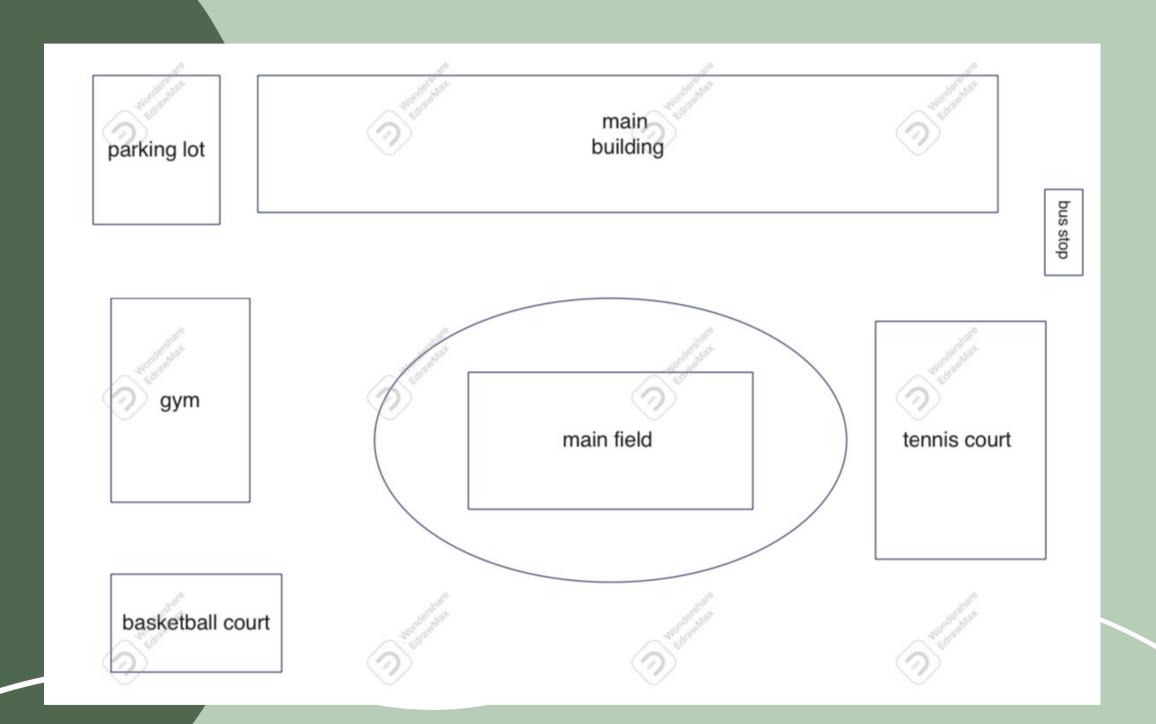
Seismic Upgrade JO

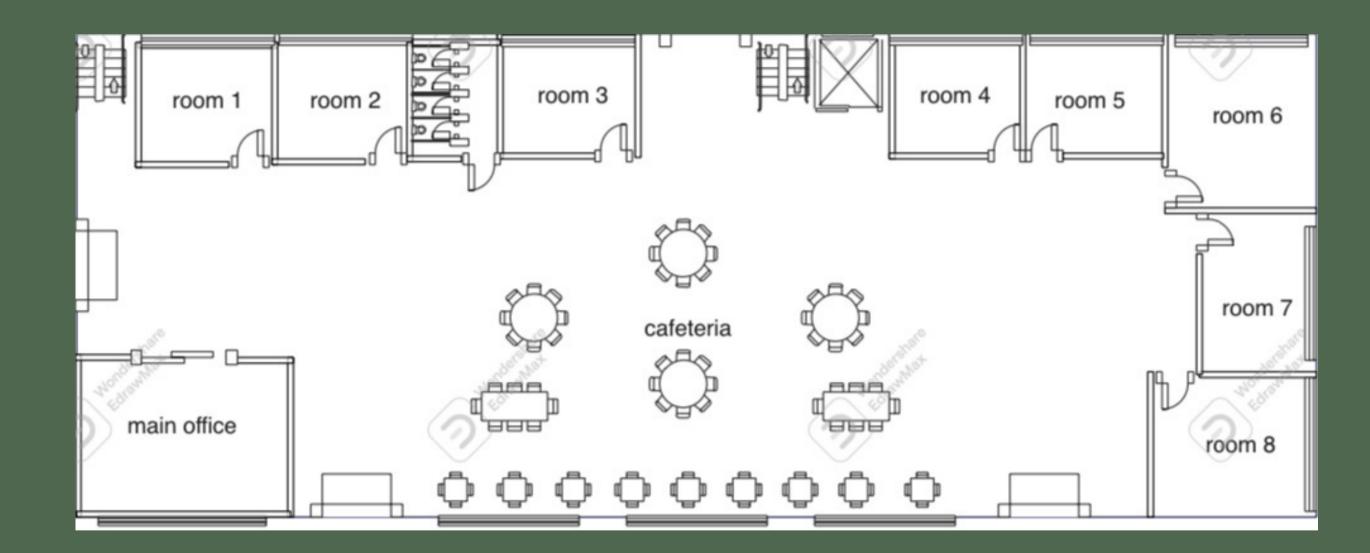
-Queenie Salazar

Bird's Eye View

