

# **RECAPP Facility Evaluation Report**

**Edmonton School District No. 7**



**Dan Knott Junior High School**

B3086A  
Edmonton

**Facility Details**

**Building Name:** Dan Knott Junior High School  
**Address:** 1434 - 80 Street  
**Location:** Edmonton

**Building Id:** B3086A  
**Gross Area (sq. m):** 5,909.60  
**Replacement Cost:** \$12,383,000  
**Construction Year:** 1980

**Evaluation Details**

**Evaluation Company:** A&E Architectural & Engineering Group Inc.

**Evaluation Date:** November 17 2011

**Evaluator Name:** Vic Maybroda

**Total Maintenance Events Next 5 years:** **\$2,923,458**  
**5 year Facility Condition Index (FCI):** **23.61%**

**General Summary:**

The school is a single storey facility constructed in 1980 of 4406.7 sq. M. In 1981 two 4 classroom portable additions (pods) were added at the south and east end of school with a total area of 870.3 sq. M. In 1990, a six portable classroom pod addition of 542.5 sq. M was added to the east side of the facility.

The school including portables contains 15 classrooms, a computer room, 3 science rooms, an art room, a drama room, a music room, a home economics area, an industrial arts area, a weight training room, a library, 2 gymnasiums, administration and ancillary support spaces.

At the time of the site visit there were 440 enrolled students.

**Structural Summary:**

The roof is composed of metal deck on OWSJ supported by concrete block walls and steel columns. The foundations consist of concrete grade beams and concrete piles with concrete slab on grade.

Overall the elements appear to be in acceptable condition.

**Envelope Summary:**

Roofing consist of built-up roofing and SBS membrane with exterior walls of face brick cladding and textured stucco housing sealed fixed and opening aluminum framed windows with painted metal mesh screens installed over various units, painted steel storefront and painted steel utility doors in metal frames. Sealed fixed clerestorey glazing in aluminum frames is located over the library and main entry area.

Overall the elements appear to be in acceptable condition.

**Interior Summary:**

Flooring consists of quarry and ceramic tile, vinyl composite tile (VCT), sheet vinyl, carpeting, wood strip and painted concrete.

Walls are composed of painted concrete block, painted and vinyl covered gypsum wallboard, and stained and painted wood paneling. Doors are stained wood and painted metal in metal frames.

Ceilings consist of suspended acoustical tile, painted gypsum wallboard and painted structural elements.

Casework consists of painted and stained cabinetry with plastic laminated counter tops.

Prefinished metal toilet partitions and shower compartments are located in wash and shower rooms.

Prefinished metal lockers are located in corridors and change rooms.

Window covering consist of louvred blinds and fabric curtains.

Overall the elements appear to be in acceptable condition.

**Mechanical Summary:**

Heating is provided by two Raytherm atmospheric hot water boilers in mechanical penthouse. Heating water is pumped to heating coils, forced flow heaters, hot water baseboard radiators heaters and unit heaters. A shell and tube heat exchange provides heat from hot water to glycol solution to feed the glycol heating coil.

Ventilation for the building is provided by a built up air handling unit in mechanical penthouse. The unit is c/w a supply

and return air fans, glycol heating coil, steam humidifier (which is inoperative) a mixing section for return air and outside air. The supply air to the building is c/w with reheat coils for each zone.

The Gym and Lunch room have a separate supply air unit which is c/w supply air and return air fans, reheat coil and mixing section.

Special exhaust systems includes a dust collection system and fume extraction system in Industrial Arts Room and exhaust system for Science Lab in Classrooms 108 and 109.

A cast iron steam boiler in mechanical room which is to provide steam humidification to the air handling unit is inoperative and not being used.

The control system consists of a pneumatic air compressor and dryer, which operates the thermostats, and control valves. A Barbar Coleman Network Control system provides remote monitoring and controls of the heating system.

The plumbing fixtures include stainless steel sinks, stainless steel lavatories, porcelain lavatories, flush valve floor mounted water closets and urinals, flush tank floor mounted water closets, showers, janitor sinks, floor drains and wall mounted porcelain drinking fountains.

Both water and gas meters are located in the Exterior Storage room. The underground water main was replaced in 2004.

Fire protection system includes an elec. fire pump, standpipe and fire hose cabinets . The fire pump is feed by a gas-fired emergency generator. There is no sprinklers system installed in this building.

Overall the mechanical systems are in acceptable condition.

**Electrical Summary:**

The facility was originally built in 1980 and had portable classroom additions in 1981 and 1990. Since than there is no major renovation and/or modernization.

The main electrical service is 120/208V, 3-phase, 4-wire and rated 1200A; The service is underground fed from a pad mounted transformer.

A 50kW natural gas emergency generator is located in the main electrical room.

The fluorescent fixtures mostly were retro fitted to T-8 lamp fluorescent with electronics ballasts.

All fire alarm, intrusion, telephone and Public address and Music systems meet current facility requirements.

The overall rating for the facility electrical systems shall be "Good"

**Rating Guide**

| <b>Condition Rating</b> | <b>Performance</b>  |
|-------------------------|---|
| 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\***

The foundations consist of cast-in-place concrete grade beams and concrete piles.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 5 - Good             | 1980                    | 0                         | MAR-12                |

**A1030 Slab on Grade\***

Cast-in-place concrete slabs-on-grade.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 5 - Good             | 1980                    | 0                         | MAR-12                |

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

Concrete block walls and steel columns.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**B1010.05 Mezzanine Construction\***

Concrete slab on metal deck on OWSJ supported by concrete block walls.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 5 - Good             | 1980                    | 0                         | MAR-12                |

**B1020.01 Roof Structural Frame\***

Metal roof deck with steel structure supported by exterior & interior concrete walls and steel columns.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**S2 ENVELOPE****B2010.01.02.01 Brick Masonry: Ext. Wall Skin\***

Face brick to all facades.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**B2010.01.06.03 Metal Siding\*\***

The exterior walls of the library on the roof level have prefinished metal siding.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 40                 | MAR-12         |

**Event: Replace 40 sq. M Metal Siding**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$11,600    | Unassigned      |

**Updated:** MAR-12

**B2010.01.08 Cement Plaster (Stucco): Ext. Wall\***

Textured stucco fascias and upper gymnasium walls.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 0                  | MAR-12         |

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

Sealant is located around all window, door and exterior cladding assemblies.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1980             | 20                 | MAR-12         |

**Event: Replace 335 L M Cauling****Concern:**

Caulking has become hard, brittle and separating from substrate.

