

IDC

Structural

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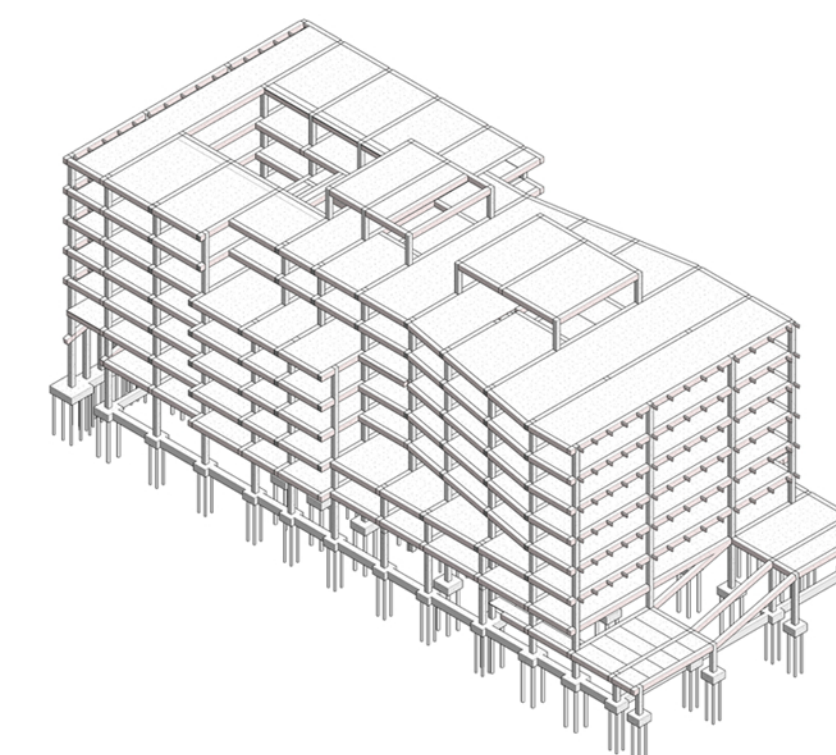
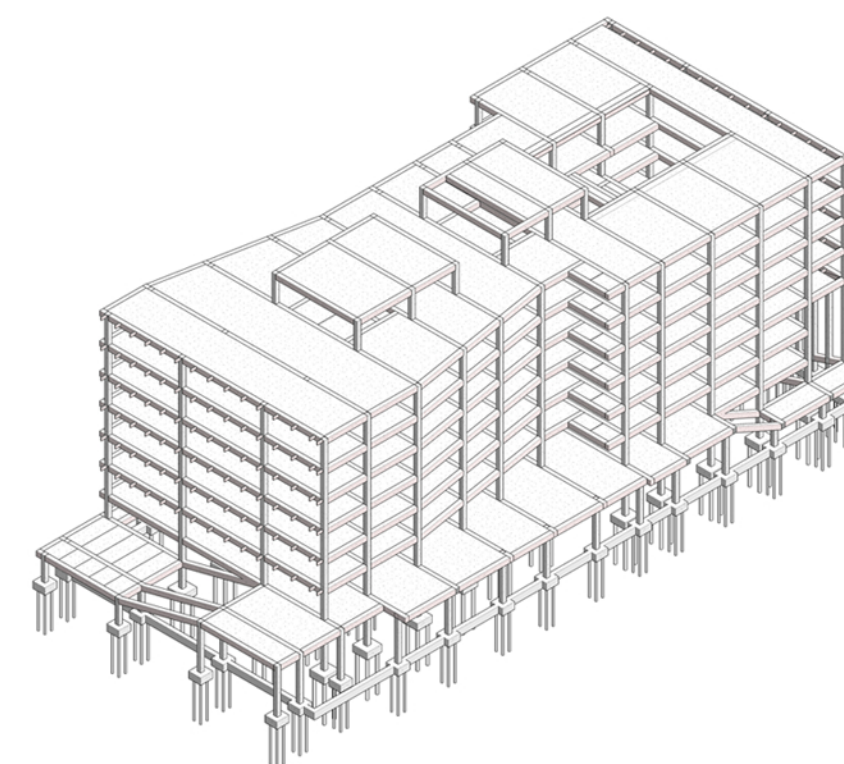
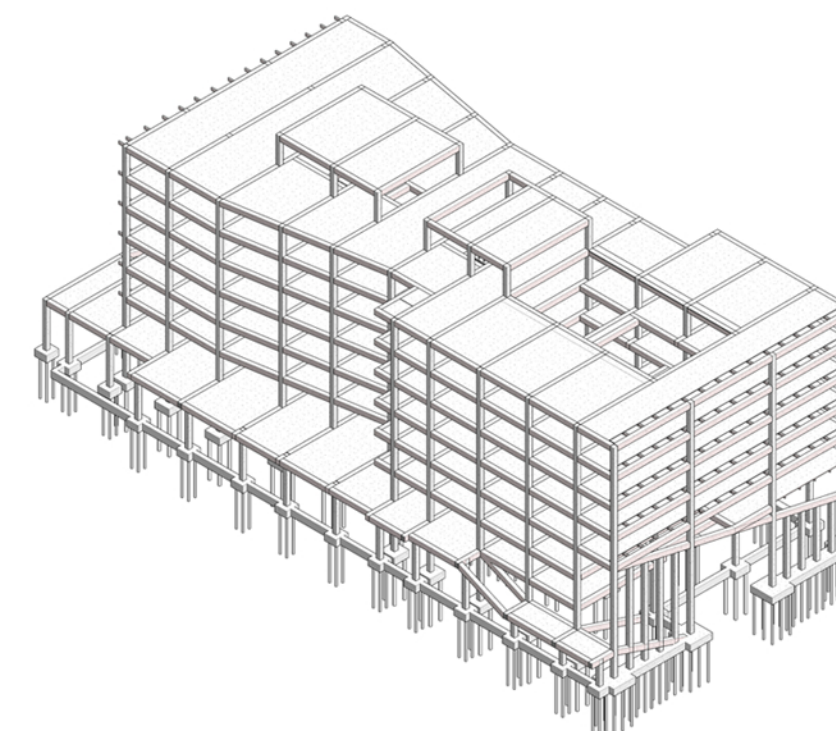
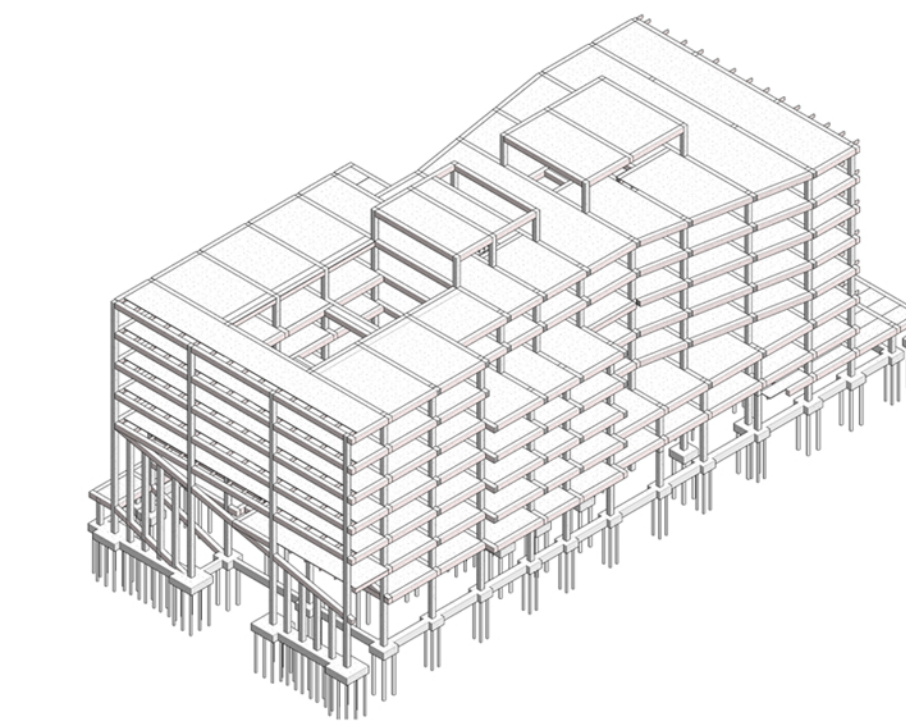
Structural Narrative

The primary structural components of the Boeing Office Building in DC are cast in place continuous concrete slabs, square concrete columns, t-beam girders, and rectangular t-beams. The t-beams were chosen for their ability to span large distances while keeping a low depth. Concrete friction piles and frost walls line the foundation and provide suitable footing for the high water table and soil conditions.

The column grid was chosen to provide more open space throughout the offices. A shear wall is used to resist lateral forces and support a girder in the service dock that would otherwise be a troublesome column for the dock workers.

To support our double skin, the rectangular t-beam stems extend without their flange. This extension is used to anchor the grates to allow for natural ventilation throughout the building.

Along the second story park are multiple stairs spanning distances up to 45'. In these instances, rectangular beams and columns provide support for these massive steel frame stairs.



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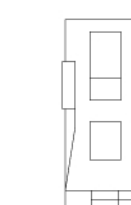
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Client



Key Plan



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Titlesheet

S-001