

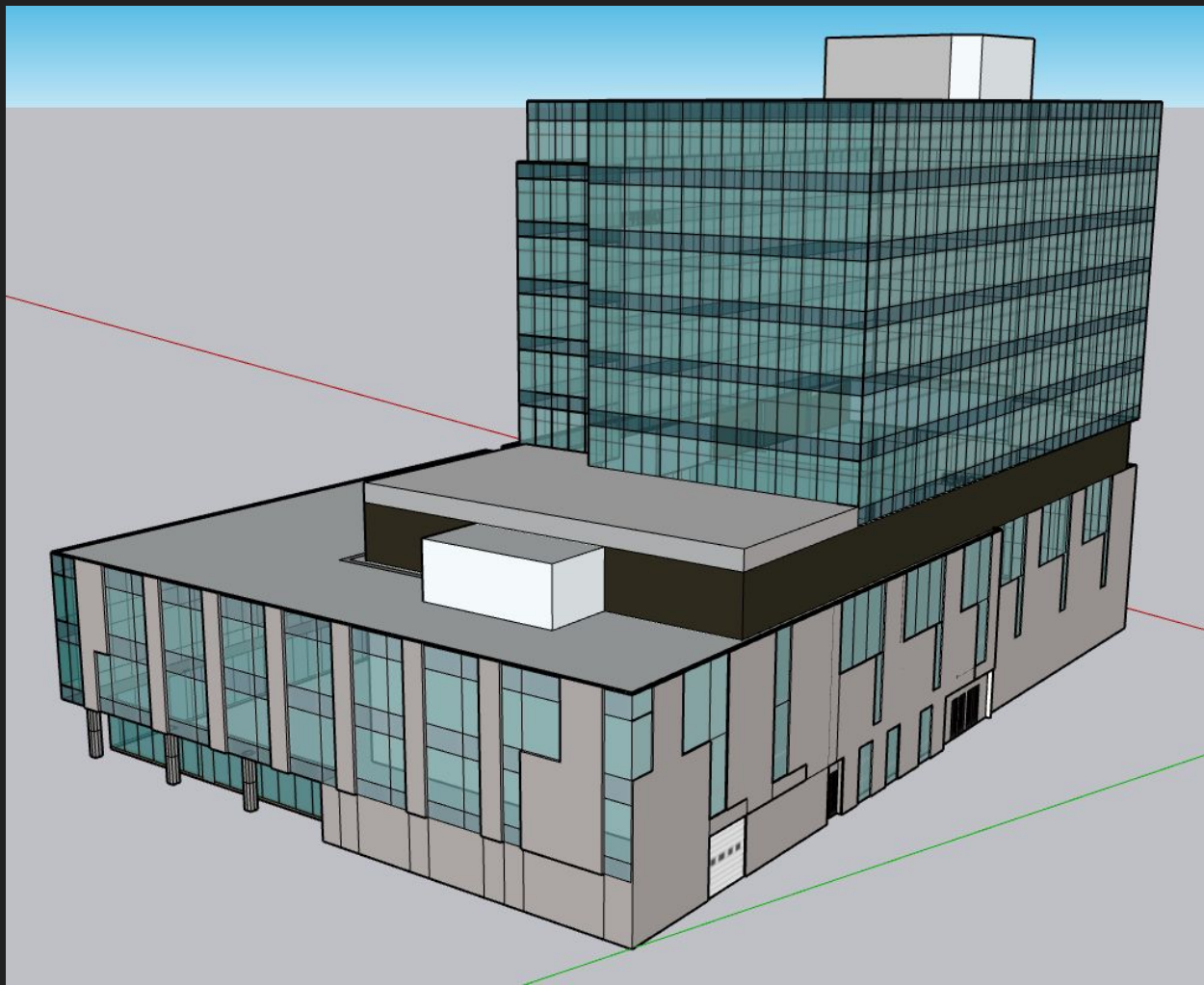
Development Over Term

Ryan Nguyen

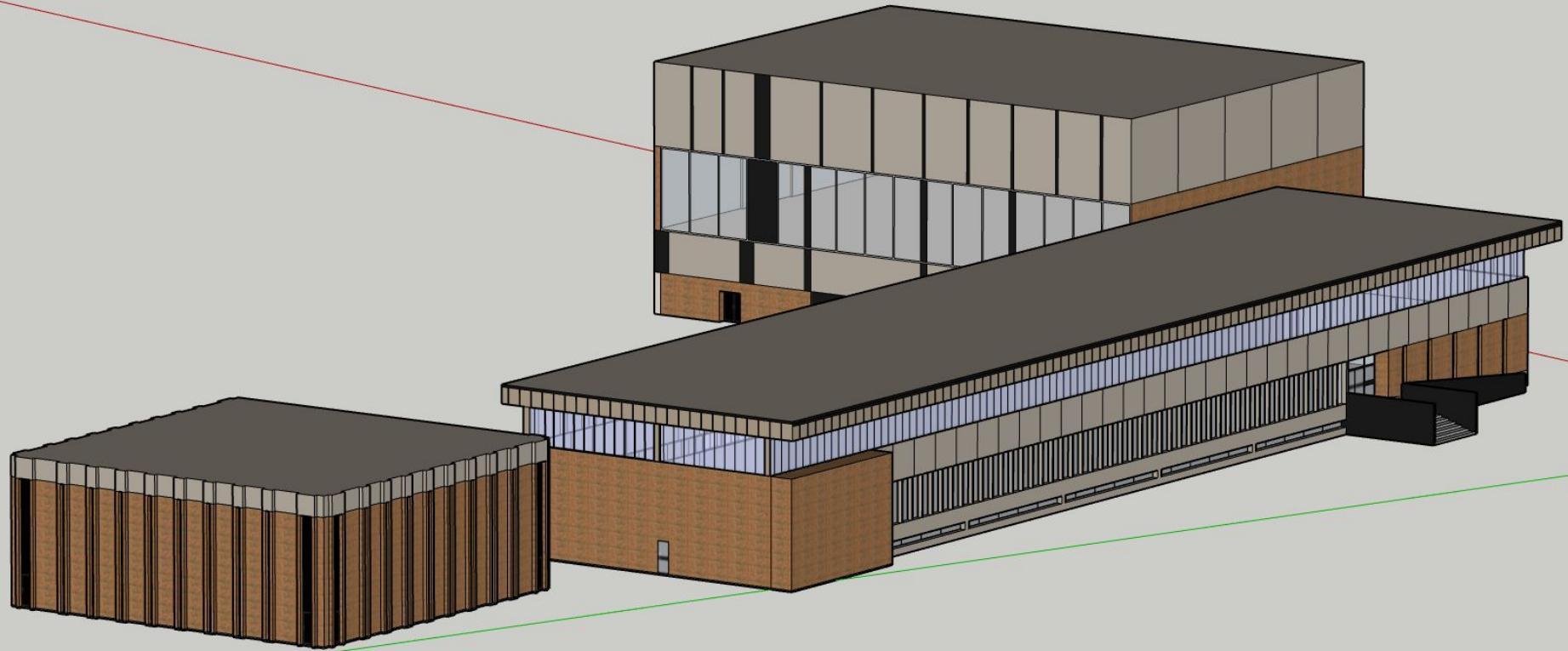
Esri buildings

