RECAPP Facility Evaluation Report

Calgary School District #19



Rideau Park Elementary / Junior High School B2758A Calgary

Report run on: March 16, 2011 4:03 PM

Facility Details

- Building Name: Rideau Park Elementary / Ju Address: 829 Rideau Road S. W. Location: Calgary
- Building Id:B2758AGross Area (sq. m):4,011.60Replacement Cost:\$10,756,704Construction Year:1930

Evaluation Details

Evaluation Company: Golder Associates Ltd.

Evaluation Date: November 2 2010

Evaluator Name: Meaghen Derksen

Total Maintenance Events Next 5 years:\$2,387,9005 year Facility Condition Index (FCI):22.20%

General Summary:

Rideau Park Elementary and Junior High is a K-9 school with an enrollment of 464 students in the 2010-2011 school year.

The original two and a half storey 3360.7 m2 building (ie., lowest level is not fully above ground level) was constructed in 1930.

A one-storey 650.9 m2 addition was constructed northeast of the original building in 1962.

A one-storey 52.7 m2 addition was constructed as a second floor above the washrooms, P.E. Offices, foyer and gym storage in 1972.

A 12.1 m2, one-storey mechanical room was constructed on the south end of the original building in 1976.

The current gross building area is reported to be approximately 4077 m2.

Renovations to various areas of the building were completed in 1962, 1970, 1986, 1993, 2006, and 2007.

Structural Summary:

Structural drawings were not available for review. The building is constructed of cast-in-place ("CIP") concrete foundations supporting CIP concrete floors and masonry block walls.

The building structure is generally in good condition overall.

Envelope Summary:

Exterior walls are primarily clad in brick veneer.

The exterior windows, both fixed and operable, were upgraded to vinyl clad windows in 2000.

The exterior doors are painted wood in wood frames.

All roof assemblies were replaced in 1983 and consist of conventional asphalt and gravel built-up roof ("BUR") assemblies.

The building envelope is generally in acceptable overall condition.

Interior Summary:

The interior flooring consists of terrazzo and ceramic tile in the student washrooms on the lower level; sheet vinyl and vinyl tile in the majority of the classrooms and corridors; and carpet in the Library and offices. Painted and unpainted concrete floors are present in the mechanical rooms and storage closets throughout. The gymnasium and stage have wood strip flooring.

Interior walls consist mainly of painted gypsum, painted concrete and masonry units. Other interior walls consist of wood paneling, and unpainted concrete.

Ceiling finishes are mainly painted gypsum or hardboard ceiling tiles glued to gypsum. The corridors and music room have suspended T-bar ceilings with laid-in acoustic tiles.

Interior finishes are generally in acceptable condition overall.

Mechanical Summary:

Domestic water distribution is copper and waste water piping (storm and sanitary) is a combination of cast iron, galvanized steel and ABS.

Domestic hot water heating is provided by a "State" 75 gallon natural gas fired hot water heater.

Heating is provided by two "Rite" natural gas fired steam boilers (1800 MBTU ea.) and associated equipment (condensate tank) located in the boiler room supplying perimeter finned tube radiation, fan coil units, unit ventilators, unit heaters and air handling units.

Ventilation is provided via the aforementioned unit ventilators and air handling units in combination with exhaust fans.

Fire protection is provided by standpipes and fire hoses located in corridors in the 1930 Section of the school.

The mechanical systems are generally in acceptable overall condition.

Electrical Summary:

The electrical supply is fed underground from a utility-owned pad mounted 300 kVa transformer with buried conductors leading to the main electrical panel. The main electrical switch gear and central distribution panel are original Federal Pioneer models rated at 120/208 volt, 800 amp, 3-phase, 4-wire service. The building is equipped with branch circuit panelboards throughout and the distribution wiring is copper.

Interior lighting throughout the building is fluorescent T-8 fixtures with electronic ballasts. Exterior lighting is high pressure sodium controlled by time clock. Exit lighting is by incandescent fixtures and emergency lighting is provided by a central battery bank with remote heads throughout.

The fire protection system is a Simplex fire alarm system. Intrusion alarming is provided by a Silent Knight/Regency keyed alarm system with exterior door contacts and motion detectors.

Receptacles in several rooms are <1m from service sinks and not ground fault protected. There is significant hazardous use of extension cords and power bars throughout the school due to a lack of power receptacles. Code upgrades are recommended within the timeframe of this report.

The electrical system is generally in acceptable overall condition.

Rating Guide			
Condition Rating	Performance		
1 - Critical	Unsafe, high risk of injury or critical system failure.		
2 - Poor	Does not meet requirements, has significant deficiencies. May have high operating/maintenance costs.		
3 - Marginal	Meets minimum requirements, has significant deficiencies. May have above average operating maintenance costs.		
4 - Acceptable	Meets present requirements, minor deficiencies. Average operating/maintenance costs.		
5 - Good	Meets all present requirements. No deficiencies.		
6 - Excellent	As new/state of the art, meets present and foreseeable requirements.		

S1 STRUCTURAL

A1010 Standard Foundations*

Cast in place ("CIP") reinforced concrete foundation walls, and spread footings support the building structures throughout.

<u>Rating</u>	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

A1030 Slab on Grade*

CIP concrete floor slabs on grade are present in the lower levels throughout.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	1930	0	MAR-11

A2020 Basement Walls (& Crawl Space)*

CIP reinforced concrete walls and concrete masonry units (CMU).

Rating	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

B1010.01 Floor Structural Frame (Building Frame)*

Original building consists of suspended CIP reinforced concrete floors. The wood floor of the stage has tongue & groove (T&G) wood decks on wood strapping or joists bearing on concrete slabs on grade.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	1930	0	MAR-11

B1010.02 Structural Interior Walls Supporting Floors (or Roof)*

CIP reinforced concrete walls and load-bearing CMU throughout.

