RECAPP Facility Evaluation Report

East Central Health



Hardisty Health Centre

B1094A Hardisty

Hardisty - Hardisty Health Centre (B1094A)

Facility Details

Building Name: Hardisty Health Centre

Address: 4351 - 47 Avenue

Location: Hardisty

Building Id: B1094A Gross Area (sq. m): 0.00

Replacement Cost: \$27,790,403

Construction Year: 0

Evaluation Details

Evaluation Company: A&E Architectural & Engineering Group

Inc.

Evaluation Date: August 27 2009 **Evaluator Name:** Vic Maybroda

Total Maintenance Events Next 5 years: \$3,156,140 5 year Facility Condition Index (FCI): \$11.36%

General Summary:

This single storey facility was constructed in 1984 containing 4148.0 sq. M as a prototypical expandable hospital containing one wing. In 2000 the operating theatre was converted into a doctor's clinic and in 2003 an area of the roof was upgraded.

In addition to the patient care wing the facility contains a mental health clinic, an emergency admitting area with ambulance bay, a diagnostic area, radiology, laboratory, administration and support spaces.

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Structural Summary:

Roof framing consists of metal deck on metal joists supported by metal beams and columns with structural concrete main floor slab of the central core above the basement area on concrete beams and columns. The hospital care module and basement of the central core consists of concrete slab on grade.

Foundation walls are cast in place concrete on strip footings.

Structural elements appear to be in good condition.

Envelope Summary:

Roofing consists of built-up asphalt and SBS membrane. Roof penthouse structure is housed in prefinished metal cladding. Walls are composed of face brick housing sealed fixed and opening aluminum framed window units, aluminum framed curtain wall, aluminum framed storefronts and painted metal clad man and overhead doors in metal frames.

Observed elements appear to be in acceptable condition.

Interior Summary:

Flooring is composed of ceramic tile, sheet vinyl, carpeting, epoxy and painted concrete. Walls are painted concrete block and gypsum wallboard and ceramic tile. Ceilings consist of suspended acoustical tile, suspended lineal metal, and painted gypsum wall board. Doors are painted wood and metal clad fire doors in metal frames with sealed glazing units in metal frames located in administration areas.

Millwork consists of plastic laminated counter tops and stained wood and plastic laminated cabinetry and stained wood corridor railings.

Exterior window are covered with vertical louvered blinds and fabric curtains.

Overall the interior elements appear to be in good condition.

Mechanical Summary:

Ventilation is provided by four air handling units located in Penthouse and Mechanical Room.

Air distribution system is via medium and low velocity single ductwork to VAV and constant volume boxes, grilles and diffusers.

Air conditioning is provided by indoor centrifugal water chiller and cooling tower.

Heating system includes two natural gas fired boilers and one steam boiler.

Domestic hot water is generated by two hot water tanks fed from the main boilers, which provide 40, 60 and 80 deg.C water. Copper piping distribution to plumbing fixtures complete with domestic hot water recirculation systems. Controls are pneumatic.

Medical gas systems include the piping, fittings, valves, air compressor and vacuum pumps. Medical oxygen, medical air and vacuum system are provided throughout. Alarms monitor system installed in Nurses Stations. Valved shut-off

stations provided.

Fire protection system for the facility consists of automatic sprinkler system, hand held fire extinguishers and chemical suppression system for kitchen exhaust canopy.

Sanitary and storm services to Town's mains.

Domestic water supplied from Town's main.

Natural gas service to gas fired appliances.

Control system require replacement with new DDC system.

Overall mechanical system is in good condition.

Electrical Summary:

The facility was originally built in 1984 and there is no major renovation was done since then. The main service is 347/600V, 3 phase, 4 wire and rated 1600A. The service is underground fed from pad mounted transformer. Central and localized dry type transformers further covert to 120/208V for use with lighting, receptacles and other single and three phase equipment. Emergency power was provided by one 500KVA diesel generators.

The Motor control equipment was centralized in 600V 3 phase MCC, located in mechanical room and some small mechanical loads were controlled by individual load switches or magnetic starters

The interior fluorescent light fixtures were mixed with T-5, T-8 and T-12 lamp fixtures. The replacing and retrofitting T-12 fixtures have been in progress as per funding availability. The exterior lighting system is combined wall packs around building perimeter and pole mounted lights in the parking lot.

The fire alarm system is in progress to be replaced in next half year; the Nurse call, cable TV System and PA systems meet current facility requirements. The telephone system was upgraded recently, but the master clock system has been deteriorating steadily, as a result the slave clocks were replaced by commercial electric and battery clocks. A local area network provides the hospital with computer services for the operation of the facility and ties to Alberta Health Services through Supernet.

The overall rating for the facility shall be "Good"

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

S1 STRUCTURAL

A1010 Standard Foundations*

Cast in place concrete foundation walls with strip footings.

RatingInstalledDesign LifeUpdated5 - Good1984100MAR-10

A1030 Slab on Grade*

Located in the basement area and main floor of the patient wing.

RatingInstalledDesign LifeUpdated5 - Good1984100MAR-10

A2020 Basement Walls (& Crawl Space)*

Cast in place concrete with strip footings and concrete piers on concrete pads located in the crawl space area.

RatingInstalledDesign LifeUpdated5 - Good1984100MAR-10

B1010.01 Floor Structural Frame (Building Frame)*

Structural concrete slab over basement area supported by concrete columns.

