

Facility Condition Assessment Summary Report

This report provides a summary of the Facility Condition Index (FCI) value of a school facility and select major building systems. The FCI calculation represents the cost of needed repairs divided by the replacement value. The FCI is a numerical value of condition and helps to identify the need for renewal or replacement of specific parts of the facility. The FCI is particularly useful when comparing similar facilities within the same portfolio.

Jenks, Abram School

Governance	DISTRICT	Report Type	Elementary
Address	2501 S. 13Th St. Philadelphia, Pa 19148	Enrollment	309
Phone/Fax	215-952-6224 / 215-952-6407	Grade Range	'00-05'
Website	Www.Philasd.Org/Schools/Asjenks	Admissions Category	Neighborhood
		Turnaround Model	N/A

Building/System FCI Tiers

Facility Condition Index (FCI) = $\frac{\text{Cost of Assessed Deficiencies}}{\text{Replacement Value}}$				
< 15%	15 to 25%	25 to 45%	45 to 60%	> 60%
Buildings				
Minimal Current Capital Funding Required	Refurbish Systems in building	Replace Systems in building.	Building should be considered for major renovation.	Building should be considered for closing/replacement.
Systems				
Perform routine maintenance on system	System requires minor repairs	System should be studied to determine repair vs. replacement.	System is nearing end of its life expectancy and should be considered for replacement	System should be replaced as part of the Capital Program

Building and Grounds

	FCI	Repair Costs	Replacement Cost
Overall	31.58%	\$5,141,754	\$16,283,315
Building	31.32 %	\$4,920,009	\$15,709,437
Grounds	38.64 %	\$221,745	\$573,878

Major Building Systems

Building System	System FCI	Repair Costs	Replacement Cost
Roof (Shows physical condition of roof)	89.40 %	\$455,205	\$509,195
Exterior Walls (Shows condition of the structural condition of the exterior facade)	00.78 %	\$9,078	\$1,161,742
Windows (Shows functionality of exterior windows)	67.65 %	\$383,507	\$566,865
Exterior Doors (Shows condition of exterior doors)	15.31 %	\$6,987	\$45,639
Interior Doors (Classroom doors)	15.11 %	\$16,697	\$110,477
Interior Walls (Paint and Finishes)	10.65 %	\$53,116	\$498,564
Plumbing Fixtures	11.06 %	\$47,079	\$425,542
Boilers	00.00 %	\$0	\$587,638
Chillers/Cooling Towers	50.02 %	\$385,425	\$770,508
Radiators/Unit Ventilators/HVAC	31.12 %	\$421,134	\$1,353,110
Heating/Cooling Controls	158.90 %	\$675,207	\$424,913
Electrical Service and Distribution	78.42 %	\$239,423	\$305,308
Lighting	20.78 %	\$226,865	\$1,091,553
Communications and Security (Cameras, Pa System and Fire Alarm)	51.57 %	\$210,858	\$408,860

Please note that some FCIs may be over 100% because there are times when replacing a building system requires that other building systems be upgraded to complete the installation. A FCI of 0.0% represents that there are no current deficiencies with the associated system.

School District of Philadelphia
S252001;Jenks, Abram
Final
Site Assessment Report
January 30, 2017



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Site Executive Summary

The organization of this report, as displayed in the Table of Contents, follows the structure of the associated eCOMET database. The overall node for each school campus begins with the letter "S", which indicates the "Site" label. Each Site is comprised of separate "Building" and "Grounds" nodes; their asset names begin with the letters "B" and "G" respectively. Information rolls up to the Site node from the Building and Grounds nodes. This Site report combines facility information with subsections for the Buildings And Grounds nodes.

The basis for the evaluation of condition is the functional systems and elements of a building and grounds organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are typically developed for similar building types and functions. Evaluation of systems and their elements takes into account their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) is an industry-standard measurement calculated as the ratio of the repair costs to correct a facility's deficiencies to the facility's Current Replacement Value. Condition Index (CI) for a system is calculated as the sum of the deficiencies divided by the sum of a system's Replacement Value (both values include soft-cost) expressed as a percentage ranging from 0% 100%.

Gross Area (SF):	80,000
Year Built:	1897
Last Renovation:	
Replacement Value:	\$16,283,315
Repair Cost:	\$5,141,754.10
Total FCI:	31.58 %
Total RSLI:	68.76 %



Description:

Facility Assessment

August 25th, 2015

School District of Philadelphia

Abram S Jenks Elementary School

2501 S. 13th Street

Philadelphia, PA 19148

31,475 SF / 318 Students / LN 01

GENERAL

Site Assessment Report - S252001;Jenks, Abram

Mr. Dave Loftus FAC, provided input to the assessment team on current problems. Mr. Andrew Laquintano Building Engineer accompanied us on our tour of the school and provided us with detailed information on the building systems and maintenance history. Mr. Laquintano has been in the school for more than 6 years.

The 3 story, 31,475 square foot building was originally constructed in 1897. The building has a multi-level basement. The school was originally 3 stories, and the top story was removed after a fire in 1955. Most of the mechanical systems were completely replaced during the renovation and date to that time.

ARCHITECTURAL/STRUCTURAL SYSTEMS

The building rests on concrete and stone foundations and bearing walls that are showing some signs of settlement or damage and appears to be structurally sound. The main structure consists typically of cast-in-place concrete columns, beams, and concrete one way ribbed slab. The roof structure consists of concrete one-way slab supported by main structural frame. Roofing is built up application in very poor condition with multiple patched areas, uneven surface and ponding and in need of replacement. The building envelope is typically masonry with granite block face and face brick on the rear elevation. In general, masonry is in fair condition with re-pointing and sealing needed around window lintels and sills. The windows were replaced in early 1990s with extruded aluminum, double hung windows, Lexan Plexiglas with insect/security screens. All windows are generally in fair condition with slight hazing. Exterior doors are typically hollow metal in fair condition. Public access doors have granite stoops with granite stairs; service doors have concrete stoops and stairs. The building is not accessible per ADA requirements due to first floor- grade separation with no ramps or lifts.

Partition wall types include plastered ceramic hollow blocks with some CMU added at a later date. Interior doors are generally metal frame with solid core and wood doors with lites and transoms in fair condition. Doors leading to exit stairways are hollow metal doors and frames in fair condition. Interior doors do not have lever type handles. Fittings include: toilet accessories in good condition; marble toilet partitions with composite plastic doors, generally in fair to poor condition; handrails and ornamental metals, generally in fair condition. Toilet partitions and accessories are not ADA accessible. Interior identifying signage is typically missing or handmade in poor condition. Stair construction is generally steel and concrete with cast iron nosing in good condition. Stair railings are cast iron balusters with wood handrail in fair condition and missing handrail for code compliance.

The interior wall finishes are painted plaster throughout with tile wainscot in the kindergarten toilet in good condition. Generally, paint is in good condition with some deterioration in basement areas and various water damaged areas. Flooring includes: patterned or bare concrete in corridors, stairways, gym, toilets, part of auditorium, and basement service areas in good condition; vinyl flooring in classrooms, part of auditorium, stage, cafeteria, kitchen, and offices in good to fair condition with some damaged areas in need of replacement; and ceramic tile in kindergarten toilet in good condition. Ceiling finishes are painted plaster or structural concrete throughout in fair condition with some areas in need of repair and re-painting. Installation of suspended acoustic ceiling in corridors would improve appearance and hide current and updated utilities. Gym is in need of sound absorbing acoustic panels on ceiling.

The building has no elevators.

Institutional and Commercial equipment includes: stage equipment, generally in poor condition with torn curtains. Other equipment includes kitchen equipment (heat and serve only), generally in good condition.

Fixed furnishings include: fixed casework in classrooms, corridors and library, generally in fair to good condition; window shades/blinds in fair condition; and fixed auditorium seating in fair condition with some damaged or missing seats.

MECHANICAL SYSTEMS

Plumbing fixtures throughout the building date from the 1950s forward. Floor mounted water closets and wall hung urinals have exposed flush valves. Toilet room lavatories have mixing faucets. The school cafeteria has a single lavatory. Service sinks are installed in janitor closets on each floor. The plumbing fixtures are in good condition throughout the building and will not need replacement within 10 years. Vitreous china drinking fountains are located in hallways throughout the building. They are in good condition but non-accessible without coolers, and they should be replaced.

Domestic water distribution plumbing is copper with soldered connections. Visible areas of pipe overall are in fair condition with no reported problems and can be expected to last at least 5 more years. Water enters the building in the basement through a 3 inch line. There is no backflow prevention on the city connection, and one should be installed to comply with building codes. There is a double backflow preventer on the connection to boiler system. Domestic water is heated by a 40 gallon, vertical tank, gas burning, Bradford White water heater installed in 2010. The water heater is in good condition and can be expected to last at least 5 more years. In the basement there are two water pressure

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booster pumps, an air pump, and a non-bladder pressurized storage tank. This booster system is obsolete and appears to be abandoned in place.

Sanitary waste pipes are threaded galvanized steel dating from 1955. Rain water drain pipes run in pipe chases inside the building. There is a groundwater sump below the boiler room floor with a single pump. Drain pipe systems are visibly in fair condition, however due to age and material they both should be inspected more thoroughly and repaired as needed. The building engineer stated that city sewer repairs eliminated boiler room flooding that happened in the past.

The building was designed for primary heating and ventilation via forced air from a basement air handler and secondary heating by steam radiators along windows.

Heat generation is provided by 2 H.B. Smith, model 350, 13 section, cast iron, 2,602 MBH (78 HP) capacity steam boilers. They were installed in basement boiler room in 1995. They are equipped with Power Flame pressure atomized oil burners manufactured in 1995. Burners are also suitable for natural gas. The entire gas train is installed for both boilers including a booster, but it is not connected to the utility. Gas service for boiler pilots and domestic water heating enters the building through a 1 inch line on the east side of the basement. There are two oil pumps with a 6,000 gallon oil tank located south of the building. Combustion makeup air enters the boiler room from outside through automatically controlled dampers. The boiler exhausts have constant draft dampers. There is a single tank for condensate collection and feedwater supply. There are three feed water pumps with separate feed lines for each boiler. The domestic water connection to the boiler system has a double backflow prevention valve. Overall, the boiler system is in good condition and should last 15 more years.

The building has no central cooling generating equipment. There are 5 window units and 1 mini-split with a total capacity of approximately 12 tons. A cooling system should be installed to air condition the entire building with a capacity of approximately 80 tons.

The building has 1 air handler in the basement installed in circa 1955. The air handler has approximately 36,000 CFM capacity and includes finned tube steam heating coils and a 7.5 HP fan. It is obsolete and should be replaced with a new unit including cooling coils. The AHU feeds sheet metal ductwork in the basement that leads to built-in vertical ducts leading to the classrooms. Classrooms have diffuser vanes on the duct outlets. Room exhaust air discharges up to the attic plenum and out the roof through gravity vents. The gravity vents are damaged and leak water during storms, so they should be replaced.

Fan coil unit heaters are located in the gym and boiler room. Unit vents are installed in the auditorium addition. Radiators throughout the school were replaced with finned tube units at the time of the remodel. They have pneumatic steam control valves and thermostatic traps. Units are in fair condition and will not need replacement for at least 15 years. Steam traps however pass lots of steam according to the engineer and there is no history of trap maintenance. Steam traps should be surveyed and repaired.

The building has pneumatic controls for radiators and steam coils. Some of the pneumatic thermostats could be heard operating during the inspection. There is an air compressor from 1988 in the basement mechanical room. The compressor had a new motor installed in 2015. The entire system is obsolete and should be upgraded to modern digital controls.

The building does not have standpipes or sprinklers. A sprinkler system should be added to improve occupant safety including a fire pump if needed.

ELECTRICAL SYSTEMS

A service drop from a 100KVA (estimated) pole mounted transformer on W Porter Street serves this school. The basement electrical room houses the utility main disconnect switch, utility metering No 213MU 46887 and 400A, 120/240V distribution section. The existing service is approximately 20 years old and has no extra capacity for expansion or new Heating, Ventilation, Air Conditioning (HVAC) system. The electrical service entrance needs to be upgraded to an estimated 1200A, 120/208V. The new electrical service would feed HVAC (Heating, Ventilation and Air Conditioning) equipment, receptacles, lighting and other smaller loads.

There are 120/240V panel-boards in each floor for lighting and receptacles. These panel-boards are 20 years old and are expected to provide 20 more years of useful service life. There are (1) 22.5KVA and 75KVA phase converters from 240V to 120/208V which normally feed newest mechanical equipment. Panel-board's doors at corridors are not locked and represent a potential hazard for students. As a safety issue all panel-boards at corridor or in areas where students are present must be provided with lockable devices.

The number of receptacles in approximate 6 classrooms are inadequate. Teachers use extension cords. The teacher's whiteboard wall and the opposite of it need to be provided with double compartment surface raceways, the other two walls with minimum two duplex outlets each, when feasible.

Classrooms, corridors, stairways, gymnasium, equipment rooms are illuminated with surface/pendant mounted fluorescent fixtures, with T-8 lamps. Lighting level is good and adequate.

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The Fire Alarm system is manufactured by S.H. COUCH INC. The system is approximately 30 years old. The present Fire Alarm system does not meet current code and needs to be replaced. Fire alarm system is tested every day in the morning.

The present telephone system is adequate.

An independent and separate PA system connected to the telephone system, the school uses for public announcement. System is working adequately for most part.

The present clocks are old and manufactured by Simplex 2350 Master Time System. The clocks are difficult to find parts and repair. Replace clock system with wireless, battery operated clock system.

There is not television system.

The security system consists of CCTV cameras at the basement and first floor stairways. There are missing CCTV cameras at the gym and corridors. Provide additional CCTV cameras.

The emergency power system consists of a gas powered generator, manufactured by Generac 15KW, 120/240V. The present emergency power system serves the corridor, exit signs, gymnasium, stair ways, Boiler room, battery charger and fire alarm panel. The gas powered generator is approximately 30 years old and has exceeded its useful service life. Generator is tested once a week. Provide 35KW, outdoor, diesel powered generator.

There is adequate UPS in the IT room.

The emergency lighting is obtained with dedicated fixtures connected to the emergency generator. Exit signs are located at each exit door and corridors and are connected to the school emergency system.

The school building is not provided with lightning protection system. A study should be conducted to determine if the lightning protection system is required.

There are not theatrical lighting and dimming systems and they are not required.

There is a portable sound system. It is approximately 4 years old. The present sound system is adequate.

GROUNDS SYSTEMS

The site surrounds the building on all three sides which is set back from the street. Yard area on south and east sides are concrete paving in fair condition. Metal fence surrounding the site is rusted, falling, and in poor condition in need of complete replacement to include access gates. Landscaping is minimal and consists of newly planted trees along public sidewalks in good condition.

Accessibility: the building does not have accessible entrance, or accessible routes. None of the toilets are equipped with accessible fixtures, partitions and accessories, such as grab bars and accessible partitions. None of the doors in the building have ADA required door handles.

The school perimeter is illuminated with wall mounted lighting fixtures. Most of the lenses or lamps are damaged. Replace existing lighting fixtures.

