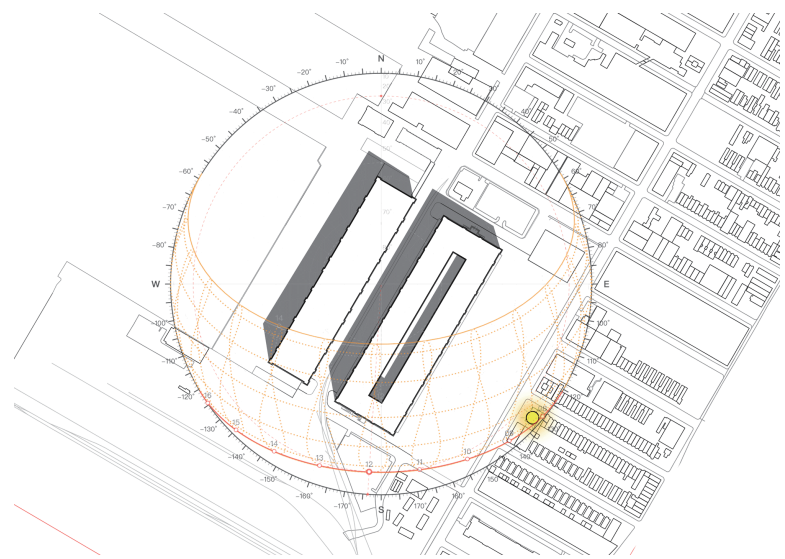
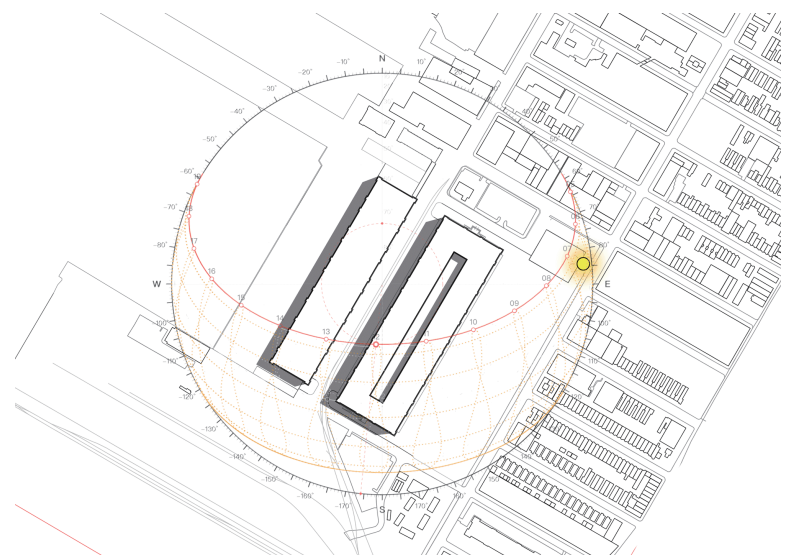


**Original ground floor
vs
New ground floor**

All different scales of arches with wider spans or higher ceiling drastically improve the experience of space and “transparency” of the two buildings. Ground floor can completely open to the general public. Visitors are able to see what’s happening under the monolithic historical infrastructure, which also naturally generate a more welcoming gesture.



1. view between outdoor and semi-indoor space
2. double-high exhibition hall & 2F balcony
3. open space for local market
4. open space for temporary performing space