Rating	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

B1010.03 Floor Decks, Slabs, and Toppings* - 1930 Section

Suspended reinforced CIP concrete slabs present in the 1930 Section.

Rating	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

B1010.03 Floor Decks, Slabs, and Toppings* - 1976 Addition

Concrete topping on steel deck in 1976 Addition.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	1976	0	MAR-11

B1010.07 Exterior Stairs*

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1930	0	MAR-11

Event: Provide Handrail

Concern: No handrail provided at the main entrance stairs. **Recommendation:** Provide a code compliant handrail.

Туре	<u>Year</u>	<u>Cost</u>	Priority
Code Upgrade	2011	\$1,500	Medium

Updated: MAR-11

B1010.09 Floor Construction Fireproofing*

Sprayed fireproofing on ceiling in Boiler Room. Non-combustible construction elsewhere.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

B1010.10 Floor Construction Firestopping*

Fire stop present in majority of floor penetrations from mechanical and electrical rooms throughout. Fire stop sealant at some floor penetrations is absent, (installation of ULC-approved fire stop in penetrations < \$1000).

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

B1020.01 Roof Structural Frame*

The 1962 Addition roof structure have precast concrete panels supported on heavy timber beams. The 1976 Addition has steel decking supported on steel beams and joists.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	0	MAR-11

B1020.04 Canopies*

Wood framed canopies over the 1962 Addition east emergency exit doors.

Rating	Installed	Design Life	Updated
5 - Good	1962	0	MAR-11

B1020.06 Roof Construction Fireproofing*

Concealed.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	MAR-11

B1020.07 Roof	Construction	Firestopping*
---------------	--------------	---------------

Concealed.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	MAR-11

S2 ENVELOPE

B2010.01.02.01 Brick Masonry: Ext. Wall Skin*

Brick cladding on exterior throughout the 1930 Section and the 1962 and 1972 Additions.

Rating	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

B2010.01.11 Joint Sealers (caulking): Ext. Wall**

Polyurethane joint sealers are present around exterior windows, doors, and expansion joints throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	2000	20	MAR-11

Event: Replace Exterior Joint Sealant (~755 m)

Туре	Year	Cost	Priority
Lifecycle Replacement	2020	\$22,600	Unassigned

Updated: MAR-11

B2010.01.13 Paints (& Stains): Exterior Wall**

Painted accent band on exterior of the 1962 Addition. Painted wood framed canopies on east side of the 1962 Addition. Painted exterior CMU on the 1976 Addition.

Rating	Installed	Design Life	Updated
4 - Acceptable	2006	15	MAR-11

Event: <u>Repaint Exteriors (~116 m2)</u>

Туре	Year	Cost	Priority
Lifecycle Replacement	2021	\$2,800	Unassigned

B2010.01.13 Paints (& Stains): Exterior Wall** - 1930 Section

Painted precast accent parapet on the original building.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	1930	15	MAR-11

Event: Repaint Parapet (~38 m2)

Concern: Significant peeling and deterioration of paint on roof parapet. **Recommendation:** Repaint roof parapet.

Туре	Year	Cost	Priority
Failure Replacement	2011	\$1,200	Medium

Updated: MAR-11

B2010.02.03 Masonry Units: Ext. Wall Const.*

Exposed masonry block wall construction on 1976 Addition.

Rating	Installed	Design Life	Updated
5 - Good	1976	0	MAR-11

B2010.03 Exterior Wall Vapor Retarders, Air Barriers, and Insulation*

Concealed.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	MAR-11

B2010.05 Parapets*

Precast concrete roof parapets around perimeter of original building.

Rating	Installed	Design Life	Updated
3 - Marginal	1930	0	MAR-11

Event: Replace Sections of Precast Parapet

Concern:

Sections of precast coping are loose, cracked or have fallen off.

Recommendation:

Replace and/or repair sections of precast that are loose, cracked, or have fallen off.

Туре	Year	Cost	Priority
Repair	2011	\$2,500	Medium

B2010.06 Exterior Louvers, Grilles, and Screens*

Air intake louvers and vents on exterior of the mechanical rooms.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

B2010.09 Exterior Soffits*

Painted concrete and/or wood framing on exterior canopies and recessed doors.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	0	MAR-11

B2020.01.01.06 Vinyl, Fibreglass & Plastic Windows**

Vinyl clad sealed double pane windows throughout. Combination of operable and fixed units.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
5 - Good	2000	40	MAR-11

Event: Replace Vinyl Windows (~132 m2)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2040	\$135,100	Unassigned

Updated: MAR-11

B2030.01.10 Wood Entrance Door**

Painted wood entrance doors throughout. Main entrance doors have glass inserts.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	1930	30	MAR-11

Event: Replace Entrance Doors (2 units)

Concern:

Main entrance doors do not fully close without force and jam on frame and threshold. **Recommendation:** Replace west entrance doors.

•

Туре	Year	Cost	Priority
Failure Replacement	2011	\$3,900	Low

Updated: MAR-11

Event: Replace Wood Entrance Doors (~10 units)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$19,300	Unassigned

B2030.02 Exterior Utility Doors**

Painted wood utility doors provided for emergency egress.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	40	MAR-11

Event: Replace Wood Utility Doors (~2 units)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$1,800	Unassigned

Updated: MAR-11

B3010.01 Deck Vapor Retarder and Insulation*

Concealed.

Rating	Installed	Design Life	Updated
4 - Acceptable	1983	0	MAR-11

B3010.04.01 Built-up Bituminous Roofing (Asphalt & Gravel)**

All roof sections have conventional asphalt and gravel built-up roof (BUR) assemblies.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	1983	25	MAR-11

Event: Replace BUR Roofing (~1631 m2)

Concern:

Felt lifting and significant amounts of asphalt exposed. Localized membrane blisters and ridging throughout. Debris and vegetation present. **Recommendation:**

Replace BUR assemblies throughout.