CCTV cameras around the building perimeter and parking lot are provided. For total building coverage provide (3) CCTV cameras on the south side of the building.

There is not wall mounted loud speaker facing the playground area. Provide (2) loud speakers.

RECOMMENDATIONS

- Repair foundation walls – deterioration
- Re-point and seal window lintels and sills
- Replace Plexiglas windows – hazed and energy inefficient
- Provide ADA compliant exterior door hardware at one entrance
- Replace built-up roofing system – leaking, failing, and beyond service life

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- Provide ADA lever handle lock/latchsets on interior doors
 - Provide new toilet partitions and toilet accessories including grab bars for accessibility
 - Install new ID signage – missing
 - Install code compliant stair railing
 - Repair and repaint damaged wall areas (10% of plaster wall areas)
 - Replaced damaged VAC tile with VCT (10% of vinyl floor area)
 - Repair and repaint damaged ceiling areas (5% of plaster ceiling areas)
 - Install suspended acoustic ceiling system in corridors – hide utilities
 - Install acoustic panels on gym ceiling for sound absorption
 - Install elevator for accessibility (location TBD)
 - Replace auditorium curtains – damaged
 - Replace auditorium seats – damaged or missing (10%)
 - Replace metal fence and gates for site security - failing
 - Provide ADA compliant ramp at one entrance (location TBD)
-
- Replace 3 drinking fountains with accessible types.
-
- Install backflow preventer on domestic water entry for code compliance.
-
- Inspect and repair sanitary waste pipe due to age, 31,475 sq. ft.
-
- Inspect and repair rain water drain pipe, 31,475 sq. ft.
-
- Install 80 ton chiller to provide air-conditioning.
-
- Replace obsolete AHU to restore ventilation and add central cooling.
-
- Replace rooftop gravity vents due to age and damage.
-
- Survey and repair steam traps due to steam leaks.
-
- Replace obsolete pneumatic HVAC controls with DDC.
-
- Install fire protection sprinkler system, including fire pump if needed.
-
- Provide a new electrical service 1200 Amperes 120/208V, it will be located in the vicinity of the existing electrical service.

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- Provide (2)25FT of surface raceways with 24" receptacles on center and two-duplex wall mount receptacles. Approximate 96
- Replace old fire alarm system with addressable type with audio/visual devices at corridors and classrooms.
- Replace clock and bell system with wireless, battery operated, clock system. Approximate 25
- Add CCTV cameras to provide a full coverage of the building interior. Approximate 15 CCTV cameras
- Provide 35KW, outdoor, diesel powered generator.
- Prepare a study to determine if a lightning protection system is required.
- Replace exterior, wall mounted lighting fixtures. Total of 10.
- Provide (3) CCTV cameras on the south side of the building.
- Provide two PA loud speakers facing the playground area.

Attributes:

General Attributes:

Active:	Open	Bldg Lot Tm:	Lot 2 / Tm 3
Status:	Accepted by SDP	Team:	Tm 3
Site ID:	S252001		

Site Condition Summary

The Table below shows the CI and FCI for each major system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

Current Investment Requirement and Condition by Uniformat Classification

UNIFORMAT Classification	RSLI%	FCI %	Current Repair
A10 - Foundations	37.00 %	0.00 %	\$0.00
A20 - Basement Construction	37.00 %	28.36 %	\$171,809.61
B10 - Superstructure	37.00 %	0.00 %	\$0.00
B20 - Exterior Enclosure	59.11 %	22.52 %	\$399,572.01
B30 - Roofing	110.00 %	89.40 %	\$455,204.82
C10 - Interior Construction	46.79 %	9.21 %	\$71,162.46
C20 - Stairs	37.00 %	39.14 %	\$17,370.87
C30 - Interior Finishes	61.20 %	9.45 %	\$131,198.76
D10 - Conveying	105.71 %	282.40 %	\$497,751.74
D20 - Plumbing	35.09 %	58.40 %	\$375,367.77
D30 - HVAC	97.22 %	42.32 %	\$1,481,766.15
D40 - Fire Protection	92.47 %	177.49 %	\$450,264.64
D50 - Electrical	110.11 %	45.13 %	\$835,025.94
E10 - Equipment	73.84 %	0.00 %	\$0.00
E20 - Furnishings	20.00 %	49.99 %	\$33,514.23
G20 - Site Improvements	59.02 %	40.11 %	\$166,335.46
G40 - Site Electrical Utilities	50.00 %	34.81 %	\$55,409.64
Totals:	68.76 %	31.58 %	\$5,141,754.10

Condition Deficiency Priority

Facility Name	Gross Area (S.F.)	FCI %	1 - Response Time (< 2 yr)	2 - Response Time (2-3 yrs)	3 - Response Time (3-4 yrs)	4 - Response Time (4-5 yrs)	5 - Response Time (> 5 yrs)
B252001;Jenks, Abram	31,475	31.32	\$575,848.38	\$2,094,046.92	\$1,091,936.37	\$23,888.66	\$1,134,288.67
G252001;Grounds	27,400	38.64	\$25,981.81	\$140,353.65	\$24,744.19	\$30,665.45	\$0.00
Total:		31.58	\$601,830.19	\$2,234,400.57	\$1,116,680.56	\$54,554.11	\$1,134,288.67

Deficiencies By Priority



- 1 - Response Time (< 2 yr) - \$601,830.19
- 2 - Response Time (2-3 yrs) - \$2,234,400.57
- 3 - Response Time (3-4 yrs) - \$1,116,680.56
- 4 - Response Time (4-5 yrs) - \$54,554.11
- 5 - Response Time (> 5 yrs) - \$1,134,288.67

Budget Estimate Total: \$5,141,754.10

Executive Summary

Building condition is evaluated based on the functional systems and elements of a building and organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are developed for similar building types and functions. Systems and their elements are evaluated based on their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) FCI is an industry-standard measurement of facility condition calculated as the ratio of the costs to correct a facility's deficiencies to the facility's Current Replacement Value. It ranges from 0% (new) to 100% (very poor). Condition Index (CI) is calculated as the sum of a renewable system's Remaining Service Life (RSL) divided by the sum of a system's Replacement Value (both values exclude soft-cost to simplify calculation updates) expressed as a percentage ranging from 100% (new) to 0% (expired).

Function:	Elementary School
Gross Area (SF):	31,475
Year Built:	1897
Last Renovation:	
Replacement Value:	\$15,709,437
Repair Cost:	\$4,920,009.00
Total FCI:	31.32 %
Total RSLI:	69.21 %



Description:

Attributes:

General Attributes:

Active:	Open	Bldg ID:	B252001
Sewage Ejector:	No	Status:	Accepted by SDP
Site ID:	S252001		

Condition Summary

The Table below shows the CI and FCI for each major building system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

UNIFORMAT Classification	RSLI %	FCI %	Current Repair Cost
A10 - Foundations	37.00 %	0.00 %	\$0.00
A20 - Basement Construction	37.00 %	28.36 %	\$171,809.61
B10 - Superstructure	37.00 %	0.00 %	\$0.00
B20 - Exterior Enclosure	59.11 %	22.52 %	\$399,572.01
B30 - Roofing	110.00 %	89.40 %	\$455,204.82
C10 - Interior Construction	46.79 %	9.21 %	\$71,162.46
C20 - Stairs	37.00 %	39.14 %	\$17,370.87
C30 - Interior Finishes	61.20 %	9.45 %	\$131,198.76
D10 - Conveying	105.71 %	282.40 %	\$497,751.74
D20 - Plumbing	35.09 %	58.40 %	\$375,367.77
D30 - HVAC	97.22 %	42.32 %	\$1,481,766.15
D40 - Fire Protection	92.47 %	177.49 %	\$450,264.64
D50 - Electrical	110.11 %	45.13 %	\$835,025.94
E10 - Equipment	73.84 %	0.00 %	\$0.00
E20 - Furnishings	20.00 %	49.99 %	\$33,514.23
Totals:	69.21 %	31.32 %	\$4,920,009.00

Condition Detail

This section of the report contains results of the Facility Condition Assessment. The building is separated into system components based on UNIFORMAT II classification. The columns in the System Listing table below represent the following:

1. System Code: A code that identifies the system.
2. System Description: A brief description of a system present in the building.
3. Unit Price \$: The unit price of the system.
4. UoM: The unit of measure for of the system.
5. Qty: The quantity for the system
6. Life: anticipated service life for the system based on Building Owners and Managers Association (BOMA) recommendations.
7. Year Installed: The date of system installation.
8. Calc Next Renewal Year: The date of system expiration based on the life, NR stands for non renewable.
9. Next Renewal Year: The suggested system expiration date by the assessor based on visual inspection.
10. CI: The Condition Index of the system.
11. FCI: The Facility Condition Index of the system.
12. RSL: Remaining Service Life.
13. eCR: eCOMET Condition Rating (not used).
14. Deficiency \$: The financial investment to repair/replace system.

System Listing

The System Listing table below lists each of the systems organized by their UNIFORMAT II classification. The assessment team was tasked with recording the most recent replacement year of each system, determining the remaining service life based on the theoretical life, and evaluating the condition to confirm the forecast next replacement year. The system listing is the basis for all data contained in the Building Assessment Report.

Additionally, a condition rating (eCR) based on the following guidelines is provided as observed at the time of the assessment.

- Excellent (E) - No noticeable distress or damage. The entire system is free from observable defect.
- Very Good (VG) - Overall no serviceability reduction for the entire system. No degradation of critical components and minor distress and defect noticeable for some but not non critical components within the system.
- Good (G) - Slight or no serviceability reduction for the entire system. There may be noticeable defects for some non critical components and slight noticeable degradation of the critical components.
- Fair (F) - Overall serviceability is degraded but adequate. There may be moderate deterioration for very few of the critical components and few of the non critical components may have severe degradation.
- Marginal (MA) - Overall serviceability and reliability loss. Most if not all of the non critical components suffer from severe degradation and a few of the critical component may have severe degradation.
- Moderate (MO) - Overall a significant serviceability loss. Most if not all the components have severe degradation with the remainder of the component showing visible distress.
- Very Poor (VP) - Overall the system is barely functional. All of the components are severely degraded.
- Non-Functional (NF) - Overall the system does not function with all the components having no serviceability and suffer from severe degradation.

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System Code	System Description	Unit Price \$	UoM	Qty	Life	Year Installed	Calc Next Renewal Year	Next Renewal Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Replacement Value \$
A1010	Standard Foundations	\$18.40	S.F.	31,475	100	1897	1997	2052	37.00 %	0.00 %	37			\$579,140
A1030	Slab on Grade	\$7.73	S.F.	31,475	100	1897	1997	2052	37.00 %	0.00 %	37			\$243,302
A2010	Basement Excavation	\$6.55	S.F.	31,475	100	1897	1997	2052	37.00 %	0.00 %	37			\$206,161
A2020	Basement Walls	\$12.70	S.F.	31,475	100	1897	1997	2052	37.00 %	42.98 %	37		\$171,809.61	\$399,733
B1010	Floor Construction	\$75.10	S.F.	31,475	100	1897	1997	2052	37.00 %	0.00 %	37			\$2,363,773
B1020	Roof Construction	\$13.88	S.F.	31,475	100	1897	1997	2052	37.00 %	0.00 %	37			\$436,873
B2010	Exterior Walls	\$36.91	S.F.	31,475	100	1897	1997	2052	37.00 %	0.78 %	37		\$9,077.77	\$1,161,742
B2020	Exterior Windows	\$18.01	S.F.	31,475	40	1993	2033	2057	105.00 %	67.65 %	42		\$383,506.96	\$566,865
B2030	Exterior Doors	\$1.45	S.F.	31,475	25	1993	2018	2028	52.00 %	15.31 %	13		\$6,987.28	\$45,639
B3010105	Built-Up	\$37.76	S.F.	13,435	20	1975	1995	2037	110.00 %	89.73 %	22		\$455,204.82	\$507,306
B3020	Roof Openings	\$0.06	S.F.	31,475	20	1975	1995	2037	110.00 %	0.00 %	22			\$1,889
C1010	Partitions	\$17.91	S.F.	31,475	100	1897	1997	2052	37.00 %	0.00 %	37			\$563,717
C1020	Interior Doors	\$3.51	S.F.	31,475	40	1993	2033		45.00 %	15.11 %	18		\$16,697.08	\$110,477
C1030	Fittings	\$3.12	S.F.	31,475	40	1897	1937	2057	105.00 %	55.46 %	42		\$54,465.38	\$98,202
C2010	Stair Construction	\$1.41	S.F.	31,475	100	1897	1997	2052	37.00 %	39.14 %	37		\$17,370.87	\$44,380
C3010230	Paint & Covering	\$15.69	S.F.	31,475	10	2013	2023		80.00 %	10.76 %	8		\$53,115.87	\$493,843
C3010232	Wall Tile	\$0.15	S.F.	31,475	30	1993	2023		26.67 %	0.00 %	8			\$4,721
C3020412	Terrazzo & Tile	\$75.52	S.F.	315	50	1993	2043		56.00 %	0.00 %	28			\$23,789
C3020413	Vinyl Flooring	\$9.68	S.F.	20,144	20	1972	1992	2027	60.00 %	13.36 %	12		\$26,060.55	\$194,994
C3020415	Concrete Floor Finishes	\$0.97	S.F.	11,016	50	1993	2043		56.00 %	0.00 %	28			\$10,686
C3030	Ceiling Finishes	\$20.97	S.F.	31,475	25	1993	2018	2027	48.00 %	7.88 %	12		\$52,022.34	\$660,031
D1010	Elevators and Lifts	\$5.60	S.F.	31,475	35			2052	105.71 %	282.40 %	37		\$497,751.74	\$176,260
D2010	Plumbing Fixtures	\$13.52	S.F.	31,475	35	1955	1990	2025	28.57 %	11.06 %	10		\$47,078.70	\$425,542
D2020	Domestic Water Distribution	\$1.68	S.F.	31,475	25	1955	1980	2021	24.00 %	64.88 %	6		\$34,306.86	\$52,878
D2030	Sanitary Waste	\$2.90	S.F.	31,475	25	1897	1922	2030	60.00 %	169.16 %	15		\$154,408.49	\$91,278
D2040	Rain Water Drainage	\$2.32	S.F.	31,475	30	1897	1927	2030	50.00 %	191.14 %	15		\$139,573.72	\$73,022
D3020	Heat Generating Systems	\$18.67	S.F.	31,475	35	1995	2030		42.86 %	0.00 %	15			\$587,638
D3030	Cooling Generating Systems	\$24.48	S.F.	31,475	30			2047	106.67 %	50.02 %	32		\$385,425.49	\$770,508
D3040	Distribution Systems	\$42.99	S.F.	31,475	25	1955	1980	2042	108.00 %	31.12 %	27		\$421,133.52	\$1,353,110
D3050	Terminal & Package Units	\$11.60	S.F.	31,475	20	1955	1975	2037	110.00 %	0.00 %	22			\$365,110
D3060	Controls & Instrumentation	\$13.50	S.F.	31,475	20	1955	1975	2037	110.00 %	158.90 %	22		\$675,207.14	\$424,913
D4010	Sprinklers	\$7.05	S.F.	31,475	35			2052	105.71 %	202.91 %	37		\$450,264.64	\$221,899
D4020	Standpipes	\$1.01	S.F.	31,475	35				0.00 %	0.00 %				\$31,790
D5010	Electrical Service/Distribution	\$9.70	S.F.	31,475	30	1995	2025	2047	106.67 %	78.42 %	32		\$239,422.66	\$305,308
D5020	Lighting and Branch Wiring	\$34.68	S.F.	31,475	20	1995	2015	2037	110.00 %	20.78 %	22		\$226,864.93	\$1,091,553
D5030	Communications and Security	\$12.99	S.F.	31,475	15	1897	1912	2032	113.33 %	51.57 %	17		\$210,857.67	\$408,860
D5090	Other Electrical Systems	\$1.41	S.F.	31,475	30	1897	1927	2047	106.67 %	355.75 %	32		\$157,880.68	\$44,380
E1020	Institutional Equipment	\$4.82	S.F.	31,475	35	1972	2007	2052	105.71 %	0.00 %	37			\$151,710
E1090	Other Equipment	\$11.10	S.F.	31,475	35	2001	2036		60.00 %	0.00 %	21			\$349,373
E2010	Fixed Furnishings	\$2.13	S.F.	31,475	40	1983	2023		20.00 %	49.99 %	8		\$33,514.23	\$67,042
Total									69.21 %	31.32 %			\$4,920,009.00	\$15,709,437

System Notes

The facility description in the site executive summary contains an overview of each system. The notes listed below provide additional information on select systems found within the facility.