RatingInstalledDesign LifeUpdated5 - Good1984100MAR-10

B1010.03 Floor Decks, Slabs, and Toppings*

Floor deck is provided by the structural concrete floor.

RatingInstalledDesign LifeUpdated5 - Good1984100MAR-10

B1010.09 Floor Construction Fireproofing*

Concrete structure provides fire proofing between basement and main floor.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

B1010.10 Floor Construction Firestopping*

Fire stopping appears to have been addressed.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

B1020.01 Roof Structural Frame*

Metal joists on metal beams.

RatingInstalledDesign LifeUpdated4 - Acceptable1984100MAR-10

B1020.03 Roof Decks, Slabs, and Sheathing*

Metal decking.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

B1020.04 Canopies*

Metal framed canopy over the basement service entry with face brick cladding. Slopped glazed curtain framing canopy over the main entry.

<u>Rating</u>	<u>Installed</u>	Design Life	Updated
4 - Acceptable	1984	50	MAR-10

S2 ENVELOPE

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

Face brick cladding.

RatingInstalledDesign LifeUpdated3 - Marginal198475MAR-10

Event: Building Envelope Studey

Concern:

Face brick exhibiting effervescence in numerous areas of the patient care wing.

Recommendation:

Undertake a Building Envelope study to determine air leakage of exterior walls.

Consequences of Deferral:

Deterioration of face brick cladding and possible energy inefficiencies.

 Type
 Year
 Cost
 Priority

 Study
 2010
 \$7,500
 High

Updated: MAR-10

Event: Reinsulate 2,000 sq. M Exterior Walls

Concern:

There does not appear to be any air barrier in effected areas of the patient care wing exterior walls.

Recommendation:

Remove face brick cladding and insulation below window head line install approved air barrier material, insulation and suitable cladding material.

Consequences of Deferral:

Further deterioration of face brick and energy inefficiencies.

TypeYearCostPriorityRepair2010\$900,000Medium

Updated: MAR-10

B2010.01.06.03 Metal Siding**

Prefinished horizontal metal siding applied to mechanical roof top penthouse.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace 362 sq. M Metal Siding

TypeYearCostPriorityLifecycle Replacement2024\$123,080Unassigned

Updated: MAR-10

B2010.01.09 Expansion Control: Exterior Wall Skin* -

Caulked control joints in face brick cladding.

RatingInstalledDesign LifeUpdated4 - Acceptable198475MAR-10

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

Caulked joints around all exterior openings.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

Event: Replace 1800 M Joint Sealers (caulking): Ext. Wall

TypeYearCostPriorityLifecycle Replacement2013\$63,000Unassigned

Updated: MAR-10

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

Concrete block to all exterior walls.

RatingInstalledDesign LifeUpdated4 - Acceptable1984100MAR-10

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

Not viewable. Refer to Item B2010.01.02.01 for concerns and applied costs.

RatingInstalledDesign LifeUpdated3 - Marginal1984100MAR-10

B2010.05 Parapets*

Insulated masonry with prefinished metal flashing over.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

B2010.06 Exterior Louvers, Grilles, and Screens*

Prefinished metal louvres to penthouse and ambulance bay.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

B2010.09 Exterior Soffits*

Prefinished metal.

RatingInstalledDesign LifeUpdated5 - Good198450MAR-10

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

Standard sealed glazing units in aluminum frames.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace 52 Aluminum Windows (Glass & Frame)

TypeYearCostPriorityLifecycle Replacement2024\$78,000Unassigned

Updated: MAR-10

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

Sloped glazing units extending out from exterior wall face located in administration and basement dining area.

RatingInstalledDesign LifeUpdated3 - Marginal198440MAR-10

Event: Replace 15 Aluminum Windows (Glass & Frame)

Concern:

Glazing units exhibiting condensation when relative humidity increased above 25% in interior areas.

Recommendation:

Replace glazing units with units of insulated inert gas and non-metallic spacer bars between glazing.

Consequences of Deferral:

Lower humidity levels determent to health conditions. Condensation damaging adjacent interior wall finishes.

TypeYearCostPriorityFailure Replacement2010\$27,000Medium

Updated: MAR-10

B2020.02 Storefronts: Windows**

Sealed fixed units in aluminum frames located in patient care lounge areas and at exterior lower level door opening.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace 8 Storefronts: Windows

TypeYearCostPriorityLifecycle Replacement2024\$12,000Unassigned

Updated: MAR-10

B2020.03 Glazed Curtain Wall**

Sloped curtain wall over entry area.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace 25 sq. M Glazed Curtain Wall

TypeYearCostPriorityLifecycle Replacement2024\$43,750Unassigned

Updated: MAR-10

B2030.01.01 Aluminum-Framed Storefronts: Doors**

Doors with upper and lower sealed glazing units located at patient care lounges and lower level entry area.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 2 Aluminum-Framed Storefronts: Doors

TypeYearCostPriorityLifecycle Replacement2014\$8,000Unassigned

Updated: MAR-10

B2030.01.06 Automatic Entrance Doors**

Biparting glazed aluminum entry doors with movement sensors.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 1 Automatic Entrance Doors

TypeYearCostPriorityLifecycle Replacement2014\$23,000Unassigned

Updated: MAR-10

B2030.02 Exterior Utility Doors**

Painted metal clad doors and frames.