Туре	<u>Year</u>	<u>Cost</u>	Priority
Failure Replacement	2011	\$224,900	Medium

B3020.02 Other Roofing Openings (Hatch, Vent, etc)*

Two roof access hatches with internal metal access ladders, roof vents, roof drains, and mechanical curbs.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	1983	0	MAR-11

Event: Repair Access Ladders (2) and Safety Railing

Concern:

Access ladders to roof are too close to the walls and do not extend the appropriate length above the hatch. Safety railing at the 1962 Addition roof hatch is loose and poses a safety hazard.

Recommendation:

Extend roof access ladders to the appropriate height within the roof hatch curb.

Extend wall anchors to allow proper foot placement on the upper rungs.

Tighten loose safety railing.

Туре	Year	<u>Cost</u>	Priority
Repair	2011	\$2,500	Low

S3 INTERIOR

C1010.01 Interior Fixed Partitions*

Painted concrete, masonry block, and stud frame partitions with gypsum wall board between most offices, classrooms, and trade storage areas.

Rating	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

C1010.03 Interior Operable Folding Panel Partitions**

Folding partitions divide classrooms 115 & 116, 209 & 210, and 216 & 217 in the 1930 Section.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	2006	30	MAR-11

Event: Replace Folding Partitions (~45 m2)

Туре	Year	Cost	<u>Priority</u>
Lifecycle Replacement	2036	\$61,900	Unassigned

Updated: MAR-11

C1010.05 Interior Windows*

Single-pane windows in metal frames are present at the administration office, library office, and the classroom corridor walls throughout the 1930 Section.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
5 - Good	1930	0	MAR-11

C1010.06 Interior Glazed Partitions and Storefronts*

Interior glazed partitions are present at vestibules at the southeast entrance of the 1930 Section and the west entrance of the 1962 Addition.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1930	0	MAR-11

C1010.07 Interior Partition Firestopping*

Fire sealant provided around penetrations through partitions in the boiler room.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	MAR-11

C1020.01 Interior Swinging Doors (& Hardware)*

Hollow core wood doors with painted wood frames. Lever-type handsets on the majority of classroom doors.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

C1020.03 Interior Fire Doors*

Original wood or wood and metal doors in main stairwells, boiler room and mechanical rooms throughout original building.

Rating	Installed	Design Life	Updated
3 - Marginal	1930	0	MAR-11

Event: Install Corridor Doors (~6 units)

Concern:

Fire rated door assemblies not provided at the stairwells on the main floor and the north stairwell on the second floor of the 1930 Section.

Recommendation:

Install ULC-approved and stamped fire rated door assemblies at stairwell locations.

Туре	Year	Cost	Priority
Repair	2011	\$12,000	Low

Updated: MAR-11

Event: Install Door Hold open Devices (~6 units)

Concern:

Fire doors on lower floor stairwells and in the 1962 Addition are being held open with door stops or hooks.

Recommendation:

Install electrically supervised door hold open devices on corridor fire doors.

Туре	Year	Cost	Priority
Repair	2011	\$21,000	Low

Updated: MAR-11

Event: Upgrade Doors to Fire Rated Assemblies (~11 units)

Concern:

Fire doors at the boiler room, basement storage areas, and in stairwells at corridors are not rated or tagged as being rated to ULC/CSA standards.

Recommendation:

Replace with ULC-approved and stamped fire rated door assemblies.

Туре	Year	<u>Cost</u>	Priority
Code Upgrade	2011	\$10,000	Low

C1030.01 Visual Display Boards** - SMART Boards

SMART boards are provided in some classrooms.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	2008	20	MAR-11

Event: Replace SMART Boards (~5 units)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2028	\$37,500	Unassigned

Updated: MAR-11

C1030.01 Visual Display Boards** - Tack & White Boards

Wood framed cork boards and white boards in classrooms, and library throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	1982	20	MAR-11

Event: Replace Tack Boards (~65 units)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$44,700	Unassigned

Updated: MAR-11

Event: Replace White Boards (~43 units)

Туре	<u>Year</u>	Cost	Priority
Lifecycle Replacement	2014	\$63,400	Unassigned

Updated: MAR-11

C1030.02 Fabricated	Compartments	(Toilets/Showers)**
---------------------	---------------------	---------------------

Prefinished metal toilet compartments in student washrooms.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1983	30	MAR-11

Event: <u>Replace Toilet Compartments (~12 stalls)</u>

Туре	<u>Year</u>	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$16,000	Unassigned

Updated: MAR-11

C1030.08 Interior Identifying Devices*

Classroom numbers and name plates, interior signage, wall mounted emergency egress plans etc. throughout.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1983	0	MAR-11

C1030.10 Lockers**

Prefinished metal lockers in corridors on the lower floor and upper floors, and in student changerooms throughout. Combination of full-height, half height, and tote lockers.

Rating	Installed	Design Life	Updated
4 - Acceptable	1983	30	MAR-11

Event: Replace Lockers (~223 units)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$136,300	Unassigned

Updated: MAR-11

C1030.12 Storage Shelving*

A variety of painted and stained wood storage shelves throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

C1030.14 Toilet, Bath, and Laundry Accessories*

Mirrors, liquid soap dispensers, waste baskets, and paper towel and toilet paper dispensers in all washrooms.

Rating	Installed	Design Life	Updated
4 - Acceptable	1983	0	MAR-11

C2010 Stair Construction*

CIP concrete stairs to lower floor, Boiler Room, and second floor. Wood framed stairs at front of stage.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1930	0	MAR-11

C2020.01 Tile Stair Finishes*

With the exception of the stairs to the Boiler Room, Quarry tile finish is present on runs and risers on all stairs in the 1930 Section.

<u>Rating</u>	Installed	Design Life	Updated
3 - Marginal	1930	0	MAR-11

Event: Replace Quarry Tile (~25 m2)

Concern:

Quarry tile on stairs has significant deterioration. **Recommendation:** Replace guarry tile flooring in stairwells.

