RECAPP Facility Evaluation Report

Edmonton School District No. 7



Lorelei Elementary School

B3197A Edmonton

Edmonton - Lorelei Elementary School (B3197A)

Facility Details

Building Name: Lorelei Elementary School

Address: 16230 - 103 Street

Location: Edmonton

Building Id: B3197A Gross Area (sq. m): 4,012.10 Replacement Cost: \$8,744,262

Construction Year: 1977

Evaluation Details

Evaluation Company: R.Saunder Architects Ltd.

Evaluation Date: November 20 2007

Evaluator Name: Raghbir Jagdev MRAIC MAAA MAIBC

Total Maintenance Events Next 5 years: \$1,545,709 5 year Facility Condition Index (FCI): 17.68%

General Summary:

The building was constructed in 1977 and is single storey with a second floor mechanical room. Two pods were added in 1978. A third pod was added in 1992. The main building is 2760 m2 including the second floor mechanical space. The pods are not relocatable.

Structural Summary:

The foundations are concrete grade beams on concrete strip footings. Concrete pedestals on concrete footings are used in the center portion to support a steel structure. The building is slab on grade throughout with a suspended cast in place floor slab supporting the second floor mechanical room. The roof structure is steel beams, owsj and steel deck supported by concrete block on the exterior and steel columns on the interior of the building. The south/east portion of the building has interior concrete block supporting the steel roof structure. The two 1978 pods have concrete piles supporting 6x6 steel beams. The 1992 pod has concrete piles supporting gluelam construction.

Envelope Summary:

The exterior walls have a brick veneer finish around the perimeter of the building with metal siding above the windows on portions of the building and gymnasium. The 1978 pods have metal siding with the portions above and below the windows, doors and mechnical grilles being painted plywood. The 1992 pods have metal siding. The building has aluminum windows. The pods have aluminum slider windows. The entire flat roof is membrane roofing. The 1992 pod has built-up-roofing with gravel finish.

Interior Summary:

Vinyl composite tile flooring in corridors, vestibules, portions of classrooms, storage areas, staff washrooms, caretakers office and various other locations. Carpet flooring in classrooms, portions of corridors, library, general office area and other locations. Boys and girls washrooms have epoxy concrete floor finish. Wood strip flooring in gymnasium. Suspended acoustic tile ceilings in corridors, classrooms, general office area, staff areas, library, pods and various other locations. Painted drywall ceiling finishes in some storage rooms, around skylights in corridors, storage rooms in pods and various other locations. Painted concrete block wall finish throughout most of the building. Painted vinyl board panels on demountable partitions between classrooms, some corridor walls, general office area and in 1978 pods. 1992 pods have painted drywall finish.

Mechanical Summary:

The mechanical systems for this facility are in acceptable condition for the age of the building. The Boilers and Air Handling Units will be approaching the end of their lifecycle in the next four to five years and some of the components already need changing. One of the hot water circulation system pumps needs to be replaced due to excessive noise and vibration. There are many storage rooms in the school that do not have exhaust fans installed and require the installation of ductwork and exhaust fans to meet present indoor air requirements as per the building code, and to improve the indoor air quality. The server room gets extremely overheated and requires a split unit air conditioning system installed in order to dissipate the heat gains in the room. The domestic water heater in the school is extremely oversized for the size and requirements of domestic hot water that the school has, in order to improve operating costs and efficiency and due to the fact that the domestic water heater is approaching the end of its lifecycle it is recommended that the unit be replaced by a much smaller unit. Aside for the above main notes the rest of the building is in acceptable to good condition.

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Electrical Summary:

This school was built in 1977 with additions coming in 1978 and 1992. The main MDP is an ITE 1200 Amp panel. The interior florescent fixtures should be changed out to energy efficient T-8 lamps and electronic ballasts. A new security system was installed in 1997. A new public address system was installed in 2006. The remainder is original equipment.

This school is in acceptable 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

A1010.01 Wall Foundations (Continuous Footing)

Foundations are concrete grade beams on concrete strip footings along the exterior and portions of the interior. Concrete pedestals on concrete footings are used in the center portion to support a steel structure.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

A1020 Special Foundations (1978 pods)*

hss beams on concrete piles.

RatingInstalledDesign LifeUpdated5 - Good19780MAR-08

A1020 Special Foundations (1992 pod)*

Gluelam construction on concrete piles.

RatingInstalledDesign LifeUpdated5 - Good19920MAR-08

A1020 Special Foundations (main building)*

Concrete pedestals on concrete footings supporting steel columns and roof structure.

Rating Installed Design Life Updated
5 - Good 1977 0 MAR-08

A1030 Slab on Grade*

Slab on grade throughout the building. Cracks developing in boys and girls change rooms, boys and girls washrooms, janitor room in c7, caretaker storage #15 and some other locations.

RatingInstalledDesign LifeUpdated3 - Marginal19770MAR-08

B1010.01.02.01 Cast-in-place Concrete: Beams

Cast in place concrete beams around second floor mechanical room.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B1010.01.02.04 Structural Steel: Beams (1978 pods)

Hss beams floor structure.

As part of regular maintenance, paint beams as it is showing signs of rust. Cost is less than \$1000.

RatingInstalledDesign LifeUpdated3 - Marginal19780MAR-08

B1010.03.01 Cast-in-place Concrete:Slab

Second floor mechanical room has suspended cast in place concrete floor slab.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B1010.07 Exterior Stairs*

Wood exterior exit stairs from classrooms in 1992 pod.

RatingInstalledDesign LifeUpdated5 - Good199240MAR-08

B1020.01 Roof Structural Frame - (1992 pod)*

Steel deck on truss joists.

RatingInstalledDesign LifeUpdated5 - Good19920MAR-08

B1020.01.01.05 Structural Steel: Roof Column

Structural steel has columns in center area supporting steel roof structure.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B1020.01.02.03 Structural Metal Framing:Roof Beams

Steel beams around center area supporting steel roof structure.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B1020.01.04.02 Steel Joists

Owsj roof structure throughout the main building and gymnasium. Steel c-channels over the corridor in south/east portion of the building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B1020.02 Structural Interior Walls Supporting Roofs*

Concrete block structural interior walls supporting roof in south/east portion of the building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B1020.03.05 Metal Deck

Steel deck on steel structure throughout entire building.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
5 - Good	1977	0	MAR-08

S2 ENVELOPE

B2010.01.02.01 Brick Masonry: Ext. Wall Skin*

Brick veneer on exterior walls of the main building.

RatingInstalledDesign LifeUpdated5 - Good197775MAR-08

B2010.01.06.03 Metal Siding** 1978 pods

Metal siding above the window head level around the majority of the building and gymnasium. The two 1978 pods have metal siding all around excluding the portions above and below the windows, doors and mechanical grilles. 1992 pod has metal siding all around.