RatingInstalledDesign LifeUpdated5 - Good198440MAR-10

Event: Replace 5 Exterior Utility Doors

TypeYearCostPriorityLifecycle Replacement2024\$5,500Unassigned

Updated: MAR-10

B2030.03 Large Exterior Special Doors (Overhead)*

Prefininished metal clad doors located in ambulance bay and loading dock area.

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

B3010.01 Deck Vapor Retarder and Insulation*

Not viewable. No concerns observed or reported.

RatingInstalledDesign LifeUpdated4 - Acceptable200325MAR-10

B3010.01 Deck Vapor Retarder and Insulation*

Not viewable. No concerns reported or observed.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

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

Located over service core area.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace 1520 sq. M Built-up Bituminous Roofing

(Asphalt & Gravel)

TypeYearCostPriorityLifecycle Replacement2013\$327,015Unassigned

Updated: MAR-10

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

Located over patient care area.

RatingInstalledDesign LifeUpdated5 - Good200325MAR-10

Event: Replace 960 sq. M Modified Bituminous Membrane

Roofing (SBS)

TypeYearCostPriorityLifecycle Replacement2028\$201,600Unassigned

Updated: MAR-10

B3010.08.02 Metal Gutters and Downspouts**

Prefinished metal rain water leader connected to scupper in loading dock area canopy.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Rain Water Leader

TypeYearCostPriorityLifecycle Replacement2014\$1,000Unassigned

Updated: MAR-10

B3020.02 Other Roofing Openings (Hatch, Vent, etc)* - 1984 & 2003 Areas

Exhaust housings, plumbing vents and roof drains.

RatingInstalledDesign LifeUpdated4 - Acceptable025MAR-10

S3 INTERIOR

C1010.01 Interior Fixed Partitions*

Concrete block and metal stud.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

C1010.05 Interior Windows*

Sealed units in painted metal frames.

RatingInstalledDesign LifeUpdated4 - Acceptable198480MAR-10

C1010.06 Interior Glazed Partitions and Storefronts*

Glazed storefront units located in various areas on the main floor of the service core area.

RatingInstalledDesign LifeUpdated4 - Acceptable198480MAR-10

C1010.07 Interior Partition Firestopping*

No concerns observed or reported.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

C1020.01 Interior Swinging Doors (& Hardware)*

Stained door doors in painted metal frames.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

C1020.03 Interior Fire Doors*

Rated doors and frames provided to service areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

C1030.01 Visual Display Boards**

There are various white and tack boards in the administrative and patient care area.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

Event: Replace 32 Visual Display Boards

TypeYearCostPriorityLifecycle Replacement2013\$28,800Unassigned

Updated: MAR-10

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

Prefinished metal toilet partitions located in lower level staff areas of the service core area.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replae 2 Fabricated

Compartments(Toilets/Showers)

TypeYearCostPriorityLifecycle Replacement2014\$3,200Unassigned

Updated: MAR-10

C1030.06 Handrails*

Stained wood wall mounted handrails located in patient care and service core areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

C1030.08 Interior Identifying Devices*

All rooms doors have applied room names and numbers.

RatingInstalledDesign LifeUpdated5 - Good198420MAR-10

C1030.10 Lockers**

Prefinished metal lockers located in staff change rooms.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 62 Lockers

TypeYearCostPriorityLifecycle Replacement2014\$55,800Unassigned

Updated: MAR-10

C1030.12 Storage Shelving*

Stained and plastic laminated finished wood shelving units in administrative and service storage areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

C1030.14 Toilet, Bath, and Laundry Accessories*

Public, staff and patient wash rooms equipped with mirrors, toilet paper, soap and paper towel dispensers, waste containers and grab bars.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

C2010 Stair Construction*

Metal pan stairs between lower level and main floor of service core unit and metal stairs to roof penthouse complete with painted metal railings.

RatingInstalledDesign LifeUpdated5 - Good1984100MAR-10

C2020.08 Stair Railings and Balustrades*

Painted metal.

RatingInstalledDesign LifeUpdated5 - Good198440MAR-10

C3010.06 Tile Wall Finishes**

Located in shower areas of patient rooms and staff rooms.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace 182 sq. M Tile Wall Finishes

TypeYearCostPriorityLifecycle Replacement2024\$48,600Unassigned

Updated: MAR-10

C3010.11 Interior Wall Painting*

Painted gypsum wallboard and concrete block.

RatingInstalledDesign LifeUpdated4 - Acceptable198410MAR-10

C3020.01.01 Epoxy Concrete Floor Finishes*

Located throughout the lower floor level.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

C3020.01.02 Paint Concrete Floor Finishes*

Located in mechanical/electrical and workshop room areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198410MAR-10

C3020.02 Tile Floor Finishes**

Located in patient and staff shower rooms and assisted bath area.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

Event: Replace 120 sq. M Tile Floor Finishes

TypeYearCostPriorityLifecycle Replacement2034\$24,000Unassigned

Updated: MAR-10

C3020.07 Resilient Flooring**

Sheet vinyl located in all areas of main floor and kitchen/cafeteria/pantry, staff and wash rooms of basement area.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

Event: Replace 2840 sq. M Resilient Flooring

TypeYearCostPriorityLifecycle Replacement2013\$284,000Unassigned

Updated: MAR-10

C3020.08 Carpet Flooring**

Located in administration areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198415MAR-10

Event: Replace 85 sq. M Carpet Flooring

TypeYearCostPriorityLifecycle Replacement2013\$5,525Unassigned

Updated: MAR-10

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

Located in all areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace 3160 sq. M Acoustic Ceiling Treatment

(Susp.T-Bar)

TypeYearCostPriorityLifecycle Replacement2013\$173,800Unassigned

Updated: MAR-10

C3030.07 Interior Ceiling Painting*

Located in wash and service rooms.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

C3030.09 Other Ceiling Finishes*

Lineal metal ceilings located in main entry waiting room area and reception area of radiology section.