Туре	Year	Cost	Priority
Failure Replacement	2011	\$8,000	Medium

Updated: MAR-11

C2020.05 Resilient Stair Finishes**

Hardened rubber floor finish on stairs to Home Economics room, Music room, and Art room.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1992	20	MAR-11

Event: Replace Rubber Stair Finish (~3 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$1,000	Unassigned

Updated: MAR-11

C2020.08 Stair Railings and Balustrades*

Painted metal pipe railing on stairs to boiler room and in stairwells throughout.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

C3010.02 Wall Paneling**

Wood paneling on the stage walls.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	30	MAR-11

Event: Replace Wood Paneling (~48 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$4,400	Unassigned

C3010.06 Tile Wall Finishes**

Ceramic tile on walls around urinals in the student washrooms.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1930	40	MAR-11

Event: Replace Ceramic Wall Tile (~2 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$1,000	Unassigned

Updated: MAR-11

C3010.09 Acoustical Wall Treatment** - Fabric

Fabric acoustic wall panels are present in the gymnasium.

Rating	Installed	Design Life	Updated
4 - Acceptable	1983	20	MAR-11

Event: Replace Acoustic Panels (~110 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$24,400	Unassigned

Updated: MAR-11

C3010.09 Acoustical Wall Treatment** - Pegboard

Painted acoustic peg board present on the north wall in Room 121.

Rating	Installed	Design Life	Updated
4 - Acceptable	1983	20	MAR-11

Event: Replace Acoustic Peg Board (~7 m2)

Туре	<u>Year</u> <u>Cost</u>	Priority
Lifecycle Replacement	2014 \$1,600	Unassigned

Updated: MAR-11

C3010.11 Interior Wall Painting*

Painted concrete walls, CMU, gypsum board, and wood paneling throughout.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
5 - Good	2006	0	MAR-11

C3020.02 Tile Floor Finishes**

Ceramic floor tile present around the urinals in the student washrooms, in the foyer and student washrooms of the 1962 Addition, in the student changerooms, and in the gym storage room.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	50	MAR-11

Event: Replace Ceramic Floor Tile (~137 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$24,100	Unassigned

Updated: MAR-11

C3020.03 Terrazzo Floor Finishes*

Terrazzo floor finishes present in the student washrooms on the lower floor.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1930	0	MAR-11

C3020.04 Wood Flooring**

Strip wood flooring in the gymnasium and stage.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	30	MAR-11

Event: Replace Sports Floor (~372 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$96,600	Unassigned

Updated: MAR-11

Event: Replace Stage Floor (~77 m2)

Туре	Year	<u>Cost</u>
Lifecycle Replacement	2014	\$15,9

900

Priority Unassigned

C3020.07 Resilient Flooring** - Sheet Vinyl

Sheet vinyl flooring present in the Music Room, Art Room, Home Economics room, and classrooms 120, 201, 207.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1962	20	MAR-11

Event: Replace Sheet Vinyl Flooring (~794 m2)

TypeYearCostPriorityLifecycle Replacement2014\$67,100Unassigned

Updated: MAR-11

C3020.07 Resilient Flooring** - Vinyl Tile

Original vinyl tile present in the corridors, custodian rooms, Science room, and in classrooms 15, and 15A in the 1930 Section.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	1930	20	MAR-11

Event: Replace Vinyl Tile Flooring (~732 m2)

Concern:

Vinyl tile is cracking and deteriorated. Showing signs that it has passed or exceeded end of life. **Recommendation:** Replace original vinyl tile.

Туре	Year	Cost	Priority
Failure Replacement	2011	\$39,000	Low

Updated: MAR-11

C3020.07 Resilient Flooring** - Vinyl Tile (1986)

Vinyl tile present in the Industrial Arts room and Classroom 19.

Rating	Installed	Design Life	Updated
4 - Acceptable	1986	20	MAR-11

Event: Replace Vinyl Tile Flooring (~223 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$11,900	Unassigned

C3020.08 Carpet Flooring**

Carpet flooring is present in the Library,	administration offices.	and the majority of the	classrooms throughout.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1970	15	MAR-11

Event: Replace Carpet Flooring (~971 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$66,300	Unassigned

Updated: MAR-11

Event: Upgrade to Vinyl Tile in Classrooms (~668 m2)

Concern:

Carpet in high traffic areas is soiled and worn, and requires frequent cleaning and repairs. **Recommendation:**

Upgrade carpet in classrooms to vinyl tile.

Туре	Year	Cost	<u>Priority</u>
Program Functional Upgrade	2011	\$35,600	Medium

Updated: MAR-11

C3030.06 Acoustic Ceiling Treatment (Susp. T-Bar)**

Suspended T-bar ceilings with laid-in acoustic tile provided in corridors, the Music Room, and classroom 007.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1983	25	MAR-11

Event: Replace Acoustic Ceiling Tile (~316 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$14,700	Unassigned

C3030.06 Acoustic Ceiling Treatment (Susp. T-Bar)** - Adhered Tile

Original fibreboard ceiling tile glued to gypsum ceilings in the Library, adminstration offices, Home Economics room and Art Room.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	25	MAR-11

Event: Replace Acoustic Ceiling Tile (~527 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$24,400	Unassigned

Updated: MAR-11

C3030.07 Interior Ceiling Painting*

Painted gypsum board ceilings typical in classrooms, storage rooms and Boiler Room throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	MAR-11

S4 MECHANICAL

D2010.04 Sinks** - Enamel Steel Service Sinks

Wall and counter mounted enamel steel service sinks and janitor sinks located in service rooms and class rooms throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	30	MAR-11

Event: Replace Enamel Steel Service Sinks (~8 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$9,900	Unassigned

Updated: MAR-11

D2010.04 Sinks** - Stainless Steel Service Sinks

Assorted single, double and trough style stainless steel service sinks in staff and educational spaces throughout the school.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
5 - Good	1990	30	MAR-11

Event: Install Sediment Traps (5 ea.)