RatingInstalledDesign LifeUpdated5 - Good197840SEP-08

Event: Replace metal siding

TypeYearCostPriorityLifecycle Replacement2018\$194,200Unassigned

Updated: SEP-08

B2010.01.06.03 Metal Siding** 1992 pod

RatingInstalledDesign LifeUpdated5 - Good199240SEP-08

Event: Replace metal siding

TypeYearCostPriorityLifecycle Replacement2032\$110,000Unassigned

Updated: SEP-08

B2010.01.06.03 Metal Siding** Main Bldg

RatingInstalledDesign LifeUpdated5 - Good197740SEP-08

Event: Replace metal siding

TypeYearCostPriorityLifecycle Replacement2017\$152,300Unassigned

Updated: SEP-08

B2010.01.06.04 Wood Siding**

Painted plywood under and over windows, doors and mechanical room grilles.

RatingInstalledDesign LifeUpdated3 - Marginal197840MAR-08

Event: Replace plywood panels with metal siding

Concern:

Painted plywood under and over windows, doors and mechanical room grills is worn and deteriorating.

Recommendation:

Replace plywood panels with metal siding. Approx. 64 m2

Consequences of Deferral:Further wear and deterioration.

TypeYearCostPriorityFailure Replacement2009\$21,164Low

South/west pod.

Updated: APR-08

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

Concrete block exterior walls around the perimeter of the building.

RatingInstalledDesign LifeUpdated5 - Good197775MAR-08

B2010.03 Exterior Wall Vapor Retarders, Air Barriers, and Insulation (1992 pod)*

Batt insulation and vapour barrier in exterior walls and floors in 1992 pods.

RatingInstalledDesign LifeUpdated5 - Good1992100MAR-08

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

Mastic vapour barrier on concrete block exterior walls. 1" rigid insulation on exterior walls all around the building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B2010.06 Exterior Louvers, Grilles, and Screens*

Mechanical grilles on exterior walls of pods. Metal security screens on windows at the back of the building and pods.

Rating	<u>Installed</u>	Design Life	Updated
5 - Good	0	0	MAR-08

B2020.01.01.02 Aluminum Windows (Glass & Frame)**

RatingInstalledDesign LifeUpdated5 - Good199240SEP-08

Event: Replace aluminum windows in 1992 pods

TypeYearCostPriorityLifecycle Replacement2032\$48,000Unassigned

Updated: SEP-08

B2020.01.01.02 Aluminum Windows (Glass & Frame)**

Aluminum exterior windows in classrooms and all around building. Aluminum slider exterior windows in 1978 pods. Aluminum exterior windows in 1992 pods.

RatingInstalledDesign LifeUpdated5 - Good197740MAR-08

Event: Replace aluminum windows

TypeYearCostPriorityLifecycle Replacement2017\$23,000Unassigned

Updated: SEP-08

B2030.01.02 Steel-Framed Storefronts: Doors**

Hollow steel insulated doors in steel frames at entrances to main building.

RatingInstalledDesign LifeUpdated5 - Good197730MAR-08

B2030.02 Exterior Utility Doors**

Hollow steel insulated doors in steel frames in meter room, roof access from mechanical room, gymnasium exits, yard storage and exit doors from pods.

RatingInstalledDesign LifeUpdated5 - Good197740MAR-08

Event: Replace Exterior Utility Doors

TypeYearCostPriorityLifecycle Replacement2017\$11,500Unassigned

Updated: MAY-08

B3010.01.03 Roof and Deck Insulation (1992 pod)

1" rigid fibre board insulation on polystyrene insulation.

RatingInstalledDesign LifeUpdated5 - Good19920MAR-08

B3010.01.03.02 Roof Board Insulation

3" rigid insulation on roof deck of main building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

B3010.04 Membrane Roofing

Membrane roofing with embedded gravel finish on flat roof over the entire building and gymnasium. Reroofing was done in various stages in 1996, 1998 and 2000. 1992 pod has original roof.

RatingInstalledDesign LifeUpdated5 - Good025MAR-08

B3010.04.01 Built-up Bituminous Roofing (Asphalt & Gravel) (1992 pod)**

Built-up-roofing with gravel finish on 1992 pod.

Rating Installed Design Life Updated
5 - Good 1992 25 MAR-08

Event: Replace Built-up Bituminous Roofing (Asphalt &

Gravel)

TypeYearCostPriorityLifecycle Replacement2017\$47,000Unassigned

Updated: MAY-08

B3010.08 Flashing and Sheet Metal

Prefinished metal flashing on parapets around the building.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

B3020.01 Skylights**

Aluminum framed skylights in corridors and over library.

RatingInstalledDesign LifeUpdated5 - Good197725MAR-08

Event: Replace skylights

TypeYearCostPriorityLifecycle Replacement2012\$9,000Unassigned

Updated: MAY-08

S3 INTERIOR

C1010.01.03 Unit Masonry Assemblies: Partitions -

Concrete block infill walls throughout the building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

C1010.01.07 Framed Partitions (Stud)

Steel stud framing around some storage rooms.

RatingInstalledDesign LifeUpdated5 - Good0100MAR-08

C1010.02 Interior Demountable Partitions*

Steel stud partitions between classrooms, in general office/staff area and various other locations.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

C1010.05 Interior Windows - General Office*

Steel framed windows with wired glass in general office area.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

C1010.05 Interior Windows - Roll Shutters*

Roll shutter at pass thru window in kitchen.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

C1020.01 Interior Swinging Doors (& Hardware) - Fire Doors*

Steel fire rated doors in steel frames in fire separation between gymnasium and lunch/study and physical education offices in the main building area. Steel fire rated doors in steel frames in stair to mechanical room and incinerator room.

RatingInstalledDesign LifeUpdated5 - Good197740MAR-08

C1020.01 Interior Swinging Doors (& Hardware) - Wood Doors*

Solid core wood doors in steel frames in classrooms, storage, janitor room, electrical room, boys and girls washrooms, change rooms, corridor doors, general office area and various other locations.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

C1020.03 Interior Fire Doors*

Hollow steel fire doors with georgian wire glass in steel frames in fire separation between corridors c1/c2 separating main and south/east portion of the building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

C1030.01.01 Chalkboards

Green board in classrooms.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

C1030.01.02 Markerboards

White board in classrooms.

RatingInstalledDesign LifeUpdated5 - Good020MAR-08

C1030.01.03 Tackboards and Visual Aid Boards

Tackboards and Visual Aid Boards in classrooms, corridors and various other locations.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

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

Fabricated toilet compartments in boys and girls washrooms, change rooms and staff washrooms.

