
WILLIAM COOK ELEMENTARY SCHOOL SEISMIC UPGRADE & PARTIAL REPLACEMENT/ADDITION

CONSTRUCTION START:	July 2018
TARGET COMPLETION:	September 2020
PROJECT BUDGET:	\$14.27 Million
FUNDING SOURCES:	Capital Plan - \$12.56 4Million + SD38 Contribution \$1.36 Million + Annual Facility Grant \$350,000
CONSULTANT:	KMBR Architects
GENERAL CONTRACTOR:	Heatherbrae Builders Inc.
PROJECT MANAGER:	Richmond Project Team Enquiries: Sam Yoo, 604-275-7000 ext. 4100

BACKGROUND

William Cook Elementary School originally opened in 1954 with renovations and additions in 1957, 1962, 1964, 1971 and 1999 to serve Kindergarten to Grade 7. School District No. 38 (Richmond) has confirmed that Cook Elementary is needed for the long term as part of the overall long-range strategic planning.

Cook Elementary, which consists of four distinct blocks ("Block 5" consists of five portable classrooms), was seismically assessed initially using Version 2 of APEGBC's Seismic Retrofit Guidelines. The entire school has a high risk of liquefaction potential requiring substructure upgrades, with Block 1 (1954 Original School) having a Seismic Risk Category H1 rating and Block 2 (1957, 1962, 1964 & 1971 Classrooms) having a Seismic Risk Category H2 rating, requiring superstructure seismic resistance upgrades.

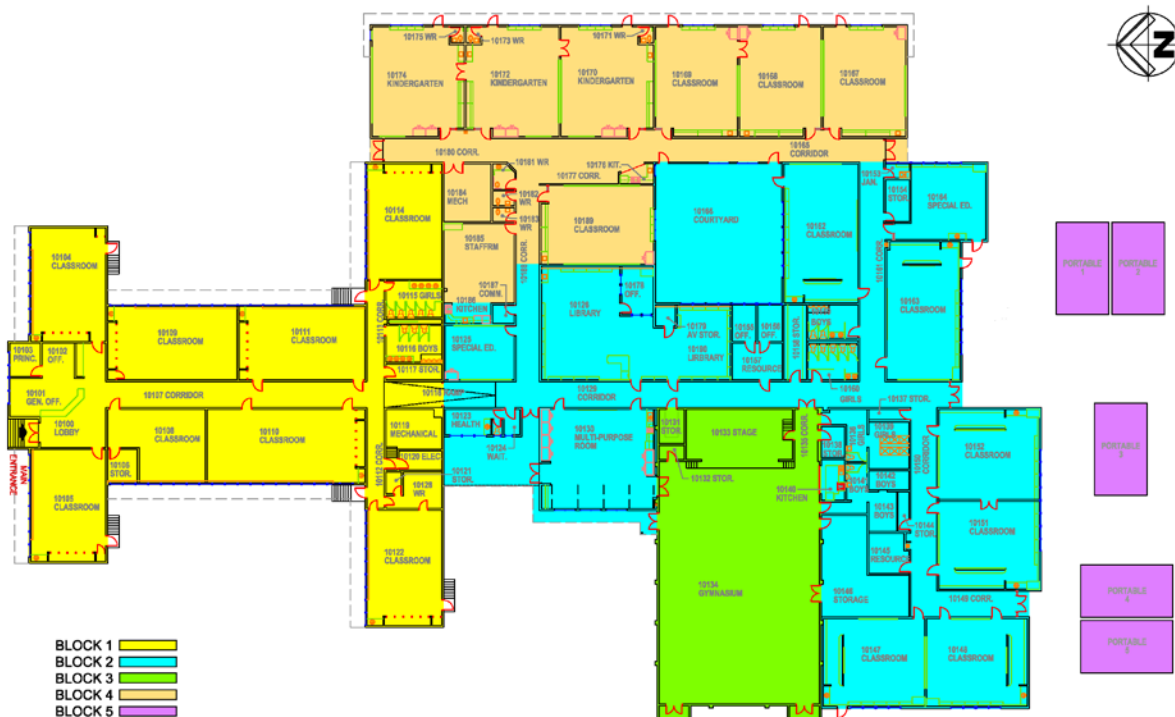
PROJECT SCOPE

- Structural seismic resistance upgrade to Blocks 2, 3 and 4 of the school:
 - Block 2 (1957, 1962, 1964 & 1971 Classrooms) involving converting some of the existing wood stud walls to plywood shear walls, adding new plywood to existing roof with drags/chords as well as upgrading foundations with grade beams added for liquefaction mitigation;
 - Block 3 (1957 Gymnasium) adding grade beams to tie foundation together.
 - Block 4 (1999 Addition) grade beams to tie the foundation together.
- Block 1 (1954 Original School) demolished and replaced by a single storey addition in the rear, which will expand the school by four classrooms (20K/75E spaces).
- Block 5 portables will be relocated, used as swing space and demolished at the end.

- Non-structural seismic resistance upgrade to the entire school (added restraint of lighting, HVAC, plumbing and cabinets).
- Key feature work:
 - New parking lot with pick-up & drop-off zones;
 - New roofing throughout;
 - New security shutters to exterior windows throughout;
 - New entrance, administration offices & staff room;
 - Upgrading of wall/floor/ceiling finishes in existing building blocks;
 - Upgrading of finishes on walls affected by the structural work in classrooms and other spaces;
 - Upgrading of kitchen off gym; and
 - Minor upgrades to exterior building soffits and building re-painting (except gym mural).

PROJECT STATUS

- The Ministry of Education approved the Project Definition Report and signed the Capital Project Funding Agreement for the seismic upgrade of Cook Elementary 27 April 2017, funded from the Seismic Mitigation Program (SMP).
- Portables relocated and site for new addition excavated and preloaded over Summer 2018.
- Construction underway on the addition, as well as on perimeter concrete grade beams.



Seismic Block Map - Cook Elementary School