Concern:

The service sinks in the Industrial Arts ("IA") Shop and the main floor classrooms do not have sediment traps. Observation of the use of these sinks indicates that waste water disposed of at these sinks includes solids. **Recommendation:**

Install sediment traps on aforementioned classroom service sinks.

Туре	Year	Cost	Priority
Program Functional Upgrade	2011	\$3,800	Low

Updated: MAR-11

Event: Replace Service Sinks (~8 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2020	\$13,900	Unassigned

D2010.05 Showers**

One original fibreglass shower is located in a staff washroom adjacent to the gymnasium.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	1962	30	MAR-11

Event: Replace Shower (1 ea.)

TypeYearCostPriorityLifecycle Replacement2014\$2,800Unassigned

Updated: MAR-11

D2010.08 Drinking Fountains/Coolers**

Vitreous china non-refrigerated water fountains located throughout the building.

Rating	Installed	Design Life	Updated
5 - Good	1990	35	MAR-11

Event: Replace Drinking Fountains (~6 ea.)

Туре	Year	Cost	<u>Priority</u>
Lifecycle Replacement	2025	\$9,900	Unassigned

D2010.10 Washroom Fixtures (WC, Lav, UrnI)**

14 enamel steel lavatories.
1 vitreous china lavatory in the basement facility operations room.
1 flush tank toilet.
18 flush valve toilets.
3 dump tank urinals.

Rating

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1990	35	MAR-11

Event:	Install Manual or Proximity Sensor Flush Valves on Urinals (~ 3 ea.)
	Concern:
	Urinals run on continuous flush and refill cycles.
	Recommendation:

Install manual or proximity sensor flush valves on urinals for water conservation.

Туре	Year	Cost	Priority
Operating Efficiency Upgrade	2011	\$1,100	Low

Updated: MAR-11

Event: Replace 15 Lavatories, 19 Toilets, and 3 Urinals

Туре	Year	Cost	Priority
Lifecycle Replacement	2025	\$64,100	Unassigned

Updated: MAR-11

D2020.01.01 Pipes and Tubes: Domestic Water*

Black iron water main with copper distribution piping throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D2020.01.02 Valves: Domestic Water**

Isolation valves on domestic water distribution throughout.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1930	40	MAR-11

Event: Replace Domestic Water Valves (~30 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$35,300	Unassigned

D2020.01.03 Piping Specialties (Backflow Preventors)**

There are backflow prevention devices on the main domestic water supply, standpipe system, irrigation system, emergency water supply and boiler supply.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1993	20	MAR-11

Event: Replace Backflow Preventors (~5 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$18,200	Unassigned

Updated: MAR-11

D2020.02.02 Plumbing Pumps: Domestic Water**

Recirculation pump on the domestic hot water supply line.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1995	20	MAR-11

Event: Replace Domestic Water Pump (1 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2015	\$3,500	Unassigned

Updated: MAR-11

D2020.02.06 Domestic Water Heaters**

Domestic hot water heating is provided by a "State" 75 gallon natural gas fired water heater.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1995	20	MAR-11

Event: Replace Domestic Water Heater (1 ea.)

<u>Type</u>	Year	Cost	Priority
Lifecycle Replacement	2015	\$3,300	Unassigned

Updated: MAR-11

D2030.01 Waste and Vent Piping*

Waste and vent piping is generally cast iron and ABS.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D2030.03 Waste Piping Equipment*

There is one sump pump located in a pit in the 1930 Section Boiler Room which provides service for three sinks on the main floor and serves as a floor drain for the Boiler Room.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D2040.01 Rain Water Drainage Piping Systems*

Roof drains with interior rain water drain to the municipal storm sewer system.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1930	0	MAR-11

D2040.02.04 Roof Drains*

Roof drains with aluminum strainers and internal rain water leaders.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	1983	0	MAR-11

D3010.02 Gas Supply Systems*

The natural gas supply enters the building at grade on the west side of the building. Natural gas lines to the boilers and domestic hot water tank.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D3020.01.01 Heating Boilers & Accessories: Steam**

Two "Rite" natural gas fired steam boilers (1800 MBTU ea.) and associated equipment (condensate tank) provides the necessary low pressure steam for the heating systems throughout.

Rating	Installed	Design Life	Updated
5 - Good	2000	35	MAR-11

Event: Replace Steam Boilers (2 ea.)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2035	\$1,344,200	Unassigned

D3020.01.03 Chimneys (& Comb. Air): Steam Boilers**

The boilers' metal breaching is connected to an insulated metal stack.

Rating	Installed	Design Life	Updated
4 - Acceptable	2000	35	MAR-11

Event: Replace Metal Breaching (~50 m)

TypeYearCostPriorityLifecycle Replacement2035\$32,900Unassigned

Updated: MAR-11

D3020.01.04 Water Treatment: Steam Boilers*

Water for the steam boiler is chemically treated at the condensate tank by a manual chemical feed pot and micron filter and water softener.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
5 - Good	2000	0	MAR-11

D3020.04.03 Fuel-Fired Unit Heaters**

Natural gas fired unit heater located in the 1976 Addition mechanical room.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1976	30	MAR-11

Event: Replace Unit Heaters (2 ea.)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$3,500	Unassigned

Updated: MAR-11

D3040.01.01 Air Handling Units: Air Distribution**

The 1930 Section is ventilated by an air handling unit (AHU) with steam heating coil that was added in the 1976 Addition. The gymnasium in the 1962 Addition is ventilated by the original dedicated "Trane" AHU with steam heating coil located in a service room adjacent to the gymnasium stage.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1976	30	MAR-11

Event: Replace Air Handling Units (2 ea.)