RatingInstalledDesign LifeUpdated5 - Good198450MAR-10

D1010.01.02 Hydraulic Passenger Elevators**

Hydraulic elevator serving basement and main floors rated at 4000lbs with front and rear door openings.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 1 Hydraulic Passenger Elevators

TypeYearCostPriorityLifecycle Replacement2014\$100,000Unassigned

Updated: MAR-10

S4 MECHANICAL

D2010.04 Sinks**

600X600 mop sinks, molded stone, floor mounted, SS strainer.

Single and double compartment stainless steel sinks complete with chrome plated swing spout, aerator, lever handles. Stainless steel commercial sinks serving Kitchen.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Approx. 44 Sinks

TypeYearCostPriorityLifecycle Replacement2014\$90,000Unassigned

Updated: MAR-10

D2010.05 Showers**

Handicap shower stalls, acrylic tub with chrome grab bars. Thermostatic mixing valve, pressure balanced.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Approx. 16 Showers

TypeYearCostPriorityLifecycle Replacement2014\$64,000Unassigned

Updated: MAR-10

D2010.06 Bathtubs**

Fiberglass bathtubs, holders, mixing valves and removable shower heads.

Assisted bath tub Bowl complete with automatic disinfections system, locking door, thermoscopic mixing valve.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Approx. 40 Bathtubs and 3 Assisted tubs.

TypeYearCostPriorityLifecycle Replacement2014\$128,000Unassigned

Updated: MAR-10

D2010.08 Drinking Fountains / Coolers**

Stainless steel and vitreous china wall hung drinking fountains.

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace Approx. 10 Drinking Fountains / Coolers

TypeYearCostPriorityLifecycle Replacement2019\$40,000Unassigned

Updated: MAR-10

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

WC - Wall hung, vitreous china, open front seat, flush valve.

LV - Stainless steel, countertop c/w two handle faucets. Vitreous china, wall hung c/w infrared faucets.

UR - Wall mounted vitreous china with flush valve.

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace Approx. 110 Washroom Fixtures (WC, Lav,

Urnl)

TypeYearCostPriorityLifecycle Replacement2019\$220,000Unassigned

Updated: MAR-10

D2020.01.01 Pipes and Tubes: Domestic Water*

Copper piping distribution throughout.

Main building shut-off located beside water meter. By-pass complete with sealed valve provided.

Domestic water booster pump station installed.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

D2020.01.02 Valves: Domestic Water**

All plumbing fixtures isolated. Shut off valves provided at each fixture. Other isolation valves installed on water mains throughout the building.

Domestic water distributed to commercial flush valve fixtures installed throughout the building.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace Domestic Water Valves

TypeYearCostPriorityLifecycle Replacement2024\$220,000Unassigned

Updated: MAR-10

D2020.01.03 Piping Specialties (Backflow Preventors)**

Reduced pressure backflow preventors serving incoming 150mm diameter domestic water line and fire line.

Double check valve assembly on 150mm diameter fire line from siamese connection.

Backflow prevention installed on boiler make-up water.

Double check valve arrangement serving chilled water system.

Vacuum breakers serving NFHB.

Backwater valves installed on 75mm diameter scupper drains.

RatingInstalledDesign LifeUpdated5 - Good200820MAR-10

Event: Replace Backflow Preventors

TypeYearCostPriorityLifecycle Replacement2028\$150,000Unassigned

Updated: MAR-10

D2020.02.02 Plumbing Pumps: Domestic Water**

Five in-line domestic hot water recirculation pumps serving domestic hot water systems (82, 60&40 deg.C). laundry, kitchen and domestic water pre-heat system.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

Event: Replace 5 DHWR Pumps

TypeYearCostPriorityLifecycle Replacement2013\$15,000Unassigned

Updated: MAR-10

D2020.02.04 Domestic Water Conditioning Equipment**

Duplex water softener package complete with brine tank.

RatingInstalledDesign LifeUpdated4 - Acceptable200820MAR-10

Event: Replace Domestic Water Conditioning Equipment

TypeYearCostPriorityLifecycle Replacement2028\$24,000Unassigned

Updated: MAR-10

D2020.02.06 Domestic Water Heaters**

Domestic hot water heating system consist of two hot water tanks complete with heating coils and 3-way mixing valves. Both tanks have capacity of 1,600l.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

Event: Replace 2 Domestic Water Heaters and Associated

Equipment

TypeYearCostPriorityLifecycle Replacement2013\$60,000Unassigned

Updated: MAR-10

D2020.03 Water Supply Insulation: Domestic*

All water lines insulated.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

D2030.01 Waste and Vent Piping*

ABS and copper.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

D2030.03 Waste Piping Equipment*

Grease trap serving Kitchen sinks.

Receiver sump complete with pump serving weeping tile system.