RatingInstalledDesign LifeUpdated5 - Good030MAY-08

Event: Replace fabricated compartments

TypeYearCostPriorityLifecycle Replacement2012\$27,500Unassigned

Updated: MAY-08

C1030.06 Handrails*

Wall mounted steel pipe handrail at stairs to mechanical room and at ramp going up to 1992 pod.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

C1030.08 Interior Identifying Devices*

Identifying signs on doors in classrooms, washrooms, general office area and other locations.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

C1030.12 Storage Shelving*

Metal boot racks at entrances.

RatingInstalledDesign LifeUpdated4 - Acceptable030MAR-08

C1030.12 Storage Shelving*

Prefabricated Wood Storage Shelving in library, resource room, classrooms, storage rooms and various other locations.

RatingInstalledDesign LifeUpdated5 - Good030MAR-08

C1030.14 Toilet, Bath, and Laundry Accessories - *

Toilet and bath accessories in washrooms.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

C2010 Stair Construction*

Steel stairs to mechanical room.

RatingInstalledDesign LifeUpdated5 - Good1977100MAR-08

C3010.09 Acoustical Wall Treatment - Gym**

Acoustic wall panels in gymnasium.

RatingInstalledDesign LifeUpdated5 - Good197720MAR-08

Event: Replace Acoustical Wall Treatment in the Gym

TypeYearCostPriorityLifecycle Replacement2012\$32,000Unassigned

Updated: MAY-08

C3010.09 Acoustical Wall Treatment - Principals office**

Lead lining under the drywall on the interior of the principals office.

RatingInstalledDesign LifeUpdated5 - Good020MAR-08

Event: Replace Acoustical Wall Treatment in the

Principals office

TypeYearCostPriorityLifecycle Replacement2012\$32,000Unassigned

Updated: MAY-08

C3010.11 Interior Wall Painting - Concrete Block*

Painted concrete block interior walls throughout the building.

RatingInstalledDesign LifeUpdated5 - Good015MAR-08

C3010.11 Interior Wall Painting*

Interior painted gypsum walls in general office area, storage rooms at entrances and 1992 pods.

RatingInstalledDesign LifeUpdated5 - Good015MAR-08

C3010.12.02 Vinyl Wall Covering

Painted vinyl board panels on demountable partitions between classrooms, some corridor walls and in general office area. Painted vinyl board panels on demountable partitions in 1978 pods.

RatingInstalledDesign LifeUpdated5 - Good030MAY-08

C3020.01 Concrete Floor Finishes

Concrete floor finish in incinerator room.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

C3020.01.01 Epoxy Concrete Floor Finishes - *

Epoxy Concrete Floor Finishes in boys and girls washrooms, caretaker storage and change rooms.

RatingInstalledDesign LifeUpdated3 - Marginal19770MAR-08

Event: Refinish epoxy coating in boys and girls washrooms

Concern:

Heavy staining and random cracks.

Recommendation:

Refinish epoxy coating in boys and girls washrooms #30 (10m2),#31(10m2),#40 (17.5 m2),#41(12.8 m2),#42(11.5m2),#45(17.5 m2). Refinish epoxy coating in caretakers storage #15(19.60m2). Total approximate area = 98.9m2. Fill crack in boys change room #23.

Consequences of Deferral:

Further staining.

TypeYearCostPriorityRepair2009\$25,168Medium

Updated: APR-08



Boys washroom #41

C3020.01.02 Paint Concrete Floor Finishes*

Painted concrete floor finish in mechanical room.

RatingInstalledDesign LifeUpdated5 - Good197710MAR-08

C3020.04.01 Wood Strip Flooring

Wood strip flooring in gymnasium.

RatingInstalledDesign LifeUpdated3 - Marginal00MAR-08

Event: Replace Gym Flooring

TypeYearCostPriorityLifecycle Replacement2012\$115,086Unassigned

Updated: APR-08

Event: Sand and refinish gymnasium flooring

Concern:

The finish on the wood strip flooring in the gymnasium is worn.

Recommendation:

Sand and refinish gymnasium flooring (357.70 m2)

Consequences of Deferral:

Further wear and damage to the wood strip flooring.

TypeYearCostPriorityPreventative Maintenance2009\$17,160High

Updated: MAY-08

Gymnasium floor

C3020.07 Resilient Flooring**

Vinyl composite tile flooring in corridors excluding corridors around library area, corridors leading to pods, pod corridors, vestibules, portions of classrooms, storage areas, staff washrooms, caretakers office and various other locations.

RatingInstalledDesign LifeUpdated3 - Marginal197720MAR-08

Event: Replace vinyl composite tile

Concern:

Vinyl composite tile is old and worn with seams opening up.

Recommendation:

Replace vinyl composite tile with vinyl sheet flooring in corridors c2 (36.50 m2), c3 & c4 (100.3 m2), c7 (75.30), c10 (75.30m2) and c11(23.20 m2) including storage areas , washroom in kindergarden #11 (3.34 m2), infermary #9 (21.20 m2), staff washrooms #3 (3.5 m2) and #4 (4.3 m2), caretakers office #20 (9.7 m2). Total area approx. 352.64 m2

Consequences of Deferral:

Further wear and damage.

TypeYearCostPriorityFailure Replacement2009\$40,040High

Updated: MAR-08

C3020.08 Carpet Flooring**

Carpet in 1978 pods and classrooms of the main building.

RatingInstalledDesign LifeUpdated3 - Marginal200215SEP-08

Event: Replace carpeting

Concern:
Carpet is worn
Recommendation:

Replace carpet in the 1978 pods and classrooms of the main

building

TypeYearCostPriorityLifecycle Replacement2009\$85,000Unassigned

Updated: SEP-08

C3020.08 Carpet Flooring**

RatingInstalledDesign LifeUpdated3 - Marginal015SEP-08

Event: Replace carpeting

Concern:
Carpet is worn
Recommendation:

Replace carpeting in the main building

TypeYearCostPriorityLifecycle Replacement2009\$81,300Unassigned

Updated: SEP-08

C3020.08 Carpet Flooring**

Carpet flooring in classrooms, computer lab, art preparation room, workrooms, general office area, resource room, library, corridor around library, lunch/study and pod classrooms.

RatingInstalledDesign LifeUpdated3 - Marginal199215SEP-08

Event: Replace carpet

Concern:

Carpet is old in art preparation room #43. Carpet is torn in resource room #2.

Recommendation:

Replace carpet in art preparation room #43 (31.20 m2). Replace carpet in resource room #2 (41.87m2). Total area = 73.07 m2

Consequences of Deferral:

Further wear and damage.

