

RECAPP Facility Evaluation Report

Lloydminster Pub Sch #1753



Lloydminster Comprehensive High School

B3725A

Lloydminster (AB)

| Facility Details | |
|----------------------------|----------------------------|
| Building Name: | Lloydminster Comprehensive |
| Address: | 5615 - 42 Street |
| Location: | Lloydminster (AB) |
| Building Id: | B3725A |
| Gross Area (sq. m): | 13,237.13 |
| Replacement Cost: | \$48,545,000 |
| Construction Year: | 1968 |

| Evaluation Details | |
|----------------------------|---|
| Evaluation Company: | MAYCON Architectural & Engineering Services |
| Evaluation Date: | August 18 2011 |
| Evaluator Name: | Vic Maybroda |

| | |
|---|---------------------|
| Total Maintenance Events Next 5 years: | \$18,750,393 |
| 5 year Facility Condition Index (FCI): | 38.62% |

General Summary:

The original school was constructed in 1968.
 In 1971 a CTS addition was constructed on the west side of the school.
 In 1985 a second floor to the 1968 section was constructed.
 Various upgrades and modernizations have occurred over the years.
 Total gross area of the facility is 13, 237.13 sq. M.

Structural Summary:

Cast in place structural concrete main floor, with precast floor and roof members, steel framed roof members concrete slab on grade,
 With exception of precast concrete gymnasium roof all structural elements are in good condition.

Envelope Summary:

Exterior brick cladding with concrete block back-up housing aluminum framed sealed fixed windows, aluminum framed storefronts, painted metal clad utility doors, painted metal clad overhead doors, aluminum framed curtain wall element and precast concrete panels with inverted roof over all sections.
 Precast concrete facing members located on 2nd floor require replacement due to structural failure.

The building envelope is in good condition.

Interior Summary:

Partitions are typically painted concrete block and metal stud with painted gypsum board.
 Ceiling finishes including acoustic tile, gypsum board and exposed concrete tees.
 Floor finishes include epoxy and resilient flooring, carpet, ceramic, porcelain and paver tile, and painted concrete.
 Doors are hollow metal and solid core wood set in pressed steel frames.
 Millwork is clear wood with plastic laminated counter tops.
 Visual display boards are located in teaching and administration areas.

Building interiors are in good condition.

Mechanical Summary:

Original school built in 1968 with second floor addition in 1985.
 Heating system consists of two hot water boilers, distribution piping to air system coils and terminal heat transfer units.
 Heating media is hot water.
 Ventilation provided by three built up air systems and two packaged gas fired rooftop units.
 Exhaust fans expel foul odors.
 Plumbing fixture and brass are commercial quality.
 Controls are pneumatic. BMCS installed.
 Fire protection consists of wet standpipe with fire hose cabinets, fire extinguishers.

Overall mechanical system is in acceptable condition, but many of components are aged and will require replacement in near future.

Electrical Summary:

The facility was originally built in 1968 with additions in 1970 and in 1985. The main service is 347/600V 3-phase, 4-wire and rated 1000A; The service is underground fed from on site pad mounted transformer, and 60 KW diesel fuelled emergency generator connected to emergency lighting system in building.

The fluorescent fixtures were retro fitted to T-8 fluorescent lamp completed with electronics ballasts in hallways, and class rooms. Metal Halide lights were installed in the Gym area.

All Fire alarm, intrusion detection, telephone and Public address systems meet current facility requirements.

The overall rating for the facility shall be "Acceptable"

| 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* - 1968 & 1971 Sections

Perimeter and interior grade beams bearing on concrete spread footings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

A1030 Slab on Grade* - 1968 & 1971 Sections

Concrete slab on grade throughout.
Service tunnels under portions of main floor of cast in place walls, floor and roof.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B1010.01 Floor Structural Frame (Building Frame)* - All Sections

Structural concrete slab over servicing crawl space supported by concrete piers and cast-in-place concrete walls for main floor level.

Structural concrete slab 2nd floor bearing on concrete block walls.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

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

Load bearing concrete block supporting roof assemblies.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

B1010.03 Floor Decks, Slabs, and Toppings*

Concrete topping over precast concrete tees for second floor.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 0 | JAN-12 |

B1010.05 Mezzanine Construction* - 1968 & 1971 Sections

Cast in place concrete slab at mezzanines in CTS shops and gym.
Wood framed mezzanines added at each end of stage.
Steel framed with plywood floor mezzanine in Wood Working Shop.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

B1010.07 Exterior Stairs*

Steel framed stair to access electrical room from grade.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 0 | JAN-12 |

B1020.01 Roof Structural Frame* - 1968 Section

Precast concrete tees bearing on precast concrete beams and columns.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 0 | JAN-12 |

Event: Reair Precast Roof Members of Gymnasium

Concern:

Deflection of concrete tees causing displacement on bearing structure and exterior walls of gymnasium.

Recommendation:

Provide structural modifications to 200 sq. M precast concrete tees.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair | 2011 | \$40,000 | High |

Updated: JAN-12

B1020.01 Roof Structural Frame* - 1971 Section

Precast concrete tees bearing on concrete block

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

B1020.01 Roof Structural Frame* - 1985 Section

Open web steel joists bearing on steel beams and concrete block.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1985 | 0 | JAN-12 |

Event: Replace 30 sq. m Precast Panels

Concern:

Existing exterior precast concrete fascia wall panels secured to steel framed roof structure causing deformation of roof frame and cracking interior block walls.

Recommendation:

Replace 30 sq. M precast concrete wall panels.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2011 | \$12,000 | High |

Updated: JAN-12

B1020.04 Canopies*

Precast concrete tees bearing on precast concrete beams and columns at entrances.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 0 | JAN-07 |

S2 ENVELOPE

B2010.01.01 Precast Concrete: Exterior Wall Skin* - 1985 Section

Precast concrete fascia panels located over main and second floor windows.
Refer to B1020.01 - 1985 Section for replacement.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1985 | 0 | JAN-12 |

B2010.01.01 Precast Concrete: Exterior Wall Skin* -1968 an 1971 Sections

Precast concrete panels at fascia panels.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

B2010.01.02.01 Brick Masonry: Ext. Wall Skin* - All Sections

Brick cladding as outer wythe in cavity wall

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B2010.01.02.02 Concrete Block: Ext. Wall Skin*

Concrete block wall construction to Construction Lab storage building.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1971 | 0 | JAN-12 |

B2010.01.09 Expansion Control: Ext. Wall* - All Sections

Caulked control joints at dissimilar materials and at specified intervals of brick faced walls throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

B2010.01.11 Joint Sealers (caulking): Ext. Wall** - 1971 Section

Caulking around all exterior wall openings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 20 | JAN-12 |