Kaneff Tower

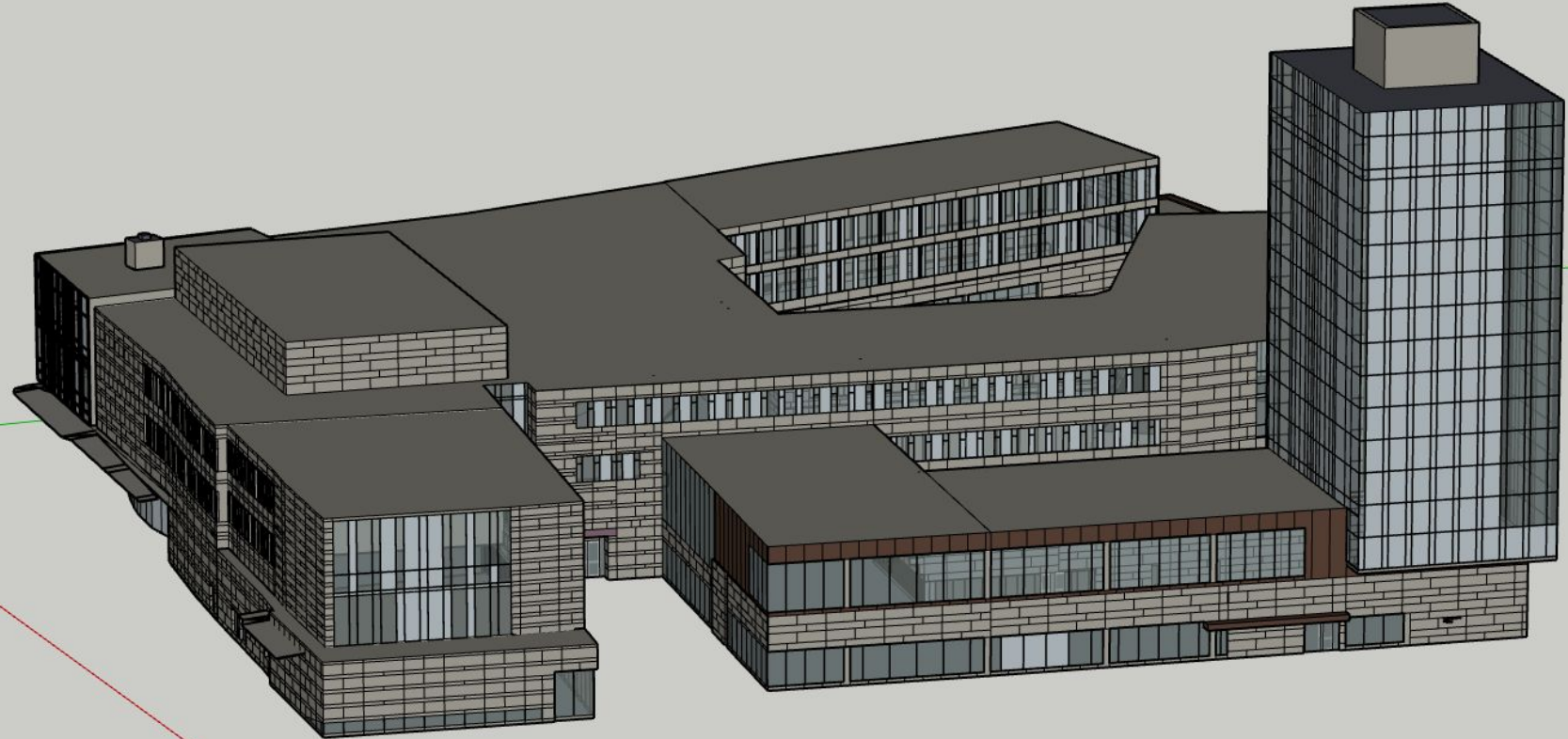


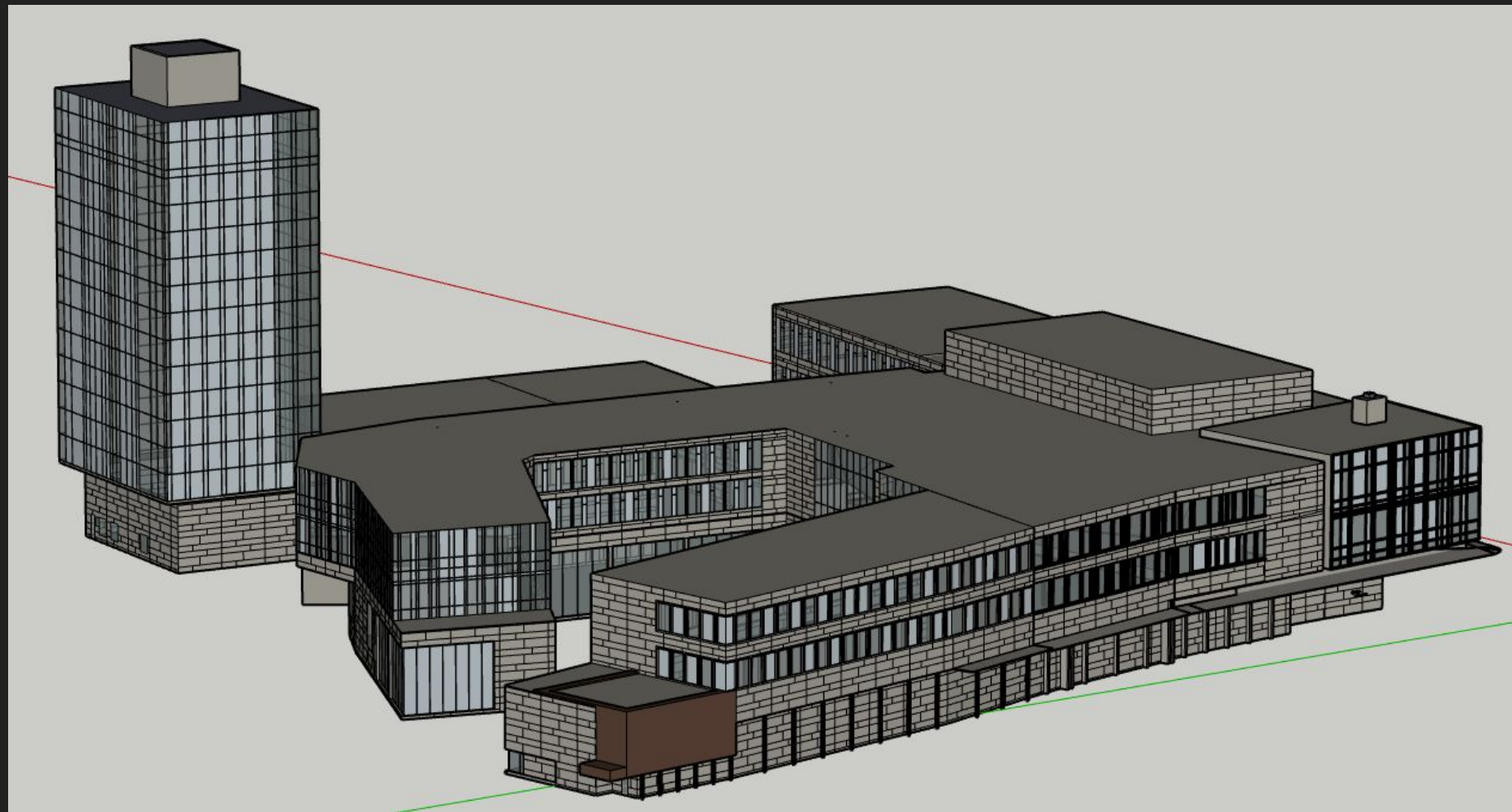


Atkinson Buildings

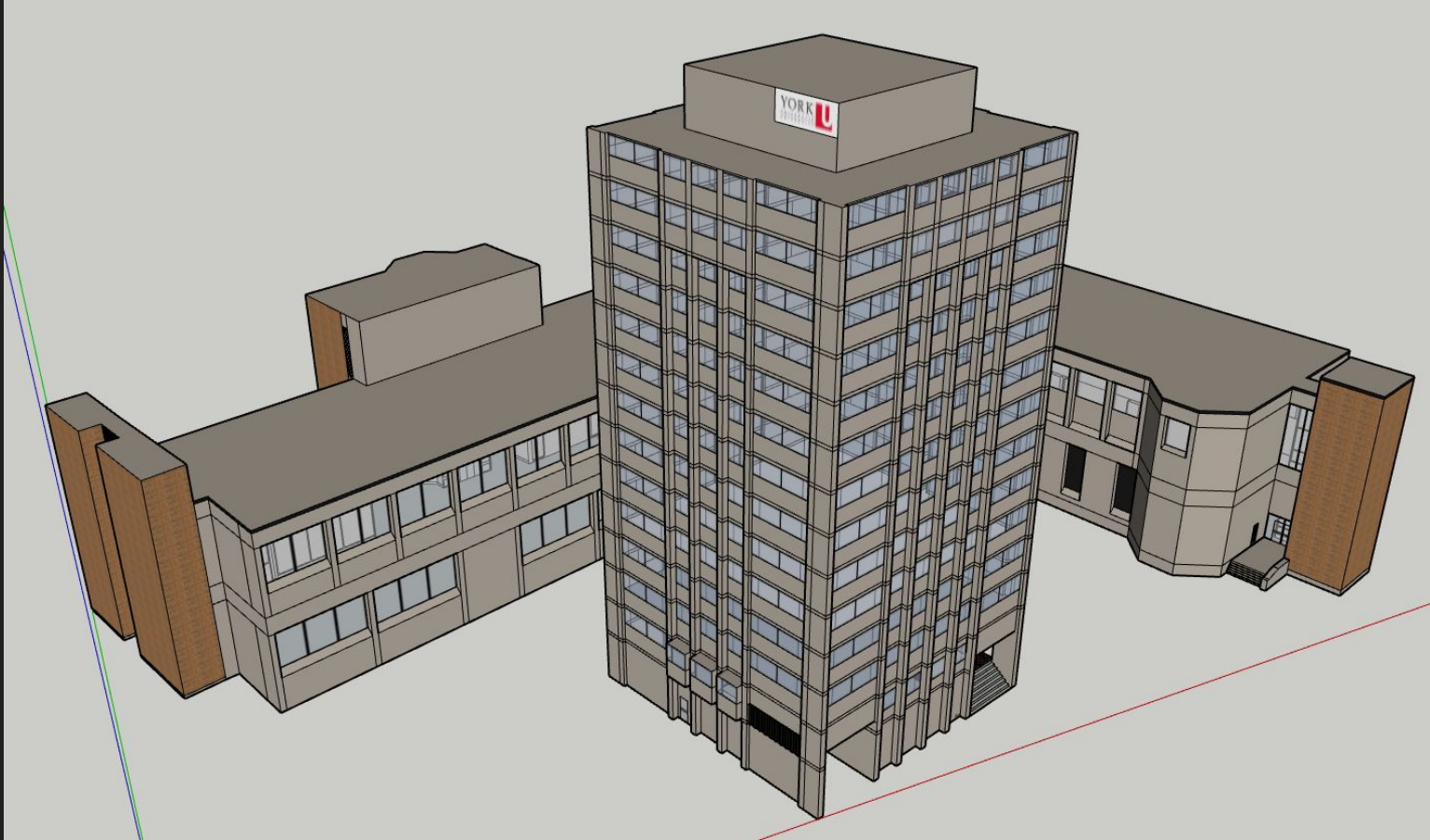