**Recommendation:**

Remove existing caulking and replace with recommended material.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012        | \$10,500    | Low             |

**Updated:** MAR-12

**B2010.01.13 Paints (& Stains): Ext. Wall\*\***

Painted metal clad doors and frames and metal mesh window covers.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1990             | 15                 | MAR-12         |

**Event: Replace 40 sq. M Painted Surfaces**

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

**Updated:** MAR-12

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

Concrete block.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**B2010.06 Exterior Louvers, Grilles, and Screens\***

Prefinished metal louvres with prefinished metal security screens on several classroom windows.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**B2010.09 Exterior Soffits\***

Exterior soffits consist of a stucco finish.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

Sealed fixed and opening units in aluminum frames.  
Sealed fixed clerestorey units in aluminum frames.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace 75 sq. M Window Units**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$75,000    | Unassigned      |

**Updated:** MAR-12

**B2030.01.02 Steel-Framed Storefronts: Doors\*\***

Entry doors are painted steel doors with painted steel frames with GWG inserts and sealed upper glazing units.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 13 Steel-Framed Storefronts**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$28,600    | Unassigned      |

**Updated:** MAR-12

**B2030.02 Exterior Utility Doors\*\***

Painted metal clad insulated doors and frames.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace 7 Utility Doors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$7,000     | Unassigned      |

**Updated:** MAR-12

**B3010.01 Deck Vapour Retarder and Insulation\***

Not viewable. No concerns observed or reported.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**B3010.04.04 Modified Bituminous Membrane Roofing (SBS)\*\***

South east roof section.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000             | 25                 | MAR-12         |

**Event: Replace 2427 sq. M SBS Roofing**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025        | \$412,590   | Unassigned      |

**Updated:** MAR-12**B3010.04.04 Modified Bituminous Membrane Roofing (SBS)\*\***

SBS membrane.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2007             | 25                 | MAR-12         |

**Event: Replace 1958 Sq. M SBS Roofing**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2032        | \$332,900   | Unassigned      |

**Updated:** MAR-12**B3020.02 Other Roofing Openings (Hatch, Vent, etc)\***

Chimney, exhaust and plumbing vents and roof drains.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |



**S3 INTERIOR****C1010.01 Interior Fixed Partitions\***

Concrete block and metal stud.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**C1010.02 Interior Demountable Partitions\***

Vinyl covered gypsum wallboard.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**C1010.05 Interior Windows\***

Interior glazed windows with GWG are located in the library and main office area.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | AUG-06                |

**C1020.01 Interior Swinging Doors (& Hardware)\***

Solid core painted and/or clear finished wood doors in painted steel frames.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**C1020.03 Interior Fire Doors\***

Fire doors are located in the common area corridors between the original building and each addition and to mechanical and service rooms.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**C1020.04 Interior Sliding and Folding Doors\***

Fire rated overhead mounted metal shutter between food preparation area and small gymnasium.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**C1030.01 Visual Display Boards\*\***

Tackboards, chalkboards and whiteboards are located in teaching areas.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 20                 | MAR-12         |

**Event: Replace 18 Visual Display Boards**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$23,400    | Unassigned      |

**Updated:** MAR-12

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

7 - Metal shower compartments.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Repalce 7 Shower Compartments**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$14,700    | Unassigned      |

**Updated:** MAR-12

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

20 - Metal toilet partitions.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1980             | 30                 | MAR-12         |

**Event: Replace 20 Toilet Paritions****Concern:**

Doors, pilasters and finishes worn.

**Recommendation:**

Replace prefinished metal partitions.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012        | \$24,000    | Medium          |

**Updated:** MAR-12

**C1030.05 Wall and Corner Guards\***

1.2M high stainless steel corner guards installed in various locations.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**C1030.08 Interior Identifying Devices\***

The room number or room name are applied to interior doors.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**C1030.10 Lockers\*\***

278 two tier lockers located in Change Rooms.  
445 single tier lockers located in Corridors.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace Lockers**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$274,480   | Unassigned      |

**Updated:** MAR-12

**C1030.12 Storage Shelving\***

Clear finish plywood storage shelving throughout.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | AUG-06         |

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

Paper towel dispensers, toilet paper dispensers, hand-soap dispensers, waste bins and mirrors.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**C2010 Stair Construction\***

The stairs to the upper mechanical penthouse are open steel stairs with a paint finish.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | AUG-06         |

**C2020.08 Stair Railings and Balustrades\***

Painted steel handrails on the stairwell stairs to the mechanical penthouse.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | AUG-06         |

**C3010.02 Wall Paneling\*\***

Painted wood paneling located in Drama Room, Small Gymnasium and Large Gymnasium.  
Stained wood paneling located in Library and Music Room.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 438 sq. M Wall Paneling**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$87,600    | Unassigned      |

**Updated:** MAR-12

**C3010.02 Wall Paneling\*\***

Stained horizontal wood strip cladding located in main entry corridor space walls.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1980             | 30                 | MAR-12         |

**Event: Replace/ Repair 30 sq. M Wall Paneling****Concern:**

Material badly worn and chipped. Finish deteriorated and unsightly.

**Recommendation:**

Sand existing finish to cladding, replace damaged pieces and restain.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012        | \$3,000     | Medium          |

**Updated:** MAR-12

**C3010.06 Tile Wall Finishes\*\***

Wash and Shower Rooms have a 4"x4" ceramic tile wall finish.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace 138 sq. M Wall Tile**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$33,120    | Unassigned      |

**Updated:** MAR-12

**C3010.11 Interior Wall Painting\***

Painted concrete block and gypsum wallboard.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1995             | 0                  | MAR-12         |

**C3020.01.02 Painted Concrete Floor Finishes\***

Painted/sealed concrete floors are located in the industrial arts room, mechanical room and custodial rooms.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1990             | 0                  | MAR-12         |

**C3020.02 Tile Floor Finishes\*\***

116 sq. M Quarry tile located in main entry corridor.