Event: Replace 110L M Caulking

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$3,850 | Unassigned |

Updated: JAN-12

B2010.01.11 Joint Sealers (caulking): Ext. Wall - 1968 Section**

Caulking around all exterior openings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 20 | JAN-12 |

Event: Replace 928L M Caulking

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$32,480 | Unassigned |

Updated: JAN-12

B2010.01.11 Joint Sealers (caulking): Ext. Wall - 1985 Section**

Caulking around all exterior wall openings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 20 | JAN-12 |

Event: Replace 380L M Caulking

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$13,300 | Unassigned |

Updated: JAN-12

B2010.02.03 Masonry Units: Ext. Wall Const.* - All Sections

Concrete block as inner wythe of cavity walls.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B2010.03 Exterior Wall Vapour Retarders, Air Barriers, and Insulation* - All Sections

Trowelled sheet air barrier and rigid insulation within cavity of exterior walls.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B2010.05 Parapets* - All Sections

Pre-finished cap flashings where exposed to view and galvanized where not exposed to view in most areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B2010.06 Exterior Louvers, Grilles, and Screens* - 1968 & 1971 Sections

Clear anodized and painted aluminum grilles.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B2010.09 Exterior Soffits* -

Cedar and plaster soffits at entrance canopies.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 0 | JAN-12 |

B2020.01.01.02 Aluminum Windows (Glass & Frame) - 1968 Section**

Aluminum framed windows with double glazed sealed units and having prefinished insulated panels below window units.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 40 | JAN-12 |

Event: Replace 65 Window Units

Concern:

Windows reported to be drafty; nearing end of effective life.

Recommendation:

Replace windows with aluminum frame double glazed sealed units.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012 | \$97,500 | Low |

Updated: JAN-12

B2020.01.01.02 Aluminum Windows (Glass & Frame) - 1971**

Aluminum framed sealed fixed and opening units

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 40 | JAN-12 |

Event: Replace 7 Window Units

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$7,000 | Unassigned |

Updated: JAN-12

B2020.01.01.02 Aluminum Windows (Glass & Frame) - 1985**

Aluminum framed sealed fixed units with prefinished panels below window unit.
Aluminum framed sealed fixed units in stairways.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 40 | JAN-12 |

Event: Replace 36 Window Units

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$45,000 | Unassigned |

Updated: JAN-12

B2020.03 Glazed Curtain Wall**

Aluminum framed curtain wall with sloped glazing (double sealed units) at east side of second floor addition.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 40 | JAN-12 |

Event: Replace 48 sq. M Glazed Curtain Wall

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$60,000 | Unassigned |

Updated: JAN-12

B2030.01.01 Aluminum-Framed Storefronts: Doors - 1968 Section**

Glazed aluminum entrances set in aluminum frames at all major entrances.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 18 Aluminum Framed Entrance Doors

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$54,400 | Unassigned |

Updated: JAN-12

B2030.01.01 Aluminum-Framed Storefronts: Doors - 1971 Section**

Glazed aluminum framed storefront doors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 30 | JAN-12 |

Event: Replace 4 Aluminum Entrance Doors

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$13,600 | Unassigned |

Updated: JAN-12

B2030.02 Exterior Utility Doors - 1968 Section**

Painted insulated metal clad doors and frames.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 40 | JAN-12 |

Event: Replace 4 Exterior Utility Doors

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$4,000 | Unassigned |

Updated: JAN-12

B2030.02 Exterior Utility Doors - 1971 Section**

Painted metal clad insulated doors and frames.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 40 | JAN-12 |

Event: Replace 5 Exterior Utility Doors

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$5,000 | Unassigned |

Updated: JAN-12

B2030.03 Large Exterior Special Doors (Overhead)*

5-Metal overhead doors to CTS shops.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

B3010.01 Deck Vapour Retarder and Insulation* - All Areas.

Not viewable. No concerns reported or observed.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

B3010.04.08 Membrane Roofing (Inverted/Protected) - 1968 Section**

Inverted roof with gravel ballast.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 10,240 sq. M Inverted Roofing

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$1,945,600 | Unassigned |

Updated: JAN-12

B3010.04.08 Membrane Roofing (Inverted/Protected) - 1971 Section**

Inverted roof with gravel ballast.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 30 | JAN-12 |

Event: Replace 2900 sq. M Inverted Roofing

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$551,000 | Unassigned |

Updated: JAN-12

B3010.04.08 Membrane Roofing (Inverted/Protected) - 1985 Section**

Inverted roof with gravel ballast.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 190 sq. M Inverted Roofing

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$36,000 | Unassigned |

Updated: JAN-12

B3010.09 Roof Specialties and Accessories* - All Sections

Steel ladders to access second floor roof CTS shops and gym roof from lower roof.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

B3020.01 Skylights - 1985 Section**

1 Pyramidal skylight and 2 rectangular aluminum framed skylights with double glazed sealed units.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 25 | JAN-12 |

Event: Replace 3 Skylights

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$6,750 | Unassigned |

Updated: JAN-12

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

Roof hatch, roof drains, plumbing and exhaust vents.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

S3 INTERIOR

C1010.01.03 Unit Masonry Assemblies: Partitions - All Sections

Concrete block partitions.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 100 | JAN-12 |

C1010.01.07 Framed Partitions (Stud) - All Sections

Metal stud frame with gypsum board/plaster.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 100 | JAN-12 |

C1010.04 Interior Balustrades and Screens, Interior Railings* - All Sections

Metal railings at gym mezzanine.

Metal railing to mezzanine located in CTS areas and Drama Room mezzanine.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

C1010.05 Interior Windows* - All Sections

Single glazing set in pressed steel frames throughout. Bulk of glass is wired, balance appears to be laminated or tempered.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C1010.06 Interior Glazed Partitions and Storefronts* - All Sections

Steel framed storefronts with single glazing throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

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

Painted and clear finish solid core wood doors with and without glazed lites set in pressed steel frames throughout. Doors equipped with lever handles.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

C1020.03 Interior Fire Doors* - All Sections

Hollow metal doors set in pressed steel frames.
Hardware upgraded in 2010.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

C1020.04 Interior Sliding and Folding Doors*

Steel operable partitions to subdivide the gym.
Stainless steel horizontal grilles at cafeteria counters.
Sliding single glazed doors in Library.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C1020.05 Interior Large Doors*

Overhead steel fire shutters located at 2 stairs to second floor.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 0 | SEP-07 |

C1030.01 Visual Display Boards - 1968 Section**

Chalkboards, whiteboards and tackboards located in teaching areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 20 | JAN-12 |

Event: Replace 80 Visual Display Boards

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$52,000 | Unassigned |

Updated: JAN-12

C1030.01 Visual Display Boards - 1971 Section**

White and tack boards located in teaching areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 20 | JAN-12 |