System: C3010 - Wall Finishes This system contains no images

Note: 99% - Paint & covering
1% - Wall tile (ceramic)

System: C3020 - Floor Finishes This system contains no images

Note: 1% - Terrazzo & Tile (ceramic)
64% - Vinyl Flooring (20% VCT, 44% VAT)
35% - Concrete Floor Finishes

System: D5010 - Electrical Service/Distribution



Note: (1) 22.5 KVA and (1) 75KVA phase converters

Renewal Schedule

eCOMET forecasts future Capital Renewal funding needed to address expiring systems based on the Next Renewal year found in the Cost Models. A 3% annual inflation factor is applied to the costs for systems expiring in future years. The table below reflects recommended Capital Renewal funding needs over the next 10 years. Note: Cells with a zero value indicate systems for which renewal is not scheduled in that year.

Inflation Rate: 3%

System	Current Deficiencies	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Total:	\$4,920,009	\$0	\$0	\$0	\$0	\$0	\$69,453	\$0	\$788,141	\$0	\$629,082	\$6,406,685
* A - Substructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A10 - Foundations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A1010 - Standard Foundations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A1030 - Slab on Grade	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A20 - Basement Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A2010 - Basement Excavation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A2020 - Basement Walls	\$171,810	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$171,810
B - Shell	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B10 - Superstructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B1010 - Floor Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B1020 - Roof Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B20 - Exterior Enclosure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B2010 - Exterior Walls	\$9,078	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,078
B2020 - Exterior Windows	\$383,507	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$383,507
B2030 - Exterior Doors	\$6,987	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,987
B30 - Roofing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010 - Roof Coverings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010105 - Built-Up	\$455,205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$455,205
B3020 - Roof Openings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C - Interiors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C10 - Interior Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C1010 - Partitions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C1020 - Interior Doors	\$16,697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,697
C1030 - Fittings	\$54,465	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54,465
C20 - Stairs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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C2010 - Stair Construction	\$17,371	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,371
C30 - Interior Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010 - Wall Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010230 - Paint & Covering	\$53,116	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$688,144	\$0	\$0	\$741,260
C3010232 - Wall Tile	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,578	\$0	\$0	\$6,578
C3020 - Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020412 - Terrazzo & Tile	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020413 - Vinyl Flooring	\$26,061	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,061
C3020415 - Concrete Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3030 - Ceiling Finishes	\$52,022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$52,022
D - Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D10 - Conveying	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D1010 - Elevators and Lifts	\$497,752	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$497,752
D20 - Plumbing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D2010 - Plumbing Fixtures	\$47,079	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$629,082	\$676,161
D2020 - Domestic Water Distribution	\$34,307	\$0	\$0	\$0	\$0	\$0	\$69,453	\$0	\$0	\$0	\$0	\$0	\$103,760
D2030 - Sanitary Waste	\$154,408	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$154,408
D2040 - Rain Water Drainage	\$139,574	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$139,574
D30 - HVAC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3020 - Heat Generating Systems	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3030 - Cooling Generating Systems	\$385,425	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$385,425
D3040 - Distribution Systems	\$421,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$421,134
D3050 - Terminal & Package Units	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3060 - Controls & Instrumentation	\$675,207	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$675,207
D40 - Fire Protection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D4010 - Sprinklers	\$450,265	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450,265
D4020 - Standpipes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D50 - Electrical	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D5010 - Electrical Service/Distribution	\$239,423	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$239,423
D5020 - Lighting and Branch Wiring	\$226,865	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$226,865
D5030 - Communications and Security	\$210,858	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$210,858
D5090 - Other Electrical Systems	\$157,881	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$157,881
E - Equipment & Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

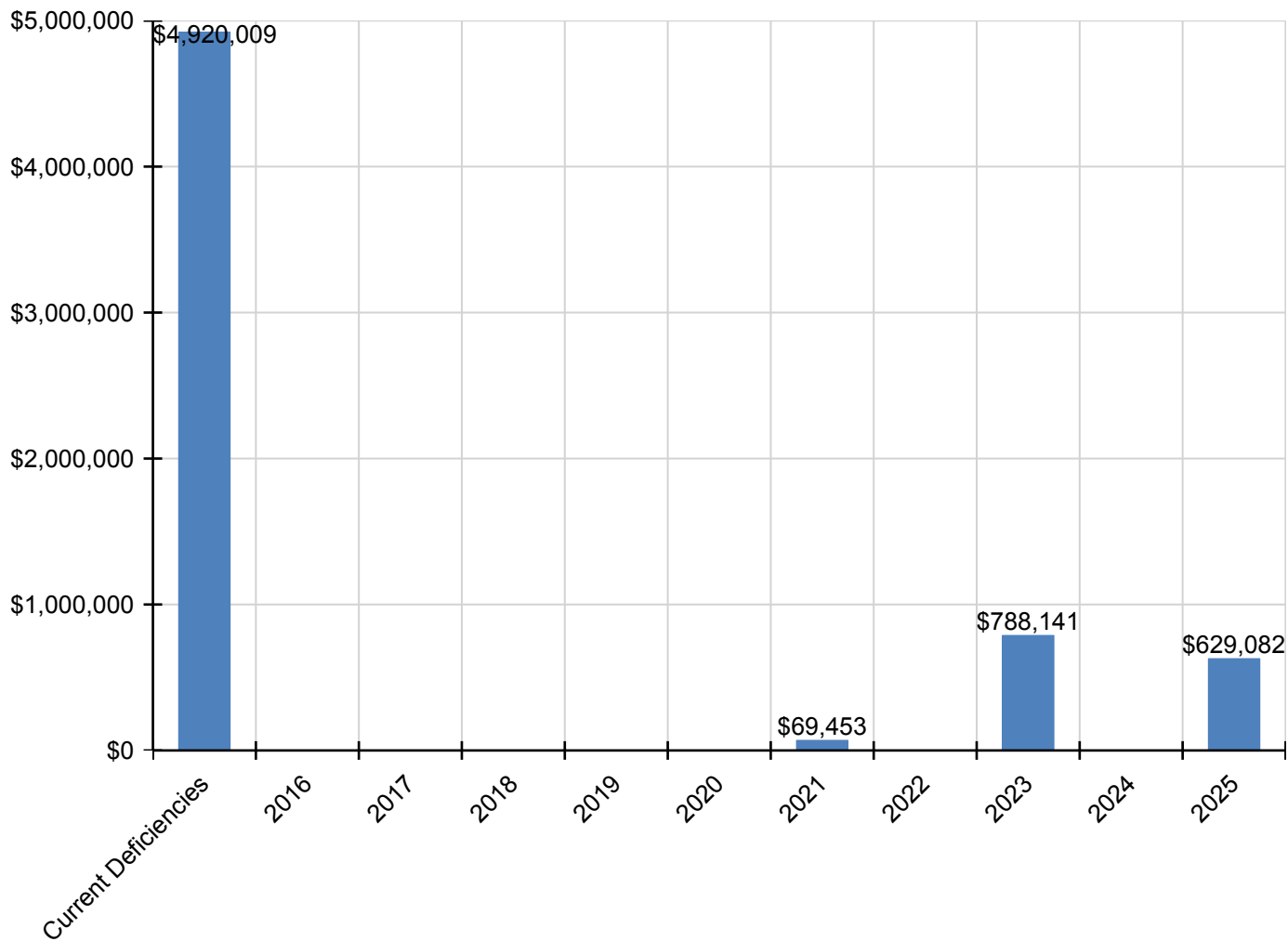
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E10 - Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E1020 - Institutional Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E1090 - Other Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E20 - Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E2010 - Fixed Furnishings	\$33,514	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$93,419	\$0	\$0	\$126,933

* Indicates non-renewable system

Forecasted Sustainment Requirement

The following chart shows the current building deficiencies and forecasting sustainment requirements over the next ten years.

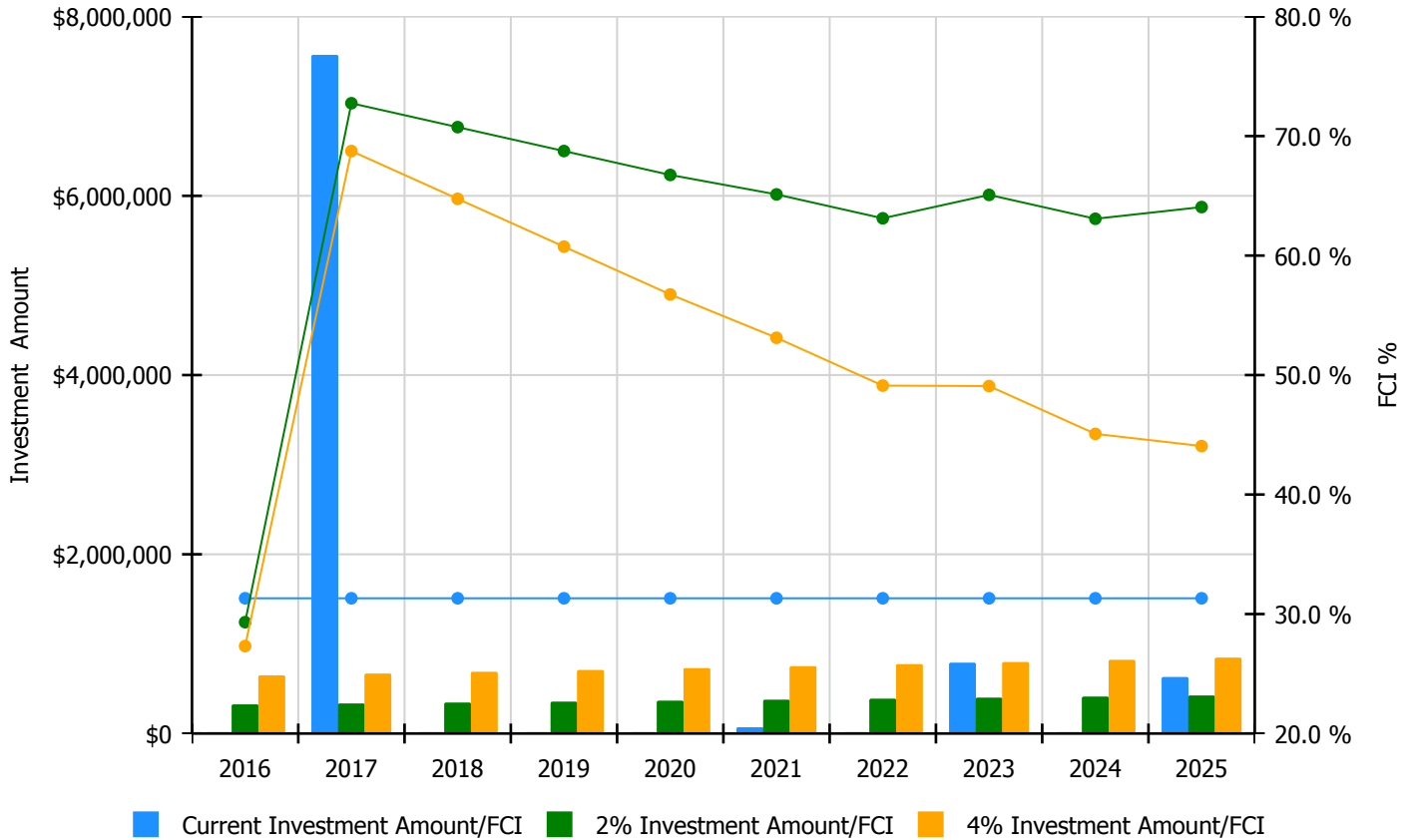


10 Year FCI Forecast by Investment Scenario

The chart below illustrates the effect of various investment levels on the building FCI for the next 10 years. The levels of investment shown below include:

- Current FCI: a variable investment amount based on renewing expired systems to maintain the current FCI for the building
- 2% Investment: an annual investment of 2% of the replacement value of the building, escalated for inflation
- 4% Investment: an annual investment of 4% of the replacement value of the building, escalated for inflation