<u>Type</u>	Year	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2014	\$104,700	Unassigned

D3040.01.03 Air Cleaning Devices: Air Distribution*

The wood work shop has a separate dust collection system, located on the south side of the building. Both AHUs use standard disposable cellulose fibre filters changed quarterly and as required.

Filter packs were observed to be dirty or missing at the time of the evaluation survey. Replacement of filters is required (<\$1000).

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D3040.01.04 Ducts: Air Distribution*

The duct system includes all components related to the air distribution systems in the building. The air distribution system includes ducting for fresh air, return air, supply air, and exhaust air. Exhaust air ducting includes general building exhausts as well as local exhausts. The duct system includes ductwork, dampers, diffusers and other related components.

Rating	Installed	Design Life	Updated
5 - Good	1930	0	MAR-11

D3040.01.07 Air Outlets & Inlets: Air Distribution*

The air outlets and inlets are of varying types and include air diffusers, dampers and grilles.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1930	0	MAR-11

D3040.02 Steam Distribution Systems: Piping/Pumps**

Heating distribution is through original cast iron piping and booster pumps to unit ventilators, finned tubed radiation units, unit heaters and air handling units throughout.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1962	40	MAR-11

Event: Replace Steam Distribution System, Complete with Insulation (~4077 m2/gfa)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$379,200	Unassigned

D3040.04.01 Fans: Exhaust**

Rooftop axial exhaust fans provide local exhaust for the gymnasium, washrooms, specialty rooms and service spaces throughout.

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	30	MAR-11

Event: Replace Exhaust Fans (4 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$73,400	Unassigned

Updated: MAR-11

D3040.04.03 Ducts: Exhaust*

Concealed.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D3040.04.05 Air Outlets and Inlets: Exhaust*

Eggcrate and prefinished metal grilled louvers throughout.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	MAR-11

D3040.05 Heat Exchangers**

Steam to steam heat exchanger located on the main steam supply piping in the boiler room.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	2000	30	MAR-11

Event: Replace Heat Exchanger (1 unit)

Туре	Year	Cost	Priority
Lifecycle Replacement	2030	\$14,900	Unassigned

D3050.01.04 Unit Air Conditioners**

Roof top air conditioning unit provided for the music room.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1972	30	MAR-11

Event: Replace Roof Top Air Conditioing Unit (1 unit)

Туре	<u>Year</u>	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$34,500	Unassigned

Updated: MAR-11

D3050.02 Air Coils**

Low pressure steam heating air coils are provided in the aforementioned AHUs.

Rating	Installed	Design Life	Updated
4 - Acceptable	1976	30	MAR-11

Event: Replace Air Coils (2 Ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$13,200	Unassigned

Updated: MAR-11

D3050.05.02 Fan Coil Units**

Building entrances have Trane fan coil units. One ceiling mounted fan coil unit located in the Industrial Arts (I.A.) Shop. The 1976 Addition mechanical room has a ceiling-hung steam heated fan coil unit.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1962	30	MAR-11

Event: Replace Fan Coil Units (~6 units)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$32,500	Unassigned

D3050.05.03 Finned Tube Radiation**

Steam finned tube radiation units are original and installed throughout the school.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1930	40	MAR-11

Event: Replace Finned Tube Radiation (~4077 m2/gfa)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$189,800	Unassigned

Updated: MAR-11

D3050.05.07 Unit Ventilators**

Steam unit ventilators provide heat and ventilation at the basement level of the 1930 Section in one classroom, the computer room and the server closet.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1962	30	MAR-11

Event: Replace Unit Ventilators (5 units)

Type	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$45,900	Unassigned

Updated: MAR-11

D3060.02.02 Pneumatic Controls**

Original pneumatic controls with individual thermostats in classrooms and administrative spaces throughout. New Quincy air compressor and DeViblis air dryer. A BMCS automation system was in the process of being installed at the time of the evaluation survey.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	1930	40	MAR-11

Event: Remove Pneumatic Controls (1 unit)

Concern:

A fully automated BMCS was in the process of being installed at the time of the evaluation survey. **Recommendation:**

Recommendation:

Remove the pneumatic system following completion and balancing of the BMCS.

Туре	Year	Cost	Priority
Failure Replacement	2012	\$8,500	Low

D3060.02.05 Building Systems Controls (BMCS, EMCS)**

Installation of the BMCS automation system was in progress at the time of the evaluation survey.

Rating	Installed	<u>Design Life</u>	Updated
6 - Excellent	2010	20	MAR-11

Event: Replace BMCS (~4077 m2/gfa)

TypeYearCostPriorityLifecycle Replacement2030\$84,800Unassigned

Updated: MAR-11

D4020 Standpipes*

The building is equipped with a standpipe system complete with fire hoses.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

Event: Install Hoses in Wall Cabinets (5 units)

Concern:

Fire hose reels are exposed and accessible to tampering and vandalism. **Recommendation:** Provide hoses in lockable cabinets.

TypeYearCostPriorityProgram Functional Upgrade2011\$17,500Medium

Updated: MAR-11

D4030.01 Fire Extinguisher, Cabinets and Accessories*

Fire extinguishers are wall mounted in corridors and service rooms throughout the school.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1930	0	MAR-11

S5 ELECTRICAL

D5010.01 Main Electrical Transformers**

Primary electrical service is by a utility-owned pad mounted 300 kVa transformer with buried conductors leading to the main electrical panel.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	40	MAR-11

D5010.03 Main Electrical Switchboards (Main Distribution)**

The main electrical switch gear and central distribution panel are original Federal Pioneer and rated at 120/208 volt, 800 amp, 3-phase, 4-wire service for the main building power and is located in the 1976 Addition mechanical room. The original Federal Pioneer central distribution panel in the 1930 Section is at capacity and now serves as a sub-panel of the main system with a 250 amp disconnect.