Event: Replace 32 Visual Display Boards

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$20,800 | Unassigned |

Updated: JAN-12

C1030.01 Visual Display Boards - 1985 Section**

White and tack boards located in teaching areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 20 | JAN-12 |

Event: Replace 56 Visual Display Boards

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$36,400 | Unassigned |

Updated: JAN-12

C1030.02 Fabricated Compartments (Toilets/Showers) - 1968 Section**

Floor supported plastic laminate clad toilet partitions in washrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 20 Fabricated Toilet Partitions

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$24,000 | Unassigned |

Updated: JAN-12

C1030.02 Fabricated Compartments (Toilets/Showers) - 1971 Section**

Prefabricated metal toilet partitions.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 30 | JAN-12 |

Event: Replace 9 Prefabricated Toilet Partitions

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$10,800 | Unassigned |

Updated: JAN-12

C1030.02 Fabricated Compartments (Toilets/showers) - 1985 Section**

Heavy duty toilet partitions of laminated plywood panels hollow metal frames and hollow metal doors with lever handles.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1991 | 30 | JAN-12 |

Event: Replace 13 Toilet Partitions

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2021 | \$15,600 | Unassigned |

Updated: JAN-12

C1030.05 Wall and Corner Guards* - All Sections

Stainless steel and vinyl corner guards.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C1030.06 Handrails* - All Sections

Painted metal handrails to access mezzanine stairs.
Stained wood handrails to stairs accessing 2nd floor of 1985 section.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

C1030.08 Interior Identifying Devices*- All Sections

Aluminum and plastic lamicoïd signage.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C1030.10 Lockers - 1968 Section**

Full height lockers located in corridors. Half height lockers located in change rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1965 | 30 | JAN-12 |

Event: Replace 860 Lockers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$430,000 | Unassigned |

Updated: JAN-12

C1030.10 Lockers - 1971 Section**

Full height lockers locate in corridors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 30 | JAN-12 |

Event: Replace 140 Lockers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$70,000 | Unassigned |

Updated: JAN-12

C1030.10 Lockers - 1985 Section**

Prefabricated metal lockers located in corridors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 400 Lockers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$200,000 | Unassigned |

Updated: JAN-12

C1030.12 Storage Shelving* - All Sections

Clear finish plywood storage shelving.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

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

Commercial grade mirrors, soap dispensers, toilet tissue dispensers and toilet tissue holders in all washrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C2010 Stair Construction* - All Sections

Concrete stairs to second floor of 1985 Section and to gymnasium mezzanines of 1968 Section.

Concrete stair located in corridor between 1968 and 1971 Sections.

Wood framed stairs to gym stage, CTS mezzanines and to mezzanines at each end of stage. Metal ladders to some mezzanines adjacent gym stage.

Metal stair located in Mechanical Room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C2020.01 Tile Stair Finishes* - 1985 Section

Quarry tile floor finishes on stairs to second floor.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 0 | JAN-12 |

C2020.05 Resilient Stair Finishes**

Resilient stair treads and risers; vinyl tile landings to stairs to gym mezzanines and to gym stage.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 20 | JAN-12 |

Event: Replace 65 sq. M Resilient Stair Finish

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$5,850 | Unassigned |

Updated: JAN-12

C2030 Interior Ramps*

Concrete ramp located in corridor between 1968 and 1971 Sections.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

C3010.02 Wall Paneling - 1968 Section**

Wood wall paneling in staff room and administrative office area.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 30 | JAN-12 |

Event: Replace 20 sq. M Wall Paneling

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$4,000 | Unassigned |

Updated: JAN-12

C3010.06 Tile Wall Finishes - 1968 Section**

Ceramic wall tile located in boys change room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1991 | 40 | JAN-12 |

Event: Replace 110 sq. M Ceramic Wall Tile

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2031 | \$27,500 | Unassigned |

Updated: JAN-12

C3010.09 Acoustical Wall Treatment - 1971**

Acoustic wall panels added to Band Room and Drama Room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 20 | JAN-12 |

Event: Replace 40 sq. M Acoustic Wall Panels

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2018 | \$8,800 | Unassigned |

Updated: JAN-12

C3010.11 Interior Wall Painting* - All Sections

Gypsum board and concrete block wall surfaces are painted throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

C3020.01.01 Epoxy Concrete Floor Finishes* - All Sections

Epoxy floors located in corridors, wash rooms, food preparation area and various service rooms and teaching spaces.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 0 | 0 | JAN-12 |

Event: Repair 120 sq. M Epoxy Flooring

Concern:

Epoxy floors contain separation cracks in various corridor areas.

Recommendation:

Repair epoxy floors.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair | 2012 | \$15,000 | Low |

Updated: JAN-12

C3020.01.02 Painted Concrete Floor Finishes* - All Sections

Painted concrete floor finishes in selected mechanical and electrical rooms. Concrete hardener finish on floors in CTS shops.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

C3020.02 Tile Floor Finishes - 1968 Section**

Porcelain tile in administration area, student offices, cafeteria and ceramic tile gym change rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1998 | 50 | JAN-12 |

Event: Replace 360 sq. M Tile Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2048 | \$57,600 | Unassigned |

Updated: JAN-12

C3020.02 Tile Floor Finishes - 1971 Section**

Ceramic tile located in washrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 50 | JAN-12 |

Event: Replace 40 Sq. M Tile Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2021 | \$6,800 | Unassigned |

Updated: JAN-12

C3020.02 Tile Floor Finishes - 1985 Section**

Porcelain tile located in 2nd floor student lounge area.

Ceramic tile located in wash rooms.

Paver tile located in stairways.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 50 | JAN-12 |

Event: Replace 244 sq. m Tile Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$41,480 | Unassigned |

Updated: JAN-12

C3020.04 Wood Flooring**

Wood gymnasium floor completely refinished in 2011.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 30 | JAN-12 |

Event: Replace 870 sq. M Wood Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$217,500 | Unassigned |

Updated: JAN-12

C3020.07 Resilient Flooring - 1968 Section**

Sheet vinyl flooring in classrooms and administration areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 20 | JAN-12 |

Event: Replace 2125 sq. M Resilient Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$191,250 | Unassigned |

Updated: JAN-12

C3020.07 Resilient Flooring - 1968 Section**

Cushioned rubber flooring added to gym mezzanine weight room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 20 | JAN-12 |

Event: Replace 92 sq. M Cushioned Rubber Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$9,200 | Unassigned |

Updated: JAN-12

C3020.07 Resilient Flooring - 1985 Section**

Sheet vinyl flooring located in teaching areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 20 | JAN-12 |

Event: Replace 1420 sq. M Sheet Vinyl Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$127,800 | Unassigned |