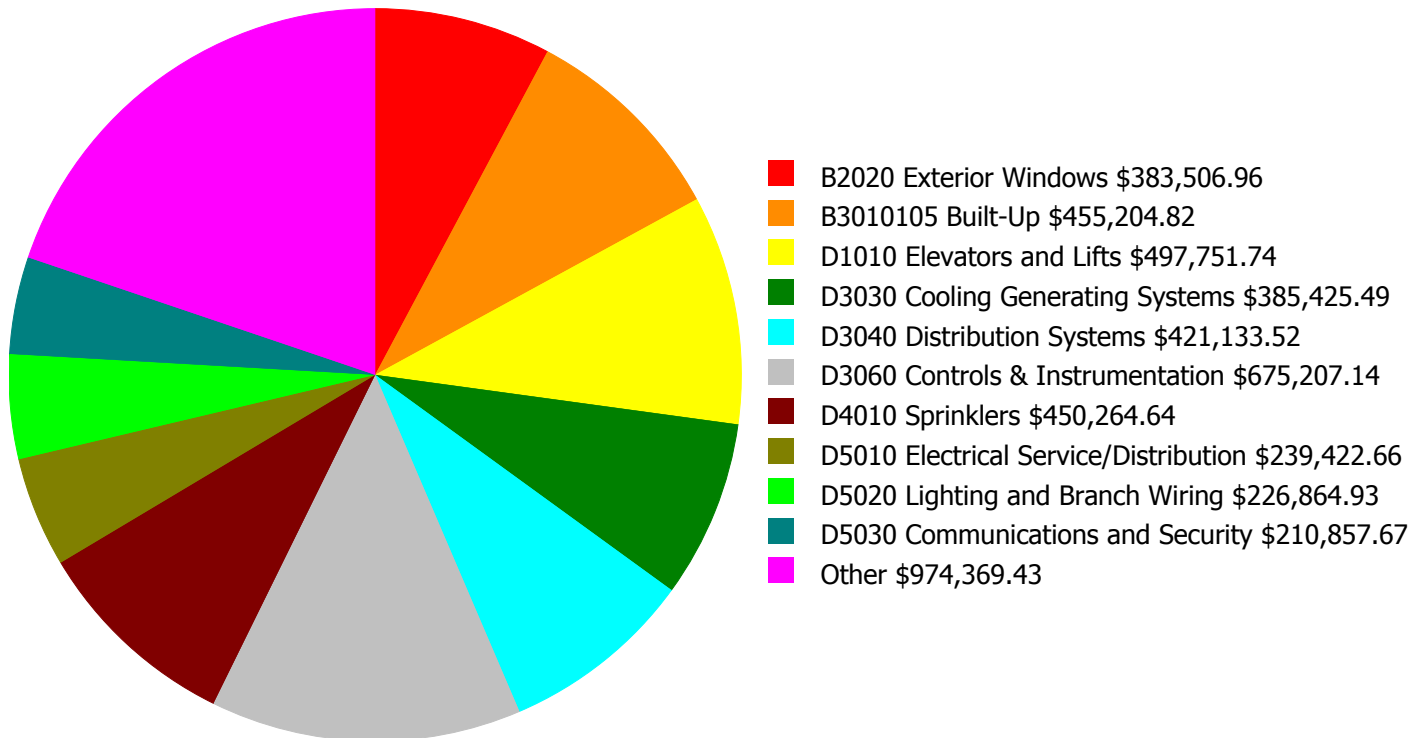
Facility Investment vs. FCI Forecast



Year	Investment Amount Current FCI - 31.32%	2% Investment		4% Investment	
		Amount	FCI	Amount	FCI
2016	\$0	\$323,614.00	29.32 %	\$647,229.00	27.32 %
2017	\$7,571,278	\$333,323.00	72.75 %	\$666,646.00	68.75 %
2018	\$0	\$343,323.00	70.75 %	\$686,645.00	64.75 %
2019	\$0	\$353,622.00	68.75 %	\$707,244.00	60.75 %
2020	\$0	\$364,231.00	66.75 %	\$728,462.00	56.75 %
2021	\$69,453	\$375,158.00	65.12 %	\$750,316.00	53.12 %
2022	\$0	\$386,413.00	63.12 %	\$772,825.00	49.12 %
2023	\$788,141	\$398,005.00	65.08 %	\$796,010.00	49.08 %
2024	\$0	\$409,945.00	63.08 %	\$819,890.00	45.08 %
2025	\$629,082	\$422,243.00	64.06 %	\$844,487.00	44.06 %
Total:	\$9,057,955	\$3,709,877.00		\$7,419,754.00	

Deficiency Summary by System

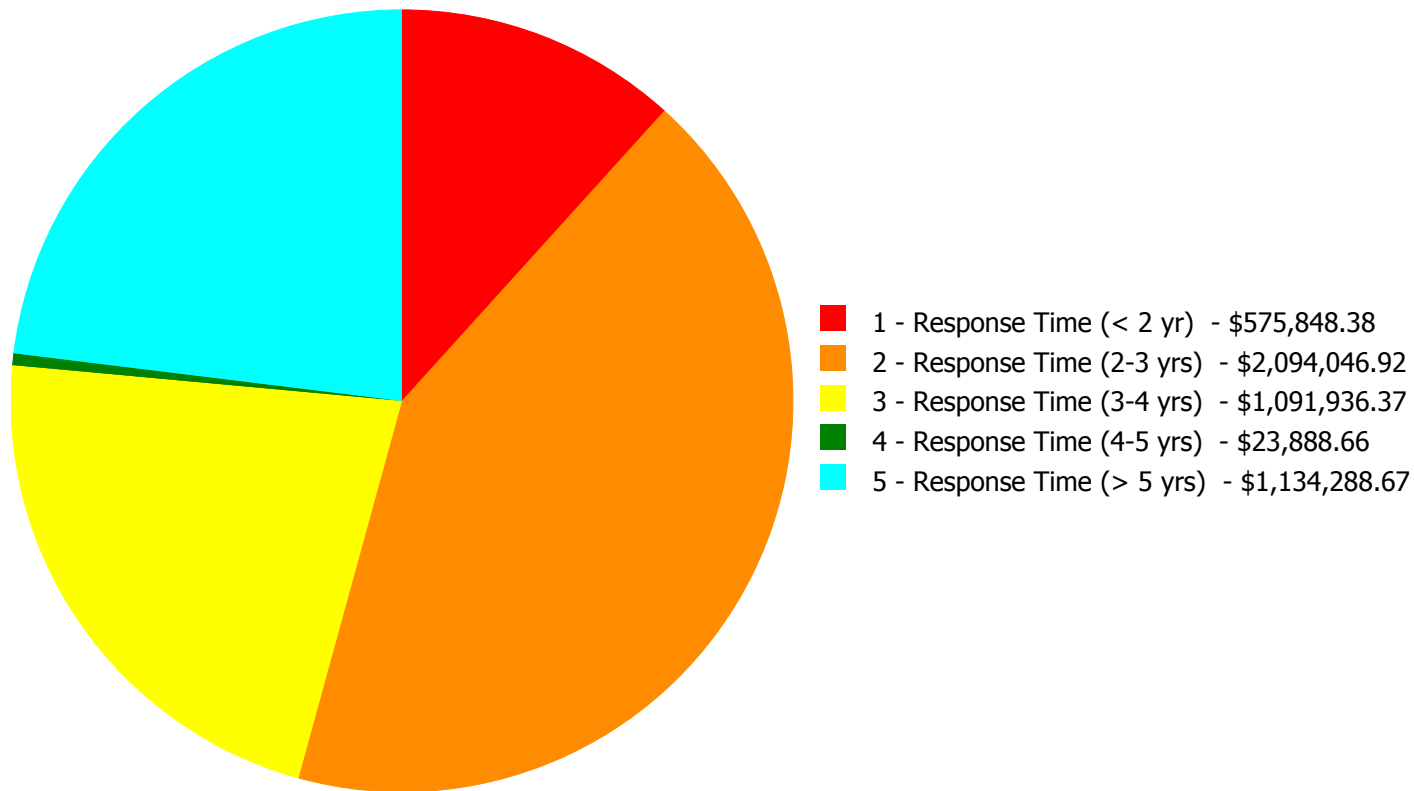
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart lists all current deficiencies associated with this facility.



Budget Estimate Total: \$4,920,009.00

Deficiency Summary by Priority

The following chart shows the total repair costs broken down by priority. Assessors assigned deficiencies within eCOMET to one of the following priority categories:



Budget Estimate Total: \$4,920,009.00

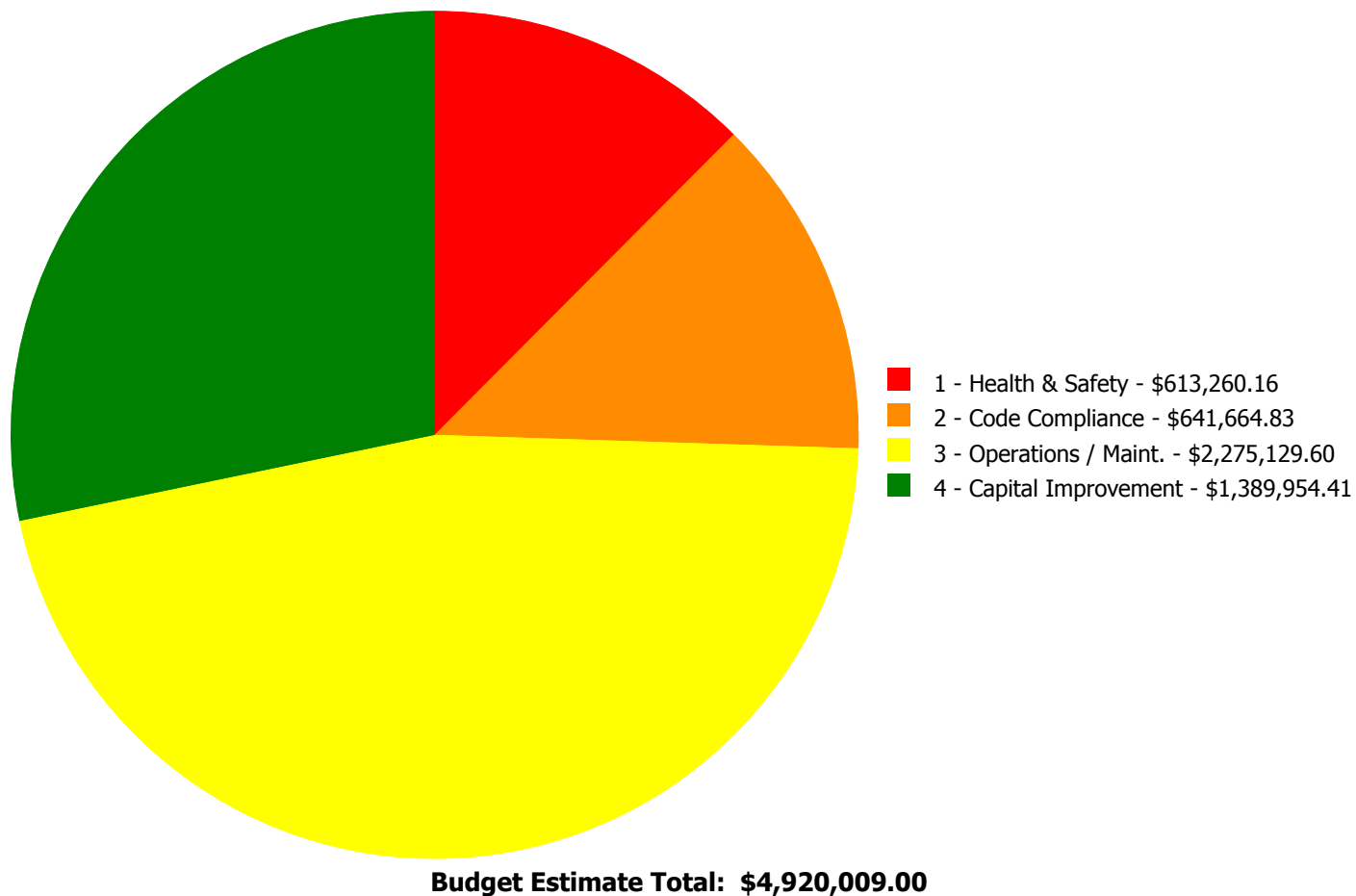
Deficiency By Priority Investment Table

The table below shows the current investment cost grouped by deficiency priority and building system.

System Code	System Description	1 - Response Time (< 2 yr)	2 - Response Time (2-3 yrs)	3 - Response Time (3-4 yrs)	4 - Response Time (4-5 yrs)	5 - Response Time (> 5 yrs)	Total
A2020	Basement Walls	\$0.00	\$0.00	\$171,809.61	\$0.00	\$0.00	\$171,809.61
B2010	Exterior Walls	\$0.00	\$9,077.77	\$0.00	\$0.00	\$0.00	\$9,077.77
B2020	Exterior Windows	\$0.00	\$0.00	\$383,506.96	\$0.00	\$0.00	\$383,506.96
B2030	Exterior Doors	\$0.00	\$6,987.28	\$0.00	\$0.00	\$0.00	\$6,987.28
B3010105	Built-Up	\$455,204.82	\$0.00	\$0.00	\$0.00	\$0.00	\$455,204.82
C1020	Interior Doors	\$0.00	\$16,697.08	\$0.00	\$0.00	\$0.00	\$16,697.08
C1030	Fittings	\$0.00	\$43,628.88	\$10,836.50	\$0.00	\$0.00	\$54,465.38
C2010	Stair Construction	\$17,370.87	\$0.00	\$0.00	\$0.00	\$0.00	\$17,370.87
C3010230	Paint & Covering	\$0.00	\$53,115.87	\$0.00	\$0.00	\$0.00	\$53,115.87
C3020413	Vinyl Flooring	\$0.00	\$26,060.55	\$0.00	\$0.00	\$0.00	\$26,060.55
C3030	Ceiling Finishes	\$0.00	\$0.00	\$28,133.68	\$23,888.66	\$0.00	\$52,022.34
D1010	Elevators and Lifts	\$0.00	\$497,751.74	\$0.00	\$0.00	\$0.00	\$497,751.74
D2010	Plumbing Fixtures	\$0.00	\$47,078.70	\$0.00	\$0.00	\$0.00	\$47,078.70
D2020	Domestic Water Distribution	\$0.00	\$34,306.86	\$0.00	\$0.00	\$0.00	\$34,306.86
D2030	Sanitary Waste	\$0.00	\$0.00	\$154,408.49	\$0.00	\$0.00	\$154,408.49
D2040	Rain Water Drainage	\$0.00	\$139,573.72	\$0.00	\$0.00	\$0.00	\$139,573.72
D3030	Cooling Generating Systems	\$0.00	\$0.00	\$0.00	\$0.00	\$385,425.49	\$385,425.49
D3040	Distribution Systems	\$103,272.69	\$19,262.29	\$0.00	\$0.00	\$298,598.54	\$421,133.52
D3060	Controls & Instrumentation	\$0.00	\$675,207.14	\$0.00	\$0.00	\$0.00	\$675,207.14
D4010	Sprinklers	\$0.00	\$0.00	\$0.00	\$0.00	\$450,264.64	\$450,264.64
D5010	Electrical Service/Distribution	\$0.00	\$239,422.66	\$0.00	\$0.00	\$0.00	\$239,422.66
D5020	Lighting and Branch Wiring	\$0.00	\$0.00	\$226,864.93	\$0.00	\$0.00	\$226,864.93
D5030	Communications and Security	\$0.00	\$110,784.09	\$100,073.58	\$0.00	\$0.00	\$210,857.67
D5090	Other Electrical Systems	\$0.00	\$157,880.68	\$0.00	\$0.00	\$0.00	\$157,880.68
E2010	Fixed Furnishings	\$0.00	\$17,211.61	\$16,302.62	\$0.00	\$0.00	\$33,514.23
	Total:	\$575,848.38	\$2,094,046.92	\$1,091,936.37	\$23,888.66	\$1,134,288.67	\$4,920,009.00

Deficiency Summary by Category

The following chart shows the total repair costs broken down by deficiency categories. Assessors assigned deficiencies to one of the following categories:



Deficiency Details by Priority

The deficiency detail notes listed below provide additional information on identified deficiencies found within the facility.

Priority 1 - Response Time (< 2 yr):

System: B3010105 - Built-Up



Location: Roof

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Remove and Replace Built Up Roof

Qty: 13,435.00

Unit of Measure: S.F.

Estimate: \$455,204.82

Assessor Name: System

Date Created: 10/21/2015

Notes: Replace built-up roofing system – leaking, failing, and beyond service life

System: C2010 - Stair Construction



Location: Stairs

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 1 - Response Time (< 2 yr)

Correction: Replace inadequate or install proper stair railing - select appropriate material

Qty: 96.00

Unit of Measure: L.F.

