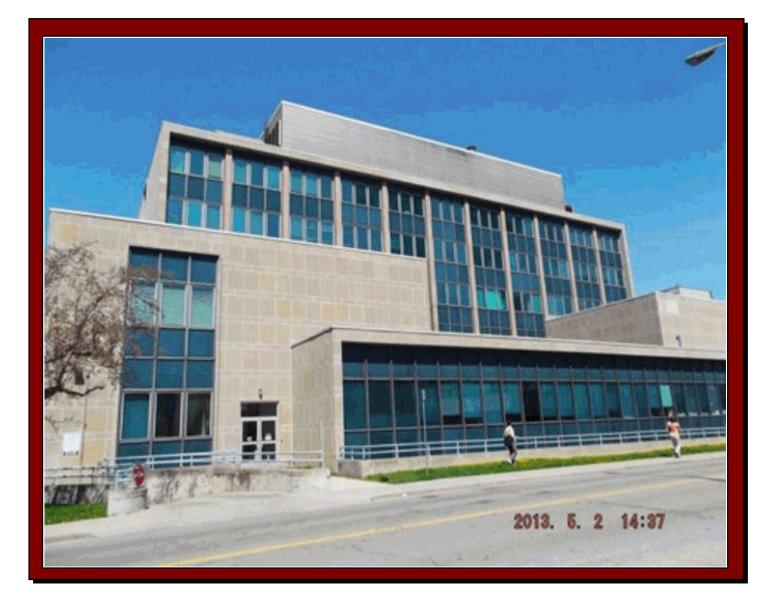
# City of Hamilton

# McMaster University Town Ctr (old courthouse)



Construction Year : 1957 Structure Size (sq ft) : 105,262

# Details

Latitude - Longitude GeoMedia Asset I.D. Number Building Code Total Replacement Value Structure Size (sq ft) Site Size (Acres) Construction Year

# Values

43.254303, -79.867990 133892 CRP034 2.92456e+007 105,262 2.00 1957

#### 00. Surface & Site Systems

Element Instance: 00. Gene	eral
Details	Values
Inspection Date	May 28 2013 12:00AM
Component Details	Eric Neu, Vanderwesten Rutherford Mantecon, 2013
	The following report is an asset level condition assessment based on visual observations at the time of assessment. No comments can be made on assets which are not visible or accessible during the assessment.
	All costs associated with asset upgrades, repairs, replacements, etc. are based on RSMeans publications, and where required, the consultants experience and expertise. Replacement costs include labour for removal of existing asset conditions as well as supply and installation of the new asset. It should be noted that replacement of assets, where applicable, will include an energy upgrade of that asset. All costs are to be taken as high level estimates and are for the sole use of the City Of Hamilton, for such use.

#### 00.2 Surface & Site Systems

### 00.2-010 Parking Lots

#### Element Instance: 00.2-010 Parking Lots -Paved Parking Surfaces

**Details** Inspection Date

**Component Details** 

May 28 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Values

Exterior parking lots are provided on the east and west side of the building. The asphalt lots were observed in fair condition with some minor deterioration in the asphalt topping. Cracking was noted throughout both parking lots. Replacement of the asphalt topping is recommended at the end of its useful life to avoid any hazards to parking/driving vehicles. Repairs to the asphalt topping may be required prior to replacement.



General condition of the asphalt paved parking surface.

General condition of the asphalt paved concrete surface.



# 00.2-010 Parking Lots -Paved Parking Surfaces Event #: 1

Brief Description	Repair [00.2-010 Parking Lots] - Interior parking and concrete slab repairs				
Event Type	Event Year	Event Cost	Priority	Data Origin	
Repair	2017	\$20,000	High	2013, Vanderweston	
				Rutherford Mantecon	
Event Details	Repair a	sphalt parking lot as deterio	ration of the asphalt t	opping continues.	
	Quantity Unit Pric	: 1 e: \$20,000			

# 00.2-010 Parking Lots -Paved Parking Surfaces Event #: 2

Brief Description Event Type Replace	<b>Event Year</b> 2025		10 Parking Lots] - Aspha <i>Event Cost</i> \$75,000	lt parking areas <i>Priority</i> High	<i>Data Origin</i> 2013, Vanderweston	
Event Details		Replace asphalt	topping in parking lots		Rutherford Mantecon	
Lvent Details						
		Approx Quantity Unit Price: \$5.00				
		Total: \$75,000				
00.2-015 Wall	kways					
Element Instance: 00	0.2-015 Walkv	vays - Concrete F	Pavers			
Details			Values			
Inspection Date	May 13 2013 12:00AM					
Component Details		Eric Neu, Vanderwesten Rutherford Mantecon, 2013				
		to poor condition hazards. Most til	n during the assessment.	Some lifted and dama	building were noted in fair aged tiles create tripping s recommended to avoids	
00.2-015 Walkways - 0	Concrete Pav	ers Event #: 1				
Brief Description		Replace [00.2-0	15 Walkways - Concrete	Pavers ]		
<i>Event Type</i> Replace	Event Year 2017		<b>Event Cost</b> \$35,000	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		Replace concret	e pavers			
		Approx Quantity Unit Price: \$7.00				

Total: \$35,000

#### Element Instance: 00.2-015 Walkways - Unit Pavers

**Details** Inspection Date

# Values

May 10 2013 12:00AM

**Component Details** 

May 10 2013 12.00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

The walkway pavers leading to the building were noted in good condition during the assessment. No cracking or lifting units were observed.



General view of the Queenston walkway provided to the north of the building.



Deteriorated sections where attempts to restore have been undertaken.



Unrepaired deteriorated units observed during the assessment on the Queenston walkway.



This report was generated without using Virtual Events. City of Hamilton McMaster University Town Ctr (old courthouse)

Queenston unit pavers provided at the main building entrance.

#### 00.2-017 Retaining Walls

#### Element Instance: 00.2-017 Retaining Walls - Concrete Retaining Walls

Values

May 10 2013 12:00AM

**Component Details** 

**Details** Inspection Date

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Poured concrete retaining walls surround the parking lots on the east and west faces of the building. The retaining walls were observed in fair condition. There appears to have been previous repairs to cracks and parging of the concrete face. General maintenance is anticipated for the life of the retaining walls.



Poured concrete retaining wall provided on the east and west property perimeter.



Hairline cracks on the planter boxes retaining wall adjacent to the concrete ramp.



Closer view of the displaced stone cap on east property perimeter.



Displaced stone cap on east property perimeter.

00.2-017 Retaining Walls - Concrete Retaining Walls Event #: 1

<b>Brief Description</b>	Repair [00.2-017 Retaining Walls - Concrete & Precast Retaining Walls]				
Event Type	Event Year	Event Cost	Priority	Data Origin	
Repair	2015	\$2,000	Medium	2013, Vanderweston	
				Rutherford Mantecon	

Event Details		General maintenance on exterior poured concrete retaining walls (parging, caulking, etc.)				
		Quantity: 1 Unit Price: \$200	0			
		Total: \$2,000				
00.2-017 Retaining Wa	alls - Concrete	e Retaining Wall	s Event #: 2			
Brief Description		Repair [00.2-01	7 Retaining Walls -	Concrete Retaining Wa	alls]	
<i>Event Type</i> Repair	Event Year 2020		<i>Event Cost</i> \$2,000	<b>Priority</b> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		General mainter etc.)	nance on exterior p	oured concrete retainin	g walls (parging, caulking,	
		Quantity: 1 Unit Price: \$200	0			
		Total: \$2,000				
00.2-017 Retaining Wa	alls - Concrete	e Retaining Wall	s Event #: 3			
Brief Description		Repair [00.2-01	7 Retaining Walls -	Concrete Retaining Wa	alls]	
<i>Event Type</i> Repair	Event Year 2025		<i>Event Cost</i> \$2,000	<b>Priority</b> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		General mainter etc.)	nance on exterior p	oured concrete retainin	g walls (parging, caulking,	
		Quantity: 1 Unit Price: \$200	0			
		Total: \$2,000				
00.2-020 Flag	pole					
Element Instance: 00	).2-020 Flagpo	ole Aluminum				
Details			Values	40.00 004		
Inspection Date			Feb 12 2013			
Component Details		INSPECTION D REF NO.:	ATE: 2012, D 25	ec. 5		
			ound	ed, ground set on conc	rete	
		CONDITION:	GOOD (no defec	ts observed)		
		HITE COMMEN	TS: Visible comp	oonents appear to be a	cceptable.	
		LOCATION: Old Co 50 Mai	urt House n St E			
		FINISH: GO	DOD			
		ULTRASONIC 1 Locatio	THICKNESS READ on Base 2ft	INGS (inches): 4ft		

North	0.327	0.322	0.310
East	0.328	0.315	0.325
South	0.319	0.322	0.329
West	0.318	0.326	0.315

#### COMPONENTS, PHOTOS:

Photo 10 - base plates Photo 11 - top of pole

APPROX HT (ft):40RAISING SYSTEM:internalBASE OR FLASH:n/a

CONCRETE BASE & ANCHOR BOLTS: concrete in GOOD condition no anchor bolts visible

Base Dimensions	16"	diam. x 2" thick & 12" diam. x 2" thick rings
Base Bolt Spacing	n/a	
Minimum bolt edge distance		n/a
Anchor bolt length	n/a	
Anchor bolt head size or diam.		n/a
Mount. Bracket & Fastener		n/a

FLAG: Ontario

NOTES: steel rings at base would not move

Photo 10 - base plates



Photo 11 - top of pole

# Element Instance: 00.2-020 Flagpole Aluminum

<b>Details</b> Inspection Date	<b>Values</b> Feb 19 2013 12:00AM
Component Details	INSPECTION DATE: 2012, Dec. 5 REF NO.: 24 TYPE: Ground MATERIAL: Aluminum; tapered, ground set on concrete
	CONDITION: GOOD (no defects observed)
	HITE COMMENTS: Minor corrosion around the top of the base "cuff". Monitor corrosion annually.