172 sq. M Ceramic tile flooring is located in the entrance vestibules, wash and change rooms.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 50                 | MAR-12         |

**Event: Replace Floor Tile**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030        | \$53,660    | Unassigned      |

**Updated:** MAR-12

**C3020.04 Wood Flooring\*\***

Hardwood flooring is located in the large gymnasium refinished in 2006.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 30                 | MAR-12         |

**Event: Replace 490 sq. M Wood Flooring**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$122,500   | Unassigned      |

**Updated:** MAR-12

**C3020.07 Resilient Flooring\*\***

Sheet Vinyl is located in the small gymnasium

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2005             | 20                 | MAR-12         |

**Event: Replace 184 sq. M Sheet Vinyl Flooring**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025        | \$16,560    | Unassigned      |

**Updated:** MAR-12

**C3020.07 Resilient Flooring\*\***

VCT is located throughout the classrooms, ancillary rooms, science rooms and corridors replaced in 2010.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2010             | 20                 | MAR-12         |

**Event: Replaced 1530 sq. M VCT flooring,**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030        | \$84,150    | Unassigned      |

**Updated:** MAR-12

**Event: flooring replacement**

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2011        | \$67,677    | Low             |

**Updated:** MAR-12

**C3020.08 Carpet Flooring\*\***

Carpeting is located in the all the classrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2000             | 15                 | MAR-12         |

**Event: Replace 792 sq. M Carpeting**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$51,480    | Unassigned      |

**Updated:** MAR-12

**Event: Replace Carpet Flooring - 1990 Addition****Concern:**

Exceeded theoretical useful life.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2011        | \$22,558    | Unassigned      |

**Updated:** MAR-12

**Event: flooring replacement**

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2011        | \$45,118    | Unassigned      |

**Updated:** MAR-12

**Event: library and music/drama**

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2011        | \$52,499    | Unassigned      |

**Updated:** MAR-12

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

Located in teaching areas, library, corridors and administration areas.

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

**Event: Replace 2352 sq. M Acoustic Ceiling Tiles**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$329,308   | Unassigned      |

**Updated:** MAR-12

**C3030.07 Interior Ceiling Painting\***

All gypsum board ceilings & exposed steel structures have a paint finish.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |



**S4 MECHANICAL****D2010.04 Sinks\*\***

Stainless steel single and double -compartment kitchen and lab sinks, oversized stainless steel sink in Industrial Arts room.

Floor mounted service sink.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 44 sinks**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$62,000    | Unassigned      |

**Updated:** MAR-12

**D2010.05 Showers\*\***

Shower heads are installed in ceramic tile shower rooms The water temperature is controlled by a mixing valve.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 13 Showers**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$15,000    | Unassigned      |

**Updated:** MAR-12

**D2010.08 Drinking Fountains/Coolers\*\***

Vitreous china wall mounted porcelain drinking fountains.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

**Event: Replace 4 Drinking Fountains.**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$6,000     | Unassigned      |

**Updated:** MAR-12

**D2010.10 Washroom Fixtures (WC, Lav, Urnl)\*\* - 1980**

Floor mounted water closets with flush valves and flush tanks in Staff Washrooms.  
 Floor mounted urinals with flush valves.  
 Vitreous china wall and counter top lavatories.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

**Event: Replace Washroom Fixtures (WC=25, Lav=13, Urn=8)**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$66,000    | Unassigned      |

**Updated:** MAR-12**D2010.10 Washroom Fixtures (WC, Lav, Urnl)\*\* - 1999**

stainless steel counter top lavatories

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1999             | 35                 | MAR-12         |

**Event: Replace 12 lavs**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2034        | \$14,000    | Unassigned      |

**Updated:** MAR-12**D2020.01.01 Pipes and Tubes: Domestic Water\***

water pipes are copper pipes.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D2020.01.02 Valves: Domestic Water\*\***

Plumbing fixtures are equipped with isolating valves.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace 211 Domestic Water Valves**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$43,000    | Unassigned      |

**Updated:** MAR-12

**D2020.01.03 Piping Specialties (Backflow Preventers)\*\***

Boilers and steam boiler are c/w back flow preventers as well as sprinkler system

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1999             | 20                 | MAR-12         |

**Event: Replace 2 Backflow Preventors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2019        | \$9,000     | Unassigned      |

**Updated:** MAR-12

**D2020.02.02 Plumbing Pumps: Domestic Water\*\***

Domestic hot water recirculating pump located in boiler room, and has exceeded its life expectancy. Replace pump with new.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 20                 | MAR-12         |

**Event: Replace 1 Domestic Hot Water Recirculating Pump**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$2,000     | Unassigned      |

**Updated:** MAR-12

**D2020.02.06 Domestic Water Heaters\*\***

A.O. Smith BTRC120-110 268.7 l storage, 31.6 Kw input.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2003             | 20                 | MAR-12         |

**Event: Replace 2 Domestic Water Heaters**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2023        | \$5,000     | Unassigned      |

**Updated:** MAR-12

**D2020.03 Water Supply Insulation: Domestic\***

Domestic water pipe insulation in the building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D2030.01 Waste and Vent Piping\***

Cast iron and copper piping

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D2030.02.04 Floor Drains\***

Floor drains are installed in mech room, washrooms, and showers.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D2040.01 Rain Water Drainage Piping Systems\***

The storm water system is made up of cast iron pipes connected into the municipal storm system.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D2040.02.04 Roof Drains\***

Cast iron roof drains with domes.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D3010.02 Gas Supply Systems\***

150 mm steel piping installed from meter to equipment.