Updated: JAN-12

C3020.08 Carpet Flooring - 1968 Section**

Carpet replaced in library.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 15 | JAN-12 |

Event: Replace 160 sq. M Carpet Flooring

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$10,400 | Unassigned |

Updated: JAN-12

C3030.06 Acoustic Ceiling Treatment (Susp. T-Bar) - 1971 Section**

Suspended acoustical tile ceilings located in corridors and various teaching spaces.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 25 | JAN-12 |

Event: Replace 840 sq. M Acoustical Tile Ceilings

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$42,000 | Unassigned |

Updated: JAN-12

C3030.06 Acoustic Ceiling Treatment (Susp. T-Bar) - 1985**

Acoustical tile ceilings located in corridors and teaching areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 25 | JAN-12 |

Event: Replace 1480 Sq. M Acoustical Tile Ceilings

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$74,000 | Unassigned |

Updated: JAN-12

C3030.06 Acoustic Ceiling Treatment (Susp. T-Bar)- 1968 Section**

Suspended t-bar grid system with acoustic tiles in corridors, classrooms and offices.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 25 | JAN-12 |

Event: Replace 6270 sq. M Acoustical Tile Ceilings

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$313,500 | Unassigned |

Updated: JAN-12

C3030.07 Interior Ceiling Painting* - All Sections

Gypsum board ceilings are painted.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

D1010.01.02 Hydraulic Passenger Elevators**

Schindler 910 kg. hydraulic elevator.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 30 | JAN-12 |

Event: Replace Passenger Elevator

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$350,396 | Unassigned |

Updated: JAN-12

S4 MECHANICAL

D2010.04 Sinks** - 1968

Stainless steel, various sizes, single and double compartment.
Shampoo and mop sinks.
Commercial grade sinks in the kitchen.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 40 sinks.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$75,000 | Unassigned |

Updated: JAN-12

D2010.04 Sinks** - 1985

Stainless steel, various sizes.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1986 | 30 | JAN-12 |

Event: Replace 18 Sinks

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2016 | \$27,000 | Unassigned |

Updated: JAN-12

D2010.05 Showers**

Institutional head, on/off tempered water.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 25 showers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$50,000 | Unassigned |

Updated: JAN-12

D2010.08 Drinking Fountains/Coolers**

Vitreous china, non refrigerated wall mounted drinking fountains in corridors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 35 | JAN-12 |

Event: Replace 10 drinking fountains

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$25,000 | Unassigned |

Updated: JAN-12

D2010.10 Washroom Fixtures (WC, Lav, Urnl) - 1968**

UR - Stall, flush valve.
 WC - Floor, flush valve and tank, open front seat.
 LV - Vitreous china. Spring loaded brass. Wall hung, on/off brass.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 35 | JAN-12 |

Event: Replace 90 Washroom Fixtures

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$135,000 | Unassigned |

Updated: JAN-12

D2010.10 Washroom Fixtures (WC, Lav, Urnl) - 1985**

WC - Floor, flush valve, open front seat.
 LV - Vitreous china wall mounted and countertops..
 UR - Wall, flush valve.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1986 | 35 | JAN-12 |

Event: Replace 20 Washroom Fixtures.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2021 | \$30,000 | Unassigned |

Updated: JAN-12

D2020.01.01 Pipes and Tubes: Domestic Water*

Copper piping and fittings. Galvanized piping installed on large pipe sizes.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D2020.01.02 Valves: Domestic Water**

Operation of valves suspect. Many do not hold or operate.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 40 | JAN-12 |

Event: Replace 450 domestic water isolation valves.

Concern:

Isolation valves do not hold.

Recommendation:

Replace isolation valves throughout.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012 | \$80,000 | Medium |

Updated: JAN-12

D2020.01.03 Piping Specialties (Backflow Preventers)**

No backflow preventor installed on irrigation system, fire line, boiler make up line.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 20 | JAN-12 |

Event: Install deficient backflow preventors.

Concern:

No backflow prevention installed on fire line, irrigation system, boiler make up line.

Recommendation:

Install deficient backflow preventors.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|--------------|-------------|-------------|-----------------|
| Code Upgrade | 2012 | \$35,000 | High |

Updated: JAN-12

D2020.02.02 Plumbing Pumps: Domestic Water**

System inline recirculation pump and boiler/storage tank circulation pump.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1992 | 20 | JAN-12 |

Event: Replace 2 Plumbing Pumps: Domestic Water

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$5,000 | Unassigned |

Updated: JAN-12

D2020.02.06 Domestic Water Heaters - 2004**

Tekagi instantaneous water heater complete with side stream filter, 41kW heating capacity.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2004 | 20 | JAN-12 |

Event: Replace Domestic Water Heater

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2024 | \$10,000 | Unassigned |

Updated: JAN-12

D2020.02.06 Domestic Water Heaters - 2006**

Two domestic water heaters Bradford White, commercial Deluxe Ewnergy Saver, glass lined, natural gas fired with an input capacity of 88 kW, storage volume of 389 L and a 419 litre per hour recovery at 55 degrees Celcius.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2006 | 20 | JAN-12 |

Event: Replace 2 Water Heaters

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2026 | \$15,000 | Unassigned |

Updated: JAN-12

D2020.03 Water Supply Insulation: Domestic*

Majority of domestic hot, cold, recirculation piping insulated.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D2030.01 Waste and Vent Piping*

Cast iron and copper.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 0 | JAN-12 |

Event: Clean and video sewer line.

Concern:

Poor sewer drainage in kitchen area.

Recommendation:

Clean sewer line. Video line to ensure line alignment is correct.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|------------------------------|-------------|-------------|-----------------|
| Operating Efficiency Upgrade | 2012 | \$18,000 | Low |

Updated: JAN-12

D2030.03 Waste Piping Equipment*

Sump pumps complete with submersible pumps.
Grease trap serving kitchen sinks.
Double compartment sumps in IA area.
Interceptor in art room.
Bottle traps in science rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D2040.01 Rain Water Drainage Piping Systems*

Connected to underground storm drainage.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D2040.02.04 Roof Drains*

Cast iron dome, full flow.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

Event: Replace roof drains

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$39,517 | Unassigned |

Updated: APR-08

D3010.02 Gas Supply Systems*

Gas distribution piping to boilers, science rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

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

Forced draft Napanene boilers. Complete with low water cut off, relief valve 1,838 kW heating output each.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 35 | JAN-12 |

Event: Replace Heating Boilers and Accessories: H.W.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$385,000 | Unassigned |

Updated: JAN-12

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

Shared chimney. Insulated combustion air.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 35 | JAN-12 |

Event: Replace Chimneys & Comb. Air): H.W. Boiler. 15m length.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$35,000 | Unassigned |

Updated: JAN-12

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

Chemical pot feeder, side stream filter.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3020.05 Auxiliary Equipment: Heat Generation*