Oil interceptor.

Elevator sump pit complete with duplex pump.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

D2040.01 Rain Water Drainage Piping Systems*

Rain water collection via roof drains and storm water piping to splash pads.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

D2040.02.04 Roof Drains*

Large dome, open flow sump roof drains with flashing flange and integral gravel stop.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

D2090.11 Oxygen Gas Systems**

24 cylinder bank system located in gas bottle storage room. Oxygen reserve by one of 2, 12 cylinder tanks. System consists of manifold, valves, pressure reducing valves, gas outlets and alarms.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Oxygen Gas System

TypeYearCostPriorityLifecycle Replacement2014\$185,000Unassigned

Updated: MAR-10

D2090.13 Vacuum Systems (Medical)**

Duplex vacuum pump, receiver tank, valves, vacuum outlets, alarms, controls. System is located in Mechanical Room - lower level.

RatingInstalledDesign LifeUpdated5 - Good200830MAR-10

Event: Replace Vacuum Systems (Medical)

TypeYearCostPriorityLifecycle Replacement2038\$185,000Unassigned

Updated: MAR-10

D2090.16 Medical Air System*

Water seal rotary type air compressor (triplex), air receiver, refrigerated air dryer, PRV, valves, gas outlets, alarms and controls.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

D3010.01 Oil Supply Systems (Fuel, Diesel)*

Fuel oil supply system from outdoor tank to Boiler Room.

RatingInstalledDesign LifeUpdated4 - Acceptable198460MAR-10

D3010.02 Gas Supply Systems*

Pressure gas service for all gas fired appliances. Regulator at each fixture. Steel schedule 40 piping.

RatingInstalledDesign LifeUpdated4 - Acceptable198460MAR-10

D3020.01.01 Heating Boilers & Accessories: Steam**

One Cleaver Brooks M4W-6000 boiler (1,500 kW heating output) serving low pressure (103kPa) steam system.

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace 1 Heating Boiler & Accessories: Steam

TypeYearCostPriorityLifecycle Replacement2019\$160,000Unassigned

Updated: MAR-10

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

Individual vent up through the roof.

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace Chimneys: Steam Boiler

TypeYearCostPriorityLifecycle Replacement2019\$10,000Unassigned

Updated: MAR-10

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

Two Cleaver Brooks M4W-6000 Water Tube Boilers, Natural gas, 140 psi, 1290kW heating output each.

Two base mounted primary heating pumps circulate water via closed loop to heat exchanger and perimeter heating units. Radiation heating, ceiling radiant panels and glycol heat exchanger secondary loops are complete with individual bass mounted circulation pumps. Each pump is sized for 60% of demand load.

Pumps 1&2 - Paco 4095 - serving primary heating loop.

Pumps 3&4 - Paco 3095 - serving glycol heating loop.

Pumps 5&6 - Paco 1570 - serving radiation and re-heat loop.

Pumps 7&8 - Paco 1595 - serving radiant panels.

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace Heating Boiler Plant and Accesories.

TypeYearCostPriorityLifecycle Replacement2019\$485,000Unassigned

Updated: MAR-10

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

Insulated boiler vents up through the roof. Combustion air supplied by designated make-up air unit.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Chimneys H.W. Boilers

TypeYearCostPriorityLifecycle Replacement2014\$25,000Unassigned

Updated: MAR-10

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

Chemical pot feeder, by-pass filter, by-pass filter cartridge, in-line flow restrictor device.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

D3030.02 Centrifugal Water Chillers**

One centrifugal liquid chiller complete with three stage compressor and carbon steel plate evaporator. 750 tons cooling capacity.

Multistack MS50Z6C2W.

RatingInstalledDesign LifeUpdated5 - Good200825MAR-10

Event: Replace 1 Centrifugal Water Chiller

TypeYearCostPriorityLifecycle Replacement2033\$800,000Unassigned

Updated: MAR-10

D3030.05 Cooling Towers**

Balimore Air Coil cooling tower, 27,6 l/s water flow, served by two base mounted Paco 3095 circulation pumps.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace Cooling Tower

TypeYearCostPriorityLifecycle Replacement2013\$345,000Unassigned

Updated: MAR-10

D3040.01.01 Air Handling Units: Air Distribution**

Ventilation system consist of four indoor air handling units located in Mechanical Room and Penthouse.

All units are manufactured by Trane, complete with supply and return air fans, pre-heat and re-heat coils, summer and winter filters, steam grid humidifier and cooling coils. Airflow capacities vary from 2,500l/s to 4,000l/s.

AS-1: 24 hr Nursing Module, VAV system.

AS-2: Operating suites - multizone (7 zones) constant volume unit.

AS-3: Mechanical Room combustion air.

AS-4: Patients suites - module 3B.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 4 Air Handling Units

TypeYearCostPriorityLifecycle Replacement2014\$1,500,000Unassigned

Updated: MAR-10

D3040.01.03 Air Cleaning Devices: Air Distribution*

Replaceable media filters serving air handling units.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

D3040.01.04 Ducts: Air Distribution*

Overhead ductwork distribution in ceiling space up to SMACNA standards. Constant and variable volume air distribution to terminal units.

Rating Installed Design Life Updated
4 - Acceptable 1984 50 MAR-10

Event: Ductwork Cleaning

Concern:

Due to age of ductwork distribution and no ductwork cleaning records available on site a complete throughout ductwork cleaning is recommended.