Rating	Installed	Design Life	Updated
4 - Acceptable	1976	40	MAR-11

Event: Replace Main Electrical Switchboards (1 ea.)

Туре	Year	<u>Cost</u>	Priority
Lifecycle Replacement	2016	\$45,600	Unassigned

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)**

24 to 42 circuits per panelboards located throughout the school. Most are at or near capacity.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1972	30	MAR-11

Event: Install New Circuit Panels (2 units)

Concern:

Permanent use of extension cords throughout most educational spaces in the 1930 Section, including being suspended from equipment and the ceiling as well as "daisychains" of extensions cords is causing tripping and shock hazards. The installation of more power outlets will require more circuit panels to provide the necessary service.

Recommendation:

Provide a new circuit panel in the basement level and second floor level of the 1930 Section (also refer to D5020.01).

Туре	Year	Cost	<u>Priority</u>
Program Functional Upgrade	2011	\$9,800	High

Updated: MAR-11

Event: Replace Electrical Branch Circuit Panelboards (~12 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$58,500	Unassigned

Updated: MAR-11

D5010.07.02 Motor Starters and Accessories**

Allen Bradley motor starters for supply and return fans and pumps. Motor starters are located in mechanical rooms.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1960	30	MAR-11

Event: Replace Motor Starters (~10 ea.)

Туре	Year	Cost	Priority
Lifecycle Replacement	2014	\$15,000	Unassigned

D5020.01 Electrical Branch Wiring*

Electrical branch wiring is standard copper in rigid conduit with flexible connectors at end devices, as needed.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1960	0	MAR-11

Event: Install Additional Duplex Receptacles (~60 ea.)

Concern:

Permanent use of extension cords throughout most educational spaces in the 1930 Section including being suspended from equipment and the ceiling as well as "daisy-chains" of extensions cords is causing tripping and shock hazards.

Recommendation:

Add ~3 new duplex receptacles to each classroom (also refer to D5010.05).

Туре	<u>Year</u>	Cost	Priority
Program Functional Upgrade	2011	\$9,000	Medium

Updated: MAR-11

Event: Install GFI-Protected Recepteacles (~4 ea.)

Concern:

Duplex outlets in the Staff Room, Industrial Arts Shop, and two classrooms each have a receptacle <1 m from sinks which are not ground fault protected.

Recommendation:

Replace standard receptacles with ground fault protected (GFI) receptacles.

Туре	Year	<u>Cost</u>	<u>Priority</u>
Code Upgrade	2011	\$2,000	Medium

Updated: MAR-11

D5020.02.01 Lighting Accessories: Interior (Lighting Controls)*

Lighting in the school is generally controlled by line voltage keyed and toggle switches.

Rating	Installed	Design Life	Updated
4 - Acceptable	1930	0	MAR-11

D5020.02.02.02 Interior Fluorescent Fixtures**

Interior lighting is fluorescent fixtures with electronic ballasts throughout.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	2008	30	MAR-11

Event: Replace Fluorescent Light Fixtures (~4077 m2/gfa)

Туре	Year	Cost	Priority
Lifecycle Replacement	2038	\$355,900	Unassigned

Updated: MAR-11

D5020.02.03.01 Emergency Lighting Built-in*

Emergency lighting is provided by a central battery bank with ~6 batteries serving remote heads located throughout the school.

Rating	Installed	Design Life	Updated
5 - Good	2000	20	MAR-11

D5020.02.03.03 Exit Signs*

Incandescent exit signs located throughout the school.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1960	0	MAR-11

Event: Install LED Exit Signs (~14 ea.)

Concern:

Incandescent lights are less efficient than LEDs and are more costly to maintain. **Recommendation:**

Replace incandescent exit signs with LED exit signs.

Туре	Year	Cost	Priority
Energy Efficiency Upgrade	2011	\$8,400	Medium

Updated: MAR-11

D5020.03.01.04 Exterior H.P. Sodium Fixtures*

Wall mounted high pressure sodium light fixtures around the school perimeter.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	1972	0	MAR-11

D5030.01 Detection and Fire Alarm**

Simplex 4002 fire alarm panel and Silent Knight Communicator. End devices include heat and smoke detectors, strobes/bells, duct smoke detection devices and pull stations.

Rating	Installed	Design Life	Updated
5 - Good	2000	25	MAR-11

Event: Replace Detection and Fire Alarm (~4077 m2/gfa)

Туре	Year	Cost	Priority
Lifecycle Replacement	2025	\$112,100	Unassigned

Updated: MAR-11

D5030.02.02 Intrusion Detection**

The Silent Knight/Regency security system monitors exterior door contacts and motion detectors installed in the corridors and sensitive areas.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	2000	25	MAR-11

Event: Replace Panel and 14 Sensor Units

Туре	<u>Year</u>	Cost	<u>Priority</u>
Lifecycle Replacement	2025	\$14,500	Unassigned

Updated: MAR-11

D5030.03 Clock and Program Systems*

The school is equipped with a Simplex time panel.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	2000	0	MAR-11

D5030.04.01 Telephone Systems*

The building is equipped with a Nortel Northstar Meridian telephone system which provides internal/external calling, paging and intercom functions throughout.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	1998	0	MAR-11

D5030.04.05 Local Area Network Systems*

LAN and WLAN system installed throughout the school with Cat 5 cabling.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	2000	0	MAR-11

D5030.05 Public Address and Music Systems**

Bogen PA system located in the main office. Speakers are located in the corridors and classrooms. Portable theatrical sound system located in the gymnasium.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	1960	20	MAR-11

Event: Replace PA and Sound System (3 ea.)