Air cushion expansion tanks.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3030.06.01 Refrigeration Compressors**

200 ton duplex compressors complete with refrigerant receiver. Compressor rebuilt in 1980.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980 | 25 | JAN-12 |

Event: Replace refrigeration system.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$250,000 | Unassigned |

Updated: JAN-12

D3030.06.02 Refrigerant Condensing Units**

Dry cooler serving AC system. Capacity unknown.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2002 | 25 | JAN-12 |

Event: Replace Dry Cooler

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2027 | \$85,000 | Unassigned |

Updated: JAN-12

D3030.08 Other Refrigeration Systems*

Freezer and cooler air cooled compressor/condensing units.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3040.01.01 Air Handling Units: Air Distribution - Gym**

Gymnasium heated and ventilated by field fabricated indoor unit consisting of motorized fresh, return dampers, filter, hot water heating coil, Dx cooling coil, supply fan, low velocity ductwork distribution, staged roof mounted exhaust fans.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 30 | JAN-12 |

Event: Replace Gymnasium Air System

Concern:

Indication given air system provides inadequate ventilation during high occupancy.

Recommendation:

Install new custom packaged rooftop unit.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012 | \$285,000 | Medium |

Updated: JAN-12

D3040.01.01 Air Handling Units: Air Distribution - Primary**

Primary air system supplies air to majority of school via medium velocity ductwork to induction units. Unit consists of motorized fresh, return, exhaust air dampers, filter, heating coil, Dx cooling coil, supply fan, return fan. Medium velocity supply ductwork, underground tunnel return air. Dampers replaced in 2002. Heating coils replaced due to freeze up in 2004. Booster fans added in tunnel return air to assist in maintaining building pressurization.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Install deficient ventilation.

Concern:

No ventilation air in some rooms.

Recommendation:

Provide ventilation in all rooms.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|----------------------------|-------------|-------------|-----------------|
| Indoor Air Quality Upgrade | 2012 | \$15,000 | Medium |

Updated: JAN-12

Event: Replace Primary air handling unit.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$350,000 | Unassigned |

Updated: JAN-12

D3040.01.01 Air Handling Units: Air Distribution - Vocational Wing**

Vocational wing ventilated by field fabricated indoor unit consisting of motorized fresh, return, exhaust air dampers, filter, hot water heating coil, supply fan, return fan, low velocity ductwork distribution. Air to air heat exchanger installed and does not function.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 30 | JAN-12 |

Event: Replace Vocational Wing air handling unit.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$200,000 | Unassigned |

Updated: JAN-12

D3040.01.03 Air Cleaning Devices: Air Distribution*

50 mm throw away media.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3040.01.04 Ducts: Air Distribution*

Medium velocity above grade and underground to induction units. Other systems with low velocity aboveground galvanized ductwork.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3040.01.07 Air Outlets & Inlets: Air Distribution*

Vary as to type and year installed. Round, linear. Return air linear, egg crate.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3040.03.01 Hot Water Distribution Systems**

Hot water circulated via black iron piping to heating elements. Seven base mounted pumps (3 standby) circulate the hot water.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 40 | JAN-12 |

Event: Replace Hot Water Distribution System. BOE: 13,237 sq.m. GFA.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$1,400,000 | Unassigned |

Updated: JAN-12

D3040.04.01 Fans: Exhaust - Dust collection**

Murphy recirculation dust collection, related overhead ductwork and hoods.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1986 | 30 | JAN-12 |

Event: Replace dust collection system.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$95,000 | Unassigned |

Updated: JAN-12

D3040.04.01 Fans: Exhaust - General**

Variety of roof or ceiling mounted exhaust fans. Exhaust fans capacities vary from 36 to 8730 l/s. Exhaust fans serve washrooms, heat producing equipment, fume hoods, general exhaust system etc.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 48 exhaust fans.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$145,000 | Unassigned |

Updated: JAN-12

D3040.04.01 Fans: Exhaust - Kitchen Range**

Commercial grade kitchen range hood exhaust to NFPA 96.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace - Ktchen Exhaust System

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$20,000 | Unassigned |

Updated: JAN-12

D3040.04.01 Fans: Exhaust - Paint Room**

Paint room exhaust ineffective.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1968 | 30 | JAN-12 |

Event: Replace paint room ventilation system.

Concern:

Paint room exhaust not adequate.

Recommendation:

Install exhaust hood with paint arrestance filter and make up air unit.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012 | \$85,000 | High |

Updated: JAN-12

D3040.04.01 Fans: Exhaust - Vocation Wing**

Vocation wing requires in depth review of exhaust and make up requirements.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1971 | 30 | JAN-12 |

Event: Replace vocational wing ventilation system.

Concern:

Paint room exhaust ineffective. Dust migration from dust collector occurs. Some hoods and equipment disabled. Exhaust fans added to improve ventilation. Majority of exhaust units are obsolete and replacement parts are difficult to find.

System does not provide adequate ventilation for the space.

Recommendation:

Replace exhaust fans serving Vocation Wing and provide new designated make-up air unit interlock with exhaust system.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012 | \$300,000 | Medium |

Updated: JAN-12

D3040.04.03 Ducts: Exhaust*

Low velocity, galvanized connect to exhaust air outlets and fans.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3040.04.05 Air Outlets and Inlets: Exhaust*

Vary as to year installed. Linear bar, egg crate.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D3050.01.01 Computer Room Air Conditioning Units**

Packaged Split AC system serving Computer Lab. Unknown capacity and refrigerant type.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2004 | 30 | JAN-12 |

Event: Replace Computer Lab AC System

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2034 | \$25,000 | Unassigned |

Updated: JAN-12

D3050.01.02 Packaged Rooftop Air Conditioning Units (& Heating Units)**

Lennox packaged gas fired units for drama and art rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1998 | 30 | JAN-12 |

Event: Replace 2 Rooftop Units

Concern:

Relief dampers have been secured shut due to infiltration. Temperature control in space poor.