Visible components appear to be acceptable.

LOCATION:

Old Court House 50 Main St E

FINISH: GOOD

ULTRASONIC THICKNESS READINGS (inches):

Location	n Ba	ise 2ft	4ft
North	0.327	0.322	0.310
East	0.328	0.315	0.325
South	0.319	0.322	0.329
West	0.318	0.326	0.315

COMPONENTS, PHOTOS:

Photo 8 - base plate Photo 9 - top of pole

APPROX HT (ft):40RAISING SYSTEM:internalBASE OR FLASH:n/a

CONCRETE BASE & ANCHOR BOLTS: concrete in GOOD condition no anchor bolts visible

Base Dimensions	16"	diam. x 2" thick & 12" diam. x 2" thick rings
Base Bolt Spacing	n/a	
Minimum bolt edge distance		n/a
Anchor bolt length	n/a	
Anchor bolt head size or diam.		n/a
Mount. Bracket & Fastener		n/a

FLAG: Canada

NOTES: steel rings at base would not move

Photo 8 - base plate



Photo 9 - top of pole

# 01. Architectural & Structural

# 01.1 Foundations

#### 01.1-010 Footings & Foundations

Details	Values		
Inspection Date	May 9 2013 12:00AM		
Component Details	Eric Neu, Vanderwesten Rutherford Mantecon, 2013		
	The building is supported by a combination of poured reinforced strip and spread footings as well as poured reinforced foundation walls. The foundations were observed in good condition during the assessment with no major deficiencies to report.		

#### 01.2-010 Structural Framing

#### Element Instance: 01.2-010 Structural Framing

**Details** Inspection Date

**Component Details** 

May 9 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Values

The structural framing of the building consists of reinforced concrete columns and beams in the basement supporting a suspended concrete slab, and structural steel framing above grade. The majority of the structure is concealed, however where visible was noted in good condition with no major deficiencies to report.



# 01.3 Exterior Closures 01.3-010 Exterior Walls

# Element Instance: 01.3-010 Exterior Wall Cladding

**Details** Inspection Date

**Component Details** 

#### Values

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

May 10 2013 12:00AM

The exterior wall cladding consists of a granite and limestone facing. The exterior cladding was observed in an overall good condition with no major deficiencies to report.

The penthouse is cladding with an aluminum siding. The siding was observed in good condition with no major deficiencies to report.





Fresco provided on the front elevation. Restoration of the fresco completed in the summer of 2006.



Granite stone facing provided on the exterior walls on all elevations.



Granite stone facing provided on the exterior walls on all elevations.



Movement of the stone facing observed on the south elevation.



Fresco provided on the front elevation. Restoration of the fresco completed in the summer of 2006.



#### 01.3-030 Exterior Doors

#### Element Instance: 01.3-030 Exterior Doors - Aluminum Doors

Details Inspection Date Values May 10 2013 12:00AM

**Component Details** 

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Two (2) sets of aluminum framed double doors with insulated glazed units located on the south face of the building were noted in good condition during the assessment. No deficiencies to report.



Aluminum door with IGUs on the south elevation.

Element Instance: 01.3-030 Exterior Doors - Front Entrance Doors.

Details Inspection Date

May 10 2013 12:00AM

**Component Details** 

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Values

The main entrance doors consist of fully glazed units complete with door operators. The

doors were noted in good working condition with no deficiencies to report. Replacement of the door operators at the end of their useful life is recommended to maintain barrier free access to the building.



Front Entrance Doors. The exterior doors are glass doors with pivot hinges.

Air leakages experienced at door interfaces.



01.3-030 Exterior Doors - Front Entrance Doors. Event #: 1

Replace [01.3-03	Replace [01.3-030 Exterior Doors - Front Entrance Doors.]						
		<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston				
		0	Rutherford Mantecon				
Replace main ent	rance door operators	S					
Quantity: 2							
Unit Price: \$2500							
Total: \$5,000							
Exterior Doors - Garage	Overhead Doors						
	Values						
	May 10 2013 1	2:00AM					
Eric Neu, Vander	Eric Neu, Vanderwesten Rutherford Mantecon, 2013						
the parking garag	Two (2) sectional overhead doors located in the basement provide vehicle access into the parking garage. The doors were noted in fair to poor condition. Both doors were in working condition during the assessment. It is recommended that the doors be replaced at the end of their useful life as all vehicles parking in the garage or exterior parking lot						
	nt Year 0 Replace main ent Quantity: 2 Unit Price: \$2500 Total: \$5,000 Exterior Doors - Garage Eric Neu, Vanden Two (2) sectional the parking garag	It Year       Event Cost         0       \$5,000         Replace main entrance door operator         Quantity: 2         Unit Price: \$2500         Total: \$5,000         Exterior Doors - Garage Overhead Doors         Values         May 10 2013 1         Eric Neu, Vanderwesten Rutherford M         Two (2) sectional overhead doors loca the parking garage. The doors were n	Event Cost       Priority         0       \$5,000       High         Replace main entrance door operators       Quantity: 2         Unit Price: \$2500       Total: \$5,000         Total: \$5,000       Total: \$5,000         Exterior Doors - Garage Overhead Doors         Values         May 10 2013 12:00AM         Eric Neu, Vanderwesten Rutherford Mantecon, 2013         Two (2) sectional overhead doors located in the basementhe parking garage. The doors were noted in fair to poor of the parking garage.	Image: State of the parking garage. The doors located in the basement provide vehicle access into the parking garage. The doors were noted in fair to poor condition. Both doors be replaced			

must use both doors to either enter or exit.





Sectional metal overhead door provided at either ends of the parking garage.



Automatic overhead garage door open device.



Sectional metal overhead door provided at either ends of the parking garage.

# 01.3-030 Exterior Doors - Garage Overhead Doors Event #: 1

Brief Description Replace [01.3-030 Exterior Doors - Garage Overhead Doors]						
Event Type	Event Year	Event Cost	Priority	Data Origin		
Replace	2020	\$12,000	High	2013, Vanderweston Rutherford Mantecon		
Event Details Replace overhead sectional doors						
Quantity: 2						
Unit Price: \$6000						
Total: \$12,000						
Element Instance: 0	1.3-030 Exterior Doors -	Hollow Metal Doors				
Details		Values				
Inspection Date		May 10 2013 12:00AM				
This report was generated	without using Virtual Events.					

#### **Component Details**

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Two (2) exterior hollow metal doors were observed in fair to poor condition during the assessment. Surface rust was noted on the doors, frames and hardware. Replacement of the doors is recommended at the end of their useful life.



# 01.3-030 Exterior Doors - Hollow Metal Doors Event #: 1

Brief Description	on Replace [01.3-030 Exterior Doors - Painted Hollow Metal Doors]				
Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2016	\$2,400	High	2013, Vanderweston Rutherford Mantecon	
<i>Event Details</i> Replace exterior hollow metal door					
Quantity: 2 Unit Price: \$1200					
	Total: \$24	400			
01.3-040 Win	dows				

Element Instance:	01.3-040 Windows

Details Inspection Date

**Component Details** 

Values

May 10 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Exterior windows consist of insulated glazed units in aluminum frames. The date stamps on the units varied throughout the building and were noted from 1973-1991. Not all windows contained date stamps and not all windows were inspected for dates. The seals around the windows were deteriorated in some areas and noted in overall fair to poor condition. It is recommended that the windows be resealed, and replaced at the end of their useful life.



Typical window wall system seen on the south elevation.

Failed IGUs observed during the assessment.

Failed IGUs. Moisture infiltration has occurred.







01.3-040 Windows Event #: 1

Brief Description		Repair [01.3-040 Windows ]		
<i>Event Type</i> Repair	Event Year 2014	<i>Event Cost</i> \$5.650	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston
·			0	Rutherford Mantecon
Event Details		Replace failing window seals (bulk	cost provided)	
		Quantity: 1 Unit Price: \$5000		
		Total: \$5000		
01.3-040 Windows Ev	vent #: 2			
Brief Description		Replace - 01.3-040 Windows - 01.3	-040 Windows - Remair	ning Window Wall System
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2018	\$1,000,000	High	2013, Vanderweston Rutherford Mantecon

This report was generated without using Virtual Events.

City of Hamilton

#### **Event Details**

#### Replace majority of exterior windows at the end of their useful life

Approx Quantity: 20,000 SF Unit Price: \$50 / SF

Total: \$1,000,000

#### 01.4 Roofing

01.4-010C01 Built Up Roof

#### Element Instance: 01.4-010C01 Built Up Roof

**Details** Inspection Date

#### **Component Details**

Values

May 13 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

The fifth level and penthouse built up roof was noted in fair to poor condition during the assessment. No current leaks were reported. It is recommended that the roof be replaced before further deterioration occurs.