Туре	<u>Year</u>	<u>Cost</u>	Priority
Lifecycle Replacement	2014	\$16,000	Unassigned

Updated: MAR-11

D5030.06 Television Systems*

CATV provided throughout by Shaw Cable Systems.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1976	0	MAR-11

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

E1020.02 Library Equipment*

Wooden fixed and moveable shelving, checkout desk, desks, chairs, computers etc.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	MAR-11

E1020.03 Theater and Stage Equipment*

Stage curtains and various theatrical equipment stored back stage.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	1962	0	MAR-11

E1090.07 Athletic, Recreational, and Therapeutic Equipment*

Wall mounted basketball nets. Miscellaneous program equipment.

<u>Rating</u>	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1962	0	MAR-11

E2010.02 Fixed Casework**

Wooden fixed casework throughout 1930 Section and 1972 Addition in classrooms, staff room, library, and offices.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	1930	35	MAR-11

Event: Replace Fixed Casework (~4077 m2/gfa)

Туре	Year	Cost	<u>Priority</u>
Lifecycle Replacement	2014	\$373,600	Unassigned

Updated: MAR-11

E2010.03.01 Blinds**

Horizontal blinds present in classrooms and offices.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	2000	30	MAR-11

Event: Replace Blinds (~120 m2)

Туре	Year	Cost	Priority
Lifecycle Replacement	2030	\$12,900	Unassigned

S8 FUNCTIONAL ASSESSMENT

K3010.04 Power Supply & Electrical Outlets* - Surge Suppression

None provided.

-

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	MAR-11

Event: Install System-Based Surge Suppressor (1 unit)

Concern:

The main server relies on a powerbar for protection from fluctuations in power supply. All other computers and sensitive electronics are not protected.

Recommendation:

Install a system based surge suppressor on the main power supply.

Туре	Year	Cost	<u>Priority</u>
Program Functional Upgrade	2011	\$3,500	Medium

Updated: MAR-11

K3020.03 Air Conditioning/Cooling* - Computer Room A/C

None provided for computers and servers.

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	MAR-11

Event: Provide Server Room A/C (1 unit)

Concern:

No air conditioning provided for the server room. Computers and servers rely on base-building ventilation and keeping doors open for cooling.

Recommendation:

Install server room air conditioning.

Туре	Year	Cost	Priority
Operating Efficiency Upgrade	2011	\$18,200	Medium

K4010.01 Barrier Free Route: Parking to Entrance*

A paved asphalt section is provided from the gravel parking lot to the west entrance of the 1962 Addition.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	2008	0	MAR-11

Event: Provide Designated Handicap Parking Stall

Concern:

No paved handicapped parking stall or area provided. No access from parking lot to main entrance.

Recommendation:

Provide a marked paved handicapped parking stall by an entrance or in the gravel parking area. Provide a barrier free accessible route from the designated parking stall to the main entrance.

Туре	Year	Cost	Priority
Barrier Free Access Upgrade	2012	\$1,000	Low

Updated: MAR-11

K4010.02 Barrier Free Entrances*

None provided.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
3 - Marginal	0	0	MAR-11

Event: Install Automatic Door Opener (1 unit)

Concern:

No barrier free accessible entrance provided to any of the building sections.

Recommendation:

Provide automatic door openers on at least one entrance to the school.

Туре	<u>Year</u>	Cost	Priority
Barrier Free Access Upgrade	2012	\$7,500	Low

K4010.03 Barrier Free Interior Circulation*

Horizontal pathways are structurally sound and of sufficient width to allow wheelchair passage.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	MAR-11

Event: Install Lifts (~3 units)

Concern:

No barrier free access to the stage or between floors. **Recommendation:** Provide an attendant wheelchair lift between floors. Install a lift at the stage and main entrance stairs to allow

Туре	Year	Cost	Priority
Barrier Free Access Upgrade	2012	\$77,800	Low

Updated: MAR-11

barrier free access.

K4010.04 Barrier Free Washrooms*

Universal BFA washroom provided on the main floor of the 1962 Addition. Requires lever-type handset on door (upgrade < \$1000).

Rating	Installed	Design Life	Updated
4 - Acceptable	1962	0	MAR-11

K4030.01 Asbestos*

Asbestos management plan is currently in affect and survey was completed.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
3 - Marginal	1930	0	MAR-11

Event: Continue Asbestos Management Program

Concern:

Asbestos has been present in certain building materials (ie. pipe insulation and joint compounds).

Recommendation:

Continue with existing asbestos management program with periodic update surveys.

Туре	Year	Cost	Priority
Preventative Maintenance	2013	\$8,500	Medium

Updated: MAR-11

Event: Encapsulate Exposed Asbestos Insulation (Rough Estimate)

Concern:

Asbestos-containing pipe insulation is exposed at joints in mechanical rooms.

Recommendation:

Encapsulate exposed friable asbestos pipe insulation. This condition evaluation did not include a comprehensive quality survey; therefore, an "order of magnitude" estimate has been provided herein.

Туре	<u>Year</u>	Cost	<u>Priority</u>
Hazardous Materials Abatement	2011	\$15,000	Medium

Updated: MAR-11

K4030.03 Mercury*

Some mercury vapour lighting present. Flourescent lamps contain small amounts of mercury vapour.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	MAR-11

K4030.04 Mould*

No visible suspect mould identified. No mould issues reported.

Rating	Installed	Design Life	Updated
5 - Good	0	0	MAR-11

K4030.09 Other Hazardous Materials*

Petroleum based products, paints, and solvents are found throughout the custodian rooms. Various chemicals in Science room. All products are kept in appropriate areas and containers.

	- 43		
к	atı	n	α

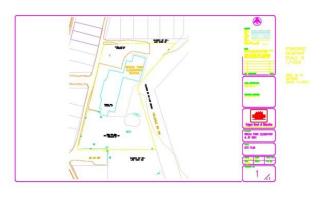
4 - Acceptable

Installed Design Life Updated

K5010 Reports and Studies*

Rideau Park School was evaluated on November 2, 2010 by Golder Associates Ltd.

<u>Rating</u>	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	MAR-11



Rideau Park School - Site Plan (1998)