Recommendation:

Replace units with custom units complete with motorized dampers and supply and return fans.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012 | \$65,000 | High |

Updated: JAN-12

D3050.05.02 Fan Coil Units**

Wall mounted force flow heaters serving vestibules complete with hot water heating coils and control valves.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 8 fan coils.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$45,000 | Unassigned |

Updated: JAN-12

D3050.05.03 Finned Tube Radiation**

Exposed fin in greenhouse. Element within enclosure and millwork.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 40 | JAN-12 |

Event: Replace radiation. BOE: 2,000 sq.m. GFA.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$100,000 | Unassigned |

Updated: JAN-12

D3050.05.04 Induction Units**

Ceiling units in interior and perimeter wall units.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 80 induction units

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$525,000 | Unassigned |

Updated: JAN-12

D3050.05.06 Unit Heaters**

Horizontal hydronic unit heater in emergency generator room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace unit heater.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$4,000 | Unassigned |

Updated: JAN-12

D3050.05.08 Radiant Heating (Ceiling & Floor)**

Radiant panels installed in music room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1998 | 35 | JAN-12 |

Event: Replace Ceiling Radiant Panels. 25m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2033 | \$25,000 | Unassigned |

Updated: JAN-12

D3060.02.02 Pneumatic Controls**

Duplex air compressor, auto drain, refrigerated air dryer, pneumatic thermostats, control valves, damper motors. (1998) Transducers to integrate pneumatic components with BMCS.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 40 | JAN-12 |

Event: Replace pneumatic controls. BOE: 13,237 sq.m. GFA.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$195,000 | Unassigned |

Updated: JAN-12

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

Basic BMCS installed.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 20 | JAN-12 |

Event: Replace BMS. BOE: 13,237 sq.m GFA.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2018 | \$265,000 | Unassigned |

Updated: JAN-12

D3090 Other Special HVAC Systems and Equipment* - 1985

Emergency generator complete with motorized fresh, recirc, exhaust dampers.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 0 | JAN-12 |

D3090 Other Special HVAC Systems and Equipment* - 2005

Shop air compressor.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2005 | 0 | JAN-12 |

D4020 Standpipes*

Wet standpipe to fire hose cabinets. Cabinets complete with valve, hose, pump tank extinguisher.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D4030.01 Fire Extinguisher, Cabinets and Accessories*

ABC fire extinguishers install on wall hooks, cabinets, fire hose cabinets.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

Event: Replace extinguishers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$21,000 | Unassigned |

Updated: JAN-12

D4090 Other Fire Protection Systems - Storage Cabinets

Chemicals currently stored in regular cabinets.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 1985 | 0 | JAN-12 |

Event: Install storage cabinets. BOE: 6 cabinets.

Concern:

Chemicals stored in regular cabinets.

Recommendation:

Install approved metal storage cabinets.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|----------------------------|-------------|-------------|-----------------|
| Indoor Air Quality Upgrade | 2012 | \$18,000 | High |

Updated: JAN-12

D4090.04 Dry Chemical Fire Extinguishing Systems (Kitchen Hood)**

Range hood dry chemical fire suppression.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

Event: Replace kitchen range fire suppression

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$25,000 | Unassigned |

Updated: JAN-12

D4090.07 Fire Pumps & Water Storage Tanks*

Fire pump for wet standpipe system.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

S5 ELECTRICAL

D5010.02 Secondary Electrical Transformers (Interior)**

One 225 KVA, two 150 KVA, and three 30 KVA total six dry type 600-120/208V, 3PH, 4W transformers were located throughout building, and looking clean.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 40 | JAN-12 |

Event: Replace 6 Secondary Electrical Transformers (Interior)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$115,000 | Unassigned |

Updated: JAN-12

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

Square D, 1000A, 347/600V main distribution panel is located in electrical room, and there are not much space for future additions. There is also emergency main power distribution panel integrated with transfer switch.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 40 | JAN-12 |

Event: Replace 2 Main Electrical Switchboard (Main Distribution)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$60,000 | Unassigned |

Updated: JAN-12

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)**-1968

Square D panel boards located throughout school with 347/600V panels typically for lighting and 120/208V panels typically for receptacle loads. There are not much space for future loads.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 35 Electrical Branch Circuit Panelboards (Secondary Distribution)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$175,000 | Unassigned |

Updated: JAN-12

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)-1985**

Square D Panelboards located in storage rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 8 Electrical Branch Circuit Panelboards (Secondary Distribution)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$40,000 | Unassigned |

Updated: JAN-12

D5010.07.01 Switchboards, Panelboards, and (Motor) Control Centers**

One and three sections of MCCs were installed in mechanical room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 4 Switchboards, Panelboards, and (Motor) Control Centers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$30,000 | Unassigned |

Updated: JAN-12

D5010.07.02 Motor Starters and Accessories-1968**

Individual motor starters and load switches are used major mechanical ventilation units and some small water pumps.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 90 Motor Starters and Accessories

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$54,000 | Unassigned |

Updated: JAN-12

D5010.07.02 Motor Starters and Accessories-1985**

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 20 Motor Starters and Accessories

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$12,000 | Unassigned |

Updated: JAN-12

D5010.07.03 Variable Frequency Drives**

Benshaw VFD were installed for a mechanical load.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1998 | 30 | JAN-12 |

Event: Replace 1 Variable Frequency Drive]**

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2028 | \$6,000 | Unassigned |

Updated: JAN-12

D5020.01 Electrical Branch Wiring*-1968

Branch wirings were originally installed with building; the wires are either installed in conduits or the BX wires.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D5020.01 Electrical Branch Wiring*-1985

Branch wirings were originally installed with building; the wires are either installed in conduits or the BX wires.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 0 | JAN-12 |

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

Mixture of low voltage and line voltage switching with each room having their own switch to control lights. Low voltage switches has been relocated from public location to storage room for corridor in 2010.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D5020.02.02.02 Interior Fluorescent Fixtures**

The existing T-12 lights were retro fitted to energy efficient T-8 lamp type fixtures completed with electronic ballasts throughout the school class room, offices.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2010 | 30 | JAN-12 |

Event: Replace 2650 Interior Fluorescent Fixtures

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$530,000 | Unassigned |

Updated: JAN-12

D5020.02.02.03 Interior Metal Halide Fixtures*

Pendant hung metal halide light fixtures were installed in gymnasium.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 0 | JAN-12 |

D5020.02.02.05 Other Interior Fixtures*

Incandescent type spot lights for service to stage in gym.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 0 | JAN-12 |

D5020.02.03.03 Exit Signs*

Exit signs retro fitted to include LED lamps in 1998. Exit signs are installed required locations, and exits

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 0 | JAN-12 |

D5020.03.01.03 Exterior Metal Halide Fixtures*

Pole and wall mounted metal halide fixtures were installed in the parking lot and along building perimeter.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2009 | 0 | JAN-12 |

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

Exterior lighting is appears to be photo-cell controlled, and it was integrated to building management system in 1998.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D5030.01 Detection and Fire Alarm**

Simplex 2001 fire alarm panel were installed at main front entrance vestibule and completed with fire alarm bells, pull station, and detectors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2002 | 25 | JAN-12 |

Event: Replace Fire Alarm System

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2027 | \$265,000 | Unassigned |

Updated: JAN-12

D5030.02.02 Intrusion Detection**

DSC maxys security system is used for facility security system and has motion sensor installed in the hallways and door contactors installed at exterior doors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 6 - Excellent | 2010 | 25 | JAN-12 |