The science classrooms are c/w with a main shut-off valve locates in each Science Lab Classroom to control the gas valves in each laboratory station.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D3020.01.01 Heating Boilers & Accessories: Steam\*\* - Boiler #3**

Gas-fired cast iron seam boiler H.B. Smith G-400 586 Kw input and 468.8 Kw output. Is not being used.

| <u>Rating</u>  | <u>Installed</u>     | <u>Design Life</u>   | <u>Updated</u> |
|----------------|----------------------|----------------------|----------------|
| 4 - Acceptable | 1980                 | 35                   | MAR-12         |
|                | <u>Capacity Size</u> | <u>Capacity Unit</u> |                |
|                | 586                  | kW                   |                |

**Event: Repair - Boiler #3]**

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2011        | \$19,506    | Unassigned      |

**Updated:** JUN-11

**Event: Replace 1 steam boiler**

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

**Updated:** MAR-12

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

B-vent chimney is serving the steam boiler system.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

**Event: Replace 3m of flue**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$2,000     | Unassigned      |

**Updated:** MAR-12

**D3020.01.04 Water Treatment: Steam Boilers\***

Chemical treatment system consists of a chemical barrel and a feeding pump

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

Hot Water heating boilers Raytherm Model 1353-WTD; input=396.4 Kw.  
Pumps Taco BB2008-7.70, 3.6 l/s @ 18.2m

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

**Event: Replace 2 heating boilers & accessories**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$120,000   | Unassigned      |

**Updated:** MAR-12

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

B-vent chimneys and combustion air duct and louver.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

**Event: Replace 6m of chimneys and comb air**

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

**Updated:** MAR-12

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

Side stream strainers and chemical pot feeder.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D3040.01.01 Air Handling Units: Air Distribution\*\***

AS-1 built up air unit with supply air and return air fans, glycol heating coil, humidifier, which is inoperative, filters and mixing box. The supply air fan delivers 10,435 L/S at 1,060 Pa. Return air fan delivers 9,100 L/S at 250 Pa.

AS-2 packaged unit supply air and return air fans, glycol heating coil, humidifier, filters and mixing box serving Gymnasium, Lunch room. The supply air fan delivers 4,040 L/S at 435 Pa. Return air fan delivers 3,270 L/S at 250 Pa.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 2 Air Handling Units**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$127,000   | Unassigned      |

**Updated:** MAR-12

**D3040.01.03 Air Cleaning Devices: Air Distribution\***

Air filters in the Air Handling Units and furnaces.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D3040.01.04 Ducts: Air Distribution\***

Galvanized metal low velocity ductwork in ceiling space.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

Air outlets and inlets includes ceiling mounted or wall mounted linear diffusers, eggcrates return air grille, door grilles, square ceiling diffusers.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

Steel piping with insulation and steam condensate return sump and pumps. (system in inoperative)

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace 30m of steam distribution piping**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$2,000     | Unassigned      |

**Updated:** MAR-12

**D3040.03.01 Hot Water Distribution Systems\*\***

Heating water piping schedule 40 steel piping thruout building to baseboard heating cabinets and reheat coils in classrooms and offices.  
glycol heating pumps, P-3 and P-4 serve heating coils in air handling units.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace Hot Water Distribution Systems BOE=5909 sq.m.**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$355,000   | Unassigned      |

**Updated:** MAR-12

**D3040.04.01 Fans: Exhaust\*\***

Roof mounted centrifugal exhaust fan service the industrial art kiln, washrooms and kitchen range hoods.  
Dust collect Murphy CN-2 is located in the industrial art room

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 19 exhaust fans**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$96,000    | Unassigned      |

**Updated:** MAR-12

**D3040.04.03 Ducts: Exhaust\***

Standard galvanized ducting.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D3040.04.05 Air Outlets and Inlets: Exhaust\***

Exhaust inlets include aluminum wall mounted exhaust air grilles and eggcrate.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D3040.05 Heat Exchangers\*\***

A shell and tube heat exchanger in the mechanical room provides glycol to the heating coils in the air units.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 1 Heat Exchangers**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$16,000    | Unassigned      |

**Updated:** MAR-12



**D3050.03 Humidifiers\*\***

Steam humidifiers are serving the Air Handling Unit, AHU-1 and AHU-2 are not being used.

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

**Event: Replace 2 Humidifier**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$14,000    | Unassigned      |

**Updated:** MAR-12

**D3050.05.01 Convectors\*\***

Hot water convectors are located in washrooms and change rooms.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace 10 convectors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$4,000     | Unassigned      |

**Updated:** MAR-12

**D3050.05.02 Fan Coil Units\*\***

Hot water force flow heaters are installed in each vestibule

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 3 Fan Coil Units**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$15,000    | Unassigned      |

**Updated:** MAR-12

**D3050.05.03 Finned Tube Radiation\*\***

Hot water perimeter finned tube radiators are located in classrooms, washrooms, offices, water meter room and generator room.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event: Replace Finned Tube Radiation BOE=5909 sq.m.**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$178,000   | Unassigned      |

**Updated:** MAR-12

**D3050.05.06 Unit Heaters\*\***

A hot water unit heater is located in mechanical penthouse and other utility area.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 6 unit heaters**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$13,000    | Unassigned      |

**Updated:** MAR-12

**D3060.02.01 Electric and Electronic Controls\*\***

Force flow and unit heaters are controlled by line voltage thermostats

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace Electric and Electronic Controls BOE=5909 sq.m.**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$6,000     | Unassigned      |

**Updated:** MAR-12

**D3060.02.02 Pneumatic Controls\*\***

Pneumatic room thermostats control wall finned tube radiation.  
System includes control air compressor and refrigerated drier to serve the building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 40                 | MAR-12         |

**Event:** Replace Pneumatic Controls BOE= 5909 sq.m.

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$24,000    | Unassigned      |

**Updated:** MAR-12

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

A Barber Colman control system is connected to the boilers and pumps

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 20                 | MAR-12         |

**Event:** Replace Building Systems Controls BMCS BOE= 5909 sq.m.

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$82,000    | Unassigned      |

**Updated:** MAR-12

**D3090 Other Special HVAC Systems and Equipment\***

Paint booth in Industrial Arts Room and exhaust hoods for Science Lab in Classrooms 108 and 109.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D4020 Standpipes\***

Fire hose cabinets are located around the school.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D4030.01 Fire Extinguisher, Cabinets and Accessories\***

ABC type fire extinguishers locate in corridors and mech rooms. Most of the fire extinguishers are housed in a recessed wall mounted cabinet with fire hoses.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D4090.07 Fire Pumps & Water Storage Tanks\***

A dedicated fire main and fire pump, Aurora 80-65673 31.5 l/s @ 28 m, in Storage room beside the Electrical room is serving the fire protection system. The fire pump is backed up by the gas-fired emergency generator.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1980                    | 0                         | MAR-12                |

**S5 ELECTRICAL****D5010.01.02 Main Electrical Transformers (Utility Owned)\***

A pad mounted transformer were installed and is located on east side of school. It is serviced by a utility company.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 40                 | MAR-12         |