Recommendation:

Clean air ducts

TypeYearCostPriorityPreventative Maintenance2012\$20,000Low

Updated: MAR-10

D3040.01.06 Air Terminal Units: Air Distribution (VAV Box)**

Variable volume, single duct boxes, fan powered terminal boxes provide cooling and ventilation with 100% primary air shut-off. Airflow varies from 45 to 500 l/s.

All boxes are manufactured by Titus complete with volume control dampers.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace Approx. 100 Air Terminal Units

TypeYearCostPriorityLifecycle Replacement2014\$450,000Unassigned

Updated: MAR-10

D3040.01.07 Air Outlets & Inlets:Air Distribution*

Combination of wall mounted grilles, troughers and ceiling square diffusers for supply air application.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

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

Steam generator complete with feed lines, receiver tank with pumps, blow down tank, low pressure steam lines distribution.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace Steam Distribution System

TypeYearCostPriorityLifecycle Replacement2024\$155,000Unassigned

Updated: MAR-10

D3040.03.01 Hot Water Distribution Systems**

Steel and copper piping distribution from boilers primary heating loop to secondary loops.

100mm diameter HWS and HWR loop to perimeter radiation and unit heaters.

75mm diameter HWS and HWR loop to ceiling radiant panels.

150mm diameter HWS and HWR loop to hot water/ glycol heat exchanger.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace Hot Water Distribution System B.O.E.

\$93.00 sq.m.

TypeYearCostPriorityLifecycle Replacement2024\$620,000Unassigned

Updated: MAR-10

D3040.03.02 Chilled Water Distribution Systems**

CWS and CWR lines serving chiller and cooling tower. 150mm diameter chilled water loop to cooling coils serving air handling units.

Two base mounted circulation pumps.

Copper pipes.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace Chilled Water Distribution System

TypeYearCostPriorityLifecycle Replacement2024\$160,000Unassigned

Updated: MAR-10

D3040.04.01 Fans: Exhaust**

Various exhaust fans provided within the building to remove air from areas that produce objectionable odors like kitchen, washrooms, garbage rooms, janitor room etc. Total of 14 exhaust fans located on the roof or cabinet exhaust fans inside mechanical rooms.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 14 Exhaust Fans

TypeYearCostPriorityLifecycle Replacement2014\$100,000Unassigned

Updated: MAR-10

D3040.04.03 Ducts: Exhaust*

Low velocity galvanized steel exhaust ducts up to SMACNA standards. Stainless steel exhaust air ducts serving special exhaust, fume hoods etc.

RatingInstalledDesign LifeUpdated4 - Acceptable198450MAR-10

D3040.04.05 Air Outlets and Inlets: Exhaust*

Egg crate and louver face return grilles are used for exhaust air application.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

D3040.05 Heat Exchangers**

Armstrong shell tube heat exchangers serving domestic hot water and glycol system.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 3 Heat Exchangers

TypeYearCostPriorityLifecycle Replacement2014\$60,000Unassigned

Updated: MAR-10

D3050.03 Humidifiers**

Sarco steam grid humidifiers serving air handling units.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace Humidifiers

TypeYearCostPriorityLifecycle Replacement2013\$45,000Unassigned

Updated: MAR-10

D3050.05.02 Fan Coil Units**

Ceiling mounted, recessed force flow heaters serving vestibules.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 10 Fan Coil Units

TypeYearCostPriorityLifecycle Replacement2014\$40,000Unassigned

Updated: MAR-10

D3050.05.03 Finned Tube Radiation**

Perimeter wall fin radiation complete with various type enclosure cabinets.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace Finned Tube Radiation. B.O.E. \$52/sq.m.

TypeYearCostPriorityLifecycle Replacement2024\$160,000Unassigned

Updated: MAR-10

D3050.05.06 Unit Heaters**

Trane cabinet horizontal and vertical discharge hot water unit heaters.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 10 Unit Heaters

TypeYearCostPriorityLifecycle Replacement2014\$40,000Unassigned

Updated: MAR-10

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

Radiant ceiling panels serving Patients Rooms, 610mm width aluminum linear type, mounted in the T-bar, or GWB ceiling along the perimeter wall.

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace Ceiling Radiant Panels. B.O.E. \$960/

0.5kW.

TypeYearCostPriorityLifecycle Replacement2019\$265,000Unassigned

Updated: MAR-10

D3060.02.02 Pneumatic Controls**

Pneumatic thermostats and control valves.

Duplex air compressor complete with refrigerated dryer.

RatingInstalledDesign LifeUpdated3 - Marginal198440MAR-10

Event: Replace Control System with New DDC

Concern:

Existing control system is obsolete and can perform only basic functions.

Recommendation:

Replace existing controls with new DDC building management system.

TypeYearCostPriorityFailure Replacement2012\$350,000Medium

Updated: MAR-10

D4010 Sprinklers: Fire Protection*

The building is sprinklered as per NFPA13. Automatic sprinkler system consists of wet pipes. Automatic wet pipe sprinkler alarm valve.

Fire department connection at the front entrance.