General view of the upper main roof, gravel requires replacement, poor condition.



Roof access on to Built Up Roof area.

Moss growing around a roof drain

General view of upper penthouse

General view of the upper main Built Up Roof.



View of boiler stack



General view of the upper main roof.



General view of the upper main roof.

View of Flashing at Cooling Tower will require replacement when BUR is replaced.

View of roof drain on BUR requires replacement.

View of cooling tower on main roof



#### 01.4-010C01 Built Up Roof Event #: 1

Brief Description	Rep	lace [01.4-010C01 Built Up Ro	oof]	
<i>Event Type</i> Replace	<i>Event Year</i> 2015	<i>Event Cost</i> \$210,000	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon
Event Details	Rep	lace built up roof over fifth leve	el and penthouse.	
		rox Quantity: 15,000 SF Price: \$14 / SF		
	Tota	ıl: \$210,000		
01.4-010C02	Modified bitumii	ous/thermoplastic Roof		
Element Instance: 0	1.4-010C02 Modifi	ed bituminous Roof		
Details		Values		
Inspection Date		May 10 201	3 12:00AM	
Component Details	Eric	Neu, Vanderwesten Rutherfor	rd Mantecon, 2013	
	obs	•	ofs were not accessible	of the two-storey roof was e during the assessments, so a ows was done. Large amounts

visual observation through the third and fourth level windows was done. Large amounts of ponding were observed during the assessment. A portion of the roof appears to have been recently repaired. No current leaking was reported. Replacement of the bituminous roof is recommended prior to further deterioration and possible leaking.

During the assessment staff noted that someone had recently assessed the roof anchors.



Portion of level 2 roof appears to have been replaced.

View of lower modified roofs, poor condition, requires replacement.

View of lower modified roof, nearing end of life.



Lower modified bitumen roofs have evidence of ponding and seams are in poor condition.





# 01.4-010C02 Modified bituminous Roof Event #: 1

Brief Description Replace [01.4-010C02 Modified bituminous/thermoplastic Roof]					
<i>Event Type</i> Replace	<i>Event Year</i> 2015	<i>Event Cost</i> \$176,000	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston	
				Rutherford Mantecon	
Event Details	Replace modified bituminous roof				
	Approx Quantity: 16,000 SF				
	Unit Price	: \$11.00 / SF			
This report was generated	without using Virtual Events.				

Total: \$176,000

## 01.5 Interior Construction

#### 01.5-030 Building Accessories (Fixed)

Element Instance: 01.5-030 F	ittings & Equipment - Flag Pole & Wire Mesh Partitions
Details	Values
Inspection Date	Mar 13 2008 12:00AM
Component Details	Norman Lobo, Jacques Whitford, 2008
	The flag pole, which is a 44 ft. high stainless steel seamless pole, remain from the original commissioning of the building. Approximately one month ago, Mr. Ross indicated that the flag pole was restrung, and top bearing and cap replaced
	The wire mesh partitions on the basement storage area remain as described above. No significant deterioration was seen on the wire mesh partition.

(The prefinished metal lockers in the change room, the arms and sensors of the automatic parking gates, and the bookcases in the law library described in the previous assessment have been removed).

Wire mesh partition located in the basement.



#### 01.5-030 Fittings & Equipment - Flag Pole & Wire Mesh Partitions Event #: 1

Brief Description	Repair -	01.5-030 Fittings & Equipm	ent - Flag Pole & Wire	e Mesh Partitions
Event Type	Event Year	Event Cost	Priority	Data Origin
Repair	2014	\$5,000	High	2008, Jacques Whitford Ltd,
				Standard, Import

#### **Event Details**

Maintenance of the wire mesh partitions in the basement storage room is required. Periodic painting of the wire mesh partition will defer replacement.



A lump sum cost of \$ 5,000 is provided.

Dec. 2007 - Wire mesh partitions in the basement storage room.

 01.5-050 Interior Doors

 Element Instance: 01.5-050 Interior Doors - Glazed Aluminum Frame

 Details
 Values

 Inspection Date
 May 9 2013 12:00AM

 Component Details
 Eric Neu, Vanderwesten Rutherford Mantecon, 2013

 Full glazed aluminum framed doors are located leading into stairwells, offices and in the main lobby. The doors were observed in fair working condition during the assessment.

Replacement is recommended at the end of their useful life as they are typically in high traffic areas.

Glass doors in aluminum frames.



#### 01.5-050 Interior Doors - Glazed Aluminum Frame Event #: 1

Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2018	\$18,750	High	2013, Vanderweston Rutherford Mantecon
Event Details	Replace interior glazed aluminum framed doors			
		Quantity: 25 ce: \$750		
	Total: \$	18,750		

Details Inspection Date	
Component Details	Eric Neu, Vanderw

May 9 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

The majority of interior doors consisted of hollow metal doors and frames. The doors were observed in generally good to fair condition throughout. Replacement over the next 10-15 years is recommended to maintain proper use and exiting. The total amount of interior hollow metal doors is approximately two hundred (200).





Typical hollow metal doors. The doors were restored to remediate suspect hazardous containing materials.





#### 01.5-050 Interior Doors - Hollow Metal Doors Event #: 1

Brief Description		Replace - 01.5-050 In	terior Doors - Hollov	w Metal Doors	
<i>Event Type</i> Replace	Event Year 2023		<i>nt Cost</i> ,500	<i>Priority</i> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon
Event Details		Replace Hollow Meta	l Doors (in current fa	air condition)	
		Approx Quantity: 75 Unit Price: \$500			
		Total: \$37,500			
01.5-050 Interior Door	s - Hollow M	etal Doors Event #: 2			
Brief Description		Replace [01.5-050 Int	erior Doors - Hollow	Metal Doors]	
Event Type	Event Yea	r Eve	nt Cost	Priority	Data Origin
Replace	2028	\$37	,500	Medium	2013, Vanderweston Rutherford Mantecon
Event Details		Replace Hollow Meta	l Doors (in current g	ood condition)	
		Approx Quantity: 75 Unit Price: \$500			
		Total: \$37,500			

**Details** Inspection Date **Values** May 9 2013 12:00AM

**Component Details** 

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Interior single and double leaf wood doors are located throughout the building. The doors were noted in generally fair condition with signs of wear and colour fading. Replacement is recommended at the end of their useful life for cosmetic and operational purposes. There are approximately one hundred (100) interior wood doors.



Wood doors provided as part of the floor re-distribution undertaken during occupancy by McMasters University.



# 01.5-050 Interior Doors - Wood Doors Event #: 1

Brief Description	Replace - 01.5-050 Interior Doors - Wood Doors				
Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2018	\$30,000	High	2013, Vanderweston Rutherford Mantecon	
Event Details Replace Interior Wood Doors					
	Approx (	Quantity: 75			
	Unit Pric	e: \$400			
	Total: \$3	30,000			
01.5-070 Flo	oor Finishes				
01.5-070	C03 Terrazzo				

#### Element Instance: 01.5-070C03 Terrazzo

DetailsValuesInspection DateMay 28 2013 12:00AMComponent DetailsEric Neu, Vanderwesten Rutherford Mantecon, 2013Terrazzo flooring located in the basement corridors and stairwells was noted in fair<br/>condition during the assessment. Some minor areas of cracks and damages were noted.<br/>A portion of the cracks have been filled and sealed.

It is recommended that the terrazzo floor be properly cleaned and resealed to extend the useful life of the floor.



Terrazzo floor covering in the basement.



01.5-070C03 Terrazzo Event #: 1

Brief Description	Refinish - 01.5-070 Floor Finishes - Terrazzo				
Event Type	Event Year	Event Cost	Priority	Data Origin	
Refinish	2015	\$15,000	Medium	2013, Vanderweston	
				Rutherford Mantecon	

**Event Details** 

Properly clean and reseal terrazzo floor

Approx Quantity: 5000 SF Unit Price: \$3.00 / SF

Total: \$15,000



01.5-070C04 Carpeting Element Instance: 01.5-070C04 Carpeting

Details Inspection Date

**Component Details** 

#### Values

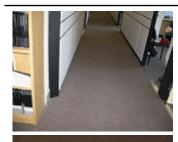
May 9 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Carpet flooring is provided throughout the buildings offices, court rooms, board rooms, etc. The carpet in high traffic areas, such as hallways, was noted in fair condition with signs of wear. The remainder of the carpet was noted in good condition. Replacements costs are to replace high traffic areas first followed by the remainder of the carpet.



This report was generated without using Virtual Events. City of Hamilton McMaster University Town Ctr (old courthouse)



Carpets installed in offices in1998 during the McMaster University occupancy.



General condition of the carpet observed during the assessment.



Condition of the carpet in the Ontario Municipal Board room located on

Some staining as result of usage observed on the carpet.

the 1st floor not replaced in 2007.