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

A General Electric 120/208V, 3-phase 4-wire, 1200A rated main distribution panel were installed, and completed with a 1200A main incoming breaker. Breakers are adequately marked in the distribution section. There is some spare space for future advancement.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 40                 | MAR-12         |

**Event: Replace Main Electrical Switchboards (Main Distribution)**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$45,000    | Unassigned      |

**Updated:** MAR-12

**D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)\*\*-1980**

General Electric branch circuit panel boards have been provided throughout the school, and are located in corridors and storage rooms. The shop panels are equipped with contactors and emergency shut-off buttons. There are enough spare spaces available in most of the panel.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 10 Electrical Branch Circuit Panelboards (Secondary Distribution)**

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

**Updated:** MAR-12

**D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)\*\*-1990**

Federal Pioneer branch circuit panel boards have been provided throughout the school, and are located in corridors and storage rooms. There are enough spare spaces available in most of the panel.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1990             | 30                 | MAR-12         |

**Event: Replace 4 Electrical Branch Circuit Panelboards (Secondary Distribution)**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$20,000    | Unassigned      |

**Updated:** MAR-12

**D5010.07.02 Motor Starters and Accessories\*\***

Individual motor starters and load switches are used major mechanical ventilation units and some small water pumps. Starters are complete pilot lights and hand-off-auto selector switches.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-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:** MAR-12

**D5020.01 Electrical Branch Wiring\***

the wires are either installed in conduits. or the BX wires are used for final connections to mechanical and miscellaneous equipment in the facility.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 0                  | MAR-12         |

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

Line voltage switching are provided for the facility. Line voltage switches typically provided in each room.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1990             | 0                  | MAR-12         |

**D5020.02.02.01 Interior Incandescent Fixtures\***

Incandescent track lighting fixtures and globe-type fixtures have been provided in the library area.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | AUG-06         |

**D5020.02.02.02 Interior Fluorescent Fixtures\*\***

Generally all lighting fixtures have been retro fitted to T8 lamps completed with electronic ballast.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2008             | 30                 | MAR-12         |

**Event: Replace 880 Interior Fluorescent Fixtures**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2038        | \$176,000   | Unassigned      |

**Updated:** MAR-12

**D5020.02.03.01 Emergency Lighting Built-in\***

Some of the fluorescent lighting fixtures fed from emergency panels.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**D5020.02.03.02 Emergency Lighting Battery Packs\*\***

Wall mounted battery packs completed with integral and remote lamps and remote batteries throughout facility. All paths and points of egress are well covered. The units are regularly tested.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2010             | 20                 | MAR-12         |

**Event: Replace 60 Emergency Lighting Battery Packs**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030        | \$24,000    | Unassigned      |

**Updated:** MAR-12

**D5020.02.03.03 Exit Signs\***

Exit signs are located at required locations and exits. Fixtures are upgraded to LED type.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1995             | 0                  | MAR-12         |

**D5020.03.01.01 Exterior Incandescent Fixtures\***

Incandescent surface mounted fixtures are mounted on the exterior walls of the school.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

Timers have been provided for exterior lighting control.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1990             | 0                  | AUG-06         |

**D5030.01 Detection and Fire Alarm\*\***

Simplex 4100U Control Panel is provided, and a Simplex 4602 annunciator panel is provided at the main entrance for Fire alarm System; and The system is completed with bell,horn/strobe, pull station, detectors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2010             | 25                 | MAR-12         |

**Event: Replace Detection and Fire Alarm**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035        | \$88,000    | Unassigned      |

**Updated:** MAR-12

**Event: life safety Upgrade**

| <u>Type</u>  | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|--------------|-------------|-------------|-----------------|
| Code Upgrade | 2011        | \$16,937    | Unassigned      |

**Updated:** NOV-11

**D5030.02.02 Intrusion Detection\*\***

DCS Maxy PC4020 panels is installed security system is provided for intrusion detection system and completed with motion detectors, door contacts at the outside access door and alarm keypads. System is monitored by externally.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2007             | 25                 | MAR-12         |

**Event: Replace Intrusion Detection**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2032        | \$44,000    | Unassigned      |

**Updated:** MAR-12



**D5030.02.04 Video Surveillance\*\***

A monitoring and recording devices were installed for CCTV system with monitoring in General Office and video cameras located throughout in and outside of the school .

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2008             | 25                 | MAR-12         |

**Event: Replace Video Surveillance**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2033        | \$22,000    | Unassigned      |

**Updated:** MAR-12

**D5030.03 Clock and Program Systems\***

Individual battery clocks were installed in classrooms.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1990             | 0                  | MAR-12         |

**D5030.04.01 Telephone Systems\***

The telephone system is a Norstar Meridian system. Meridian handsets are located in the classrooms and selected areas such as the general office. The main telephone equipment is located in the Compactor room. A voice mail system is integrated to the system in 2007

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

**D5030.04.04 Data Systems\***

Cat 5 data wiring system were installed with data outlets in each classroom.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1996             | 0                  | MAR-12         |

**D5030.04.05 Local Area Network Systems\***

One server, and patch panels are installed in the facility and through supernet connected to regional school board.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1996             | 0                  | MAR-12         |

**D5030.05 Public Address and Music Systems\*\***

The public address system is a Bogen Multicom 2000 system. Speakers are typically round, recessed ceiling mounted units. The Bogen unit is located in the Audio Visual storage room. A separate sound system has been provided for the gymnasium and music room with wall mounted speakers. The program bells are initiated from the Bogen P.A. system.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2002             | 20                 | MAR-12         |

**Event: Replace Public Address and Music Systems**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2022        | \$22,000    | Unassigned      |

**Updated:** MAR-12

**D5090.01 Uninterruptible Power Supply Systems\*\***

There are three UPS provided. One for phone system, two for computer system.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2005             | 30                 | MAR-12         |

**Event: Replace 3 Uninterruptible Power Supply Systems**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035        | \$12,000    | Unassigned      |

**Updated:** MAR-12

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

A Kohler natural gas emergency generator is located in the main electrical room. The generator is rated 50kW, 62.5kVA at 120/208V. A Westinghouse Robonic transfer switch has been installed for the emergency power distribution system.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

| <u>Capacity Size</u> | <u>Capacity Unit</u> |
|----------------------|----------------------|
| 50W                  | kVA                  |