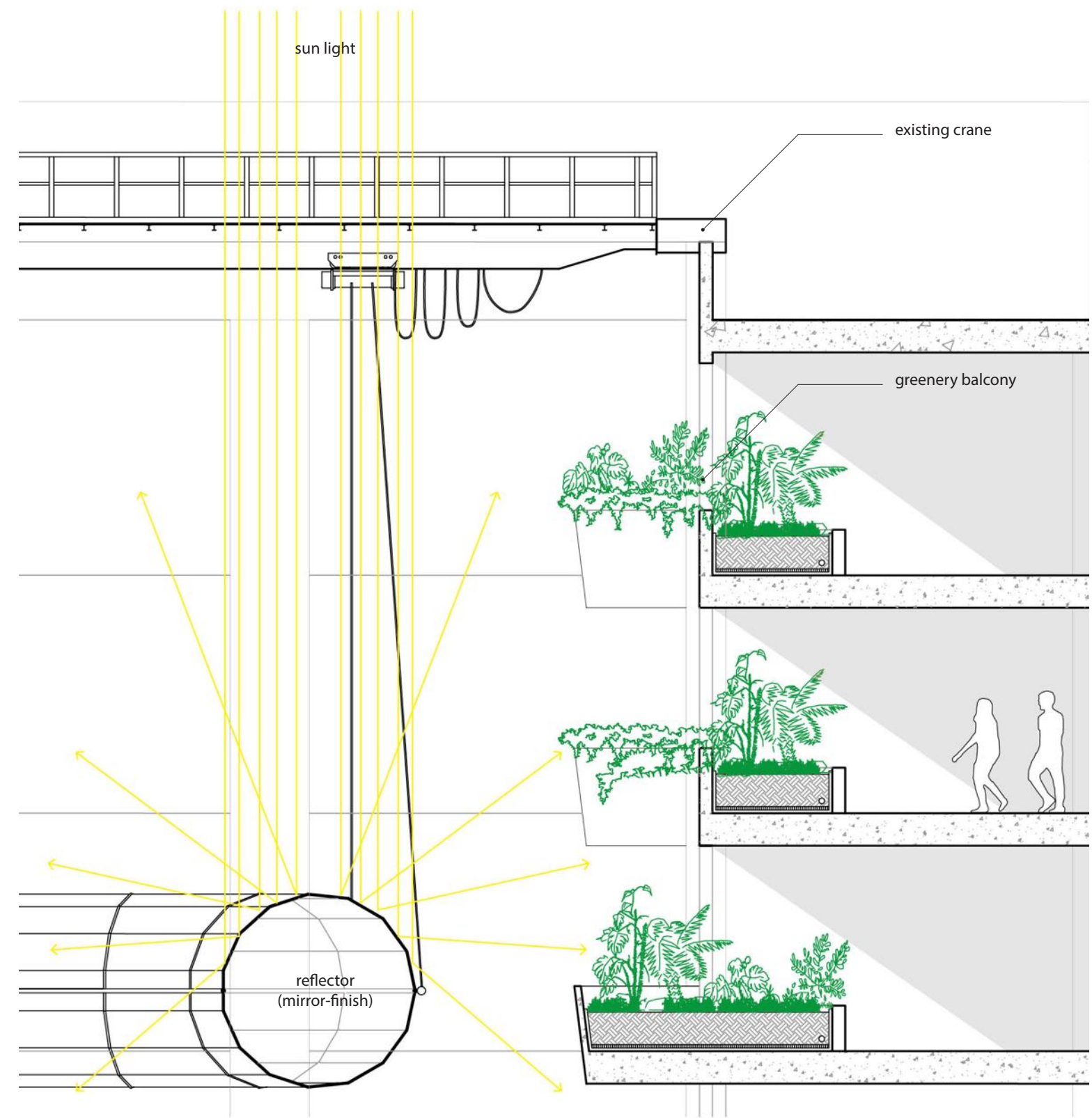
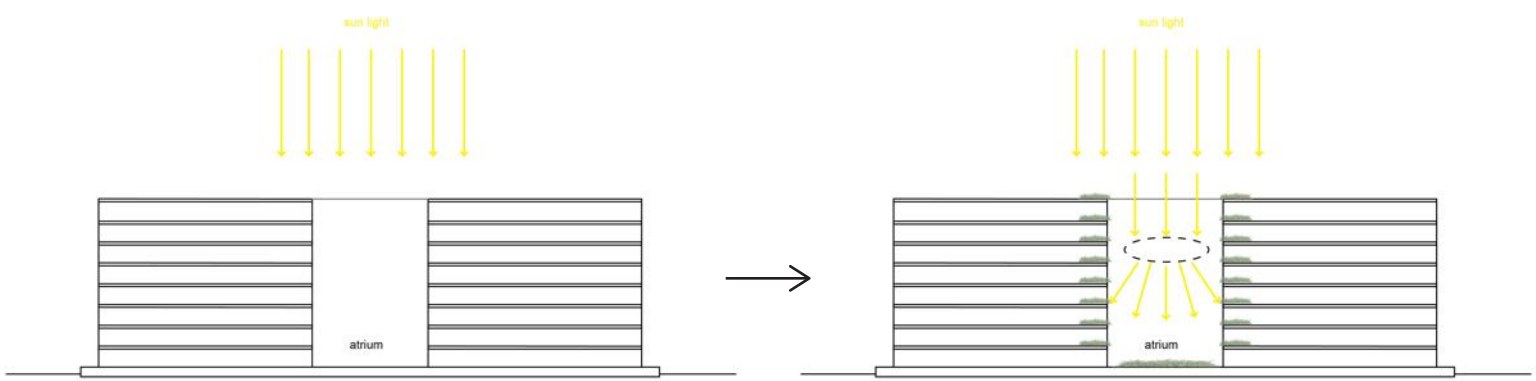
New York
 Latitude :40° 43' 50.1960" N
 Longitude : 73° 56' 6.8712" W