This report was generated without using Virtual Events. City of Hamilton

01.5-070C04 Carpeting	Event #: 1					
Brief Description		Replace [01.5-070C04 Carpeting]				
<i>Event Type</i> Replace	Event Year 2016	<i>Event Cost</i> \$75,000	<b>Priority</b> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon		
Event Details		Replace carpet in high traffic areas				
		Approx Quantity: 15,000 SF Unit Price: \$5.00 / SF				
		Total: \$75,000				
01.5-070C04 Carpeting	Event #: 2					
Brief Description		Replace [01.5-070C04 Carpeting]				
<i>Event Type</i> Replace	<b>Event Year</b> 2019	<i>Event Cost</i> \$250,000	<b>Priority</b> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon		
Event Details		Replace remainder of carpets (non h	igh traffic areas)			
		Approx Quantity: 50,000 SF Unit Price: \$5.00 / SF				
		Total: \$250,000				

# 01.5-070C05 Vinyl Floor Tile

### Element Instance: 01.5-070C05 Vinyl Tile Floor

Details	Values			
Inspection Date	May 9 2013 12:00AM			
Component Details	Eric Neu, Vanderwesten Rutherford Mantecon, 2013			
	Vinyl tile flooring, located in various areas throughout the building, was noted			

Vinyl tile flooring, located in various areas throughout the building, was noted in overall fair condition during the assessment. Typical sign of wear on the tiles. Replacement is recommended at the end of its useful life to maintain appearances and avoid any future trip hazards from lifted tiles.



Condition of vinyl floor tile provided in the building.

Vinyl floor tiles provided in the building.



#### 01.5-070C05 Vinyl Tile Floor Event #: 1

Brief Description	Replace	Replace [01.5-070C13 Special Floor Finishes] - Cork tile				
Event Type	Event Year	Event Cost	Priority	Data Origin		
Replace	2019	\$27,000	Medium	2013, Vanderweston Rutherford Mantecon		
Event Details	Event Details Replace vinyl tile flooring					
	Approx (	Approx Quantity: 6000 SF				
	Unit Price: \$4.50 / SF					
	Total: \$2	27,000				
01.5-070	C06 Sheet Vinyl Floo	r				
Element Instance: 0	1.5-070C06 Sheet Viny	I Floor Covering				

Details Inspection Date

**Component Details** 

Values May 9 2013 12:00AM

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

The vinyl sheet flooring noted on site was in fair condition during the assessment. The sheet flooring was mostly located in kitchen areas. There were some minor signs of wear noted on the floors. Replacement is recommended to maintain appearances and use.



Closer view of the sheet vinyl floor covering provided in the kitchenette.

Deterioration observed at the door thresholds.



Sheet vinyl floors provided in the kitchenette on each floor.

#### 01.5-070C06 Sheet Vinyl Floor Covering Event #: 1

Brief Description	Replace	Replace [01.5-070C06 Sheet Vinyl Floor] - Vinyl tile and sheet flooring					
Event Type	Event Year	Event Cost	Priority	Data Origin			
Replace	2020	\$8,250	Medium	2013, Vanderweston Rutherford Mantecon			
Event Details	Replace	Replace vinyl sheet flooring					
		Approx Quantity: 1500 SF Unit Price: \$5.50 / SF					
	Total: \$82	250					
01.5-070	C09 Painted/Sealed C	oncrete or Wood Floor					

#### Element Instance: 01.5-070C01 Floor Finishes - Ceramic Floor Tile

Details	Values				
Inspection Date	May 9 2013 12:00AM				
Component Details	Eric Neu, Vanderwesten Rutherford Mantecon, 2013				
	Ceramic floor tiles are located in washrooms through				

Ceramic floor tiles are located in washrooms throughout the building. The floors were noted in fair condition with some areas of cracked and damaged tiles. Some areas of deteriorated grout was also noted. Replacement of the ceramic floor tiles is recommended at the end of their useful life.



Typical condition of the ceramic tile floor covering provided in the washrooms.

Typical condition of the ceramic floor tiles provided in the washrooms.

#### 01.5-070C01 Floor Finishes - Ceramic Floor Tile Event #: 1

the slab.

<b>Brief Description</b>	Ponl	ace - 01.5-070 Floor Finishes -	Ceramic Floor Tile				
Brief Description Event Type Replace	Event Year 2018	<i>Event Cost</i> \$52,500	Priority Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon			
Event Details	Repl	ace Ceramic Floor Tiles					
		ox Quantity: 5000 SF Price: \$10.50 / SF					
	Tota	: \$52,500					
Element Instance: (	01.5-070C09 Sealed	Concrete Floor					
Details		Values					
Inspection Date		May 9 2013 12:00AM					
Component Details	Eric	Neu, Vanderwesten Rutherford	Mantecon, 2013				
The sealed concrete floor located in the basement parking garage and boiler room wanted in poor condition during the assessment. There was deterioration noted in the concrete slab, specifically in the parking garage and under units in the boiler room.							

recommended that the concrete floor be resealed to prevent any further deterioration of

#### 01.5-070C09 Sealed Concrete Floor Event #: 1

Brief Description	Repair [0	Repair [01.5-070C09 Sealed Concrete Floor]					
Event Type	Event Year	Event Cost	Priority	Data Origin			
Repair	2014	\$9,000	High	2013, Vanderweston			
				Rutherford Mantecon			
Event Details	Reseal co	oncrete floor					
	Approx Q	uantity: 18,000					
	Unit Price	: \$0.50 / SF					
	Total: \$9,	000					
01.5-070	C11 Marble Floor						
Element Instance: (	1.5-070C11 Marble Floo	r					
Details		Values					
Inspection Date		May 9 2013	12:00AM				
Component Details	Eric Neu,	Vanderwesten Rutherford	Mantecon, 2013				

Marble flooring is located in the main lobby and first floor hallways as well as the elevator lobby at each floor. The floor was noted in good condition with no deficiencies to report.



Marble floor covering provided in the corridors.



Portion of the marble floor covering seen in main entrance foyer.

This report was generated without using Virtual Events. City of Hamilton McMaster University Town Ctr (old courthouse)



# 01.5-080 Ceiling Finishes

# Element Instance: 01.5-080 Ceiling Finishes - Acoustic Tile Ceiling

**Details** Inspection Date Values May 9 2013 12:00AM

**Component Details** 

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

1x1 acoustic ceiling tiles are located in classrooms and offices throughout the building. The tiles were were noted in overall fair condition with some areas of tile coming loose. Replacement of the tile ceiling is recommended prior to falling or worn tiles.



Acoustic tile ceiling provided in some classrooms and offices.

Acoustic tile ceiling provided in some classrooms and offices.



#### 01.5-080 Ceiling Finishes - Acoustic Tile Ceiling Event #: 1

Brief Description	Replace -	Replace - 01.5-080 Ceiling Finishes - Acoustic Tile Ceiling					
Event Type	Event Year	Event Cost	<b>Priority</b>	Data Origin			
Replace	2016	\$230,000	High	2013, Vanderweston Rutherford Mantecon			
Event Details	Replace 1	Replace 1x1 acoustic ceiling tiles					
Approx Quantity: 46,000 SF Unit Price: \$5.00 / SF							
	Total: \$23	0,000					
01.5-080	C02 Suspended Acous	stic Panel Ceiling					
Element Instance: 0	1.5-080C02 Suspended	Acoustic Panel Ceiling					
Details		Values					
Inspection Date		May 9 2013	12:00AM				
	<b>—</b> · • •						

Component Details

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

2x4 suspended acoustic ceiling tile located in classrooms and various areas throughout the building was noted in fair condition during the assessment. Some signs of wear and age on the tiles. Replacement of the tiles is recommended to maintain appearances.



01.5-080C02 Suspended Acoustic Panel Ceiling Event #: 1

					Report PW 130790	
Brief Description		Replace [01.5-080C02 Suspended Acoustic Panel Ceiling] - Suspended acoustic tile ceiling				
<i>Event Type</i> Replace	Event Year 2021		<i>Event Cost</i> \$31,500	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		Replace 2x	4 suspended acoustic til	e ceiling.		
		Approx Qua Unit Price:	antity: 7000 SF \$4.50			
		Total: \$31,	500			
		Dec. 2007 ·	- Suspended ceiling tiles	in some of the offices		
2/		Dec. 2007	- Suspended ceiling tiles	in some of the offices		

# 01.5-080C04 Linear Metal Panel Ceiling

Element Instance: 01.5-080C04 1x1 Metal Panel Ceiling

**Details** Inspection Date

Values May 9 2013 12:00AM

**Component Details** 

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

1x1 metal panel ceiling is located throughout the main lobby and the hallways on all floors as well as some offices. The panels were noted in fair condition overall. Many holes in the metal panels appear to be clogged either with debris or paint. Replacement of the ceiling panels is recommended for appearances and to increase the amount of return air coming through the panels.



Loose metal panels. Painting undertaken undertaken in 1999 has closed some of the perforations thereby reducing the efficiency of the return air system.



Painting undertaken undertaken in 1999 has closed some of the perforations thereby reducing the efficiency of the return air system.

Loose metal panels. Painting undertaken undertaken in 1999 has closed some of the perforations thereby reducing the efficiency of the return air system.

Loose and deteriorated metal panels. Painting undertaken undertaken in 1999 has closed some of the perforations thereby reducing the efficiency of the return air system.