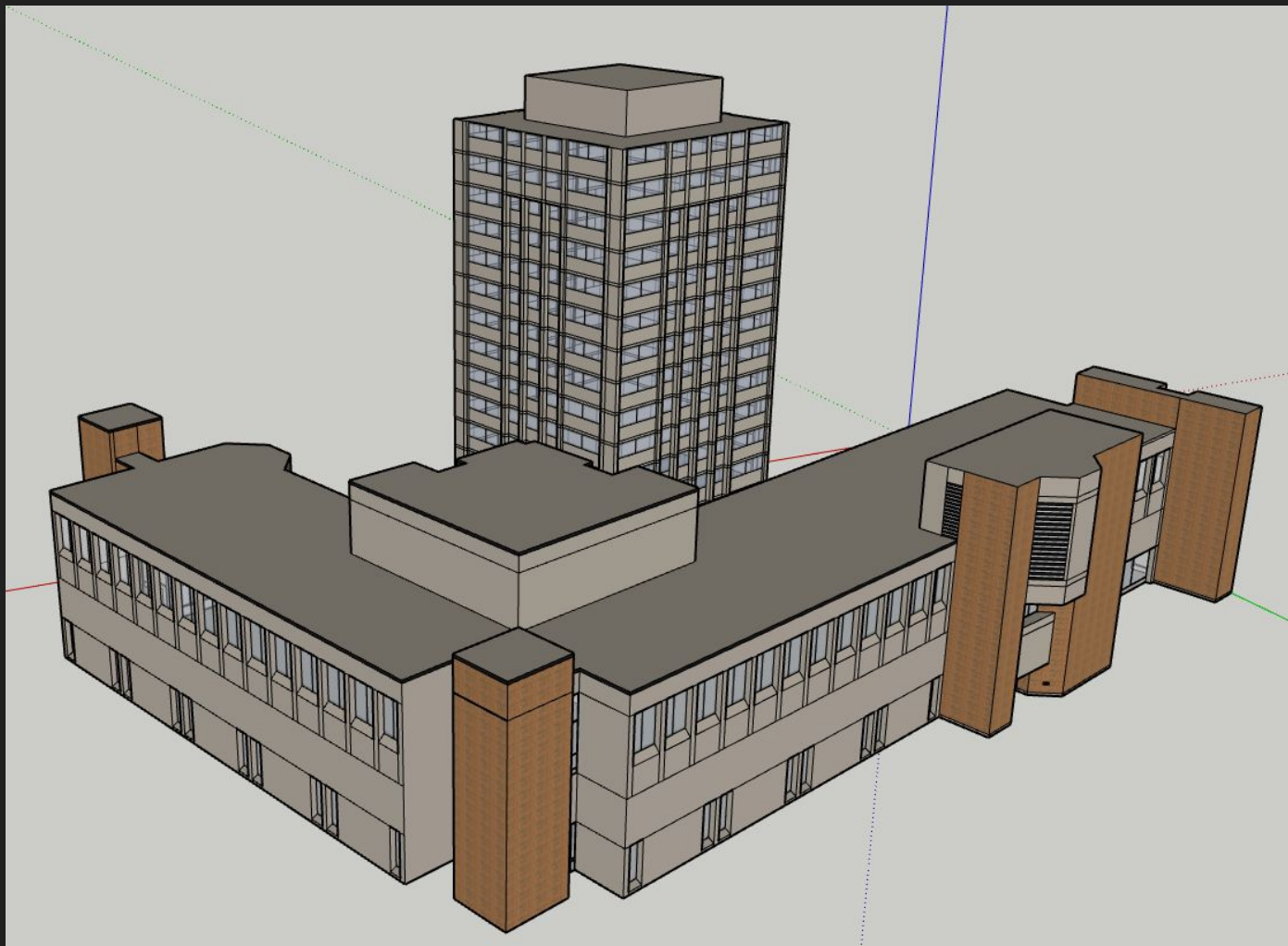
Seymour Schulich Building





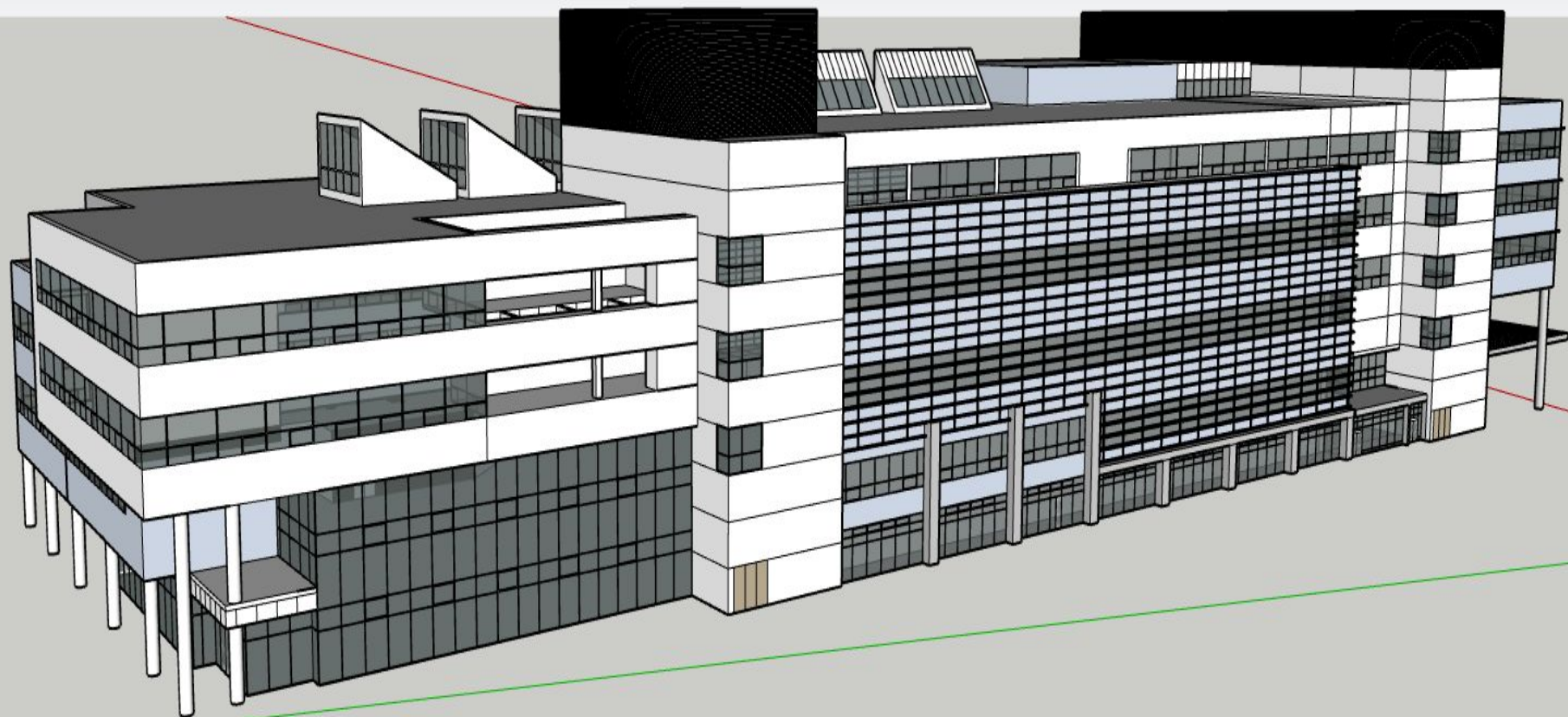
Stong Building + Residence