RatingInstalledDesign LifeUpdated4 - Acceptable198460MAR-10

D4030.01 Fire Extinguisher, Cabinets and Accessories*

Fire extinguishers provided throughout:- carbon dioxide, multi-purpose dry chemical. All units complete with up-to-date certification tags.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

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

Range Guard kitchen fire suppression system interlock with kitchen exhaust fans.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

Event: Replace Kitchen Hood Fire Suppression System

TypeYearCostPriorityLifecycle Replacement2024\$45,000Unassigned

Updated: MAR-10

D4090.07 Fire Pumps & Water Storage Tanks*

Fire pump complete with jockey pump serving sprinkler system.

RatingInstalledDesign LifeUpdated4 - Acceptable198440MAR-10

S5 ELECTRICAL

D5010.02 Secondary Electrical Transformers (Interior)**

There are 12 600V-120/208V, stepdown transformers rated various at 15KVA, 30KVA, 45KVA, 225KVA, 112.5KVA and 75KVA.

RatingInstalledDesign LifeUpdated5 - Good198440MAR-10

Event: Replace 12 Secondary Electrical Transformers

(Interior)

TypeYearCostPriorityLifecycle Replacement2024\$104,000Unassigned

Updated: MAR-10

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

The distribution panelboard was 347/600V, 3 phase, 4 wire and rated 1600A. The main distribution was underground fed from site padmounted transformer. The 500KVA emergency generator was used to provide emergency power to backup the normal power system

Rating 5 - Good 1984 Design Life Updated MAR-10

Event: Replace Main Electrical Switchboards (Main

Distribution)

TypeYearCostPriorityLifecycle Replacement2024\$125,000Unassigned

Updated: MAR-10

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

The branch panels were mixed with 120/208V and 347/600V. Some panels have isolated grounding for medical equipment. Most panels have 15% space for future uses.

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

Event: Replace 34 Electrical Branch Circuit Panelboards

(Secondary Distribution)

TypeYearCostPriorityLifecycle Replacement2014\$204,000Unassigned

Updated: MAR-10

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

There were two MCC's: one was supplied by normal power and the other was supplied by emergency power; The MCC's were used for major mechanical pumps and ventilation equipment

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

Event: Replace Motor Control Centers

TypeYearCostPriorityLifecycle Replacement2014\$120,000Unassigned

Updated: MAR-10

D5010.07.02 Motor Starters and Accessories**

The load switches and magnetic starts were used for some small mechanical loads.

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

Event: Replace 12 Motor Starters and Accessories

TypeYearCostPriorityLifecycle Replacement2014\$6,000Unassigned

Updated: MAR-10

D5020.01 Electrical Branch Wiring*

Most wirings are original. The wires were installed in the conduits for major runs from panel and junction boxes and Bix wires were used from junction boxes to power and lighting outlets.

RatingInstalledDesign LifeUpdated5 - Good198450MAR-10

D5020.02.01 Lighting Accessories (Lighting Controls)*

The line voltage switching was used in patient rooms and low voltage control for the rest of facility.

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

D5020.02.02.01 Interior Incandescent Fixtures*

The pot lights in the common areas

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

D5020.02.02.02 Interior Florescent Fixtures**

The most of fixtures were still T-12 lamp fluorescent fixtures. The placing and retrofitting T-12 with T-8 and T-5 Lamp fluorescent lights were in progress.

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

Event: Replace 2160 Interior Florescent Fixtures

TypeYearCostPriorityLifecycle Replacement2014\$432,000Unassigned

Updated: MAR-10

D5020.02.03.03 Exit Signs*

All the fixtures were original. Some incandescent lamps were replaced with LED type lamps

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

D5020.03.01.04 Exterior H.P. Sodium Fixtures*

The wall packs were installed around building perimeter and pole mounted lights in the parking lot.

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

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

The outdoor lighting was controlled by photocell

RatingInstalledDesign LifeUpdated5 - Good198430MAR-10

D5030.01 Detection and Fire Alarm**

The Simplex hard wired zoning panel was used for fire alarm system. The system will be replaced in next half year.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace Detection and Fire Alarm

TypeYearCostPriorityLifecycle Replacement2013\$350,000Unassigned

Updated: MAR-10

D5030.02.02 Intrusion Detection**

The Simplex panel was used for intrusion detection system and has door contractors installed at all the exterior doors.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace Intrusion Detection

TypeYearCostPriorityLifecycle Replacement2013\$108,000Unassigned

Updated: MAR-10

D5030.02.03 Security Access (Wandgurad)**

The Wanderguard system was installed for all the doors around long term care areas and has wrist bands available for all long term patients.

RatingInstalledDesign LifeUpdated5 - Good200325MAR-10

Event: Replace Security Access (Wanderguard)

Concern: Obsolete

Recommendation:

Upgrade patient safety system

TypeYearCostPriorityLifecycle Replacement2028\$35,000Unassigned

Updated: MAR-10

D5030.02.04 Video Surveillance**

The EVERPLEX 4CQ was used for video surveillance system and 4 Cameras installed to monitor main entrance, long term care, staff entrance and ambulance access door.

RatingInstalledDesign LifeUpdated5 - Good200325MAR-10

Event: Replace Video Surveillance

TypeYearCostPriorityLifecycle Replacement2028\$40,000Unassigned

Updated: MAR-10

D5030.03 Clock and Program Systems*

The Simplex 2350 master clock control panel was installed and has slave clocks installed through entire facility hallways and common areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

D5030.04.01 Telephone Systems*

The NEC Univerge NEAX 2000IPS panel was used for telephone system and tied with nurse call system to perform facility paging functions.