Preforated metal panel ceiling provided in the classrooms.

Ĩ

#### 01.5-080C04 1x1 Metal Panel Ceiling Event #: 1

Brief Description	Replace [0	Replace [01.5-080C04 Linear Metal Panel Ceiling] - Painted perforated metal ceilings					
Event Type	Event Year	Event Cost	Priority	Data Origin			
Replace	2022	\$180,000	High	2013, Vanderweston Rutherford Mantecon			
Event Details							
	Approx Quantity: 20,000 SF						
Unit Price: \$9.00 / SF							
	Total: \$18	0,000					
01.5-110 Int	erior Stairs						
Element Instance:	01.5-110 Interior Stairs						
Details		Values					
Inspection Date		May 10 2013 12:00AM					

This report was generated without using Virtual Events.

City of Hamilton

#### **Component Details**

Eric Neu, Vanderwesten Rutherford Mantecon, 2013

Two (2) sets of metal stairs and railings services all floors of the building. The stairs were observed in good condition with no major deficiencies to report. The stairs in the basement level are poured concrete.

Many areas in the basement level contain concrete steps. All basement level concrete stairs were noted in good condition during the assessment. No major deficiencies to report.

One (1) set of interior steel stairs provides access from the basement level storage room in the north east corner of the building to the main floor.





Repair undertaken on the terrazzo treads.

Metal framed stairs with terrazzo treads.





Poured concrete stairs to the basement, with terrazzo covers on the treads.



# 01.6 Exterior Stairs, Ramps, Plazas, & Decks (Attached to Structure)

Element Instance: 01.6 Site Related Stairs, Plazas, & Ramps (Detached from Structure)

Details	Values
Inspection Date	May 28 2013 12:00AM
Component Details	Eric Neu, Vanderwesten Rutherford Mantecon, 2013
	Two (2) sets of concrete stairs provide access from Jackson street to the two (2) lower levels parking areas. The stairs were observed in poor condition with deteriorated and damaged concrete steps. Repairs are recommended to prevent any trip hazards.
	Two (2) sets of poured concrete stairs provide access from the basement of the building up to the exterior parking. These stairs were noted in good condition during the assessment with no major deficiencies to report.
	Concrete stairs with metal handrails located at the front of the building provide access to

the main entrance of the building. These stairs were noted in good condition with no

major deficiencies to report.

One (1) exterior steel ramp complete with with checkered plate provides barrier free access to the main entrance of the building. The ramp was noted in poor condition with large amounts of surface rust. Replacement is recommended to maintain proper barrier free access to the building.

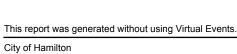


areas.

Concrete ramps from the street to the surface and underground parking areas.

Poured concrete steps at either end of the Queenston sidewalk.

Concrete ramps from the street to the surface and underground parking





01.6 Site Related Stairs, Plazas, & Ramps (Detached from Structure) Event #: 1

<i>Brief Description Event Type</i> Repair	<b>Event Year</b> 2014	Repair [01.6 Site Rela <b>Eve</b> \$1,0	ent Cost	& Ramps (Detached fr <i>Priority</i> Medium	rom Structure)] <i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon
Event Details		Repairs to concrete s	tairs at south side of	the building from Jac	
		Quantity: 2 Unit Price: \$500			
		Total: \$1000			
01.6 Site Related Stai	rs, Plazas, & I	Ramps (Detached fror	n Structure) Event	#: 2	
Brief Description		Replace [00.2-016 Sit	te Related Stairs, Pla	azas, & Ramps (Deta	ched from Structure)]
<i>Event Type</i> Replace	Event Year 2016		e <b>nt Cost</b> ,000	<i>Priority</i> Medium	Data Origin 2013, Vanderweston
					Rutherford Mantecon
Event Details		Replace steel ramp a	t main entrance to be	uilding	
		Quantity: 1 Unit Price: \$10,000			
		Total: \$10,000			
02. Vertical Movem	ent				
02.1 Passenger	Elevators				
Element Instance: 02	2.1 Vertical M	ovement - Passenger			
Details			Values		
Inspection Date			May 13 2013 12:00		
Component Details		Eric Neu, Vanderwest	ten Rutherford Mante	econ, 2013	
		Two (2) OTIS traction penthouse). The eleva condition during the a elevators are TSSA c	ators are original to t issessment. the y ha	he building and were ve a capacity of 16 pe	noted in fair working ersons or 2500 lbs. The
		The interior of the cab cab should be conside		poor condition. Refini	shing the interior of the

Pending regular maintenance and continued TSSA certification, the elevators may need to be replaced as they have already exceeded their expected life use.



02.1 Vertical Movement - Passenger Traction Elevators Event #: 1

Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2017	\$400,000	High	2013, Vanderweston Rutherford Mantecon
Event Details	Replace	interior traction elevators, 5	5 storey, 2500 lbs	
	Quantity Unit Pric	: 2 e: \$200,000		
	Total: \$ 4	400,000		
03. Mechanical				
03.1 HVAC				

03.1-010 Boilers

## Element Instance: 03.1-010 Boilers - Two Steam Boilers

Details	
Inspection	Date

**Component Details** 

May 23 2013 12:00AM

David He, Vanderwesten Rutherford Mantecon, 2013

Values

There are two original boilers built in 1957. Boilers are York-Shipley model FV 40N. Each has 6,300 MBH input capacity, low pressure steam, gas fired, forced draft burner, fire tube boilers installed. The original oil burners have been updated to gas system. The boilers are operating as run/standby units. They are serving the perimeter radiation, the recessed cabinet units heaters and the steam heating coils of the main air handling unit SF-1, and the floor unit heaters (UH-1 and UH-2) in the garage. Water to the boilers is treated and analyzed by independent contractor.

There are a Vacuum pump, a condensate receiver and two condensate pumps to collect the condensate return from equipment and pump into boilers. The vacuum pump was installed about 8 years ago. It is in good condition. The condensate tank is stainless steel tank which in fair condition. The two condensate pumps are original pumps were installed in 1957. The pumps are in poor condition.

The boilers have passed their service life. Based on age the boilers are in poor condition. No major restoration of the boilers has reportedly been undertaken in the last

22 years with the exception of some valve and pipe replacement.

The chimney flashing on roof is in poor condition which should be repair soon.



Corrosion seen on the boiler housing.



Boiler No.2 - at the time of the assessment was under repair.



Boiler No. 1 - only boiler currently operating. Boiler No, 2 was under repair at the time of the assessment.





### 03.1-010 Boilers - Two Steam Boilers Event #: 1

<b>Brief Description</b>	Replace			
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2014	\$213,334	High	2013, Vanderweston
				Rutherford Mantecon

**Event Details** 

Boilers are tested daily by the Facilities maintenance personnel, and monthly by the water treatment supplier. The yearly inspection is by the insuring company.

A replacement of the boilers is recommended given age, and reported and observed conditions. At the time of the assessment building heat was supported by a single boiler, which is dated. Failure of both boilers at the same time is likely, and this will result in a building shut down during the winter.

Replacement cost based on the boilers, are gas fired, natural or propane, cast iron, steam, gross output, 6970 MBH, includes standard controls and insulated jacket, packaged. Excludes cost for the removal of the existing boiler, and the replacement of the boiler auxiliary systems and gas piping.

Qty: 2 boilers Unit Cost: \$106,667/boiler.

Total: \$213,334

#### 03.1-040 Heat Exchangers

### Element Instance: 03.1-040 Heat Exchangers - Snow Melt

**Details** Inspection Date

**Component Details** 

## Values

May 24 2013 12:00AM

David He, Vanderwesten Rutherford Mantecon, 2013

One steam/glycol heat exchanger and recirculation pump serve the snow melting system for the parking garage access ramps. Both the pump and heat exchanger are an original 1957 installation.

The heat exchanger and pump, which provide heating hot glycol water to the snow melt beneath concrete ramps and driveway, are disconnected. The concrete ramps and driveway snow melt has experienced leaks and is not in use.



Snow melt heat exchanger currently de-commissioned.



#### 03.1-040 Heat Exchangers - Snow Melt Event #: 1

Brief Description		Replace - 03.1-040 Heat Exchange	rs - Snow Melt		
Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2014	\$29,881	High	2013, Vanderweston	
				Rutherford Mantecon	
Event Details		Replacement of the heat exchanger to be coordinated with the snow me	•		
		Heat Exchanger Specifications: Shell & tube type, cast iron heads, cast iron tube sheet, steel shell, 2 or 4 pass, hot water 40Deg.F to 180Deg.F, by steam at 10 PSI, 240 GPM, 3/4" copper tubes. Cost does not include replacement of the snow melt system beneath the parking garage access.			
		Heat exchanger: Qtv: 1 unit			
		Unit Costs: \$21,810/unit			
		Total: \$21,810			
		Recirculation pump:			
		Qty: 1			
		unit Unit costs: \$8,000/unit			
		Total: \$8,000			
03.1-070 Terr	minal Units				
Element Instance: 0	3.1-070 Termi	nal Units - Perimeter fin coils			
Details		Values			
Inspection Date		May 23 2013	12:00AM		

**Component Details** 

David He, Vanderwesten Rutherford Mantecon, 2013

The building has the original 1957 perimeter heating system comprising of steam radiators and convectors. In corridors, stairwells and the entrance vestibule heating is provided by wall recessed forced flow heaters.

