

The Bends at Windermere

EDMONTON, ALBERTA

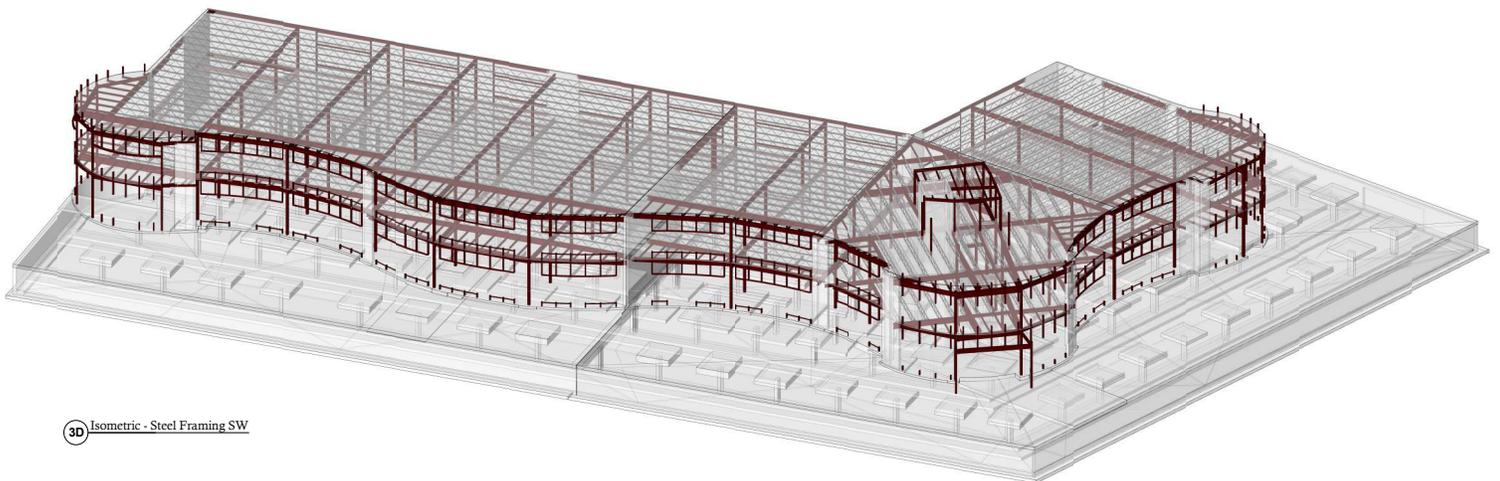
\$13.2 Million Budget | 97,000 sq.ft. total Commercial & Parkade | Conventional structural steel framing on 154 stalls of underground parking over 37,000 sq.ft. on one level | Green roof | scheduled to be completed late 2014



Our second project teamed up with Square Root Architecture brings a large-scale, high-quality professional services building to Edmonton's Windermere neighborhood.

With the building situated on a marginal site Ethos Engineering Inc. undertook to preserve the economic advantages of employing a shallow foundation system while satisfying sensitive geotechnical requirements and ensuring good foundation performance. Our development of an innovative and robust continuous beam-like strip footing system allowed for the schedule advantages of footing reinforcement prefabrication and continuous detail excavation while still achieving a very cost-effective foundation solution when compared to other available foundation options. It was estimated that Ethos' efforts to preserve the use of a shallow foundation system on the Bends at Windermere project resulted in a cost savings to the owner of about \$370,000 or about \$10.00 per sq.ft.

Our pursuit of practical, economic and accommodating structural solutions on this project were not limited to the structural foundations. When presented with the undulating and curvilinear architectural building facade concept we understood that the selection of an appropriate structural cladding support system was critical to preserving both the visual interest of the architectural concept and the project budget. Through application of our own cladding support detailing experience as well as consultations with the project General Contractor and a local structural steel supplier/erector we arrived at an integrated gravity and cladding support framing system that removed the expense related to complex loading of the open-web steel joist system and provided a curved cladding and facade support system that was cost-effective and accommodating.



3D Isometric - Steel Framing SW