Estimate: \$17,370.87

Assessor Name: System

Date Created: 10/21/2015

Notes: Install code compliant stair railing

System: D3040 - Distribution Systems



Location: Entire building

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Conduct a steam trap survey and replace failed units.

Qty: 31,475.00

Unit of Measure: S.F.

Estimate: \$103,272.69

Assessor Name: System

Date Created: 11/28/2015

Notes: Survey and repair steam traps due to steam leaks.

Priority 2 - Response Time (2-3 yrs):

System: B2010 - Exterior Walls



Location: Ext. walls

Distress: Maintenance Required

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repoint horizontal or vertical joints at limestone coping

Qty: 532.00

Unit of Measure: L.F.

Estimate: \$9,077.77

Assessor Name: System

Date Created: 10/21/2015

Notes: Re-point and seal window lintels and sills

System: B2030 - Exterior Doors



Location: Entrance

Distress: Accessibility

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Replace hardware with compliant hardware, paint and weatherstrip - per leaf

Qty: 2.00

Unit of Measure: Ea.

Estimate: \$6,987.28

Assessor Name: System

Date Created: 10/21/2015

Notes: Provide ADA compliant exterior door hardware at one entrance

System: C1020 - Interior Doors



Location: Throughout
Distress: Accessibility
Category: 2 - Code Compliance
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace door knobs with compliant lever type
Qty: 30.00
Unit of Measure: Ea.
Estimate: \$16,697.08
Assessor Name: System
Date Created: 10/21/2015

Notes: Provide ADA lever handle lock/latchsets on interior doors

System: C1030 - Fittings



Location: Toilets
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Remove and replace toilet partitions
Qty: 17.00
Unit of Measure: Ea.
Estimate: \$43,628.88
Assessor Name: System
Date Created: 10/21/2015

Notes: Provide new toilet partitions and toilet accessories including grab bars for accessibility

System: C3010230 - Paint & Covering



Location: Various
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Repair substrate and repaint interior walls - SF of wall surface
Qty: 6,200.00
Unit of Measure: S.F.
Estimate: \$53,115.87
Assessor Name: System
Date Created: 10/22/2015

Notes: Repair and repaint damaged wall areas (10% of plaster wall areas)

System: C3020413 - Vinyl Flooring



Location: Various
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Remove VAT and replace with VCT - SF of area
Qty: 2,014.00
Unit of Measure: S.F.
Estimate: \$26,060.55
Assessor Name: System
Date Created: 10/22/2015

Notes: Replaced damaged VAC tile with VCT (10% of vinyl floor area)

System: D1010 - Elevators and Lifts



Location: TBD

Distress: Accessibility

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Add interior hydraulic elevator - 3 floors - adjust the electrical run lengths to hook up the elevator

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$497,751.74

Assessor Name: System

Date Created: 10/22/2015

Notes: Install elevator for accessibility (location TBD)

System: D2010 - Plumbing Fixtures



Location: Hallways

Distress: Accessibility

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace water fountains to meet ADA - includes high and low fountains and new recessed alcove

Qty: 3.00

Unit of Measure: Ea.

Estimate: \$47,078.70

Assessor Name: System

Date Created: 11/28/2015

Notes: Replace 3 drinking fountains with accessible types.

System: D2020 - Domestic Water Distribution



Location: Basement

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Provide 3" reduced pressure back flow preventer

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$34,306.86

Assessor Name: System

Date Created: 11/28/2015

Notes: Install backflow preventer on domestic water entry for code compliance.

System: D2040 - Rain Water Drainage



Location: Entire building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Inspect internal rain water drainage piping and replace pipe - based on SF of multi-story building - insert SF of building

Qty: 31,475.00

Unit of Measure: S.F.

Estimate: \$139,573.72

Assessor Name: System

Date Created: 11/28/2015

Notes: Inspect and repair rain water drain pipe, 31,475 sq. ft.

System: D3040 - Distribution Systems



Location: Rooftop
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace rooftop gravity ventilator units - select the proper type and size
Qty: 10.00
Unit of Measure: Ea.
Estimate: \$19,262.29
Assessor Name: System
Date Created: 11/28/2015

Notes: Replace rooftop gravity vents due to age and damage.

System: D3060 - Controls & Instrumentation



Location: Entire building
Distress: Obsolete
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace pneumatic controls with DDC (75KSF)
Qty: 31,475.00
Unit of Measure: S.F.
Estimate: \$675,207.14
Assessor Name: System
Date Created: 11/28/2015

Notes: Replace obsolete pneumatic HVAC controls with DDC.

System: D5010 - Electrical Service/Distribution



Location: Basement
Distress: Inadequate
Category: 4 - Capital Improvement
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace Switchboard
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$239,422.66
Assessor Name: System
Date Created: 10/15/2015

Notes: Provide a new electrical service 1200 Amperes 120/208V, it will be located in the vicinity of the existing electrical service.

System: D5030 - Communications and Security



Location: Entire Building
Distress: Life Safety / NFPA / PFD
Category: 1 - Health & Safety
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace fire alarm system
Qty: 1.00
Unit of Measure: S.F.
Estimate: \$110,784.09
Assessor Name: System
Date Created: 10/15/2015

Notes: Replace old fire alarm system with addressable type with audio/visual devices at corridors and classrooms.

System: D5090 - Other Electrical Systems



Location: Outdoor
Distress: Inadequate
Category: 4 - Capital Improvement
Priority: 2 - Response Time (2-3 yrs)
Correction: Add Standby Generator System
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$136,408.38
Assessor Name: System
Date Created: 10/15/2015

Notes: Provide 35KW, outdoor, diesel powered generator.

System: D5090 - Other Electrical Systems



Location: Roof
Distress: Building / MEP Codes
Category: 2 - Code Compliance
Priority: 2 - Response Time (2-3 yrs)
Correction: Provide Lightning Protection System
Qty: 1.00
Unit of Measure: LS
Estimate: \$21,472.30
Assessor Name: System
Date Created: 10/15/2015

Notes: Prepare a study to determine if a lightning protection system is required

System: E2010 - Fixed Furnishings



Location: Stage

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace stage curtain - insert the LF of track and SF of curtain

Qty: 4.00

Unit of Measure: Ea.

Estimate: \$17,211.61

Assessor Name: System

Date Created: 10/22/2015

Notes: Replace auditorium curtains – damaged

Priority 3 - Response Time (3-4 yrs):

System: A2020 - Basement Walls



Location: Basement

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Repair concrete wall in poor condition including rebar dowelling - insert the SF of wall area

Qty: 750.00

Unit of Measure: S.F.

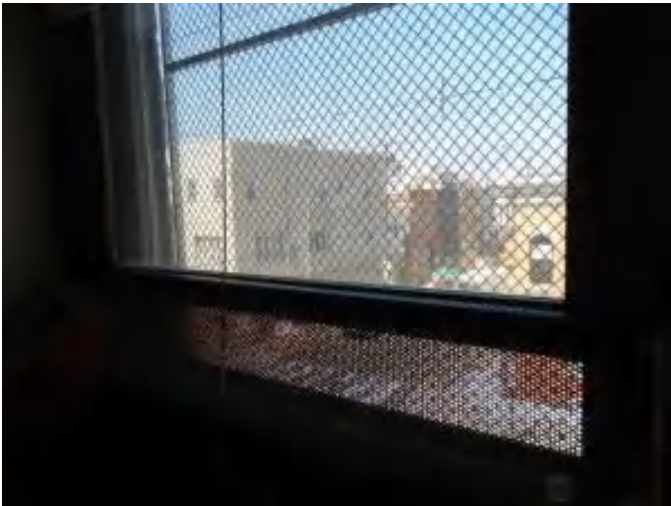
Estimate: \$171,809.61

Assessor Name: System

Date Created: 10/21/2015

Notes: Repair foundation walls – deterioration

System: B2020 - Exterior Windows



Location: Windows

Distress: Energy Efficiency

Category: 4 - Capital Improvement

Priority: 3 - Response Time (3-4 yrs)

Correction: Remove and replace double slider windows

Qty: 76.00

Unit of Measure: Ea.

Estimate: \$383,506.96

Assessor Name: System

Date Created: 10/21/2015

Notes: Replace Plexiglas windows – hazed and energy inefficient

System: C1030 - Fittings



Location: Throughout

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 3 - Response Time (3-4 yrs)

Correction: Replace missing or damaged signage - insert the number of rooms

Qty: 40.00

Unit of Measure: Ea.

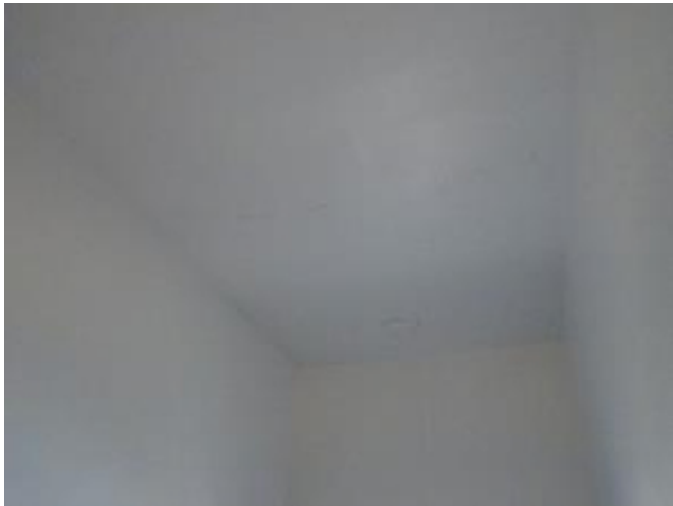
Estimate: \$10,836.50

Assessor Name: System

Date Created: 10/21/2015

Notes: Install new ID signage – missing

System: C3030 - Ceiling Finishes



Location: Various

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Repair and resurface plaster ceilings - 2 coats plaster

Qty: 1,573.00

Unit of Measure: S.F.

Estimate: \$20,644.19

Assessor Name: System

Date Created: 10/22/2015

Notes: Repair and repaint damaged ceiling areas (5% of plaster ceiling areas)

System: C3030 - Ceiling Finishes



Location: Gym
Distress: Inadequate
Category: 4 - Capital Improvement
Priority: 3 - Response Time (3-4 yrs)
Correction: Remove and replace glued on or mechanically attached acoustical ceiling tiles
Qty: 883.00
Unit of Measure: S.F.
Estimate: \$7,489.49
Assessor Name: System
Date Created: 10/22/2015

Notes: Install acoustic panels on gym ceiling for sound absorption

System: D2030 - Sanitary Waste



Location: Entire building
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Inspect sanitary waste piping and replace damaged sections. (+50KSF)
Qty: 31,475.00
Unit of Measure: S.F.
Estimate: \$154,408.49
Assessor Name: System
Date Created: 11/28/2015

Notes: Inspect and repair sanitary waste pipe due to age, 31,475 sq. ft.

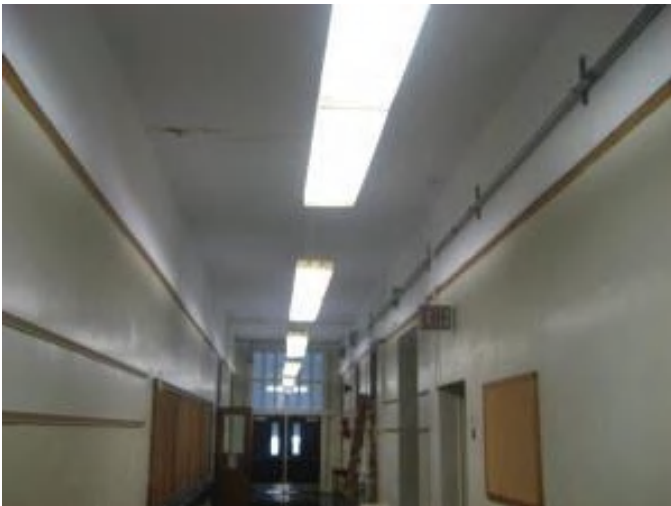
System: D5020 - Lighting and Branch Wiring



Location: Entire Building
Distress: Inadequate
Category: 4 - Capital Improvement
Priority: 3 - Response Time (3-4 yrs)
Correction: Add wiring device
Qty: 96.00
Unit of Measure: Ea.
Estimate: \$226,864.93
Assessor Name: System
Date Created: 10/15/2015

Notes: Provide (2)25FT of surface raceways with 24" receptacles on center and two-duplex wall mount receptacles. Approximate 96

System: D5030 - Communications and Security



Location: Entire Building
Distress: Security Issue
Category: 1 - Health & Safety
Priority: 3 - Response Time (3-4 yrs)
Correction: Add/Replace Video Surveillance System
Qty: 15.00
Unit of Measure: Ea.
Estimate: \$52,211.43
Assessor Name: System
Date Created: 10/15/2015

Notes: Add CCTV cameras to provide a full coverage of the building interior. Approximate 15 CCTV cameras

System: D5030 - Communications and Security



Location: Entire Building
Distress: Obsolete
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Add/Replace Clock System or Components
Qty: 25.00
Unit of Measure: Ea.
Estimate: \$47,862.15
Assessor Name: System
Date Created: 10/15/2015

Notes: Replace clock and bell system with wireless, battery operated, clock system. Approximate 25

System: E2010 - Fixed Furnishings



Location: Auditorium
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Replace auditorium seating - add tablet arms if required. Veneer seating is an option.
Qty: 20.00
Unit of Measure: Ea.
Estimate: \$16,302.62
Assessor Name: System
Date Created: 10/22/2015

Notes: Replace auditorium seats – damaged or missing (10%)

Priority 4 - Response Time (4-5 yrs):

System: C3030 - Ceiling Finishes



Location: Corridors

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 4 - Response Time (4-5 yrs)

Correction: Remove and replace suspended acoustic ceilings - lighting not included

Qty: 2,400.00

Unit of Measure: S.F.

Estimate: \$23,888.66

Assessor Name: System

Date Created: 10/22/2015

Notes: Install suspended acoustic ceiling system in corridors – hide utilities

Priority 5 - Response Time (> 5 yrs):

System: D3030 - Cooling Generating Systems

This deficiency has no image.

Location: Entire building

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 5 - Response Time (> 5 yrs)

Correction: Install chilled water system with distribution piping and pumps. (+75KSF)

Qty: 24,000.00

Unit of Measure: S.F.

Estimate: \$385,425.49

Assessor Name: System

Date Created: 11/28/2015

Notes: Install 80 ton chiller to provide air-conditioning.

System: D3040 - Distribution Systems



Location: Basement Mechanical Room

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 5 - Response Time (> 5 yrs)

Correction: Install HVAC unit for Auditorium (200 seat).

Qty: 200.00

Unit of Measure: Seat

Estimate: \$298,598.54

Assessor Name: System

Date Created: 01/20/2016

Notes: Replace AHU to restore ventilation to building

System: D4010 - Sprinklers

This deficiency has no image.

Location: Entire buidling

Distress: Life Safety / NFPA / PFD

Category: 1 - Health & Safety

Priority: 5 - Response Time (> 5 yrs)

Correction: Install a fire protection sprinkler system

Qty: 31,475.00

Unit of Measure: S.F.