RatingInstalledDesign LifeUpdated5 - Good200325MAR-10

D5030.04.03 Nurse Call Systems**

The Rauland-Borg nurse call system was installed and has two control station located at main nurse and emergency stations.

RatingInstalledDesign LifeUpdated5 - Good200325MAR-10

Event: Replace Nurse Call Systems

TypeYearCostPriorityLifecycle Replacement2028\$216,000Unassigned

Updated: MAR-10

D5030.04.04 Data Systems*

One server was installed for the facility and tied to Alberta Health Services through Supernet.

RatingInstalledDesign LifeUpdated5 - Good200325MAR-10

D5030.04.05 Local Area Network Systems*

Combine Cat 5e and Cat 6 wires were used for network system and has data outlets installed through entire offices and nurse stations.

RatingInstalledDesign LifeUpdated5 - Good200315MAR-10

D5030.05 Public Address and Music Systems**

The Inter A-120 AMP was used for PA system and tied to phone system for building paging system.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

Event: Replace Public Address and Music Systems

TypeYearCostPriorityLifecycle Replacement2013\$54,000Unassigned

Updated: MAR-10

D5030.06 Television Systems*

The TV outlets were installed in each patient rooms and common areas.

RatingInstalledDesign LifeUpdated4 - Acceptable198420MAR-10

D5030.07 Other Communications and Security Systems*

The Supernet was used for data system connection to Alberta Health Services

RatingInstalledDesign LifeUpdated5 - Good20050MAR-10

D5090.01 Uninterruptible Power Supply Systems**

The stand alone UPS unit was used for server computer only.

RatingInstalledDesign LifeUpdated5 - Good200330MAR-10

Event: Replace Uninterruptible Power Supply Systems

TypeYearCostPriorityLifecycle Replacement2033\$5,000Unassigned

Updated: MAR-10

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

500 KVA diesel generator was installed for emergency power system

RatingInstalledDesign LifeUpdated5 - Good198435MAR-10

Event: Replace Packaged Engine Generator Systems

(Emergency Power System)

TypeYearCostPriorityLifecycle Replacement2019\$320,000Unassigned

Updated: MAR-10

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

E1010.06 Commercial Laundry and Dry Cleaning Equipment*

Located in the basement of service core area contains two commercial washing machines, two commercial clothes dryers, layout tables and storage cubicles.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

E1020.07 Laboratory Equipment*

Fume hood located in diagnostic laboratory.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

E1030.03 Loading Dock Equipment*

Hydraulic operated load lever located in loading dock.

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

E1090.03 Food Service Equipment*

Kitchen facility is located in the basement area of the service core and serves hospital staff through a cafeteria operation. The kitchen is equipped with:

2 natural gas ranges with exhaust hood over

kettle steamer unit

refrigeration table

plate bowl dispenser

dishwasher

hot water booster

pot sink

work table with sink

coffee maker

waste disposal unit

work tables

RatingInstalledDesign LifeUpdated4 - Acceptable198425MAR-10

E1090.04 Residential Equipment*

Lounge areas in patient area contain electric range, refrigerator, microwave, sink in plastic laminated counter with stained wood cabinetry.

RatingInstalledDesign LifeUpdated4 - Acceptable198410MAR-10

E2010.02 Fixed Casework**

Fixed casework contains plastic laminated counter tops and wood and plastic laminated cabinetry in patient rooms, laboratory areas, staff and administration areas. Replacement cost @ \$125/sq. M = \$518,500.00

RatingInstalledDesign LifeUpdated4 - Acceptable198435MAR-10

Event: Replace Fixed Casework**

TypeYearCostPriorityLifecycle Replacement2019\$518,500Unassigned

Updated: MAR-10

E2010.03.01 Blinds

Exterior windows covered with vertical louvered blinds and fabric curtains/valences and interior window in administration and similar space contain horizontal venetian blinds.

RatingInstalledDesign LifeUpdated4 - Acceptable198430MAR-10

Event: Replace 550 sq. M Blinds

TypeYearCostPriorityLifecycle Replacement2014\$82,500Unassigned

Updated: MAR-10

E2010.04 Fixed Floor Grilles and Mats*

Floor grill located in main entry vestibule.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

F2020.01 Asbestos* -

No asbestos observed or reported.

RatingInstalledDesign LifeUpdated5 - Good19840MAR-10

F2020.04 Mould*

No mould conditions observed or reported.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

F2020.09 Other Hazardous Materials*

No other hazardous materials observed or reported.

RatingInstalledDesign LifeUpdated4 - Acceptable19840MAR-10

S8 FUNCTIONAL ASSESSMENT

K4010.01 Barrier Free Route: Parking to Entrance*

Hard surfaced level surface to main entry.

RatingInstalledDesign LifeUpdated5 - Good19840MAR-10

K4010.02 Barrier Free Entrances*

Power operated biparting main entry doors.

RatingInstalledDesign LifeUpdated5 - Good19840MAR-10

K4010.03 Barrier Free Interior Circulation*

Wide internal corridors with wall mounted handrails and doors equipped with pulls and/or lever handles.

RatingInstalledDesign LifeUpdated5 - Good19840MAR-10

K4010.04 Barrier Free Washrooms*

There are BFA wash rooms in all areas of the facility.

Rating Installed Design Life Updated 5 - Good 1984 0 MAR-10