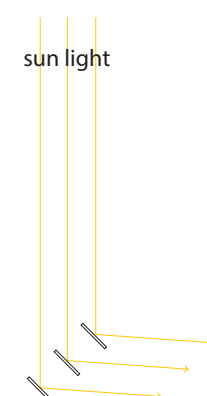
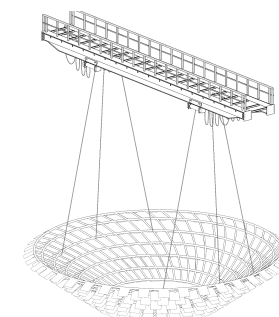
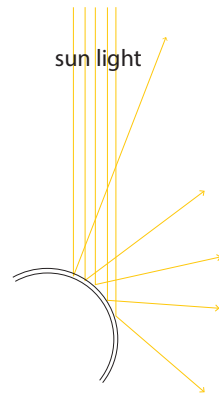
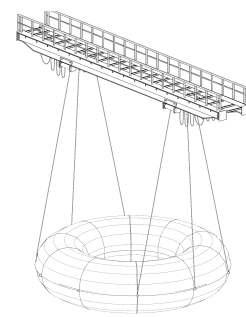
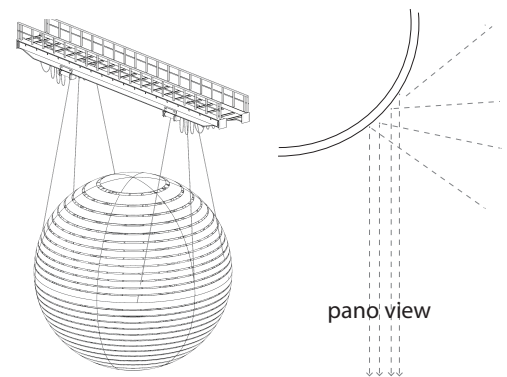
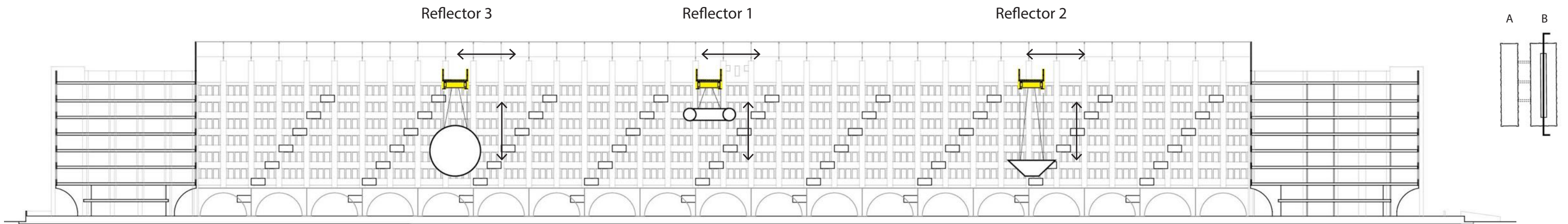
New York city situates at the middle latitude of northern hemisphere, which means it's difficult for sun light to reach the bottom of atrium in building B. The atrium is always in shadow without sufficient coverage of sunlight.