Event: Replace Intrusion Detection

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$130,000 | Unassigned |

Updated: JAN-12

D5030.02.04 Video Surveillance**

Geo Vision GV-1240 Video surveillance system was installed and completed with monitoring, and cameras in common areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 6 - Excellent | 2010 | 25 | JAN-12 |

Event: Replace Video Surveillance

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$65,000 | Unassigned |

Updated: JAN-12

D5030.03 Clock and Program Systems*

Simplex 2350 master time clock were installed for bell system and it is integrated to PA system. DC clocks in each classroom.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-12 |

D5030.04.01 Telephone Systems*

Panasonic KX TDE 100 completed with TVM 200 voice processing system (automated voicing system) were installed for telephone system, and basic telephones were installed for each classroom.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2009 | 0 | JAN-12 |

D5030.04.04 Data Systems*

Data outlets are installed through school classrooms, computer labs and offices; and Cat 5 cables are installed either conduit or free air.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 0 | JAN-12 |

D5030.04.05 Local Area Network Systems*

One server, data racks, patch panels, and hubs were installed throughout the facility and through super-net connected to regional school board. Wii Fi wireless network is installed in 2011 summer.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 0 | JAN-12 |

D5030.05 Public Address and Music Systems**

BogenMulti-Com 2000 PA system with service to corridors and classrooms, which used to does intercom function for school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1998 | 20 | JAN-12 |

Event: Replace Public Address and Music Systems

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2018 | \$65,000 | Unassigned |

Updated: JAN-12

D5030.06 Television Systems*

Basic cable TV system with cable TV outlet in each classroom.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 0 | JAN-07 |

D5090.01 Uninterruptible Power Supply Systems**

There are two UPS (650VA, and 900VA) for server, and telephone back board.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1998 | 30 | JAN-12 |

Event: Replace two Uninterruptible Power Supply Systems

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2028 | \$4,000 | Unassigned |

Updated: JAN-12

D5090.02 Packaged Engine Generator Systems (Emergency Power System)**

There is Simpover 60 KW, 347/600V, 3 phase, 4 Wire diesel fuelled emergency generator completed with automatic transfer switch.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 35 | JAN-12 |

Event: Replace onePackaged Engine Generator System (Emergency Power System)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$75,000 | Unassigned |

Updated: JAN-12

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION**E1010.07 Vending Equipment* - All Setions**

Vending machines located in corridors in several locations.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

E1020.02 Library Equipment*

Electronic sensors at library entrance; book drop.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1995 | 0 | JAN-07 |

E1020.03 Theatre and Stage Equipment*

Ceiling mounted light fixtures and drapery.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

E1020.07 Laboratory Equipment* - 1968 and 1985 Sections

Fume hoods located in Science Rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

E1030.01 Vehicle Service Equipment*

Miscellaneous service equipment including vehicle wash bay in CTS shops and 3 vehicles hoists.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1971 | 0 | JAN-12 |

E1090.03 Food Service Equipment* - 1968 Section

Commercial kitchen equipment located in cafeteria kitchen including deep fat fryer, dishwasher, natural gas range with fire suppressed range hood.

Walk-in freezer and cooler installed in 2010.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1995 | 0 | JAN-12 |

E1090.04 Residential Equipment* - All Sections

Residential range, refrigerator and microwave ovens in staff room. Residential ranges, refrigerators and microwave ovens in CTS student kitchens. Dishwashers in staff and CTS Foods. washers and dryers CTS fashion preparation area.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1995 | 0 | JAN-12 |

E1090.07 Athletic, Recreational, and Therapeutic Equipment* - 1968 Section

Four ceiling hung plexiglass and four wall hung plywood backboards for basketball located in gym, hockey and badminton nets and equipmnet. Electronic scoreboard and shot clocks in gym. Weight training equipment located in upper mezzanine.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 0 | JAN-12 |

E1090.10 Agricultural Equipment*

Planting trays and watering equipment located in Green House.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

E2010.02 Fixed Casework - 1968 Section**

In 2011 the estimated costs are as follows:

Clear finish plywood casework with plastic laminate clad counter tops in teaching areas, staff room, cafeteria kitchen.

Replacement cost@ \$100/GSM = \$114,000.00

Plastic laminate vanity counter tops.

Replacement cost@ \$50/GSM = \$3,500.00

Clear finished reception and library counters with plastic laminate finish and glazed door display case.

Replacement cost - 3@\$ 2,000.00 = \$ 6,000.00

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 35 | JAN-12 |

Event: Replace Fixed Casework

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$123,500 | Unassigned |

Updated: JAN-12

E2010.02 Fixed Casework - 1971 Section**

In 2011 the estimated costs are as follows:

Clear finished casework with plastic laminated counter tops located in teaching spaces.

Replacement cost@ \$100/GSM = \$ 63,000.00

Plastic laminated counter tops to vanities and construction lab area.

Replacement cost@ \$50/GSM = \$ 16,000.00

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 35 | JAN-12 |

Event: Replace Fixed Casework

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$7,900,000 | Unassigned |

Updated: JAN-12

E2010.02 Fixed Casework - 1985 Section**

In 2011 the estimated costs are as follows:

Fixed Casework with plastic laminated counter tops located in teaching and staff support areas.

Replacement cost@ \$100/GSM = \$ 112,000.00

Plastic laminated counter tops in wash rooms.

Replacement cost@ \$50/GSM = \$ 2,400.00

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 35 | JAN-12 |

Event: Replace Fixed Casework

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$114,400 | Unassigned |

Updated: JAN-12

E2010.02 Fixed Casework - Science Rooms - 1968 and 1986 Sections**

Clear finished wood counters with acid resistant counter tops.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2010 | 35 | JAN-12 |

Event: Replace Science Room Counter Tops @ \$75/GSM

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2045 | \$45,000 | Unassigned |

Updated: JAN-12

E2010.02 Fixed Casework - Science Rooms - 1971 Section**

Clear finished wood wall mounted upper and lower cabinetry located in science rooms and science prep rooms.

| | | | |
|----------------------|-------------------------|---------------------------|-----------------------|
| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
| 4 - Acceptable | 1971 | 35 | JAN-12 |

Event: Replace Science Room Cabinetry @ \$125/GSM

| | | | |
|-----------------------|--------------------|--------------------|------------------------|
| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
| Lifecycle Replacement | 2015 | \$75,000 | Unassigned |

Updated: JAN-12

E2010.03.01 Blinds - 1968 Section**

Horizontal louvre blinds on exterior windows.

| | | | |
|----------------------|-------------------------|---------------------------|-----------------------|
| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 48 sq. M Blinds

| | | | |
|-----------------------|--------------------|--------------------|------------------------|
| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
| Lifecycle Replacement | 2015 | \$4,800 | Unassigned |