TypeYearCostPriorityFailure Replacement2009\$24,400Medium

Updated: SEP-08

C3020.14 Other Floor Finishes (1992 pod mechanical rooms)*

Membrane with gravel finish floor finish in 1992 pod mechanical room.

RatingInstalledDesign LifeUpdated5 - Good19780MAR-08

C3030.01 Concrete Ceiling Finishes (Unpainted) - *

Concrete ceiling finish in storage areas under mechanical room.

RatingInstalledDesign LifeUpdated5 - Good1977100MAR-08

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

Suspended acoustic tile ceilings in corridors, classrooms, computer lab, general office area, staff areas, some storage rooms, kitchen, electrical and mechanical rooms, incinerator room, caretakers office, caretakers storage, lunch/study, science room, library, timeout rooms, pods, pod classrooms and various other locations.

RatingInstalledDesign LifeUpdated5 - Good197725MAR-08

C3030.07 Interior Ceiling Painting - *

Painted drywall ceiling finishes in some storage rooms, around skylights in corridors, storage rooms in pods and various other locations. Suspended drywall ceiling finish in change rooms and gym storage under mechanical room area.

Repaint the stained areas as regular maintenance cost less the \$1000.

Rating	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1977	20	MAR-08

S4 MECHANICAL

D2010.04 Sinks**

The School is equipped with the following sinks:

- Six (6) counter top mounted, single compartment stainless steel sink by Steel Queen, complete with goosneck spout and metering faucet, serving the Kindergarten Classroom, Music Room, Janitor Room, Staff Washroom and Staff Room.
- Seven (7) counter top mounted, single compartment stainless steel sink by Steel Queen, complete with goosneck spout, metering faucet and drinking fountain serving the School's core Classrooms.
- One (1) counter top mounted, triple compartment, stainless steel sink by Steel Queen, complete with swing extendable spout and mixing valve serving the Kitchen.
- One (1) 24"x24" floor mounted mop sink complete with faucet and wall mounted liquid cleaning detergent dispenser.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1977	30	MAR-08

Event: Replace Sinks

TypeYearCostPriorityLifecycle Replacement2012\$15,581Unassigned

Updated: APR-08

D2010.05 Showers**

The School has one (1) shower complete with industrial shower head and mixing valve serving the Physical Education Office. All other showers in the School have been removed, finished and made good before being turned into Storage Rooms.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1977	30	MAR-08

Event: Showers

TypeYearCostPriorityLifecycle Replacement2012\$1,384Unassigned

Updated: APR-08

D2010.08 Drinking Fountains / Coolers - **

The School has three (3) wall hung recessed vitreous china drinking fountains, and three (3) stainless steel wall hung, drinking fountains.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1977	35	MAR-08

Event: Drinking Fountains / Coolers

TypeYearCostPriorityLifecycle Replacement2012\$6,737Unassigned

Updated: APR-08

D2010.09 Other Plumbing Fixtures - *

School has four (4) non-freeze hose bibs located on the perimeter of the school.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D2010.10 Washroom Fixtures (WC, Lav, Urnl) - **

The School's Washrooms are equipped with the following fixtures:

- Five (5) vanity top mounted, vitreous china lavatories, complete with Cranada push valve faucets.
- Six (6) wall hung, vitreous china lavatories complete with metering faucets.
- Ten (10) vanity top mounted, stainless steel lavatories by Queen Steel, complete with Cranada push valve faucets.
- Eighteen (18) floor mounted, vitreous china, flush valve water closets by American Standard.
- Four (4) floor mounted, vitreous china, close coupled, flush tank water closets by American Standard.
- One (1) low floor mounted, vitreous china, flush valve water closets by American Standard serving the Kindergarten Washroom.
- Seven (7) vitreous china, stall type, floor mounted, flush valve urinals.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1977	30	MAR-08

Event: Washroom Fixtures (WC, Lav, Urnl)

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2012	\$52,006	Unassigned

Updated: APR-08

D2020.01.01 Pipes and Tubes: Domestic Water - *

The domestic water lines are copper.

Rating	<u>Installed</u>	Design Life	Updated
4 - Acceptable	1977	0	MAR-08

D2020.01.02 Valves: Domestic Water - **

All plumbing fixtures isolated individually.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1977	40	MAR-08

Event: Valves: Domestic Water

<u>Type</u>	<u>Year</u>	<u>Cos</u> t	<u>Priority</u>
Lifecycle Replacement	2017	\$19,983	Unassigned

Updated: APR-08

D2020.01.03 Piping Specialties (Backflow Preventors) - **

Backflow prevention valve on feeder line to boilers 3/4" by Watts.

RatingInstalledDesign LifeUpdated4 - Acceptable199620MAR-08

Event: Piping Specialties (Backflow Preventors)

TypeYearCostPriorityLifecycle Replacement2016\$9,152Unassigned

Updated: APR-08

D2020.02.02 Plumbing Pumps: Domestic Water - **

The domestic water is re-circulated by a Bell & Gossett model: SSF-22 pump.

RatingInstalledDesign LifeUpdated5 - Good200420MAR-08

Event: Plumbing Pumps: Domestic Water

TypeYearCostPriorityLifecycle Replacement2024\$2,872Unassigned

Updated: APR-08

D2020.02.06 Domestic Water Heaters - **

The School is equipped with a Jetglass Commercial Domestic Water Heater (DWH) model M65-420-JIB-3N with an input of 500,000 BTUH, 65 gallon capacity and 420 gallon per hour recovery. The unit is oversized for an elementary school whose only consumption is by Washroom fixtures.

RatingInstalledDesign LifeUpdated4 - Acceptable197720MAR-08

Event: Domestic Water Heaters

Recommendation:

Appropriately size to smaller unit.

TypeYearCostPriorityLifecycle Replacement2012\$3,003Unassigned

Updated: APR-08

D2020.03 Water Supply Insulation: Domestic - *

All water supply lines are insulated throughout the school.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D2030.01 Waste and Vent Piping - *

PVC and ABS piping system throughout the school. Each fixture vented to atmosphere. Traps are provided where necessary. Sanitary drainage effluent is collected into common 6" sanitary main. Flows by gravity @ 1% slope, leaving the building at the East.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D2040.01 Rain Water Drainage Piping Systems - *

Roof drains are connected to the 10" storm line providing the school's storm drainage to the East, the storm line connects to the municipal storm main.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D2040.02.04 Roof Drains*

Zurn Flo-Control 4" roof drains connected to school's main storm water drainage. Insulated to 3.0 meters of roof penetration.

RatingInstalledDesign LifeUpdated5 - Good199840MAR-08

D3010.02 Gas Supply Systems - *

4" Gas supply in Meter Room. The gas line splits past the gas meter into two lines, a 4" line that serves the Mechanical Room and a 2-1/2" line that serves the Portables.