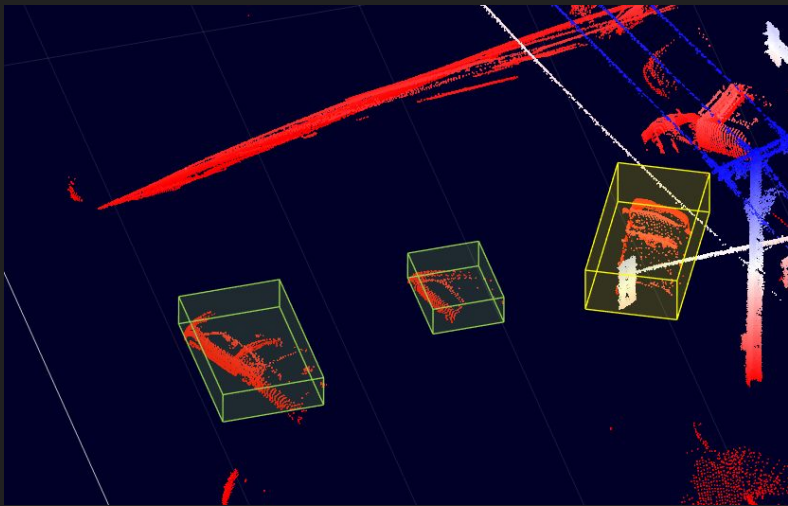
Victor Phillip Dahdaleh Building



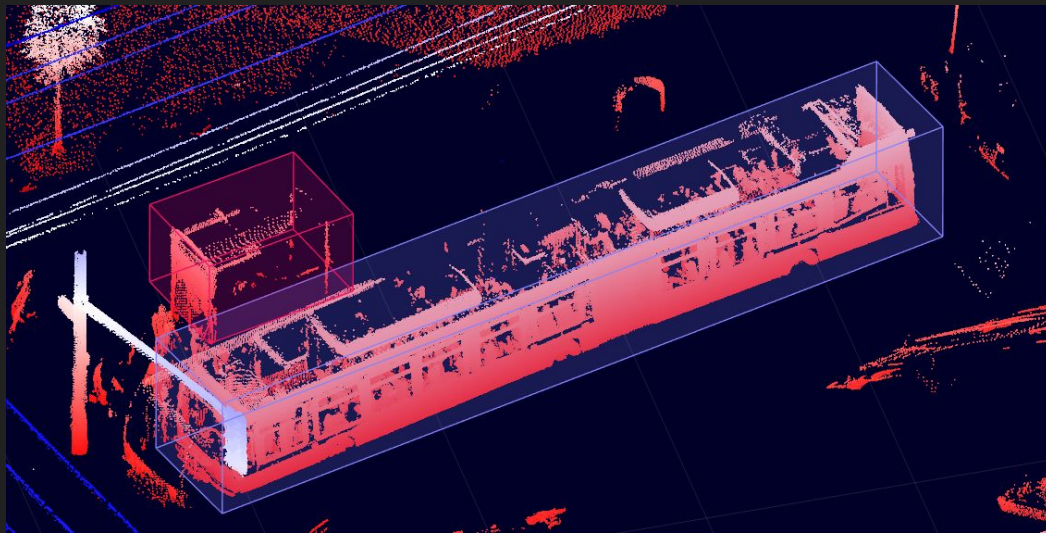