Estimate: \$450,264.64

Assessor Name: System

Date Created: 11/28/2015

Notes: Install fire protection sprinkler system, including fire pump if needed.

Equipment Inventory

The following table represents the inventory details of the inventory found in the building, which fall under the following subsystems:

Subsystem	Inventory	Qty	UoM	Location	Manufacturer	Model Number	Serial Number	Barcode	Life	Install Date	Next Renewal	Raw Cost	Inventory Cost
D2020 Domestic Water Distribution	Pump, pressure booster system, 5 HP pump, includes diaphragm tank, control and pressure switch	1.00	Ea.	Basement mechanical room					25	1955	2020	\$10,972.50	\$12,069.75
D3020 Heat Generating Systems	Boiler, gas/oil combination, cast iron, hot water, gross output, 2628 MBH, includes burners, controls and insulated jacket, packaged	2.00	Ea.	Basement boiler room					35	1995	2030	\$69,812.50	\$153,587.50
D5010 Electrical Service/Distribution	Switchboards, distribution section, aluminum bus bars, 4 W, 120/208 or 277/480 V, 600 amp, excl breakers	1.00	Ea.	Basement	Penn Panel & Box Co.				30	1995	2025	\$3,819.15	\$4,201.07
Total:												\$169,858.32	

Executive Summary

Building condition is evaluated based on the functional systems and elements of a building and organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are developed for similar building types and functions. Systems and their elements are evaluated based on their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) FCI is an industry-standard measurement of facility condition calculated as the ratio of the costs to correct a facility's deficiencies to the facility's Current Replacement Value. It ranges from 0% (new) to 100% (very poor). Condition Index (CI) is calculated as the sum of a renewable system's Remaining Service Life (RSL) divided by the sum of a system's Replacement Value (both values exclude soft-cost to simplify calculation updates) expressed as a percentage ranging from 100% (new) to 0% (expired).

Function:	
Gross Area (SF):	27,400
Year Built:	1897
Last Renovation:	
Replacement Value:	\$573,878
Repair Cost:	\$221,745.10
Total FCI:	38.64 %
Total RSLI:	56.51 %



Description:

Attributes:

General Attributes:

Bldg ID:	S252001	Site ID:	S252001
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Condition Summary

The Table below shows the CI and FCI for each major building system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

UNIFORMAT Classification	RSLI %	FCI %	Current Repair Cost
G20 - Site Improvements	59.02 %	40.11 %	\$166,335.46
G40 - Site Electrical Utilities	50.00 %	34.81 %	\$55,409.64
Totals:	56.51 %	38.64 %	\$221,745.10

Condition Detail

This section of the report contains results of the Facility Condition Assessment. The building is separated into system components based on UNIFORMAT II classification. The columns in the System Listing table below represent the following:

1. System Code: A code that identifies the system.
2. System Description: A brief description of a system present in the building.
3. Unit Price \$: The unit price of the system.
4. UoM: The unit of measure for of the system.
5. Qty: The quantity for the system
6. Life: anticipated service life for the system based on Building Owners and Managers Association (BOMA) recommendations.
7. Year Installed: The date of system installation.
8. Calc Next Renewal Year: The date of system expiration based on the life, NR stands for non renewable.
9. Next Renewal Year: The suggested system expiration date by the assessor based on visual inspection.
10. CI: The Condition Index of the system.
11. FCI: The Facility Condition Index of the system.
12. RSL: Remaining Service Life.
13. eCR: eCOMET Condition Rating (not used).
14. Deficiency \$: The financial investment to repair/replace system.

System Listing

The System Listing table below lists each of the systems organized by their UNIFORMAT II classification. The assessment team was tasked with recording the most recent replacement year of each system, determining the remaining service life based on the theoretical life, and evaluating the condition to confirm the forecast next replacement year. The system listing is the basis for all data contained in the Building Assessment Report.

Additionally, a condition rating (eCR) based on the following guidelines is provided as observed at the time of the assessment.

- Excellent (E) - No noticeable distress or damage. The entire system is free from observable defect.
- Very Good (VG) - Overall no serviceability reduction for the entire system. No degradation of critical components and minor distress and defect noticeable for some but not non critical components within the system.
- Good (G) - Slight or no serviceability reduction for the entire system. There may be noticeable defects for some non critical components and slight noticeable degradation of the critical components.
- Fair (F) - Overall serviceability is degraded but adequate. There may be moderate deterioration for very few of the critical components and few of the non critical components may have severe degradation.
- Marginal (MA) - Overall serviceability and reliability loss. Most if not all of the non critical components suffer from severe degradation and a few of the critical component may have severe degradation.
- Moderate (MO) - Overall a significant serviceability loss. Most if not all the components have severe degradation with the reminder of the component showing visible distress.
- Very Poor (VP) - Overall the system is barely functional. All of the components are severely degraded.
- Non-Functional (NF) - Overall the system does not function with all the components having no serviceability and suffer from severe degradation.

System Code	System Description	Unit Price \$	UoM	Qty	Life	Year Installed	Calc Next Renewal Year	Next Renewal Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Replacement Value \$
G2020	Parking Lots	\$8.50	S.F.	11,000	30	1993	2023		26.67 %	0.00 %	8			\$93,500
G2030	Pedestrian Paving	\$12.30	S.F.	16,400	40	1993	2033		45.00 %	12.88 %	18		\$25,981.81	\$201,720
G2040	Site Development	\$4.36	S.F.	27,400	25	1897	1922	2042	108.00 %	117.49 %	27		\$140,353.65	\$119,464
G2050	Landscaping & Irrigation	\$4.36	S.F.		15	2010	2025		66.67 %	0.00 %	10			\$0
G4020	Site Lighting	\$4.84	S.F.	27,400	30	2000	2030		50.00 %	23.12 %	15		\$30,665.45	\$132,616
G4030	Site Communications & Security	\$0.97	S.F.	27,400	30	2000	2030		50.00 %	93.10 %	15		\$24,744.19	\$26,578
Total									56.51 %	38.64 %			\$221,745.10	\$573,878

System Notes

The facility description in the site executive summary contains an overview of each system. The notes listed below provide additional information on select systems found within the facility.

No data found for this asset

Renewal Schedule

eCOMET forecasts future Capital Renewal funding needed to address expiring systems based on the Next Renewal year found in the Cost Models. A 3% annual inflation factor is applied to the costs for systems expiring in future years. The table below reflects recommended Capital Renewal funding needs over the next 10 years. Note: Cells with a zero value indicate systems for which renewal is not scheduled in that year.

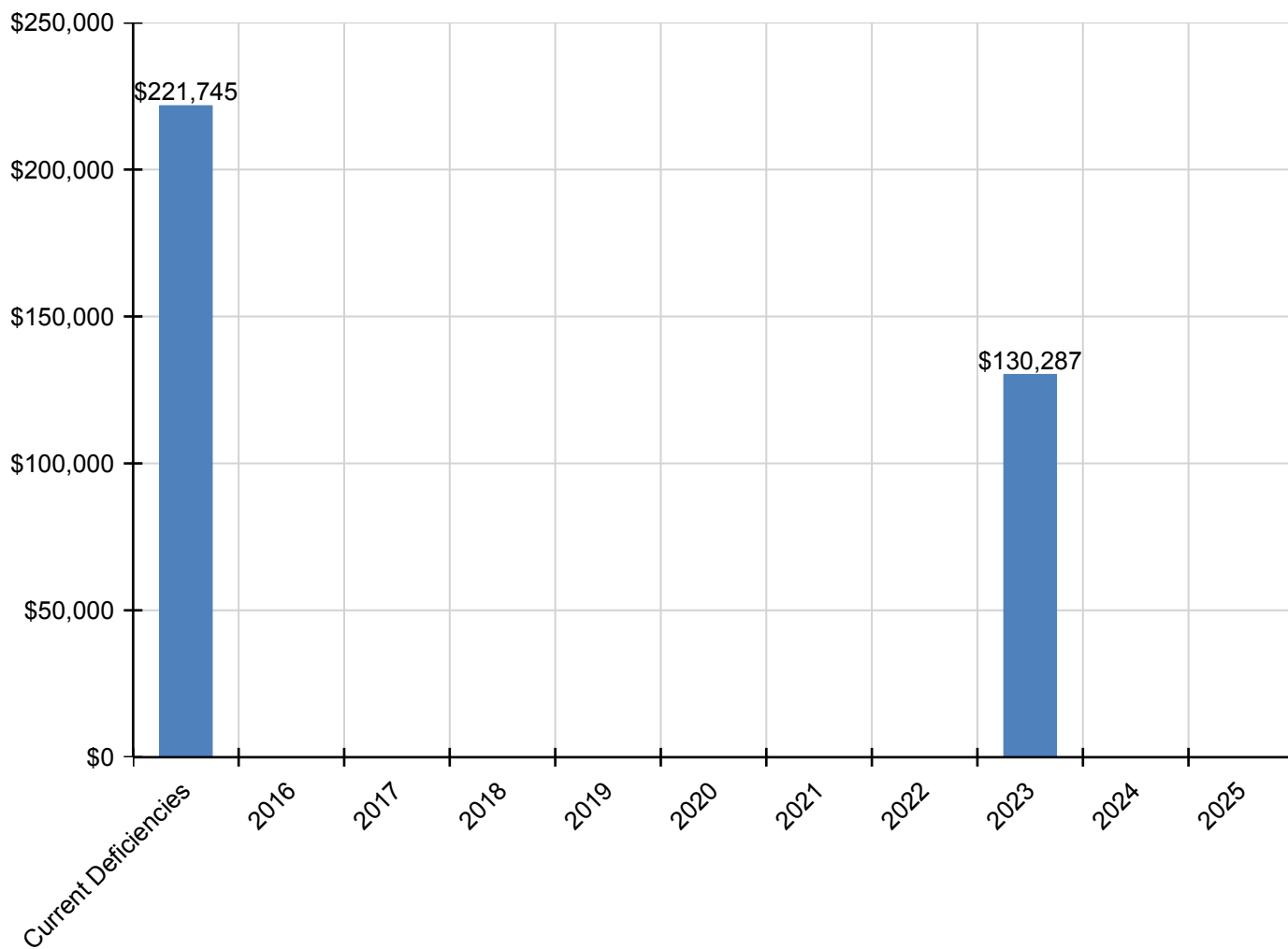
Inflation Rate: 3%

System	Current Deficiencies	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Total:	\$221,745	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$130,287	\$0	\$0	\$352,032
G - Building Sitework	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G20 - Site Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G2020 - Parking Lots	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$130,287	\$0	\$0	\$130,287
G2030 - Pedestrian Paving	\$25,982	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,982
G2040 - Site Development	\$140,354	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140,354
G2050 - Landscaping & Irrigation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G40 - Site Electrical Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G4020 - Site Lighting	\$30,665	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,665
G4030 - Site Communications & Security	\$24,744	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,744

** Indicates non-renewable system*

Forecasted Sustainment Requirement

The following chart shows the current building deficiencies and forecasting sustainment requirements over the next ten years.

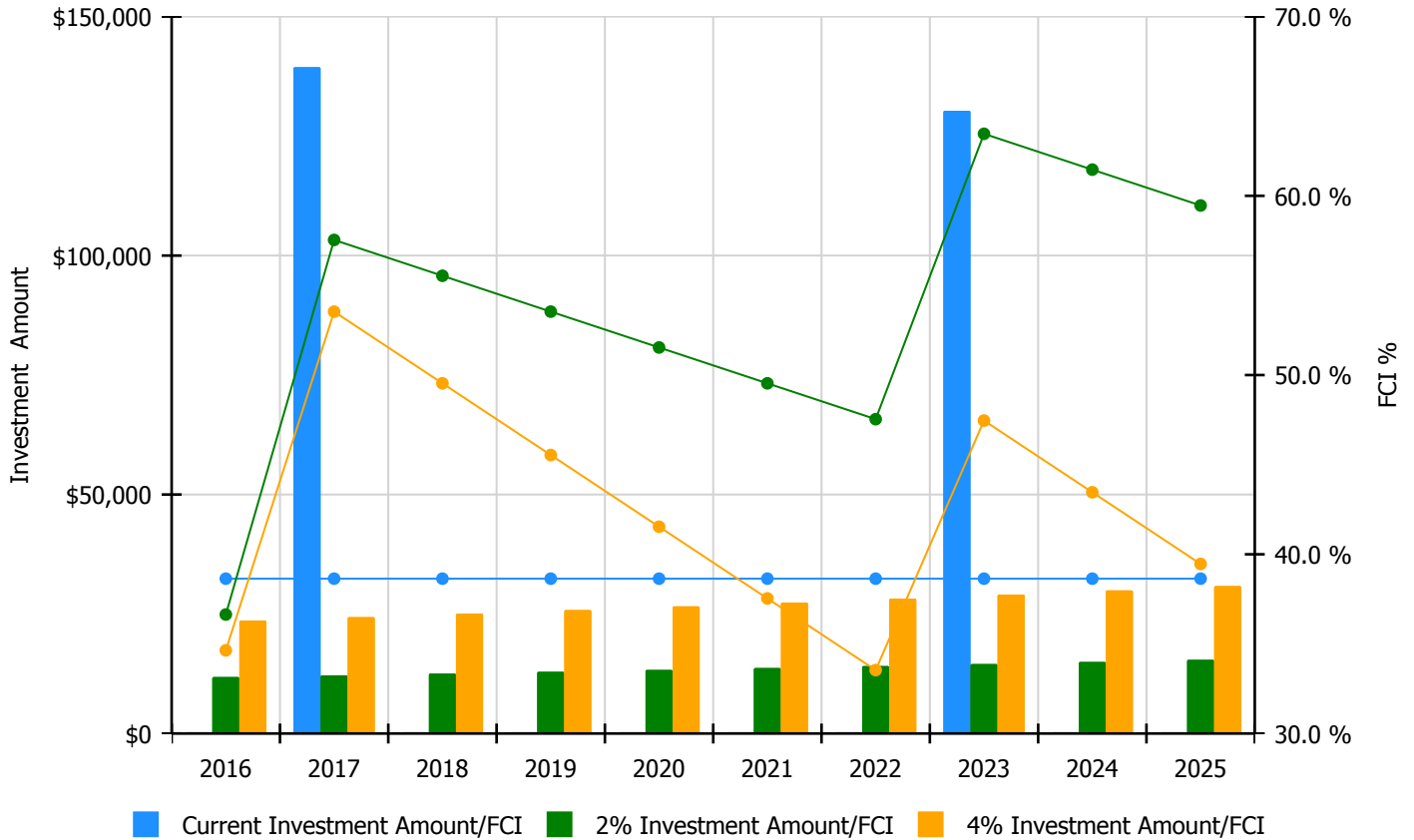


10 Year FCI Forecast by Investment Scenario

The chart below illustrates the effect of various investment levels on the building FCI for the next 10 years. The levels of investment shown below include:

- Current FCI: a variable investment amount based on renewing expired systems to maintain the current FCI for the building
- 2% Investment: an annual investment of 2% of the replacement value of the building, escalated for inflation
- 4% Investment: an annual investment of 4% of the replacement value of the building, escalated for inflation