RatingInstalledDesign LifeUpdated4 - Acceptable197760MAR-08

D3020.02.01 Heating Boiler Accessories: H.W. - Portables**

The 1992 Portables have one (1) Glycol-Water heat exchanger, complete with a Bell & Gossett Recirculation pump that provides 33 GPM @ 25 ft. of head powered by a 3/4 hp @ 1,800 rpm motor.

RatingInstalledDesign LifeUpdated4 - Acceptable199235MAR-08

Event: Heating Boiler Accessories: H.W. - Portables

TypeYearCostPriorityLifecycle Replacement2027\$13,728Unassigned

Updated: MAR-08

D3020.02.01 Heating Boilers and Accessories: H.W.**

The School has two (2) Raypack model: 1467-WTD hot water boilers with an input capacity of 1,467,000 BTUH. The boilers are complete with two (2) 60 GPM automatic flow control valves, low level water cut off sensors, one (1) Expanflex model 14NA63 expansion tank, one (1) chemical pot feeder, two (2) 100 GPM @ 60 ft of head, Bell & Gossett pumps model: 58125 BF with a 3 hp @ 1,800 rpm motors. One (1) of the pumps is noisy and vibrates excessively.

RatingInstalledDesign LifeUpdated3 - Marginal197735MAR-08

Event: Replace Heating Boilers - HW

TypeYearCostPriorityLifecycle Replacement2012\$73,336Unassigned

Updated: APR-08

Event: Replace Hot Water Circulation Pump

Concern:

Pump #1 for Hot Water Circulation is noisy, and vibrates

excessively.

Recommendation:

Replace with a new pump.

TypeYearCostPriorityFailure Replacement2008\$5,148High

Updated: MAR-08

D3020.02.02 Chimneys (&Comb. Air): H.W. Boiler - **

Common vent serves the two (2) boilers and one domestic water heater.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Chimneys (&Comb. Air): H.W. Boiler

TypeYearCostPriorityLifecycle Replacement2012\$15,723Unassigned

Updated: APR-08

D3020.02.03 Water Treatment: H. W. Boiler - *

Chemical pot feeder serving hot water system.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

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D3040.01.01 Air Handling Units: Air Distribution - Main School**

The School is equipped with two (2) Train Air Handling Units (AHU). The first unit provides the school's core with ventilation through galvanized steel ductwork and is complete with a Trane model 330A-9-1H return air fan powered by a Teco 4P AEEACD 5hp @ 1,750 rpm motor, and a Trane 35A-9-1 supply air fan powered by a US Electrical Type A 7.5hp @ 1,740 rpm motor. The second unit provides ventilation to the Gymnasium and is complete with a Trane model 19QA-9-1H return air fan powered by a A.O. Smith model: SCE 1.5hp @ 1,745 rpm motor, and a Trane 21OB-9-1H supply air fan powered by a Leeson model: C145 117DB2B 2hp @ 1,740 rpm motor. Both of the AHUs are complete with reheating coils throughout the ductwork.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Replace Air Handling Units - Main School

TypeYearCostPriorityLifecycle Replacement2012\$323,166Unassigned

Updated: APR-08

D3040.01.02 Fans: Air Distribution (Remote from AHU) - *

The Gymnasium has four (4) ceiling mounted propeller fans.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D3040.01.03 Air Cleaning Devices: Air Distribution - *

Standard replaceable medium filters are used in all three air handling units, changed on regular intervals.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D3040.01.04 Ducts: Air Distribution - *

School is equipped with galvanized steel ducts throughout. All three (3) AHUs have return air traveling through galvanized steel ducts and return air grilles.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D3040.01.07 Air Outlets & Inlets:Air Distribution - *

Typical Classrooms have air supplied by standard ceiling mounted 12"x12" diffusers.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D3040.03.01 Hot Water Distribution Systems - **

Insulated copper piping distribution to perimeter radiation, force flow heaters, reheat coils, combustion air unit heater and unit heater serving the Mechanical Room roof access door.

RatingInstalledDesign LifeUpdated4 - Acceptable197740MAR-08

Event: Hot Water Distribution Systems

TypeYearCostPriorityLifecycle Replacement2017\$254,448Unassigned

Updated: APR-08

D3040.04.01 Fans: Exhaust - **

The School has one (1) Nutone kitchen exhaust canopy serving the range stove in the Kitchen providing 180 CFM of exhaust ventilation, and three (3) General Electric model: 5KH37NG384A 1/3hp @ 1,740 rpm exhaust fans serving washrooms.

RatingInstalledDesign LifeUpdated2 - Poor197730MAR-08

Event: Add Fans for Storage Rooms

Concern:

Twelve (12) of the School's Storage Rooms are missing exhaust fans, this includes the Gymnasium Storage room and eleven (11) other Storage Rooms throughout.

Recommendation:

Install fans and ductwork to provide negative pressure to the Storage Rooms.

TypeYearCostPriorityIndoor Air Quality Upgrade2008\$17,160Low

Updated: MAR-08

Event: Replace Fans: Exhaust

TypeYearCostPriorityLifecycle Replacement2012\$10,868Unassigned

Updated: APR-08

D3040.04.03 Ducts: Exhaust - *

Exhaust air ductwork to roof and ceiling mounted fans. All ducts insulated with 25mm thermal insulation.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

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D3040.04.05 Air Outlets and Inlets: Exhaust - *

Standard egg crate grilles are provided to exhaust air ducts, grilles are in acceptable condition.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D3050.02 Air Coils**

The school has air coils serving the AHU serving the Office area.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Replace Air Coils

TypeYearCostPriorityLifecycle Replacement2012\$4,873Unassigned

Updated: APR-08

D3050.03 Humidifiers**

The School has a Burnham America model: 606 steam boiler with an input of 504,000 BTUH and an output of 403,200. The humidifier is not in use and has been capped off and abandoned for several years.

RatingInstalledDesign LifeUpdated4 - Acceptable197725MAR-08

Event: Replace Humidifier

TypeYearCostPriorityLifecycle Replacement2012\$8,754Unassigned

Updated: APR-08

D3050.05.02 Fan Coil Units - **

The school has fan coils serving AHU-1 and 2.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Replace Fan Coil Units

TypeYearCostPriorityLifecycle Replacement2012\$58,753Unassigned

Updated: APR-08

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D3050.05.03 Finned Tube Radiation**

The school has perimeter Finned Tube Radiation throughout the school.

RatingInstalledDesign LifeUpdated4 - Acceptable197740MAR-08

Event: Finned Tube Radiation

TypeYearCostPriorityLifecycle Replacement2017\$117,929Unassigned

Updated: APR-08

D3060.02 HVAC Instrumentation and Controls -

The School is equipped with pneumatic and Westing House motor control electrical center controlled by a Barber Coleman Network 8000 DDC system.

