



## Breadth Executive Summary

The first breadth focus will include analysis of the existing envelope system, and the impact a revised system will have on resisting overturning in the foundations. The second breadth focus will document standard ice-system placement techniques and preservation alternatives to improve system life span and maximize life-cycle cost.

### **Analysis: Revised Building Enclosure system composed of pre-manufactured masonry panels**

- ❖ Breadth focus will include use of pre-manufactured masonry panels on envelope mid-spans which currently uses light weight steel sandwich panels.

#### Goal of analysis:

- ❖ Increase Building weight to alleviate over turning occurrence in foundation system
- ❖ Reduce pre-cast foundation cost by minimize the need for 100 kip, 55'-0" tiebacks

### **Analysis: Ice floor construction/ Waste Recovery**

- ❖ Breadth focus will investigate the current installation procedures for the Sears Centre ice-rink. "Best practices will be evaluated to determine the installation method that maximizes production and minimizes congestion for ice system installation. Waste reduction and recovery measures will be evaluated as an effort to improve performance and extend the life span of the system.