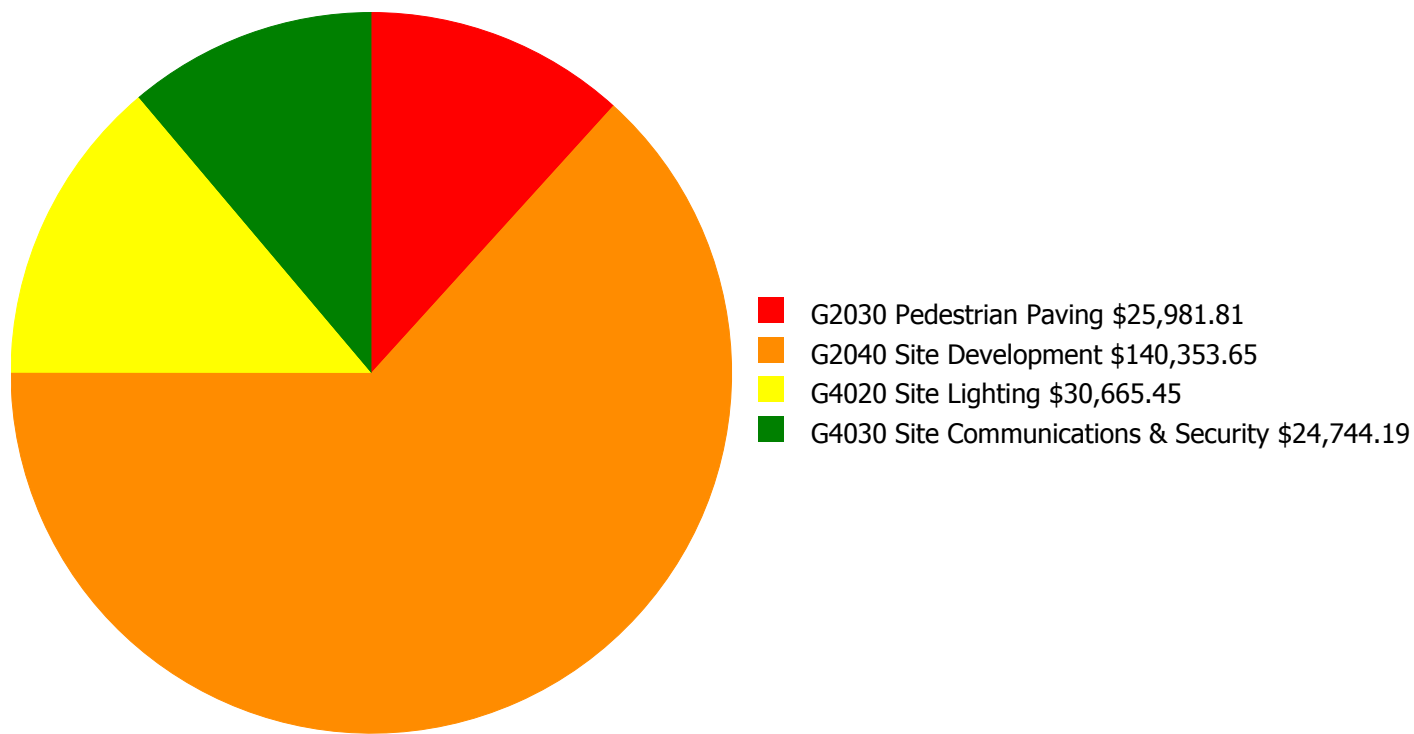
Facility Investment vs. FCI Forecast



Year	Investment Amount Current FCI - 38.64%	2% Investment		4% Investment	
		Amount	FCI	Amount	FCI
2016	\$0	\$11,822.00	36.64 %	\$23,644.00	34.64 %
2017	\$139,413	\$12,177.00	57.54 %	\$24,353.00	53.54 %
2018	\$0	\$12,542.00	55.54 %	\$25,084.00	49.54 %
2019	\$0	\$12,918.00	53.54 %	\$25,836.00	45.54 %
2020	\$0	\$13,306.00	51.54 %	\$26,611.00	41.54 %
2021	\$0	\$13,705.00	49.54 %	\$27,410.00	37.54 %
2022	\$0	\$14,116.00	47.54 %	\$28,232.00	33.54 %
2023	\$130,287	\$14,539.00	63.46 %	\$29,079.00	47.46 %
2024	\$0	\$14,976.00	61.46 %	\$29,951.00	43.46 %
2025	\$0	\$15,425.00	59.46 %	\$30,850.00	39.46 %
Total:	\$269,700	\$135,526.00		\$271,050.00	

Deficiency Summary by System

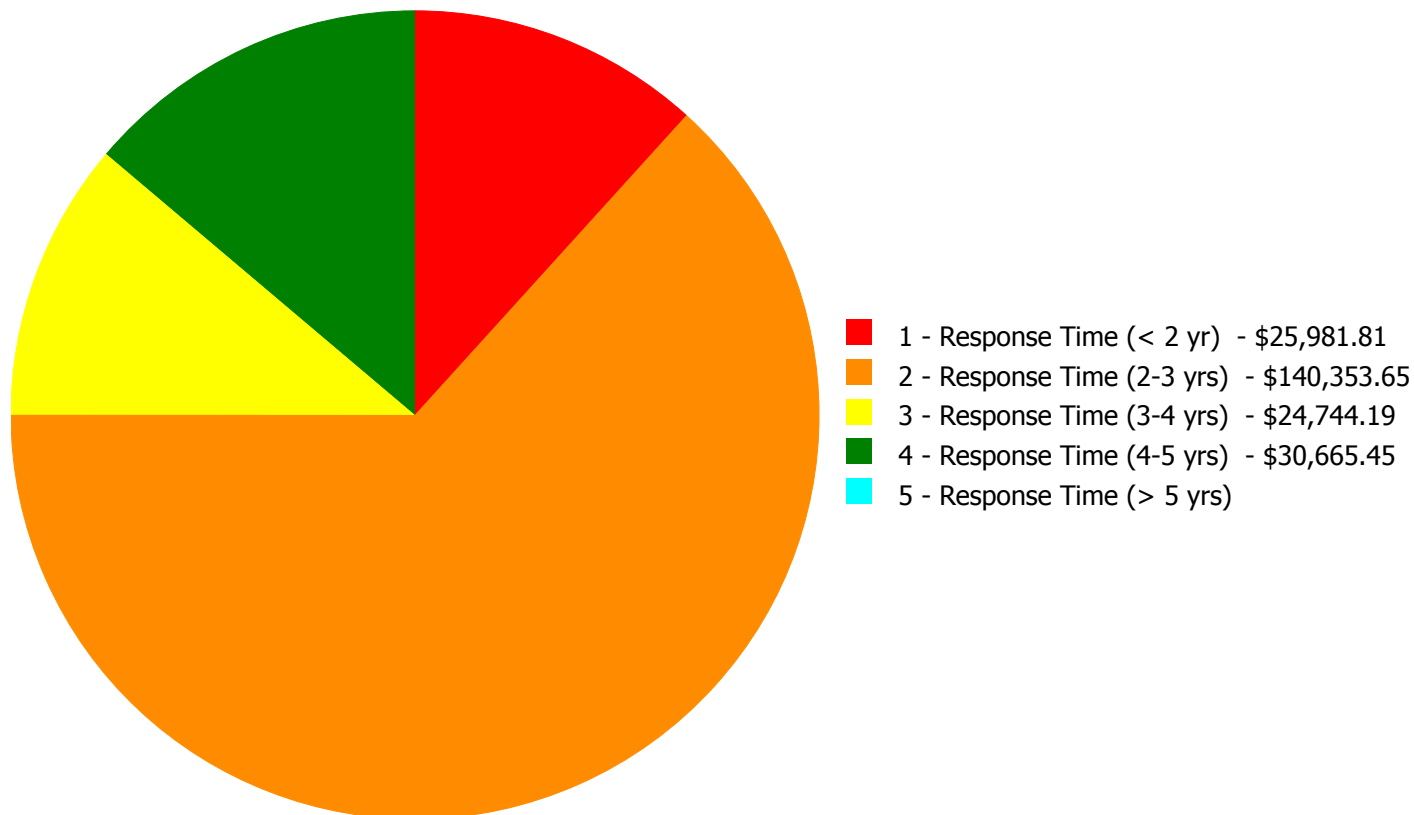
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart lists all current deficiencies associated with this facility.



Budget Estimate Total: \$221,745.10

Deficiency Summary by Priority

The following chart shows the total repair costs broken down by priority. Assessors assigned deficiencies within eCOMET to one of the following priority categories:



Budget Estimate Total: \$221,745.10

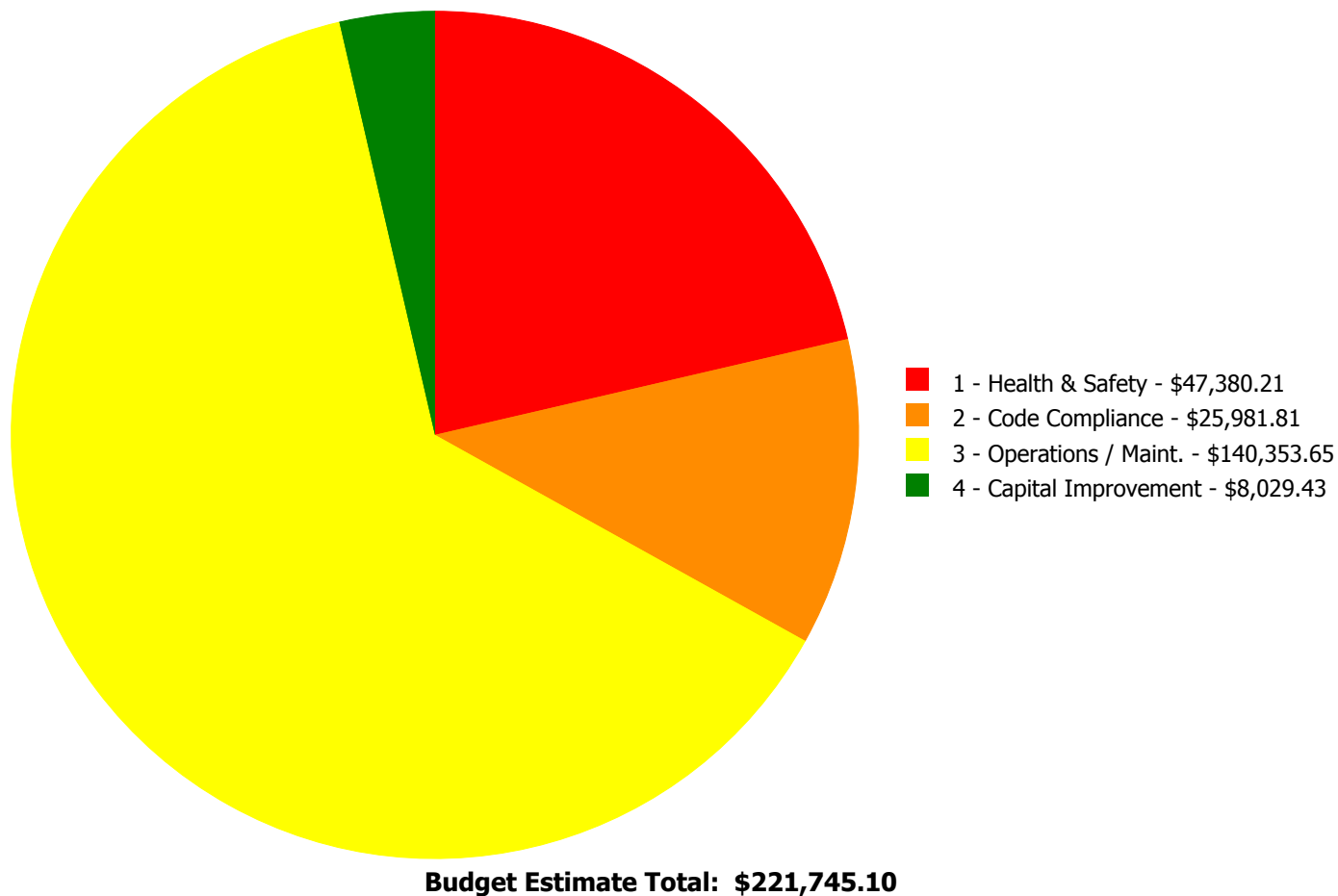
Deficiency By Priority Investment Table

The table below shows the current investment cost grouped by deficiency priority and building system.

System Code	System Description	1 - Response Time (< 2 yr)	2 - Response Time (2-3 yrs)	3 - Response Time (3-4 yrs)	4 - Response Time (4-5 yrs)	5 - Response Time (> 5 yrs)	Total
G2030	Pedestrian Paving	\$25,981.81	\$0.00	\$0.00	\$0.00	\$0.00	\$25,981.81
G2040	Site Development	\$0.00	\$140,353.65	\$0.00	\$0.00	\$0.00	\$140,353.65
G4020	Site Lighting	\$0.00	\$0.00	\$0.00	\$30,665.45	\$0.00	\$30,665.45
G4030	Site Communications & Security	\$0.00	\$0.00	\$24,744.19	\$0.00	\$0.00	\$24,744.19
	Total:	\$25,981.81	\$140,353.65	\$24,744.19	\$30,665.45	\$0.00	\$221,745.10

Deficiency Summary by Category

The following chart shows the total repair costs broken down by deficiency categories. Assessors assigned deficiencies to one of the following categories:



Deficiency Details by Priority

The deficiency detail notes listed below provide additional information on identified deficiencies found within the facility.

Priority 1 - Response Time (< 2 yr):

System: G2030 - Pedestrian Paving



Location: TBD

Distress: Accessibility

Category: 2 - Code Compliance

Priority: 1 - Response Time (< 2 yr)

Correction: Install an exterior ADA ramp - based on 5' wide by the linear foot - up to a 48" rise - per LF of ramp - figure 1 LF per inch of rise

Qty: 20.00

Unit of Measure: L.F.

Estimate: \$25,981.81

Assessor Name: Ben Nixon

Date Created: 10/22/2015

Notes: Provide ADA compliant ramp at one entrance (location TBD)

Priority 2 - Response Time (2-3 yrs):

System: G2040 - Site Development



Location: Site

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace metal picket fence - input number of gates

Qty: 1,000.00

Unit of Measure: L.F.

Estimate: \$140,353.65

Assessor Name: Ben Nixon

Date Created: 10/22/2015

Notes: Replace metal fence and gates for site security - failing

Priority 3 - Response Time (3-4 yrs):

System: G4030 - Site Communications & Security



Location: outdoor

Distress: Security Issue

Category: 1 - Health & Safety

Priority: 3 - Response Time (3-4 yrs)

Correction: Add Video Surveillance System

Qty: 3.00

Unit of Measure: Ea.

Estimate: \$16,714.76

Assessor Name: Ben Nixon

Date Created: 10/15/2015

Notes: Provide (3) CCTV cameras on the south side of the building.

System: G4030 - Site Communications & Security



Location: Outdoor

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 3 - Response Time (3-4 yrs)

Correction: Add Site Paging System

Qty: 2.00

Unit of Measure: Ea.