RatingInstalledDesign LifeUpdated4 - Acceptable199130MAR-08

Event: HVAC Instrumentation and Controls

TypeYearCostPriorityLifecycle Replacement2012\$39,874Unassigned

Updated: APR-08

D4030.01 Fire Extinguisher, Cabinets and Accessories - *

Fire cabinets complete with 5lbs. ABC fire extinguishers are provided throughout the School. 10 lbs CO2 fire extinguisher is located in the Mechanical Room.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

S5 ELECTRICAL

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

The Main Distribution Panel is an ITE 1200 Amp 120/208 Volt 3 Phase 4 Wire panel located in the main electrical room.

RatingInstalledDesign LifeUpdated4 - Acceptable197740MAR-08

Event: Replace Main Electrical Switchboards

TypeYearCostPriorityLifecycle Replacement2017\$48,620Unassigned

Updated: APR-08

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

The ITE branch circuit panel boards are just past their life cycle expectancy (2007). These panel boards are located through out the facility.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Replace Electrical Branch Panelboards

Concern:

The panels are past their lifecycle expectancy.

Recommendation:

Replace the panelboards and the Breakers.

Consequences of Deferral:

The breakers in the panelboards could cause nuisance tripping.

TypeYearCostPriorityLifecycle Replacement2012\$27,236Low

Updated: APR-08

D5010.07.02 Motor Starters and Accessories - **

The main MCC is a Westinghouse and is located in the Mechanical room. This MCC is just past its lifecycle (2007)

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Replace Motor Starters and Accessories

Concern:

The MCC has passed the end of its lifecycle.

Recommendation: Change out the MCC.

Consequences of Deferral:

The heating/cooling motors might be interrupted in their usage due to faulty switching or motor overloads.

TypeYearCostPriorityLifecycle Replacement2012\$59,488Low

Updated: APR-08

D5020.01 Electrical Branch Wiring - *

The branch wiring consists of Armored Cable and EMTpiping with wire.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D5020.02.01 Lighting Accessories (Lighting Controls) - *

Lighting contraols are both line voltage and GE Low voltage switching.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D5020.02.02.02 Interior Florescent Fixtures - **

T-12 lamping and magnetic ballasts throughout building.

RatingInstalledDesign LifeUpdated4 - Acceptable197730MAR-08

Event: Replace Interior Florescent Fixtures

Concern:

The florescent fixtures are past their lifecycle.

Recommendation:

Replace fixtures with energy efficient T-8 lamping and electronic ballasts.

Consequences of Deferral:

The facility might have brown outs or complete blackouts with the break down of the lighting ballasts.

TypeYearCostPriorityLifecycle Replacement2012\$253,459Low

Updated: APR-08

D5020.02.03.02 Emergency Lighting Battery Packs - **

The emergency lighting battery packs are past their lifecycle. These battery packs are both Emergi-Lite and Lumacell and are located through out the facility.

RatingInstalledDesign LifeUpdated4 - Acceptable197720MAR-08

Event: Replace Emergency Lighting Battery Packs

Concern:

The battery packs might fail in an emergency situation.

Recommendation:

Replace outdated battery packs with new battery packs.

Consequences of Deferral:

Emergency lighting failure during an emergency situation causing confusion and panic.

TypeYearCostPriorityLifecycle Replacement2012\$11,537Low

Updated: APR-08

D5020.02.03.03 Exit Signs - *

The exit lights are by Lumacell and are located through out the facilidy.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D5020.03.01.01 Exterior Incandescent Fixtures - *

There are incandescent fixtures at each point of access and egress through out the school.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D5020.03.01.03 Exterior Metal Halide Fixtures - *

There is one 250 Watt fixture illuminating the parking lot on the south side of the building.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D5020.03.02 Lighting Accessories: Exterior (Lighting Controls) - *

The exterior lights are energized by a photo cell located on the roof of the school.

RatingInstalledDesign LifeUpdated4 - Acceptable19770MAR-08

D5030.01 Detection and Fire Alarm - **

The main fire alarm panel is an Edwards 6500 located in the main office.

RatingInstalledDesign LifeUpdated4 - Acceptable197725MAR-08

Event: Replace Fire Alarm

Concern:

Fire alarm system failure during a fire.

Recommendation:

Replace fire alarm system and upgrade to todays code.

Consequences of Deferral:

Safety for students and faculty might be impaired with a non-working fire alarm system.

TypeYearCostPriorityLifecycle Replacement2012\$47,590Unassigned

Updated: APR-08

D5030.02.02 Intrusion Detection**

The security system was replaced in 1997 with a Magnum Alert 3000 c/w a Magnum Alert keypad and motion sensors located through out the school.

RatingInstalledDesign LifeUpdated5 - Good199725MAR-08

Event: Replace Intrusion Detection System

TypeYearCostPriorityLifecycle Replacement2022\$5,949Unassigned

Updated: APR-08

D5030.03 Clock and Program Systems*

In 2006 the clock system was replaced with a Bogen 2000 meridian system.

RatingInstalledDesign LifeUpdated5 - Good200625MAR-08

D5030.04.01 Telephone Systems*

The telephone system is a Nortel System c/w a 750 UPS back up battery pack.

RatingInstalledDesign LifeUpdated5 - Good200625MAR-08

D5030.04.05 Local Area Network Systems - *

The local network system is Alberta Supernet by Bell.

RatingInstalledDesign LifeUpdated5 - Good19970MAR-08

D5030.05 Public Address and Music Systems**

The public address system is run through the new Bogen 2000 Multicom system.

RatingInstalledDesign LifeUpdated5 - Good200620MAR-08

Event: Replace Public Address and Music Systems

TypeYearCostPriorityLifecycle Replacement2026\$36,848Unassigned

Updated: APR-08

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

E1090.04.02 Residential Kitchen Equipment

Kitchen equipment in kitchen.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

E1090.07 Athletic, Recreational, and Therapeutic Equipment - *

Athletic equipment in gymnasium.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

E2010.02 Fixed Casework**

Fixed casework in classrooms, kindergarten, library, caretakers office, lunch/study room, boot room c3, womens staff washroom, art preparation room, science room, boys and girls washrooms and changerooms, pod classrooms and various other areas.

RatingInstalledDesign LifeUpdated3 - Marginal197735MAR-08

Event: Rplace Millwork

Concern:

Plastic laminate is old and peeling from some counters. Millwork is old.

Recommendation:

Replace counters and sinks in kindergarten #11 (5.5m), caretakers office (1.5m), c3 (0.762), c10 (0.762)

Consequences of Deferral:

Further wear and deterioration.