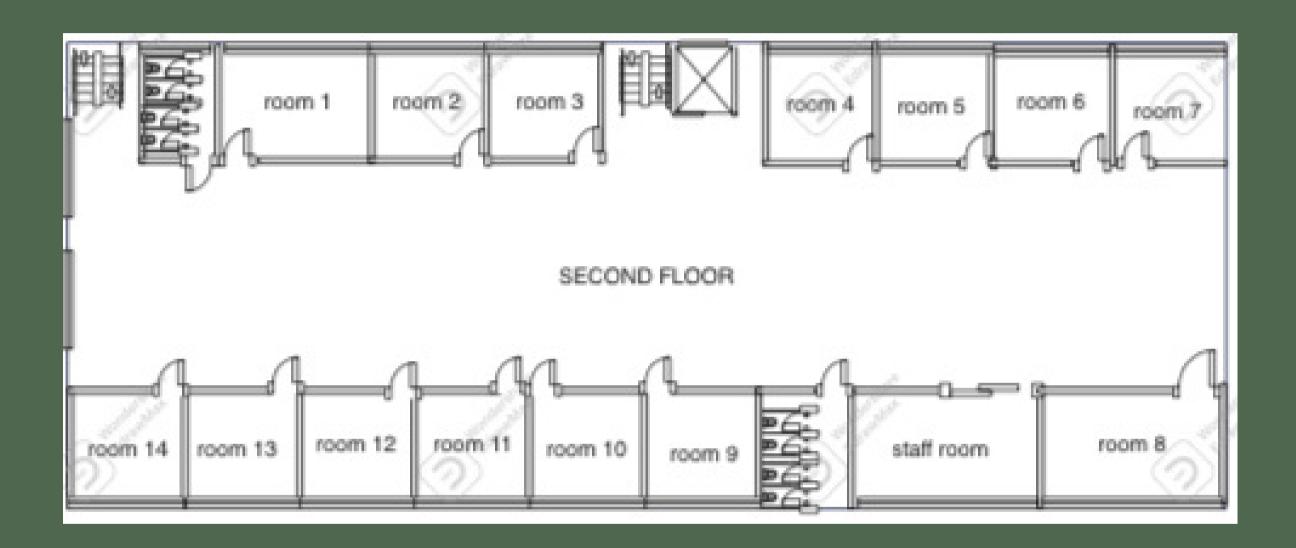


Floon Plan

Finst



Second



Thind Floor

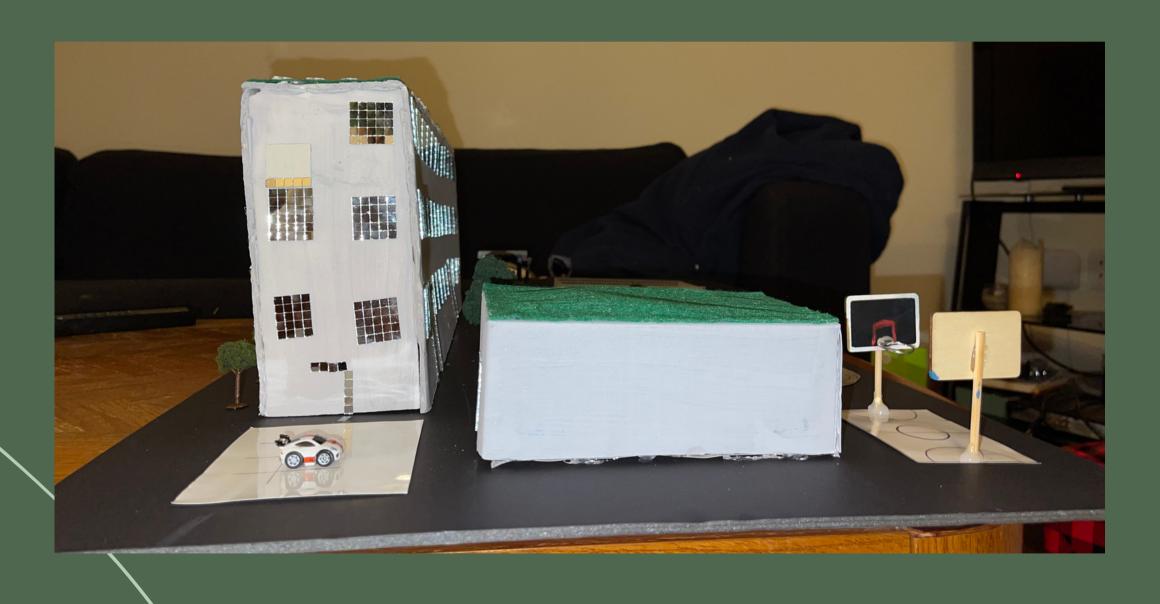