3D Annotations

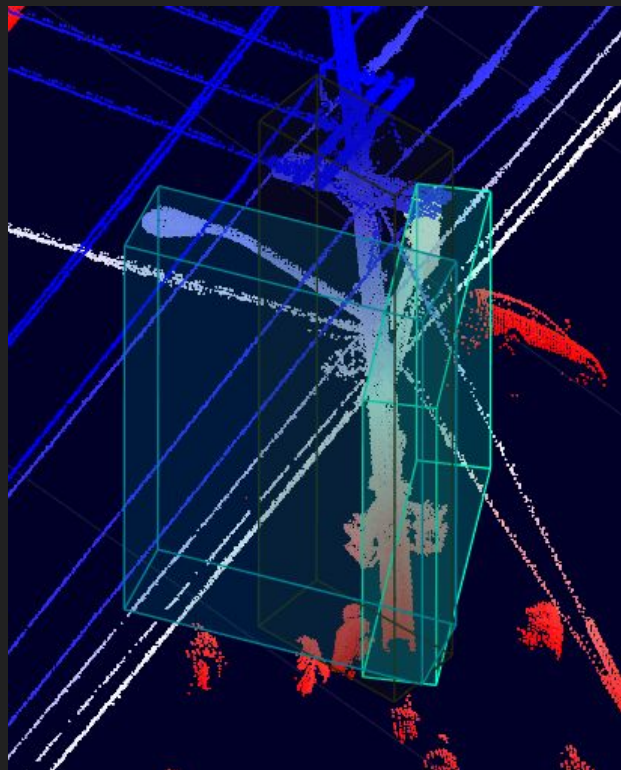
Cars



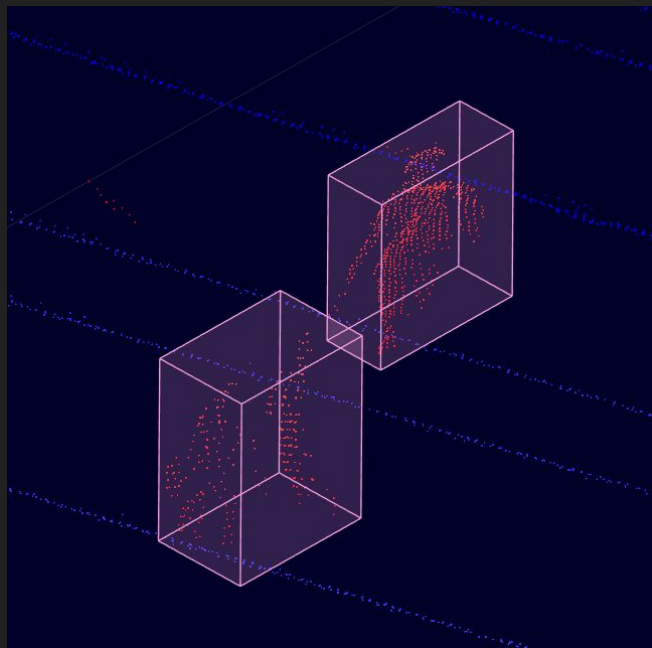
Bus and Bus Shelter



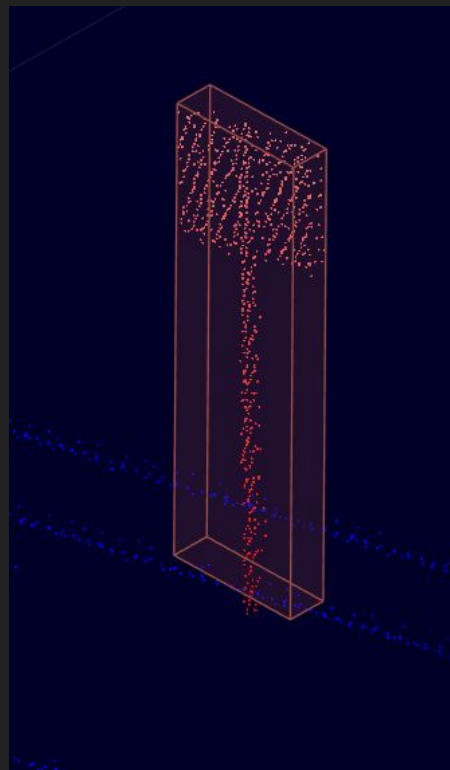