The radiators and the convectors are in fair condition for their age.

Heating piping is installed in the steps at main entrance above garage as a snow melting system.

Perimeter forced flow heaters provided in the kitchenettes on each floor.

Forced flow heaters provided in the entrance vestibule.



Typical forced flow heaters provided in the some offices.

## 03.1-070 Terminal Units - Perimeter fin coils Event #: 1

Brief Description		Replace [03.1-070 Term	inal Units]		
Event Type	Event Year	Event	Cost	Priority	Data Origin
Replace	2014	\$149,9	10	High	2013, Vanderweston
					Rutherford Mantecon
Event Details		The fin coil units and the	forced flow heate	ers are in fair conditio	n. Based on age
		replacement is recomme	ended to maintain	uninterrupted buildin	g comfort.
		Qty: 263 units.			
		Unit Costs: \$570/unit			
		Total: \$149,910			
03.1-100 Chil	lers				
Element Instance: 03	3.1-100 Chiller	s - Mechanical Room			
Details		V	alues		
Inspection Date		N	ay 23 2013 12:00	MAM	
Component Details		David He, Vanderwester	n Rutherford Man	tecon, 2013	
			nal refrigeration to iller is designed for	on capacity and was i or refrigerant R11 or F	nTraVac liquid chiller, nstalled in 1991 to replace R123, and presently runs
		The unit condition is con	sistent with age a	and good.	

The chilled water pump is in poor condition and the condenser water pump is in fair condition.Both pumps are original pumps to be replaced.



Centrifigal chiller installed in 1990.



Reserve tank - R-11.

## 03.1-100 Chillers - Mechanical Room Event #: 1

Brief Description	F	Replace [03.1-100 Chiller pump an	d Condenser pump - N	lechanical Room]
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2014	\$10,000	Medium	2013, Vanderweston
				Rutherford Mantecon
Event Details		The chilled water pump is in poor c condition. Both pumps are original		· ·
		Qty: 2 unit Unit Costs: \$5,000/unit		
	ſ	Total: \$10,000		
03.1-100 Chillers - Me	chanical Room	n Event #: 2		
Brief Description	F	Replace - 03.1-100 Chillers - Mech	anical Room	
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2020	\$147,559	Medium	2013, Vanderweston Rutherford Mantecon
Event Details	F	Replacement based on age not ant	icipated in the short te	rm.
		Unit Cost based - Water chiller, cer 400 ton, includes standard controls	•	•
		Qty: 1 unit, Unit Costs: \$147,559/unit		
	٦	Total: \$147,559		
03.1-110 Coo	ling Towers fo	or AC Only (not Ice making)		
Element Instance: 0	3.1-110 Cooling	g Towers		
Details	-	Values		

Inspection Date

Values May 23 2013 12:00AM

#### **Component Details**

David He, Vanderwesten Rutherford Mantecon, 2013

The cooling tower is a Marley model double flow aquatower cross flow cooling tower (base evaporator tons: approximately 320) installed in1958. The cooling tower structure is wood.

The tower has passed its service life, it is in poor condition. And it is reported that it is kept only in working condition by the retrofit of the gear box of the fan ,and the reinforcement of the supports and replacement of the eliminators. The wet deck surface and heat transfer system still show the sign of aging. It takes a special effort for the maintenance personnel to keep the tower in operation.



### 03.1-110 Cooling Towers Event #: 1

Brief Description		Replace [03.1-110 Cooling Tower	s]		
Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2014	\$45,000	High	2013, Vanderweston Rutherford Mantecon	
Event Details		Cooling tower are designed to provide a service life of 30 years. Unit was installed during commissioning and hence based on age and condition will require replacement in the short term. Qty: 1 unit, Unit Costs: \$45,000/unit Total: \$45,000			
03.1-140 Air	Handling Uni	its			

# Element Instance: 03.1-140 Air Handling Units - Mechanical Penthouse

Details	Values
Inspection Date	May 23 2013 12:00AM
Component Details	David He, Vanderwesten Rutherford Mantecon, 2013
	One central hot deck-cold deck air Handling unit (SF-1) serves the building. The unit comprises the heating and cooling coils, the hot deck and the cold deck supply air fans (40 HP and 30 HP) and the return air fan (10 HP). The fans were manufactured by Silentvane Co. and their inlet vanes are controlled by duct mounted pressure sensors. There are two 'heating only' floor unit heaters (TRANE, Torridor model, each equipped with 2 1/2 HP supply air fan motor). The units which heat the garage by recirculating indoor air are currently abandoned.
	The unit and its components have passed their nominal service life, and are kept in good working order with continuous part replacements (i.e. bearings).
	It is recommended that at the time of the system replacement the air distribution system be revised.

Return fan in the mechanical penthouse.



Deteriorated flex hose on the air handling unit.



Bag filters that replaced the abandoned preciptron.

### 03.1-140 Air Handling Units - Mechanical Penthouse Event #: 1

Brief Description Replace - 03.1-140 Air Handling Units - Mechanical Penthouse				
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2014	\$80,000	High	2013, Vanderweston Rutherford Mantecon
Event Details	which is q			nent or overhaul of the system, quired to replace the system.

Total: \$80,000

#### 03.1-180 Ventilation Fans

#### Element Instance: 03.1-170 Diffusers/ Grilles

**Details** Inspection Date

**Component Details** 

May 24 2013 12:00AM

David He, Vanderwesten Rutherford Mantecon, 2013

Values

there are about 216 diffusers in the building. Most diffusers are in fair condition. About 10% of all diffusers are in poor conditions.





## 03.1-170 Diffusers/ Grilles Event #: 1

Brief Description		Replace [03.1-1	70 Diffusers]		
<i>Event Type</i> Replace	<b>Event Year</b> 2014		<b>Event Cost</b> \$26,800	<b>Priority</b> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon
Event Details		About 10% of al	I diffusers are in poo	or condition.	
		Diffusers			
		Qty: 22			
		Unit Costs: \$400	)		
		Return/Exhaust	Grilles		
		Qty:120			
		Unit Price: \$150			
		Total: \$26,800			
03.1-170 Diffusers/ G	rilles Event #:	2			
Brief Description		Replace [03.1-1	70 Diffusers]		
Event Type	Event Year		Event Cost	Priority	Data Origin
Replace	2018		\$77,600	Medium	2013, Vanderweston Rutherford Mantecon
Event Details		About 90% of al	l diffusers are in fair	condition.	
		Diffusers			
		Qty:194			
		Unit Costs: \$400	)		
		Total: \$77,600			
Element Instance: 0	3.1-180 Ventila	ation Fans - Mec	hanical Penthouse	ł	
Details			Values		
Inspection Date			May 23 2013	12:00AM	
Component Details		David He, Vand	erwesten Rutherfore	d Mantecon, 2013	
		There are two major exhaust systems. They are original c. 1958 installations and they serve each group of washrooms (EF-1, 3 HP) and the garage (EF-2, 3 HP).			
		The two major e penthouse.	xhaust system deso	cribed above are locat	ed in the mechanical
	1				



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Exhaust Fan 2 is the garage exhaust fan. The exhaust fan is located in the mechanical penthouse.

Exhaust Fan 1 is the washroom exhaust fan. The exhaust fan is located in the mechanical penthouse.

## 03.1-180 Ventilation Fans - Mechanical Penthouse Event #: 1

Brief Description		Major Repair [03.1-180 Ventilation F incl. Ductwork	ans] - New systems fo	or electrical and janitor rooms
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2014	\$16,000	Medium	2013, Vanderweston Rutherford Mantecon
Event Details	E F a	No major refurbishment of units has Based on age the units are in poor of Replacement of the units based on and poor indoor air quality.	condition.	

Qty: 2 Units Costs: \$ 8,000/unit

Total: \$16,000



03.3 Plumbing

03.3-010 Plumbing Fixtures Element Instance: 03.3-010 Plumbing Fixtures

Details

Inspection Date

**Component Details** 

## Values

May 24 2013 12:00AM

David He, Vanderwesten Rutherford Mantecon, 2013

The standard plumbing fixtures consisting of hot and cold water fixtures (flush type WCs and urinals, lavatories and mop sinks) are mostly in fair to good condition. The mop sinks are in poor conditions. The vandal-proof stainless steel fixtures in the detention areas are in fair condition but the whole detention area are abandoned.



Typical toilet bowl with flush tank.

separate hot and cold water.

Typical ceramic sinks in the washrooms. The faucets dispense



Typical toilet bowl with tank.