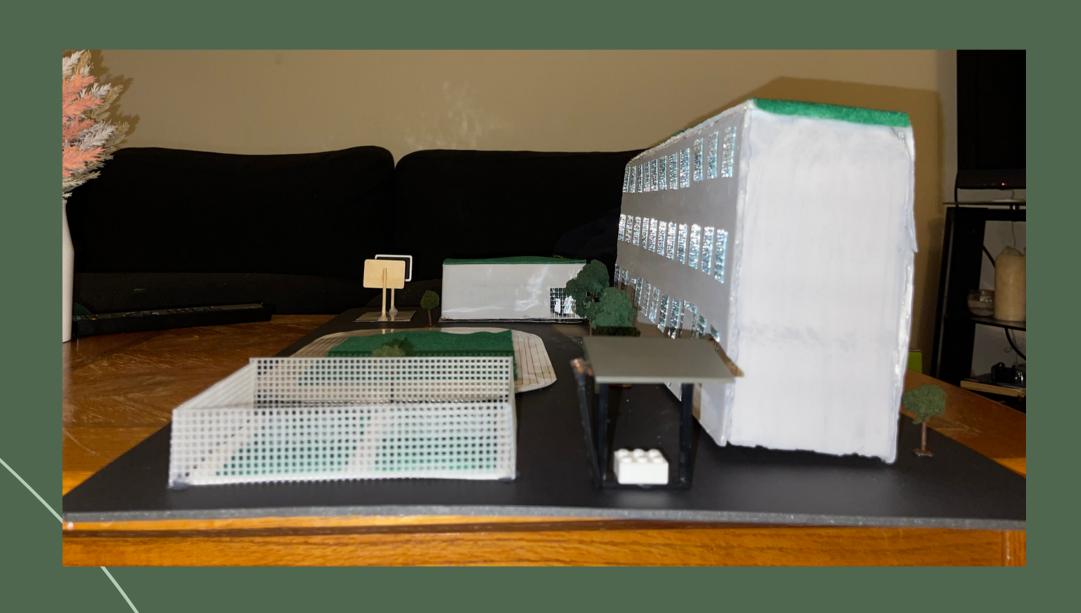
41st Ave



St. George



Fraser St.



43nd Ave



43rd Ave

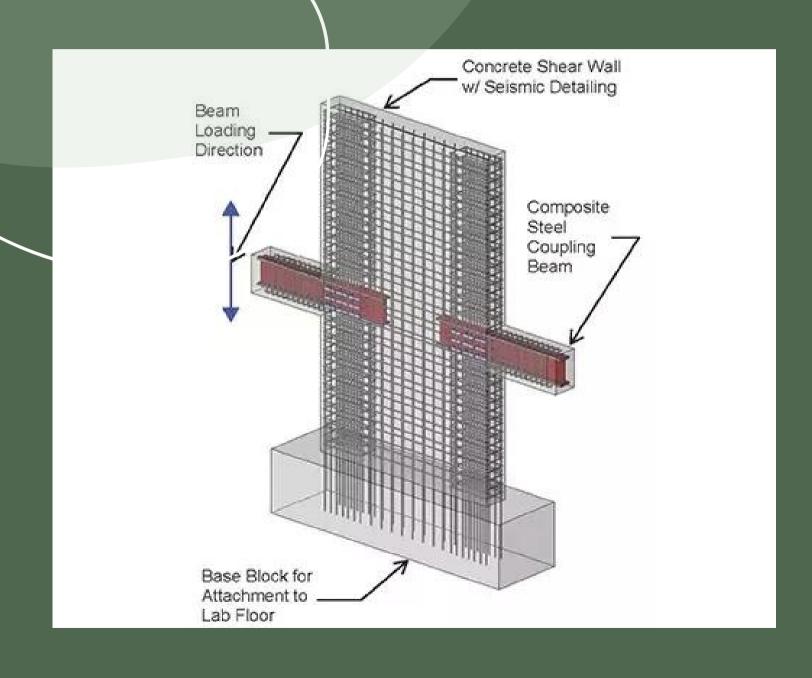
Fraser St.