**Event: Replace Packaged Engine Generator Systems (Emergency Power System)**

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

**Updated:** MAR-12

**S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION****E1020.03 Theatre and Stage Equipment\***

Stage lighting and wood framed platform stage.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**E1090.04 Residential Equipment\***

Home Economics area contains 4 electric ranges with range hoods, 3 refrigerators and 3 microwaves.  
Confectionary/kitchen area contains a refrigerator and 2 counter mounted coolers.  
Staff area contains a refrigerator, dish washer and microwave.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

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

Basketball hoops are located in the gymnasium.  
A stair climber, treadmill and other therapeutic accessories are located in a classroom that was converted to an exercise/weight training room.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**E2010.02 Fixed Casework\*\***

In 2011 the Estimated Replacement Costs are as follows:  
Painted and stained upper and lower cabinetry with plastic laminated counter tops  
\$150/GSM = \$ 70,625.00  
Classroom shelving/cabinetry with plastic laminated counter tops  
\$100/GSM = \$ 38, 800.00  
Plastic laminated vanity counter tops  
\$50/GSM = \$ 6,000.00  
Administration and Library Reception Counters = \$ 4,000.00

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 35                 | MAR-12         |

**Event: Replace Casework**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$119,425   | Unassigned      |

**Updated:** MAR-12

**E2010.02 Fixed Casework\*\***

Science Rooms counter tops.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1980             | 35                 | MAR-12         |

**Event: Replace Counter Tops****Concern:**

Science room counter tops worn and delaminated in various areas.

**Recommendation:**

Replace Science Rooms counter tops.

Replacement Cost = \$ 60/GSM = \$ 20,760.00

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2012        | \$20,760    | Medium          |

**Updated:** MAR-12**E2010.03.01 Blinds\*\***

Louvred blinds located over administration windows.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 30                 | MAR-12         |

**Event: Replace 12 sq. M Blinds**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$1,200     | Unassigned      |

**Updated:** MAR-12**E2010.03.06 Curtains and Drapes\*\***

Curtains are located over window units in the library, staff room and classrooms.

Curtain located in gymnasium.

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

**Event: Replace 86 sq. M Curtains**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2034        | \$8,600     | Unassigned      |

**Updated:** MAR-12

**F1010.02.04 Portable and Mobile Buildings\*\* - 1981 Portables**

Four portable classrooms and storage room with link to west side of school added in 1981 of 419.2 sq. M. The portables are wood framed supported on wood pads with a crawl space with SBS roofing, prefinished metal clad siding housing sealed fixed and opening PVC framed window units with painted plywood panels above and below window units and painted metal mesh window covering, painted metal clad entry and utility doors and prefinished metal louvres. Interiors consist of rubber tile and carpeted flooring, vinyl covered gypsum wallboard, ceilings of suspended acoustical tile, visual display boards, painted wood doors and metal frames, painted wood cabinetry with plastic laminated counter top, louvred blinds and metal lockers.

In 2011 the estimated replacement costs are:

**Envelope**

- 420 sq. M SBS Roofing = \$ 71,400.00
- 240 sq. M Prefinished Metal Cladding = \$ 69,600
- 10 sq. M PVC Windows = \$ 7,500.00
- 6 Painted Metal Clad Doors = \$ 6,000.00

**Interior**

- 110 sq. M Rubber Tile Flooring = \$ 6,050.00
- 300 sq. M Carpeting = \$ 19,500.00
- 410 sq. M Acoustical Tile = \$ 22,550.00
- Millwork @ \$100/sq. M = \$ 41,000.00
- 10 sq. M Blinds = \$ 1,000.00
- 16 Visual Display Boards = \$ 10,000.00
- 26 Metal Lockers = \$ 12,220.00

**Mechanical**

Each portable is c/w a gas fired counter flow Carrier model 58CTA070 (3@) and 58TMA105-16 (1@) furnaces with ductwork and sill mounted grilles. The furnaces were installed in 2000 and 2006.

Replacement cost for 4 furnaces = \$14,000.00

There is a roof mounted exhaust fan with ductwork for each portable group.

Replacement cost for 4 exhaust fan = \$8,000.00

A hot water force flow heater is installed in each of the vestibule. Cost for 4 forces flow heater = \$ 12,000.00

**Electrical**

1. Electrical Branch Circuit Panels: four single phase, 4 wire 120/240V and rated 125A with 2P-50A incoming breaker service panels were installed in portable sections of the building . Lifecycle replacement shall be occurred in 2015 and the cost will be \$12,000
2. Motor Starters and Accessories: four load switches for these portable furnaces, lifecycle replacement shall be occurred in 2015 and the cost will be \$2,000
3. Interior Fluorescent lights: Fixtures was upgraded to T-8 fixtures completed with electromagnetic ballast in 2009. Lifecycle replacement shall be occurred in 2039 and the cost will be \$17,400.
4. The Incandescent wall packs were installed above the exit doors.
5. The emergency battery packs are installed for emergency lighting system in 2006. The lifecycle replacement shall be occurred in 2026 and the cost will be \$1,800.
6. The fire alarm system devices were connected to main building fire alarm panel in 2010, Lifecycle replacement shall be occurred in 2035 and the cost will be \$9,200.
7. The intrusion system devices were connected to main school security panel in 2007 and Lifecycle replacement shall be occurred in 2032 and the cost will be \$2,500.
8. The PA system devices were wired to main school systems and lifecycle replacement shall be occurred in 2022 and the cost will be \$2,000.
9. The data system outlets were installed in each class room.
10. Local area network system is provided by hard wired, and WI-FI wireless system.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1981                    | 30                        | MAR-12                |



Partial View.