# 03.3-010 Plumbing Fixtures Event #: 1

Brief Description	on Replace [03.3-010 Plumbing Fixtures - Mop sinks]					
Event Type	Event Year	Event Cost	Priority	Data Origin		
Replace	2014	\$3,600	Medium	2013, Vanderweston Rutherford Mantecon		
Event Details	The mor	o sinks are in poor conditior	ns and should be repla	ced.		
	Qty: 6					

Units Costs: \$ 600/unit

Total: \$3,600



03.3-010 Plumbing Fixtures Event #: 2

Brief Description	Replace [03.3-0			
Event Type	Event Year	Event Cost	Priority	Data Origin

				Report PW13079c			
Replace	2028	\$58,770	Medium	2013, Vanderweston Rutherford Mantecon			
Event Details		Replacement of the plumbing fixtu	Replacement of the plumbing fixtures is required based on age and condition.				
		Approximate replacement cost: \$	140,000				
		Qty : Approximately 58 Water Clo Unit Price: \$840	sets				
		Qty : Approximately 12 Urinals Unit Price: \$840					
		Qty : Approximately 56 Lavatory Unit Price: \$700					
		Qty : Approximately 1 Showers Unit Price: \$420					
		Qty: Approximately 6 Stainless Ste Unit Price: \$980	eel Sink				
		Qty: Approximately 4 Drinking Fou Unit Price: \$2100	Intains				
		Total: \$58,770					

## 03.3-030 Domestic Water Heaters

## Element Instance: 03.3-030 Domestic Water Heaters

<b>Details</b> Inspection Date	<b>Values</b> May 24 2013 12:00AM
Component Details	David He, Vanderwesten Rutherford Mantecon, 2013
	The gas fired commercial domestic hot water heater is manufactured by Rheem-Ruud. The unit is a model G76-200-1, and has an actual capacity of 74 US gallons and input capacity of 199.9 MBH. The unit was installed in 2008 and is in good condition



Domestic hot water heater installed in 1991.

## 03.3-030 Domestic Water Heaters Event #: 1

Brief Description	Replace	e [03.3-030 Domestic Water	Heaters]		
Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2026	\$8,400	Medium	2013, Vanderweston Rutherford Mantecon	
Event Details	The water heater life cycle is 18 years. It should be replaced in 2026.				
	Qty: 1 u	nit,			
	Unit Cos	sts: \$8,400/unit			
	Total: \$8	3,400			
This report was generated	without using Virtual Events.				
City of Hamilton				Printed On: 2014/10/7	

Appendix B

## 03.5 Fire Protection

## 03.5-080 Fire Alarm Panel & Monitoring System

Element Instance: 03.5-080 Fire Alarm System

#### Details Inspection Date

# **Component Details**

May 28 2013 12:00AM

Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.

Values

The main fire alarm control panel is located within main electrical room, the remote annunicators are located throughout building, the pull-stations are located at all exit doors and at fire rated areas, the smoke detectors at top of stairwells, the heat detectors are located throughout building, bells are located throughout building.

Main fire alarm control panel



Fire alarm manufactured by MirCom. Unit installed in 2004.



Fire alarm bells located throughout building

## 03.5-080 Fire Alarm System Event #: 1

Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2028	\$58,230	High	2013, Vanderweston Rutherford Mantecon	
Event Details	Fire Alarm system was observed to be fair condition and replacement of system is recommended prior to un-available devices.				
	Entire Fi	re Alarm System			
	Quantity	Quantity: 1			
	Unit Pric	e: \$53,230			
	Total: \$5	53.230			

## 04.1 Primary Electrical

04.1-010 Primary Switchgear

## Element Instance: 04.1-010 Primary Switchgear

**Details** Inspection Date

**Component Details** 

Values May 28 2013 12:00AM

Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.

The incoming service to the site is 4160volt.

The substation consists of two interrupter switches.



#### 04.1-010 Primary Switchgear Event #: 1

Brief Description Event Type	Event Year	• •	10 Primary Switchgear]	Priority	Data Origin
Replace	2015		\$210,000	High	2013, Vanderweston Rutherford Mantecon
Event Details		1 2	chgear is in fair conditior ticipated at the conclusio	-	nt of the primary
		Quantity: 1 Unit Price: \$210,	,000		
		Total: \$210,000			
04.1-020 Prim	ary Transfo	rmer			
Element Instance: 04	1.1-020 Primar	ry Transformer			
Details			Values		
Inspection Date			May 28 2013 12:0	0AM	
Component Details		Patti DeLange, \	/anderwesten Rutherford	Mantecon, 2013.	
			substation contains of 2 incoming voltage.	at 750KVA 4610V - 6	00V dry type transformer
		The primary tran	sformers are in fair cond	ition.	
		50kva transforme			



04.1-020 Primary Transformer Event #: 1

Brief Description	Replace			
Event Type	Event Year	Event Cost	Priority	Data Origin
Replace	2015	\$60,000	High	2013, Vanderweston Rutherford Mantecon
Event Details	The prin	nary transformers was obse	rved to be in fair cond	lition. Replacement is

The primary transformers was observed to be in fair condition. Replacement is anticipated at the conclusion of its EUL.

Quantity: 2 Unit Price: \$30,000.00

Total: \$60,000

## 04.2 Secondary Electrical

# 04.2-010 Secondary Switchgear

## Element Instance: 04.2-010 Secondary Switchgear

Details
Inspection Date

**Component Details** 

Values May 28 2013 12:00AM

Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.

The main distribution board is located in the substation in the main electrical room.

The main distribution board is a two section 347/600 V board.

The main disconnect switch is 2500A 600 V.

The secondary switchgear units were observed to be in fair condition.



## 04.2-010 Secondary Switchgear Event #: 1

Brief Description		Replace [04.2-010 Secondary Switchgear]				
<i>Event Type</i> Replace	Event Year 2018	r	<b>Event Cost</b> \$374,500	<i>Priority</i> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		Replacement of the secondary switchgear units is recommended at the conclusion of their EUL.				
		Main 600volt Pa Quantity: 2 Unit Price: \$320				
		Total: \$64,000				
		Step Down Tran Total of approx. Unit Price: \$700	2 (between 30kva to 75k	<va)< td=""><td></td></va)<>		

Total: \$14,000

Distribution Panels: Quantity: 2 Unit Price: \$8030

Total: \$16,060

Electrical branch panels (30cct to 42cct): Quantity: 28 Unit Price: \$7000

Total: \$196,000

Electrical branch panels (8cct to 30cct): Quantity: 7 Unit Price: \$7500.00

Total: \$52,500

Splitter trough: Quantity: 1 Unit Price: \$583

Total: \$583

Various Disconnect switches (400amp to 30amp) & time clocks: Unit Price: \$31,350

Total: \$31,350

# 04.3 Lighting Fixtures

04.3-010 Interior Lighting

<b>Details</b> Inspection Date	Values May 28 2013 12:00AM
Inspection Date	May 20 2010 12:00AM
Component Details	Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.
	The interior lighting within the building is the following:
	Recessed 1x1, acrylic lens, fluorescent, 2lamp; located within jail cells, offices, kitchen, corridors;
	Surface/suspended 4'-0" industrial 2lamp fluorescent fixture located within boiler, electrical, garage and storage rooms;
	Recessed 1x4 2lamp parabolic fluorescent fixtures located within offices and computer room;
	Recessed 2x4 4lamp acrylic lens fluorescent fixtures located within offices, kitchenette, meeting rooms, lunch room;
	Surface/suspended glass globe small highbay type incandescent/compact fluorescent spiral fixtures located within boiler room, storage, electrical room, garage, penthouse; Surface 8'-0" 1lamp strip fluorescent fixture located within electrical rooms; Recessed 1x4 2lamp acrylic lens fluorescent fixture located within dining room, kitchen,

#### offices;

Surface keyless lampholder with compact fluorescent spiral lamps located within sprinkler room, shafts and janitor rooms;

Surface 1x4 2lamp acrylic lens fluorescent fixture located within telephone room, jail cell area, washrooms, lunch rooms, offices, stairwells, storage, corridors, classrooms; Surface 1x4 2lamp fibre body fluorescent fixture located within jail cells, corridors; Recessed 1x4 2lamp blade/parabolic type fluorescent fixture located within lunch room,

offices, storage, corridors, kitchen area, washrooms;

Recessed 2x4 4lamp parabolic fluorescent fixture located within computer room; Surface type round metal fixtures complete with 7 shades complete with compact fluorescent spiral lamps located within entrance of building;

Surface mounted track lighting incandescent/compact fluorescent spiral lamps complete with smooth round heads located within dining room;

Round shower light surface mounted located within showers;

Surface 2x4 4lamp acrylic lens fluorescent fixtures located within offices and kitchen areas;

Pot lights complete with incandescent and compact fluorescent spiral lamps located within office and entrances;

Arrangement of fluorescent squares consist of 8'-0" 2lamp strip fixtures and 4'-0" 2lamp strip fixtures located within offices and meeting rooms;

Surface 2x4 2lamp acrylic lens fluorescent fixtures located within offices, classrooms and lunch rooms;

Wall mounted 4'-0" 2lamp opal lens fluorescent fixtures located within washrooms; Surface/suspended 4'-0" 2lamp strip fluorescent fixtures located within offices, washrooms:

Suspended 8'-0" fluorescent fixture complete small blades located within Court room office;

Pole mounted fixtures complete with egg shape lens, brass finish, black pole finish located within corridor/entrance;

Recessed 2x4 4lamp blade/parabolic type fluorescent fixture located within board rooms; Incandescent wall mounted fixtures glass lens located within washrooms and stairwell at landings;

Surface 4'-0" 11amp yellow acrylic lens, white base in square shape located within offices.



Original light fixtures with T8 lamps.