By reusing the existing crane, reflectors with particular geometric shape are able to effectively re-distribute the sun light to not only various levels but also bottom of building B.

sun path in summer

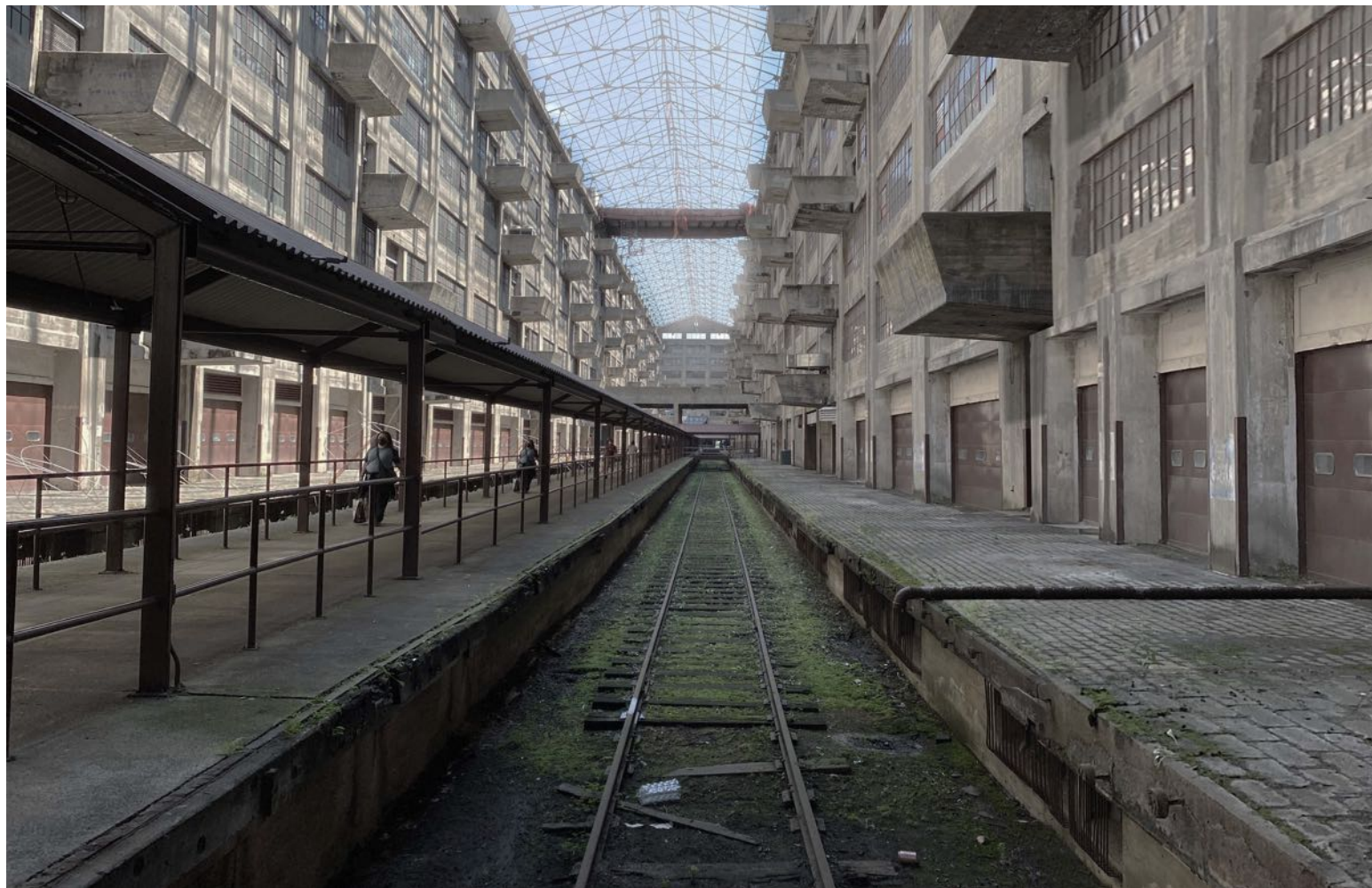
sun path in winter





These 3 reflectors have their own characteristics and reflection design, hanged by the cranes which can move horizontally and vertically. With the help of reflectors, light condition of atrium can be greatly improved. The atrium can be brighter and full of greenery, welcoming all the public visitors.

Building B atrium - existing condition



Building B atrium - new ground floor + reflectors