Updated: JAN-12

E2010.03.01 Blinds - 1971 Section**

Horizontal louvred blinds over exterior windows.

| | | | |
|----------------------|-------------------------|---------------------------|-----------------------|
| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 7 sq. M Blinds

| | | | |
|-----------------------|--------------------|--------------------|------------------------|
| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
| Lifecycle Replacement | 2015 | \$1,000 | Unassigned |

Updated: JAN-12

E2010.03.01 Blinds - 1985 Section**

Horizontal louvred blinds over exterior windows.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1985 | 30 | JAN-12 |

Event: Replace 24 sq. M Blinds

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$2,400 | Unassigned |

Updated: JAN-12

E2010.03.06 Curtains and Drapes**

Heavy fabric curtains at welding booths.
Replacement cost - 6@250/Booth = \$ 1,250.00 estimated in 2011.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2009 | 30 | JAN-12 |

Event: Replace Welding Booth Curtains

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2039 | \$1,250 | Unassigned |

Updated: JAN-12

E2010.05 Fixed Multiple Seating**

Fixed seating and tables located in 2nd floor student area.
Replacement cost@ \$75/GSM = \$ 9,000.00 estimated in 2011.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1985 | 35 | JAN-12 |

Event: Replace Fixed Seating

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$9,000 | Unassigned |

Updated: JAN-12

F1010.02.03 Glazed Structures*

Fully glazed Green House located over CTS area.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

F1010.02.05 Grandstands and Bleachers**

Wood and metal retractable bleachers seating 200 in gym and 400 on gym mezzanine.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968 | 30 | JAN-12 |

Event: Replace 600 Gym Bleacher Seats

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015 | \$125,000 | Unassigned |

Updated: JAN-12

F1020.02.02 Sound-Conditioned Rooms*

3-Sound conditioned rooms located in Music Room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1971 | 0 | JAN-12 |

F1020.02.04 Cold Storage Rooms*

Walk-in coolers and freezers located in Cafeteria kitchen.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2010 | 0 | JAN-12 |

F1020.02.13 Paint Booths*

Paint booth provided in CTS shops.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1971 | 0 | JAN-12 |

S8 SPECIAL ASSESSMENT

K4010.01 Barrier Free Route: Parking to Entrance*

Access provided from drop off at front of school to main entrance and from BFA parking at north east corner of school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 0 | JAN-07 |

K4010.02 Barrier Free Entrances*

Barrier free access provided with power assisted door operators at main entrance, north east and north west entrance.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 1968 | 0 | JAN-12 |

K4010.03 Barrier Free Interior Circulation* - All Sections

Access good to all areas. Doors equipped with lever handles.
Public counter at main entrance reception area.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 0 | 0 | JAN-12 |

Event: Improve BFA at Public Counter and Phones

Concern:

Public counter does not have a lowered section to serve handicapped access.

Pay telephone provided at main entrance. Coin slots are too high for BFA (1600 mm existing, 1370 mm required).

Recommendation:

Introduce lower section in counter and provide new telephone enclosure and mount at maximum height of 1370 mm measured from coin slots.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------------|-------------|-------------|-----------------|
| Barrier Free Access Upgrade | 2012 | \$2,750 | Low |

Updated: JAN-12

K4010.04 Barrier Free Washrooms* - All Sections

Barrier free washrooms provided.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0 | 0 | JAN-12 |

K4030.01 Asbestos* - All Sections

Asbestos removal undertaken for mechanical equipment.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2009 | 0 | JAN-12 |

K4030.02 PCBs* - All Sections

No PCBs reported or observed.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

K4030.04 Mould* - All Sections

No mould conditions observed or reported.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

K4030.09 Other Hazardous Materials* - All Sections

No other hazardous materials reported or observed.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 0 | 0 | JAN-12 |

K5010 Reports, Drawings and Studies

On 18 August 2011, Vic Maybroda of MAYCON Architectural & Engineering Services accompanied by Slavek Strzelczyk of bacz Engineering Ltd. And Erol Seymen of Acuity Engineering & Consulting Services Ltd. Were accompanied by Mr. Bernard Gauthier and his staff in an on-site building and site review of the Lloydminster High School.

The original school was constructed in 1985 with additions undertaken in 1971 and 1985.

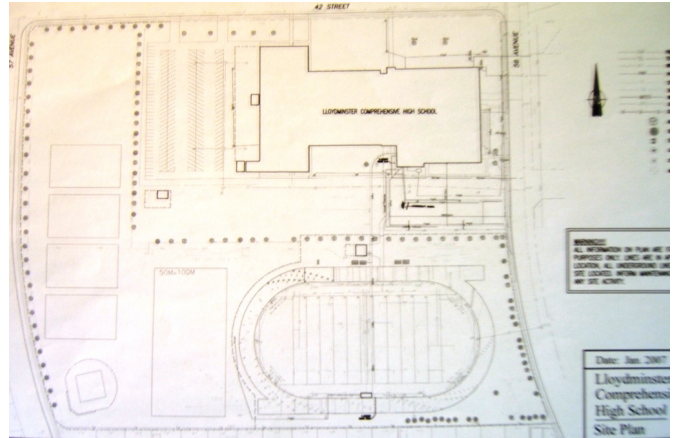
Upgrades to various have been undertaken over the years.

Presently the facility is undertaking structural repairs to the gymnasium roof supports and replacement to precast concrete elements on 2nd floor exterior facades.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2011 | 0 | JAN-12 |

K5010.01 Site Documentation*

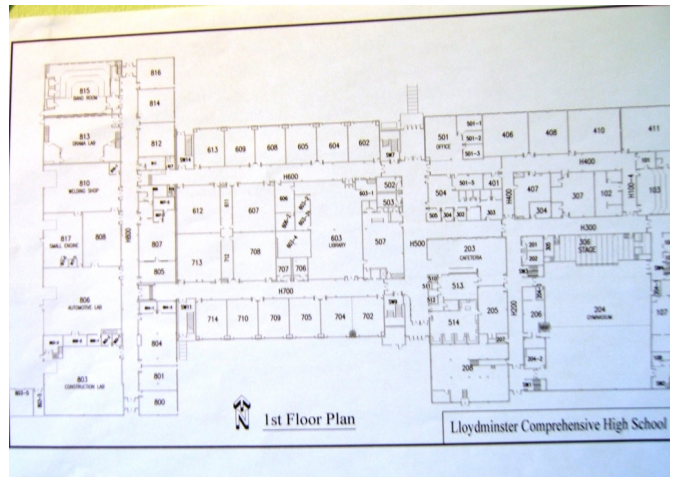
| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2011 | 0 | JAN-12 |



Site Plan

K5010.02 Building Documentation*

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2011 | 0 | JAN-12 |



Main Floor Plan