Original light fixtures with T8 lamps

This report was generated without using Virtual Events. City of Hamilton McMaster University Town Ctr (old courthouse)

## 04.3-010 Interior Lighting Event #: 1

Brief Description		Replace [04.3-010 Interior Lighting]			
<i>Event Type</i> Replace	Event Year 2015	<b>Event Cost</b> \$610,660	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		Fixtures are in poor condition, the fixtures have reached the end of their expected useful life.			
		Replacement of the fixtures is recommended within 2-3 years to improve efficiency and prevent deterioration of fixtures.			
		Recessed 1x1, acrylic lens, fluorescent, 2lamp; Quantity: 73 Unit Price: \$275.00			
		Total: \$20,075			
		Surface/suspended 4'-0" industrial Quantity: 144 Unit Price: \$225	2lamp fluorescent fixtur	e	
		Total: \$32,400			

Square recessed fixtures with 8 foot and 4 foot fixtures located within

meeting rooms and offices.

Recessed 1x4 2lamp parabolic fluorescent fixtures Quantity: 4 Unit Price: \$261

Total: \$1046

Recessed 2x4 4lamp acrylic lens fluorescent fixtures Quantity: 41 Unit Price: \$314.60

Total: \$12,900

Surface/suspended glass globe small highbay type incandescent/compact fluorescent spiral fixtures Quantity: 14 Unit Price: \$212.00

Total: \$2968

Surface 8'-0" 11amp strip fluorescent fixture Quantity: 2 Unit Price: \$220

Total: \$440

Recessed 1x4 2lamp acrylic lens fluorescent fixture Quantity: 13 Unit Price: \$244

Total: \$3172

Surface keyless lampholder with compact fluorescent spiral lamps Quantity: 12 Unit Price: \$60.50

Total: \$726

Surface 1x4 2lamp acrylic lens fluorescent fixture Quantity: 430 Unit Price: \$204.60

Total: \$88,000

Surface 1x4 2lamp fibre body fluorescent fixture Quantity: 5 Unit Price: \$281.60

Total: \$1408

Recessed 1x4 2lamp blade/parabolic type fluorescent fixture Quantity: 673

Unit Price: \$410.00

Total: \$275,930

Recessed 2x4 4lamp parabolic fluorescent fixture Quantity: 20 Unit Price: \$324.50

Total: \$6500

Surface type round metal fixtures complete with 7 shades complete with compact fluorescent spiral lamps Quantity: 7 rings/7 shades per ring Unit Price: \$2000.00

Total: \$14,000

Surface mounted track lighting incandescent/compact fluorescent spiral lamps complete with smooth round heads Quantity: 6 @ 4'-0" c/w 12 heads in total

Total: \$1960

Round shower light surface mounted Quantity: 4 Unit Price: \$315.70

Total: \$1260

Surface 2x4 4lamp acrylic lens fluorescent fixtures Quantity: 117 Unit Price: \$314.60

Total: \$36,800

Pot lights complete with incandescent and compact fluorescent spiral lamps Quantity: 44 Unit Price: \$293.70

Total: \$12,900

Arrangement of fluorescent squares consist of 8'-0" 2lamp strip fixtures and 4'-0" 2lamp strip fixtures Quantity: 8'-0" = 46, 4'-0" = 88

Total: \$24,900

Surface 2x4 2lamp acrylic lens fluorescent fixtures Quantity: 1776 Unit Price: \$344.30

Total: \$61,150

Wall mounted 4'-0" 2lamp opal lens fluorescent fixtures Quantity: 12 Unit Price: \$347.60

Total: \$4175

Surface/suspended 4'-0" 2lamp strip fluorescent fixtures Quantity: 43 Unit Price: \$172.70

Total: \$7,425

Suspended 8'-0" fluorescent fixture complete small blades Quantity: 1 Unit Price: \$110

Total: \$110

Pole mounted fixtures complete with egg shape lens, brass finish, black pole finish Quantity: 4 Unit Price: \$1000

Total: \$4000

Recessed 2x4 4lamp blade/parabolic type fluorescent fixture Quantity: 4 Unit Price: \$600

Total: \$2400

Incandescent wall mounted fixtures glass lens Quantity: 18 Unit Price: \$425

Total: \$7650

Surface 4'-0" 11amp yellow acrylic lens, white base in square shape Quantity: 20 Unit Price: \$110

Total: \$2200

#### 04.3-020 Exterior Lighting

#### Element Instance: 04.3-020 Exterior Lighting

**Details** Inspection Date Values

**Component Details** 

May 28 2013 12:00AM

Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.

Exterior lighting includes wall-mounted fixtures around the building perimeter.

There are pole mounted light fixtures located at front entrance.

Pot lights at each end of building at roof level.

Flood lights mounted on ground behind wireguards.

In-ground lighting within planters at front of building.



Typical lamp posts.

04.3-020 Exterior Lighting Event #: 1

Brief Description		Replace [04.3-020 Exterior Lighting] - Exterior lighting				
<i>Event Type</i> Replace	Event Year 2017		<i>Event Cost</i> \$55,900	<b>Priority</b> Medium	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		The flood lights mounted on ground and on pole at front are in good condition.				
		The wall/pole m good condition.	wall/pole mounted fixtures located on side of building was observed as being in d condition.			
		Based on age and condition, upgrade of the exterior lighting is recommended in 3 years to ensure adequate illumination and security of the site. Pole mounted fixtures c/w pole: Quantity: 6 poles c/w 1 head each Unit Price: \$ 2000.00			recommended in 3-5	
		Total: \$12,000				
		Wall mounted an Quantity: 10 Unit Price: \$500	round entire building:			
		Total: \$5000				
		Pot lights at eac Quantity: 72 Unit Price: \$425	h end of building:			
		Total: \$30,600				

Flood lights mounted on ground: Quantity: 4 Unit Price: \$500

Total: \$2000

In ground at planters: Quantity: 10 Unit Price: \$725

Total: \$7250

# 04.3-030 Exit Lighting

Element Instance: 04.3-030 Exit Lighting

**Details** Inspection Date

**Component Details** 

May 28 2013 12:00AM

Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.

Values

Exit lighting are located at various points throughout the building.

The fixtures are generally connected to local battery packs for emergency power supply.

Exit signs generally appear to be in poor condition.

The exit lights are essentially the original fixtures installed during commissioning of the building.

The original exit lights are incandescent lights.

Typical incandescent exit sign.



Typical incandescent exit light with battery unit.

04.3-030 Exit Lighting Event #: 1

Brief Description	Replace	[04.3-030 Exit Lighting]			
Event Type	Event Year	Event Cost	Priority	Data Origin	
Replace	2015	\$13,800	High	2013, Vanderweston	
				Rutherford Mantecon	
Event Details	Replace	Replacement of the old incandescent lights with energy saving LED options is required. In general, our assessment concurs with the previous recommendations.			
	In genera	al, our assessment concurs	with the previous rec	ommendations.	
	In genera Quantity		with the previous rec	ommendations.	
	0	22	with the previous rec	ommendations.	

Total: \$13,800

## 04.3-040 Emergency Lighting

## Element Instance: 04.3-040 Emergency Lighting

Details

Inspection Date

#### Values

May 28 2013 12:00AM

**Component Details** 

Patti DeLange, Vanderwesten Rutherford Mantecon, 2013.

Emergency power for lighting and exit signs is provided from a bank of not enclosed lead acid batteries, located in the basement electrical room.

Emergency power is directed through a rectifier. The rectifier is rated 120 V.

The emergency lighting system is supplemented with stand alone emergency battery units feeding concealed and surface mounted emergency lighting heads.



This report was generated without using Virtual Events. City of Hamilton McMaster University Town Ctr (old courthouse)

04.3-040 Emergency I	Lighting Ever	nt #: 1				
Brief Description Replace [04.3-040 Emergency Lighting] - Battery bank						
<i>Event Type</i> Replace	<b>Event Year</b> 2015		<i>Event Cost</i> \$14,300	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		Based on condition, replacement is recommended in 2-3 years to ensure adequate lighting in the event of power failure.				
		Ceiling and wall Quantity:49 Unit Price: \$292 Total: \$14,300				
	A replacement of the emergency lighting system is required. Failure during power outage could likely result in a security risk. The replacement to include installation of new inverter, batteries and end field devices.					
04.3-050 Con	nbined Eme	rgency & Exit I	Lighting			
Element Instance: 04	4.3-050 Comb	ined Emergency	y & Exit Lighting			
Details			Values			
Inspection Date		May 28 2013 12:00AM				
Component Details		Patti DeLange,	Vanderwesten Rut	herford Mantecon, 2013	).	
		Combination Exit Emergency lighting is generally provided by LED exit signs with incandescent heads located at various points throughout the building.				
		Combination Units appeared to be in good condition overall.				
04.3-050 Combined E	Emergency &	Exit Lighting Ev	vent #: 1			
Brief Description	cription Replace [04.3-050 Combined Emergency & Exit Lighting]					
<i>Event Type</i> Replace	Event Year 2020		<i>Event Cost</i> \$52,400	<b>Priority</b> High	<i>Data Origin</i> 2013, Vanderweston Rutherford Mantecon	
Event Details		Based on condition, replacement is recommended in 7-9 years to ensure adequate lighting in the event of power failure.				
		Quantity:42 Unit Price: \$124	7.87			
		Total: \$52,400				