**Event: Replace Building Envelope**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$154,500   | Unassigned      |

**Updated:** MAR-12

**Event: Replace Electrical**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$46,900    | Unassigned      |

**Updated:** MAR-12

**Event: Replace Interiors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$106,270   | Unassigned      |

**Updated:** MAR-12

**Event: Replace Mechanical**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$34,000    | Unassigned      |

**Updated:** MAR-12

**F1010.02.04 Portable and Mobile Buildings\*\* - 1981 Portables**

Four portable classrooms and storage room with link to north side of school added in 1981 of 419.2 sq. M.  
 The portables are wood framed supported on wood pads with a crawl space with SBS roofing, prefinished metal clad siding housing sealed fixed and opening PVC framed window units with painted plywood panels above and below window units and painted metal mesh window covering, painted metal clad entry and utility doors and prefinished metal louvres. Interiors consist of rubber tile and carpeted flooring, vinyl covered gypsum wallboard, ceilings of suspended acoustical tile, visual display boards, painted wood doors and metal frames, painted wood cabinetry with plastic laminated counter tops, louvred blinds and metal lockers  
 In 2011 the estimated replacement costs are:

**Envelope**

420 sq. M SBS Roofing = \$ 71,400.00  
 240 sq. M Prefinished Metal Cladding = \$ 69,600  
 10 sq. M PVC Windows = \$ 7,500.00  
 6 Painted Metal Clad Doors = \$ 6,000.00

**Interior**

110 sq. M Rubber Tile Flooring = \$ 6,050.00  
 300 sq. M Carpeting = \$ 19,500.00  
 410 sq. M Acoustical Tile = \$ 22,550.00  
 Millwork @ \$100/sq. M = \$ 41,000.00  
 10 sq. M Blinds = \$ 1,000.00  
 16 Visual Display Boards = \$ 10,000.00  
 58 Metal Lockers = \$ 27,260.00

**Mechanical**

Each portable is c/w a gas fired counter flow Carrier model 58CTA070 (1@), 58TMA105-16 (1@) and 58CTA09010114 (2@) furnaces with ductwork and sill mounted grilles.  
 The furnaces were installed in 1990, 2003 and 2006.  
 Replacement cost for 4 furnaces = \$14,000.00  
 There is a roof mounted exhaust fan with ductwork for each portable group.  
 Replacement cost for exhaust fans = \$8,000.00  
 A hot water force flow heater is installed in each of the vestibules.  
 Replacement cost for 4 forces flow heaters = \$ 12,000.00

**Electrical**

1. Electrical Branch Circuit Panels: eight single phase, 4 wire 120/240V and rated 125A with 2P-50A incoming breaker service panels were installed in portable sections of the building . Lifecycle replacement shall be occurred in 2015 and the cost will be \$12,000
2. Motor Starters and Accessories: eight load switches for these portable furnaces, lifecycle replacement shall be occurred in 2015 and the cost will be \$2,000
3. Interior Fluorescent lights: Fixtures was upgraded to T-8 fixtures completed with electromagnetic ballast in 2009. Lifecycle replacement shall be occurred in 2039 and the cost will be \$17,400.
4. The Incandescent wall packs were installed above the exit doors.
5. The emergency battery packs are installed for emergency lighting system in 2006. The lifecycle replacement shall be occurred in 2026 and the cost will be \$1,800..
6. The fire alarm system devices were connected to main building fire alarm panel in 2010, Lifecycle replacement shall be occurred in 2035 and the cost will be \$8,700.
7. The intrusion system devices were connected to main school security panel in 2007 and Lifecycle replacement shall be occurred in 2032 and the cost will be \$2,500.
8. The PA system devices were wired to main school systems and lifecycle replacement shall be occurred in 2022 and the cost will be \$2,000.
9. The data system outlets were installed in each class room.
10. Local area network system is provided by hard wired, and WI-FI wireless system.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1981                    | 30                        | MAR-12                |



Partial View.

**Event: Indoor Air Quality Upgrade**

| <u>Type</u>                | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|----------------------------|-------------|-------------|-----------------|
| Indoor Air Quality Upgrade | 2011        | \$12,146    | Unassigned      |

Updated: AUG-11

**Event: Replace Building Envelope**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$154,500   | Unassigned      |

Updated: MAR-12

**Event: Replace Electrical**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$46,400    | Unassigned      |

Updated: MAR-12

**Event: Replace Interiors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$127,360   | Unassigned      |

Updated: MAR-12

**Event: Replace Mechanical**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$34,000    | Unassigned      |

Updated: MAR-12



**F1010.02.04 Portable and Mobile Buildings\*\* - 1990 Portables**

Six portable classrooms with storage room and corridor with link to north side of school added in 1990 of 542.5 sq. M. The portables are wood framed supported on concrete piles with a crawl space with built-up asphalt roofing, acrylic stucco cladding housing sealed fixed and opening PVC framed window units with painted metal mesh window covering, painted metal clad entry and utility doors, prefinished metal louvres and wood stairs with painted metal railings supported on concrete piles.

Interiors consist of carpeted flooring, rubber tile, vinyl covered gypsum wallboard walls, ceilings of suspended acoustical tile, visual display boards, painted wood doors and metal frames, single tier prefinished metal lockers, painted wood cabinetry with plastic laminated counter tops and louvred blinds.

In 2011 the estimated replacement costs are:

**Envelope**

- 542 sq. M Built-up Roofing = \$ 70,460.00
- 380 sq. M EIFS Cladding = \$ 54,000.00
- 20 sq. M PVC Windows = \$ 20,000.00
- 8 Painted Metal Clad Doors = \$ 8,000.00

**Interior**

- 118 sq. M Rubber Tile Flooring = \$ 10,620.00
- 432 sq. M Carpeting = \$ 20,080.00
- 540 sq. M Acoustical Tile = \$ 29,700.00
- Millwork @ \$100/sq. M = \$ 43,200.00
- 20 sq. M Blinds = \$ 1,000.00
- 24 Visual Display Boards = \$ 15,000.00
- 111 Metal Lockers = \$ 52,275.00

**Mechanical**

Each portable is c/w a gas fired roof top unit Carrier 48TFF004-30-1G 33.7 Kw input, 26.4 Kw output with air conditioning and ductwork. The roof top units were installed in 2001.

Replacement cost for 6 roof top units = \$42,000.00

There is a roof mounted exhaust fan with ductwork for each portable group.