Estimate: \$8,029.43

Assessor Name: Ben Nixon

Date Created: 10/15/2015

Notes: Provide two PA loud speakers facing the playground area.

Priority 4 - Response Time (4-5 yrs):

System: G4020 - Site Lighting



Location: Outdoor

Distress: Security Issue

Category: 1 - Health & Safety

Priority: 4 - Response Time (4-5 yrs)

Correction: Add site lighting fixtures

Qty: 10.00

Unit of Measure: Ea.

Estimate: \$30,665.45

Assessor Name: Ben Nixon

Date Created: 10/15/2015

Notes: Replace exterior, wall mounted lighting fixtures. Total of 10.

Equipment Inventory

The following table represents the inventory details of the inventory found in the building, which fall under the following subsystems:

No data found for this asset

Glossary

ABMA	American Boiler Manufacturers Association http://www.abma.com/
ACEEE	American Council for an Energy-Efficient Economy
ACGIH	American Council of Governmental and Industrial Hygienists
AEE	Association of Energy Engineers
AFD	Adjustable Frequency Drive
AFTC	After Tax Cash Flow
AGA	American Gas Association
AHU	Air Handling Unit
Amp	Ampere
ANSI	American National Standards Institute
ARI	Air Conditioning and Refrigeration Institute
ASD	Adjustable Speed Drive
ASHRAE	American Society of Heating Refrigerating and Air-Conditioning Engineers Inc.
ASME	American Society of Mechanical Engineers
Assessment	Visual survey of a facility to determine its condition. It involves looking at the age of systems reviewing information from local sources and visual evidence of potential problems to assign a condition rating. It does not include destructive testing of materials or testing of systems or equipment for functionality.
ATS	After Tax Savings
AW	Annual worth
BACNET	Building Automation Control Network
BAS	Building Automation System
BCR	Benefit Cost Ratio
BEP	Business Energy Professional (AEE)
BF	Ballast Factor
BHP	Boiler Horsepower (boilers)
BHP	Brake Horsepower (motors)
BLCC	Building Life Cycle Cost analysis program (FEMP)
BOCA	Building Officials and Code Administrators
BTCF	Before Tax Cash Flow

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BTS	Before Tax Savings
Btu	British thermal unit
Building Addition	An area space or component of a building added to a building after the original building's year built date.
CAA	Clean Air Act
CAAA-90	Clean Air Act Amendments of 1990
CABO	Council of American Building Officials
CAC	Conventional Air Conditioning
CADDET	Center for the Analysis and Dissemination of Demonstrated Energy Technologies
Calculated Next Renewal	The year a system or element would be expected to expire based solely on the date it was installed and the expected useful lifetime for that kind of system.
Capital Renewal	Capital renewal is condition work (excluding suitability and energy audit work) that includes the replacement of building systems or elements (as they become obsolete or beyond their useful life) not normally included in an annual operating budget. Calculated next renewal The year a system or element would be expected to expire based solely on the date it was installed and the expected useful lifetime for that kind of system. Next renewal The assessor adjusted expected useful life of a system or element based on on-site inspection.
CDD	Cooling Degree Days
CDGP	Certified Distributed Generation Professional
CEC	California Energy Commission
CEM	Certified Energy Manager
CEP	Certified Energy Procurement Professional
CFC	Chlorofluorocarbon
CFD	Cash Flow Diagram
CFL	Compact Fluorescent Light
CFM cfm	Cubic Feet per Minute
CHP	Combined Heat and Power (a.k.a. cogeneration)
CHW	Chilled Water
Condition	Condition refers to the state of physical fitness or readiness of a facility system or system element for its intended use.
COP	Coefficient of Performance
Cp	Heat Capacity of Material
CPUC	California Public Utility Commission
CRI	Color Rendering Index
CRT	Cathode Ray Tube VDT HMI

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CTC	Competitive Transition Charge
Cu	Coefficient of Utilization
Current Replacement Value (CRV)	CRV represents the hypothetical total cost of rebuilding or replacing an existing facility in current dollars to its optimal condition (excluding auxiliary facilities) under current codes and construction standards.
Cv	Value Coefficient
CWS	Chilled Water System
D d	Distance (usually feet)
DB	Dry Bulb
DCV	Demand Control Ventilation
DD	Degree Day
DDB	Double Declining Balance
DDC	Direct Digital Controls
Deferred maintenance	Deferred maintenance is condition work (excluding suitability and energy audit needs) deferred on a planned or unplanned basis to a future budget cycle or postponed until funds are available.
Deficiency	A deficiency is a repair item that is damaged missing inadequate or insufficient for an intended purpose.
Delta	Difference
Delta P	Pressure Difference
Delta T	Temperature Difference
DG	Distributed Generation
DOE	Department of Energy
DP	Dew Point
DR	Demand Response
DX	Direct Expansion Air Conditioner
EA	Energy Audit
EBITDA	Earnings before Interest Taxes Depreciation and Amortization
ECI	Energy Cost Index
ECM	Energy Conservation Measure
ECO	Energy Conservation Opportunity
ECPA	Energy Conservation and Production Act
ECR	Energy Conservation Recommendation
ECS	Energy Control System

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EER	Energy Efficiency Ratio
EERE	Energy Efficiency and Renewable Energy division of US DOE
EIA	Energy Information Agency
EIS	Energy Information System
EMCS	Energy Management Computer System
EMO	Energy Management Opportunity
EMP	Energy Management Project
EMR	Energy Management Recommendation
EMS	Energy Management System
Energy Utilization Index (EUI)	EUI is the measure of total energy consumed in the cooling or heating of a building in a period expressed as British thermal unit (BTU) per (cooled or heated) gross square foot.
EO	Executive Order
EPA	Environmental Protection Agency
EPACT	Energy Policy Act of 1992
EPCA	Energy Production and Conservation Act of 1975
EPRI	Electric Power Research Institute
EREN	Efficiency and Renewable Energy (Division of USDOE)
ERV	Energy Recovery Ventilator
ESCO	Energy Service Company
ESPC	Energy Savings Performance Contract
EUI	Energy Use Index
EWG	Exempt Wholesale Generators
Extended Facility Condition Index (EFCI)	EFCI is calculated as the condition needs for the current year plus facility system renewal needs going out to a set time in the future divided by Current Replacement Value.
f	Frequency
F	Fahrenheit
Facility	A facility refers to site(s) building(s) or building addition(s) or combinations thereof that provide a particular service.
Facility Condition Assessment (FCA)	FCA is a process for evaluating the condition of buildings and facilities for programming and budgetary purposes through an on site inspection and evaluation process.
Facility Condition Index (FCI)	FCI is an industry-standard measurement of a facility's condition that is the ratio of the cost to correct a facility's deficiencies to the Current Replacement Value of the facilities. The higher the FCI the poorer the condition of a facility. After an FCI is established for all buildings within a portfolio a building's condition can be ranked relative to other buildings. The FCI may also represent the condition of a portfolio based on the cumulative FCIs of the portfolio's facilities.

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FC	Footcandle
FCA	Fuel Cost Adjustment
FEMIA	Federal Energy Management Improvement Act of 1988
FEMP	Federal Energy Management Program
FERC	Federal Energy Regulatory Commission
FESR	Fuel Energy Savings Ratio
FLA	Full Load Amps
FLF	Facility Load Factor (usually monthly)
FLRPM	Full Load Revolutions per Minute
FMS	Facility Management System
FPM fpm	Feet per Minute (velocity)
FSEC	Florida Solar Energy Center
Ft	Foot
GPM gpm	Gallons per Minute
GRI	Gas Research Institute
Gross Square Feet (GSF)	The size of the enclosed floor space of a building in square feet measured to the outside face of the enclosing wall.
GUI	Graphical User Interface
H h	Enthalpy Btu/lb
HCFC	Hydrochlorofluorocarbons
HDD	Heating Degree days
HFC	Hydrofluorocarbons
HHV	Higher Heating Value
HID	High Intensity Discharge (lamp)
HMI	Human Machine Interface
HMMI	Human Man Machine Interface
HO	High Output (lamp)
HP Hp hp	Horsepower
HPS	High Pressure Sodium (lamp)
HR	Humidity Ratio
Hr hr	Hour

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HRU	Heat Recovery Unit
HVAC	Heating Ventilation and Air-Conditioning
Hz	Hertz
I	Intensity (lumen output of lamp)
I i	Interest rate or Discount rate
IAQ	Indoor Air Quality
ICA	International Cogeneration Alliance
ICBO	International Conference of Buildings Officials
ICC	International Code Council
ICP	Institutional Conservation Program
IECC	International Energy Conservation Code
IEEE	Institute of Electrical and Electronic Engineers
IESNA	Illuminating Engineering Society of North America
Install year	The year a building or system was built or the most recent major renovation date (where a minimum of 70 of the system's Current Replacement Value (CRV) was replaced).
IRP	Integrated Resource Planning
IRR	Internal Rate of Return
ISO	Independent System Operator
ITA	Independent Tariff Administrator
k	Kilo multiple of thousands in SI system
K	Kelvins (color temperature of lamp)
K k	Thermal Conductivity of Material
KVA	Kilovolt Ampere
KVAR	Kilovolt Ampere Reactive
kW	kiloWatt
kWh	kiloWatt hour
L	Length (usually feet)
LCC	Life Cycle Costing
LDC	Local Distribution Company
LEED	Leadership in Energy and Environmental Design
LEED EB	LEED for Existing Buildings

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LEED NC	LEED for new construction
LF	Load Factor
LHV	Lower Heating Value
Life cycle	The period of time that a building or site system or element can be expected to adequately serve its intended function.
LPS	Low Pressure Sodium (lamp)
Lu	Lumen Output of a Lamp or Fixture
M	Mega multiple of millions in SI system
M&V	Measurement and Verification
MACRS	Modified Accelerated Cost Recovery System
MARR	Minimum Attractive Rate of Return
Mbtu	Thousand Btu
MCF	Thousand Cubic Feet (usually of gas)
MEC	Model Energy Code
Mm	Multiple of Thousands in I/P System
MMBtu	Million Btu
MMCS	Maintenance Management Computer System
MMI	Man Machine Interface
MMS	Maintenance Management System
MSE 2000	Management System for Energy 2000 (ANSI Georgia Tech Univ)
MW	MegaWatt
MWH MWh	MegaWatt hour
NAAQS	National Ambient Air Quality Standards
NAESCO	National Association of Energy Service Companies
NAIMA	North American Insulation Manufacturers Association
NEA	National Energy Act of 1978
NECPA	National Energy Conservation Policy Act
NEMA	National Electrical Manufacturer's Association
NERC	North American Electric Reliability Council
Next Renewal	The Next Renewal date is an override of the 'Calculated Next Renewal' date and is based upon the assessor's visual inspection.

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NFPA	National Fire Protection Association
NGPA	National Gas Policy Act of 1978
NLRPM	No Load Revolutions per Minute (speed)
Nn	Equipment or Project lifetime in economic analysis
NOPR	Notice of Proposed Rule Making from FERC
NOx	Nitrogen Oxide Compounds
NPV	Net present value in economic analysis
NREL	National Renewable Energy Laboratory
NUG	Non-Utility Generator
O&M	Operation and Maintenance
OA	Outside Air
ODP	Ozone Depletion Potential
OPAC	Off-Peak Air Conditioning
P	Present value in economic analysis
PBR	Performance Based Rates
PEA	Preliminary Energy Audit
PF	Power Factor
PID	Proportional plus integral plus derivative (control system)
PM	Portfolio Manager in Energy Star rating system
PM	Preventive Maintenance
PoolCo	Power Pool Company or Organization
POU	Point of Use
PQ	Power Quality
PSC	Public Service Commission
PSIA psia	Pounds per square inch absolute (pressure)
PSIG psig	Pounds per square inch gauge (pressure)
PUC	Public Utility Commission
PUHCA	Public Utilities Holding Company Act of 1935
PURPA	Public Utilities Regulatory Policies of 1978
PV	Photovoltaic system

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PV	Present Value
PW	Present Worth
PX	Power Exchange
q	Rate of heat flow in Btu per hour
Q	Heat load due to conduction using degree days
QF	Qualifying Facility
R	Electrical resistance
R	Thermal Resistance
RC	Remote controller
RCR	Room Cavity Ratio
RCRA	Resource Conservation and Recovery Act
Remaining Service Life (RSL)	RSL is the number of years service remaining for a system or equipment item. It is automatically calculated based on the difference between the current year and the 'Calculated Next Renewal' date or the 'Next Renewal' date whichever one is the later date.
Remaining Service Life Index (RSLI)	RSLI is defined as a percentage ratio of the remaining service life of a system. It usually ranges from 0 to 100
REMR	Repair Evaluation Maintenance Rehabilitation (REMR) is a scale used to objectively rank systems based on their condition
Renewal Schedule	A timeline that provides the items that need repair the year in which the repair is needed and the estimated price of the renewal.
RH	Relative Humidity
RLA	Running Load Amps
RMS	Root Mean Square
RO	Reverse Osmosis
ROI	Return on Investment
RPM	Revolutions Per Minute
RTG	Regional Transmission Group
RTO	Regional Transmission Organization
RTP	Real Time Pricing
SBCCI	Southern Building Code Congress International
SC	Scheduling Coordinator
SC	Shading Coefficient
SCADA	Supervisory Control and Data Acquisition Systems

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SEER	Seasonal Energy Efficiency Ratio
SHR	Sensible Heat Ratio
Site	The grounds and utilities roadways landscaping fencing and other typical land improvements needed to support the facility.
Soft Cost	An expense item that is not considered direct construction cost. Soft cost includes architectural engineering financing legal fees and other pre-and-post construction expenses.
SOx	Sulfur Oxide Compounds
SP	Static Pressure
SP SPB	Simple Payback
SPP	Simple Payback Period
SPP	Small Power Producers
STR	Stack Temperature Rise
SV	Specific Volume
System	System refers to building and related site work elements as described by ASTM Uniformat II Classification for Building Elements (E1557-97) a format for classifying major facility elements common to most buildings. Elements usually perform a given function regardless of the design specification construction method or materials used. See also Uniformat II.
T	Temperature
T	Tubular (lamps)
TAA	Technical Assistance Audit
TCP/IP	Transmission Control Protocol/Internet Protocol
TES	Thermal Energy Storage
THD	Total Harmonic Distortion
TOD	Time of Day
TOU	Time of Use
TQM	Total Quality Management
TransCo	Transmission Company
U	Thermal Conductance
UDC	Utility Distribution Company
UL	Underwriters Laboratories
UNIFORMAT II	The ASTM UNIFORMAT II Classification for Building Elements (E1557-97) a format for classifying major facility components common to most buildings.
USGBC	US Green Building Council
v	Specific Volume

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V	Volts Voltage
V	Volume
VAV	Variable Air Volume
VDT	Video Display Terminal
VFD	Variable Frequency Drive
VHO	Very High Output
VSD	Variable Speed Drive
W	Watts
W	Width
WB	Wet bulb
WH Wh	Watt Hours
Year built	The year that a building or addition was originally built based on substantial completion or occupancy.
Z	Electrical Impedance