Utility Pole
Light Pole
Traffic Light



Pedestrian



Road Sign



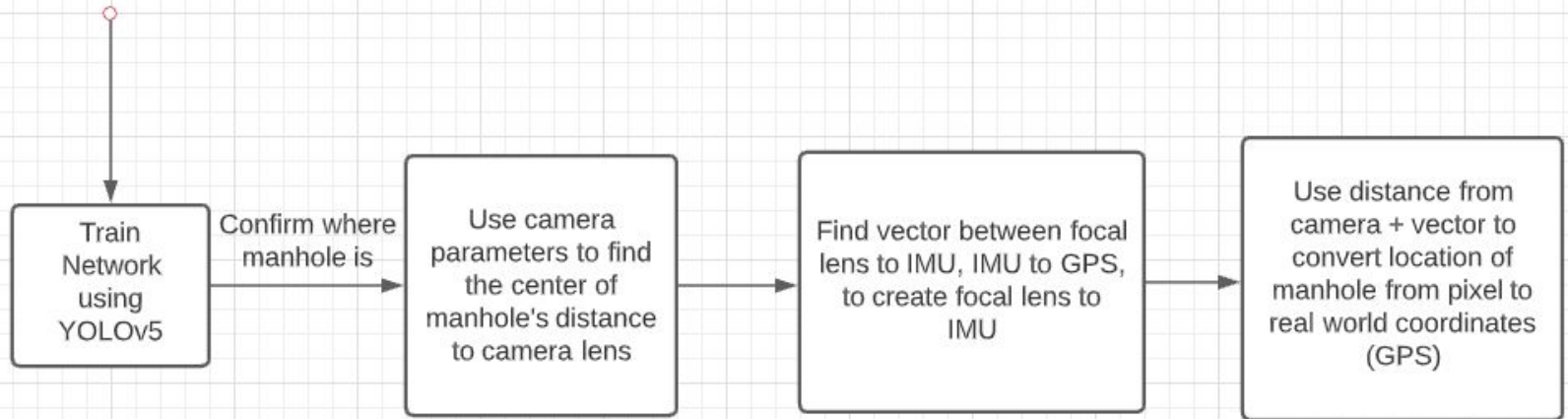
My Project

Given:

Camera Parameters

Manhole Images

Location of where Manhole Images were taken







$$F = (P \times D) / W$$

$$D' = (W \times F) / P$$

Where:

$F \rightarrow$ focal length

$P \rightarrow$ pixel width

$W \rightarrow$ manhole width

$D \rightarrow$ distance from camera lens