Replacement cost for 6 exhaust fan = \$ 12,000.00

A hot water force flow heater is installed in each of the vestibule. Cost for 6 forces flow heater = \$ 18,000.00

**Electrical**

1. Electrical Branch Circuit Panels: one 120/2083-phase, 4 wire, 225A; and six single phase, 4 wire 120/240V and rated 125A with 2P-50A incoming breaker service panels were installed in portable sections of the building. Lifecycle replacement shall be occurred in 2025 and the cost will be \$23,000
2. Motor Starters and Accessories: six load switches for these portable furnaces, lifecycle replacement shall be occurred in 2025 and the cost will be \$3,000
3. Interior Fluorescent lights: Fixtures was upgraded to T-8 fixtures completed with electromagnetic ballast in 2009. Lifecycle replacement shall be occurred in 2039 and the cost will be \$22,000.
4. The Incandescent wall packs were installed above the exit doors.
5. The emergency battery packs are installed for emergency lighting system in 2006. The lifecycle replacement shall be occurred in 2026 and the cost will be \$2,400.
6. The fire alarm system devices were connected to main building fire alarm panel in 2010, Lifecycle replacement shall be occurred in 2035 and the cost will be \$11,000.
7. The intrusion system devices were connected to main school security panel in 2007 and Lifecycle replacement shall be occurred in 2032 and the cost will be \$4,000.
8. The PA system devices were wired to main school systems and lifecycle replacement shall be occurred in 2022 and the cost will be \$3,000.
9. The data system outlets were installed in each class room.
10. Local area network system is provided by hard wired, and WI-FI wireless system.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 1990                    | 30                        | MAR-12                |



Elevation View.

**Event: Repair 6 Exit Stairs****Concern:**

Existing exit stairs lack balustrades.

**Recommendation:**

Install balustrades and/or painted metal mesh screening to railings to meet ABC.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Code Repair | 2012        | \$4,250     | Medium          |

**Updated:** MAR-12**Event: Replace Building Envelope**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$144,468   | Unassigned      |

**Updated:** MAR-12**Event: Replace Electrical**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020        | \$68,400    | Unassigned      |

**Updated:** MAR-12**Event: Replace Interiors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$172,325   | Unassigned      |

**Updated:** MAR-12**Event: Replace Mechanical**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2015        | \$72,000    | Unassigned      |

Updated: MAR-12

**F1040.06 Other Special Facilities\***

Electric kiln located in Art Room.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 2005                    | 0                         | MAR-12                |

**S8 SPECIAL ASSESSMENT****K4010.01 Barrier Free Route: Parking to Entrance\***

Barrier free access from the parking area to the building entrance is available on the south elevation (front of school).

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**K4010.02 Barrier Free Entrances\***

Power actuated door opener.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2006             | 0                  | MAR-12         |

**K4010.03 Barrier Free Interior Circulation\***

Barrier free access is provided to all areas of the school.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | MAR-12         |

**K4010.04 Barrier Free Washrooms\***

Barrier free washrooms are provided opposite the library.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1980             | 0                  | AUG-06         |

**K4030.01 Asbestos\***

An asbestos abatement was conducted in three phase in 2001, 2002 and 2003.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 0                  | MAR-12         |

**K4030.04 Mould\***

Mould abatement to Pod units completed in 2006.

No mould observed or reported in original school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 0                  | MAR-12         |

**K4030.09 Other Hazardous Materials\***

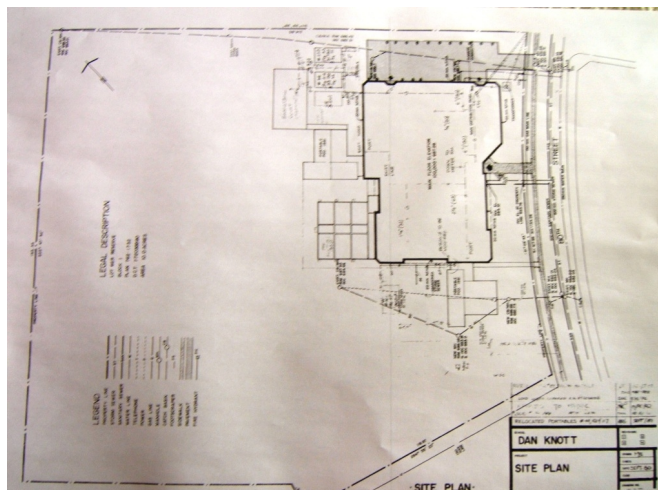
No other hazardous material known or reported

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 1980             | 0                  | MAR-12         |

**K5010.01 Site Documentation\***

Site Plan

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



Site Plan

**K5010.02 Building Documentation\***

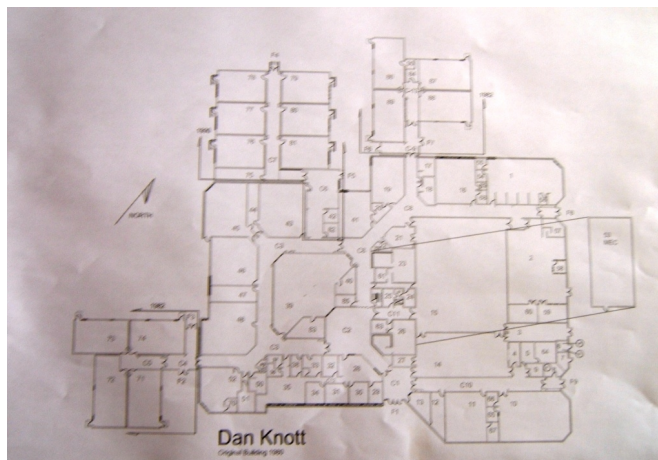
On 04 November 2011, Vic Maybroda of A&E Architectural & Engineering Group Inc. Supported by Neil Folkins of bacz Engineering Ltd. And Erol Seymen of Acuity Engineering & Consulting Services Ltd. Accompanied by Maintenance Supervisors of the Edmonton School Division No. 7 undertook an on site review of existing building and site conditions of the Dan Knott Elementary School.

The school is a single storey facility constructed in 1980 of 4406.7 sq. M. In 1982 two 4 classroom portable additions (pods) were added at the south and east end of school with a total area of 870.3 sq. M. In 1990, a six portable classroom pod addition of 542.5 sq. M was added to the east side of the facility.

The school including portables contains 15 classrooms, a computer room, 3 science rooms, an art room, a drama room, a music room, a home economics area, an industrial arts area, a weight training room, a library, 2 gymnasiums, administration and ancillary support spaces.

At the time of the site visit there were 440 enrolled students.

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



Floor Plan