TypeYearCostPriorityFailure Replacement2008\$14,872Medium

Updated: APR-08



Counter in kindergarten #11

E2010.02.03 Display Casework

Display casework in corridor near entrance.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

E2010.02.07 Kitchen Casework

Kitchen casework in kitchen and resource room.

Rating	<u>Installed</u>	Design Life	Updated
5 - Good	0	0	MAR-08

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E2010.03.01 Blinds - **

Blinds in classrooms in main building and pods.

RatingInstalledDesign LifeUpdated5 - Good030MAR-08

Event: Replace Blinds

TypeYearCostPriorityLifecycle Replacement2012\$2,500Unassigned

Updated: MAY-08

E2020.03.02 Moveable Floor Mats

Moveable floor mats at entrances.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

F1010.02.04 Portable and Mobile Buildings Pod 1 (1978)*

This pod consists of four classrooms#5,6,7,8.Each classroom has a FPE electrical panel in it. These Panels are fed from a Main FPE panel located in the pod storage room.

The classrooms have Armored cable and EMT piping c/w wire for branch wiring. The interior lighting is T-12 lamping and magnetic ballasts c/w line voltage switching.

The emergency lighting is by Lumacell as is the exit lighting. The fire alarm devices are tied into the Main Fire Alarm Panel. There are Incandescent lights at each point

of egress from the pod. The public address and music system is tied into the new Bogen 2000 Multicom.

(1999)The portables are heated and ventilated by two (2) Lennox G24M3/4-100A furnaces with an input of 100,000 BTUH and an output of 82,000 BTUH providing 1,600 CFM of air at a external static pressure of 0.5", and two (2) Lennox G24M3/4-120S furnaces complete with a stainless steel heat exchanger with an input of 120,000 BTUH and an output of 98,400 BTUH providing 1,600 CFM of air at a external static pressure of 0.5". Furnaces and chimney in acceptable condition

RatingInstalledDesign LifeUpdated4 - Acceptable197830MAY-08

Event: Add fan in Storage Area

Concern:

Portables do not have exhaust fans in the Storage Rooms

Recommendation:

Install exhaust fans into Storage Rooms to provide negative pressurization as per ASHRAE 62 code.

TypeYearCostPriorityIndoor Air Quality Upgrade2008\$1,144Low

Updated: MAY-08

F1010.02.04 Portable and Mobile Buildings Pod 2 (1992)*

Pod 2 was installed in 1992 it also consists of four classrooms #12,13,14,15. These classrooms have a Commander branch circuit panel in them ,they are fed from a Commander

Main Panel located in the pod mechanical room. Electrical branch wiring consists of Armored cable and EMT piping c/w wiring. The interior florescent lighting is T-12 lamping and

magnetic ballasts c/w line voltage switching. The exterior lighting is incandescent and is located over each point of egress from the pod. The fire alarm devices are tied into the

Main Fire Alarm Panel. The public address and music system is tied into the new Bogen 2000 Multicom panel. The emergency lighting is by Lumacell as well as the exit lights.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>	
4 - Acceptable	1992	30	MAY-08	

F1010.02.04 Portable and Mobile Buildings Pod 3 (1978)*

This pod was installed in 1978 and has four classrooms in it #19,20,21,22.

These classrooms have FPE electrical panels in them, they are fed from the main FPE panel located in the pod storage room. The branch wiring is both EMT c/w wiring and Armored cable. The interior florescent fixtures are T-12 lamping and magnetic ballasts c/w line voltage switching. The exterior lighting is incandescent and is located over each point of egress from the pod. The fire alarm is tied into the Main Fire Alarm panel. The public address and music system is through the new Bogen 2000 Multicom.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1978	30	MAY-08

Event: Add Fan in Storage Room

Concern:

Portables do not have exhaust fans in the Storage Rooms

Recommendation:

Install exhaust fans into Storage Rooms to provide negative pressurization as per ASHRAE 62 code.

<u>Type</u>	<u>Year</u>	Cost	<u>Priority</u>
Indoor Air Quality Upgrade	2008	\$1,144	Low

Updated: APR-08

S8 FUNCTIONAL ASSESSMENT

K3010 Building Services

The Server Room is extremely hot and has no way of dissipating the heat generated by the electrical equipment.

RatingInstalledDesign LifeUpdated2 - Poor00MAR-08

Event: Install a split system air conditioning unit.

Concern:

The Server Room is extremely hot and has no way of dissipating the heat generated by the electrical equipment.

Recommendation:

Install a split system air conditioning unit.

TypeYearCostPriorityIndoor Air Quality Upgrade2008\$2,631High

Updated: MAY-08

K4010.01 Barrier Free Route: Parking to Entrance - *

Parking to entrance is barrier free.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

K4010.02 Barrier Free Entrances - *

Entrances are barrier free.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

K4010.03 Barrier Free Interior Circulation - *

Interior circulation is barrier free.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

K4010.04 Barrier Free Washrooms - *

Washrooms #30 & #31 are barrier free.

Rating Installed Design Life Updated
5 - Good 1977 0 MAR-08

RECAPP Facility Evaluation Report



Lorelei Elementary School S3197 Edmonton

Edmonton - Lorelei Elementary School (S3197)

Facility Details

Building Name: Lorelei Elementary School

Address:

Location: Edmonton

Building Id: \$3197
Gross Area (sq. m): 0.00
Replacement Cost: \$0
Construction Year: 0

Evaluation Details

Evaluation Company: R.Saunder Architects Ltd.

Evaluation Date: November 20 2007

Evaluator Name: Raghbir Jagdev MRAIC MAAA MAIBC

Total Maintenance Events Next 5 years: \$102,040 5 year Facility Condition Index (FCI): 0%

General Summary:

The grade along the front of the building is sinking and has poor drainage. The staff parking lot has potholes. Some boards are missing or damaged on the boardwalk along one of the pods. Front entrance slabs are sinking. One stoop is sinking.

Structural Summary:

Envelope Summary:

Interior Summary:

Mechanical Summary:

Electrical Summary:

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.	

S7 SITE

G1030 Site Earthwork (Site Grading)*

The grade at the front of the building, excluding the raised grade above main floor level and paved areas.

RatingInstalledDesign LifeUpdated3 - Marginal197750MAR-08

Event: Regrade along the building

Concern:

The grade is sinking and sloping negatively toward the building in some areas.

Recommendation:

Regrade along the building and provide a positive slope away

from the building. Approx length = 101'

Consequences of Deferral:

Further sinking of the grade and poor drainage.

TypeYearCostPriorityPreventative Maintenance2008\$5,720Low

Updated: MAY-08

G2020.02.02 Flexible Paving Parking Lots(Asphalt) - **

Asphalt paved parking lot at south side of building.