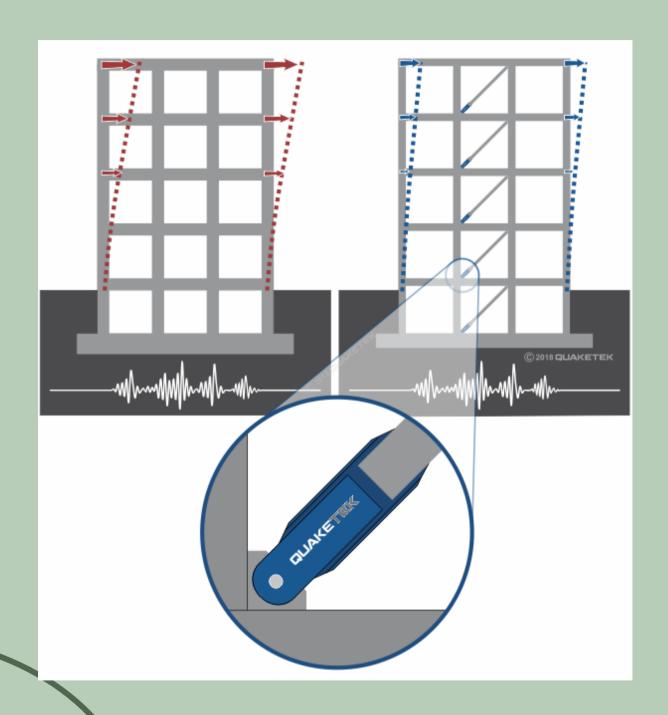
St. George

41st Ave

Seismic Adaptations



Shear walls are a useful building technology that can help transfer earthquake forces. Made of multiple panels, these walls help a building keep its shape during movement. Shear walls are often supported by diagonal cross braces made of steel. These beams can support compression and tension, helping to counteract pressure and push forces.



Friction Dampers act as a reusable fuse (no need for replacement after an earthquake) which simultaneously dissipate energy. In doing so, the building is able to withstand an earthquake without sustaining significant damage to its structure.

Amenities/Function

Ventilation And Air Quality

Several studies show that students are not able to focus and feel attentive in classrooms where the air quality is poor. Additionally, bacteria, viruses and many other pathogens can also multiply in the school premises that could have negative effects on the health. Thus, in order to offer quality education to students, it is vital to provide a healthy and safe environment with proper ventilation.

Managing Waste Implementing waste management plan. food waste bins. Recycling program and intensive green roofs, more sustainability all throughout the school

Green Roofs

Green roofs offer added benefits such as reducing and filtering stormwater runoff: absorbing pollutants and carbon dioxide: Putting trash, recycles, providing natural habitat; and in the case of serving as recreational green space.

Amenities/Function

Indoor Spaces:

Classrooms (Science Labs, Math, and Language Facilities)
Staffroom
Main Office
Gym
Cafeteria
Library
Meditation Centre
Common Area

Outdoor Spaces:

Multipurpose Field Tennis Court Basketball Court Parking lot

Resources

Water Sources

Water conservation initiatives and the installation of water-efficient equipment, such as low-flow technologies (toilets and faucets,) can help the school use less water overall and increase its water efficiency. Implemented some sensor taps.

Effecient Energy

Insulation, energyrecovery systems, and energy-efficient lighting (LED) and appliances are among elements that can be added to a school to help it use less energy overall. Solar panels installed.

Energy Sources

Solar Energy

Solar power systems derive clean, pure energy from the sun. Installing solar panels helps combat greenhouse gas emissions and reduces our collective dependence on fossil fuel. It can also reduce the school's energy cost.

Rainwater Harvesting

Rainwater harvesting is the collection and storage of rain, rather than allowing it to run off. Rainwater is collected from a roof-like surface and redirected to a tank so that it seeps down and restores the ground water. Its uses include watering gardens, irrigation, etc. The harvested water can also be committed to longerterm storage or groundwater recharge.

Thank you!