RatingInstalledDesign LifeUpdated3 - Marginal197725MAR-08

Event: Repair Pothole

Concern:

Potholes in parking lot. **Recommendation:**

Fill potholes. Approx 15m2 Consequences of Deferral:

Further deterioration and driving hazard.

TypeYearCostPriorityRepair2008\$4,576Medium

Updated: MAY-08

Event: Replace Asphalt parking lot

TypeYearCostPriorityLifecycle Replacement2012\$47,500Unassigned

Updated: MAY-08



G2020.05 Parking Lot Curbs and Gutters*

Parking lot curbs around some areas of staff parking lot.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

G2020.06.02 Parking Bumpers - *

Precast concrete wheel stops around portions of the staff parking lot.

RatingInstalledDesign LifeUpdated5 - Good00MAR-08

G2030 Pedestrian Paving (boardwalk)

Wood boardwalk around north/east pod.

RatingInstalledDesign LifeUpdated3 - Marginal19780MAR-08

Event: Replace missing or damaged boards.

Concern:

Some boards are missing or damaged from the boardwalk.

Recommendation:

Replace missing or damaged boards.

Consequences of Deferral:

Trip hazard.

TypeYearCostPriorityLifecycle Replacement2008\$1,144Low

Updated: APR-08



G2030.02.02 Asphalt Pedestrain Pavement**

Asphalt walkway around the pods.

RatingInstalledDesign LifeUpdated5 - Good020MAR-08

Event: Replace Pedestrian Pavement

TypeYearCostPriorityLifecycle Replacement2012\$2,300Unassigned

Updated: MAY-08

G2030.04 Rigid Pedestrian Pavement (Concrete) - **

Concrete slab at the front entrance f1 and secondary front entrance f5.

RatingInstalledDesign LifeUpdated3 - Marginal197725MAR-08

Event: Raise the concrete slabs

Concern:

Concrete slabs are sinking at the front entrances f1 and f5.

Recommendation:

Raise the concrete slabs to the level of the entrance. Approx. 6m2

Consequences of Deferral:

Further sinking, trip hazard and a barrier for handicap access.

TypeYearCostPriorityRepair2008\$6,864Medium

Updated: MAR-08

Event: Replace Concrete pavement

TypeYearCostPriorityLifecycle Replacement2012\$26,500Unassigned

Updated: MAY-08

G2040.03 Athletic and Recreational Surfaces**

Asphalt recreational surface between the pods and at south/east corner of the building.

RatingInstalledDesign LifeUpdated3 - Marginal025MAR-08

Event: Replace the stoop at entrance f3 with a concrete stoop

Concern:

The stoop at entrance f3 is sinking. The asphalt is sloping negatively along the building in the paved recreational areas.

Recommendation:

Replace the stoop at entrance f3 with a concrete stoop. Approx. 3 m2 Provide positive slope for drainage along the building in the paved recreational areas. Approx. Perimeter = 205'

Consequences of Deferral:

The sinking stoop is a trip hazard and a barrier for handicap access. Further sinking and poor drainage along the building in the paved recreational areas.



Updated: MAY-08





G2040.05.04 Bicycle Racks

Steel bicycle racks at the front of the building.

RatingInstalledDesign LifeUpdated5 - Good19780MAR-08

G2040.06 Exterior Signs - *

Exterior school sign.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

G2040.08 Flagpoles - *

Flagpole at front of building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

G2040.11 Retaining Walls - *

Cast in place concrete retaining walls in several locations around the south portion of the building.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

G2050.04 Lawns and Grasses - *

Lawn around the building and field.

RatingInstalledDesign LifeUpdated5 - Good19770MAR-08

G2050.05 Trees, Plants and Ground Covers - *

Trees and shrubs at the front of the building and other locations.

Rating Installed Design Life Updated
5 - Good 1977 0 MAR-08

G3010.02 Site Domestic Water Distribution*

Water to the school is provided by a 4" Domestic Cold Water line entering the property from the East. The DCW line travels south to enter the School from the South. The water line entering the school is coupled to the water meter by mild steel studs that are rusting.

RatingInstalledDesign LifeUpdated2 - Poor197750MAR-08

Event: Replace rusted studs immediately with stainless steel studs to prevent water main break

Concern:

Studs that couple the DCW line that enters the building before the water meter are made of mild steel and are rusted.

Recommendation:

Replace rusted studs immediately with stainless steel studs to prevent water main from breaking.

TypeYearCostPriorityFailure Replacement2008\$2,288High

Updated: APR-08

G3010.03 Site Fire Protection Water Distribution*

The site features a Fire Hydrant directly across from the Main Entrance to the School.

RatingInstalledDesign LifeUpdated4 - Acceptable197750MAR-08

G3020.01 Sanitary Sewage Collection*

The School is serviced by a 6" Sanitary line that Exist the School and property to the East connecting to the Municipal Main.

RatingInstalledDesign LifeUpdated4 - Acceptable197750MAR-08

G3030.01 Storm Water Collection*

Storm water on site is serviced by a Catch Basin in the Parking Lot that is connected to a 8" Storm line which joins a 10" Storm serving the School's roof drains connecting into a 12" line that exist the School Property to the East connecting to the Municipal Main. A second Catch Basin on the School's North Side is connected to the main 12" line exiting the School Property to the East.

RatingInstalledDesign LifeUpdated4 - Acceptable197750MAR-08

G3030.03 Storm Water Ponds and Reservoirs*

Roof is being used as a pond with Zurn Flo-Control roof drains connected to the 10" storm line.

RatingInstalledDesign LifeUpdated5 - Good199850MAR-08

G3060.01 Gas Distribution*

The School is serviced by a 4" Gas line which enters the Property from the East side of the School. The Gas line enters the Meter Room from the South.

RatingInstalledDesign LifeUpdated4 - Acceptable197750MAR-08

G4010.02 Electrical Power Distribution Lines*

The main power lines go from the padmount transformer to the MDP in the electrical room.

RatingInstalledDesign LifeUpdated4 - Acceptable197750MAR-08

G4010.03 Electrical Power Distribution Equipment*

The main electrical equipment is a padmount transformer.

RatingInstalledDesign LifeUpdated4 - Acceptable197750MAR-08

G4010.04 Car Plugs-ins*

There are eighteen car receptacles for thirty six parking stalls located in the south parking lot.

RatingInstalledDesign LifeUpdated4 - Acceptable197725MAR-08

G4020.01 Area Lighting*

There are two wall mounted 75 watt metal halide lights illuminating the parking lot.

RatingInstalledDesign LifeUpdated4 - Acceptable197725MAR-08