

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.

Girard School

Governance	DISTRICT	Report Type	Elementary
Address	1800 Snyder Ave. Philadelphia, Pa 19145	Enrollment	589
Phone/Fax	215-952-8554 / 215-952-6397	Grade Range	'00-04'
Website	Www.Philasd.Org/Schools/Girard	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	37.95%	\$13,010,399	\$34,284,037
Building	36.78 %	\$12,168,038	\$33,084,097
Grounds	70.20 %	\$842,361	\$1,199,940

Major Building Systems

Building System	System FCI	Repair Costs	Replacement Cost
Roof (Shows physical condition of roof)	00.00 %	\$0	\$976,887
Exterior Walls (Shows condition of the structural condition of the exterior facade)	00.00 %	\$0	\$2,461,343
Windows (Shows functionality of exterior windows)	111.34 %	\$1,337,228	\$1,200,997
Exterior Doors (Shows condition of exterior doors)	07.23 %	\$6,987	\$96,693
Interior Doors (Classroom doors)	13.08 %	\$30,611	\$234,064
Interior Walls (Paint and Finishes)	15.11 %	\$169,347	\$1,120,975
Plumbing Fixtures	13.92 %	\$125,543	\$901,581
Boilers	02.69 %	\$33,500	\$1,245,009
Chillers/Cooling Towers	65.60 %	\$1,070,907	\$1,632,449
Radiators/Unit Ventilators/HVAC	144.12 %	\$4,131,501	\$2,866,788
Heating/Cooling Controls	158.90 %	\$1,430,530	\$900,248
Electrical Service and Distribution	150.66 %	\$974,509	\$646,845
Lighting	06.35 %	\$146,948	\$2,312,636
Communications and Security (Cameras, Pa System and Fire Alarm)	18.93 %	\$164,001	\$866,238

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
S232001;Girard
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):	66,685
Year Built:	1957
Last Renovation:	
Replacement Value:	\$34,284,037
Repair Cost:	\$13,010,398.82
Total FCI:	37.95 %
Total RSLI:	64.11 %



Description:

Facility Assessment

July 15th, 2015

School District of Philadelphia

Girard Elementary School

1800 Snyder Avenue

Philadelphia, PA 19145

66,685 SF / 696 Students / LN 01

GENERAL

Mr. Richard Toohey, Facility Area Coordinator provided input to the Parsons Assessment team on current problems mainly in the mechanical

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systems, and Mr. Gregory Brady Building Engineer accompanied us on our tour of the school and provided us with detailed information on the building systems and maintenance history.

The 4 story, 66,685 square foot building was originally constructed in 1901 and completely re-built in 1957 for unknown reason. The building has a one level basement.

ARCHITECTURAL/STRUCTURAL SYSTEMS

The main building rests on concrete foundations and bearing walls that are not showing signs of settlement or damage. The main structure consists typically of cast-in-place concrete columns, beams and concrete, one way ribbed slab. The main roof structure consists of concrete one-way slab supported by the main building structure. Main roofing is built up application in good condition. The building envelope is masonry with face brick. Elevations are enhanced minimally with stonework around entrances. All elevations are masonry brick is in good condition. Original windows were replaced in 1990 with extruded aluminum, double hung windows, double glazed with insect/security screens. All windows are generally in good condition but are approaching the end of their useful life. Exterior doors are hollow metal in good condition. Public access and service doors have concrete stoops and stairs. Generally, the building is not accessible per ADA requirements.

Main building partition wall types include CMU in very good condition. Interior doors are hollow metal frames and solid core wood doors in very good condition with hardware not meeting ADA requirements. Doors leading to exit stairways are hollow metal doors and frames in good condition. Fittings include: toilet accessories in good condition; composite plastic toilet partitions, generally in very good condition; handrails and ornamental metals, generally in good condition. Interior identifying signage is typically directly painted on the wall or door in fair condition. Main stair construction is concrete with cast iron nosing and tread in very good condition. Stair railings are painted metal in good condition.

The interior wall finishes are generally painted CMU with glazed brick in stairways and toilets in very good condition and wood panel wainscoting in auditorium in good condition. Generally, paint is in good condition with damaged areas in the basement and utility/storage rooms. Flooring finishes are VCT in classrooms, corridors, and cafeteria generally in good condition with some mismatched areas needing replacement; carpet in one office and IMC in fair condition; concrete in toilets and stairways in good condition. Ceilings are generally painted structural concrete in classrooms, corridors, stairways, toilets, gym, and service/storage areas in good condition and direct mounted acoustic tile in kindergarten classes, IMC, offices, and auditorium in good condition.

The building has one elevator serving 3 main floors and basement.

Institutional and Commercial equipment includes: stage equipment, generally in good condition; gym equipment – basketball backstops, etc. in good condition. Other equipment includes kitchen equipment (heat and serve only), generally in good condition.

Fixed furnishings include: fixed casework in classrooms generally in good condition; window shades/blinds, generally in good condition; fixed auditorium seating is original, generally in good condition with some damaged and missing seats.

MECHANICAL SYSTEMS

Plumbing fixtures throughout the school include floor mounted and wall hung water closets, wall hung urinals, and wall hung lavatories. Flush valves are exposed or embedded in walls depending on location. Faucets have mixing valves with lever handles. Fixtures are not low-flow and consequently are at least 20 years old. They are in good condition and valves are in good repair. They can be expected to last 10 years without needing replacement. The cafeteria has a stainless steel two basin kitchen sink. The teacher's lounge has the original single basin enameled steel kitchen sink with a replacement single lever faucet. Multiple classrooms have laboratory sinks. Janitor closets on each floor have floor level rim mounted service sinks with vacuum breaker faucets. All sinks are functional and will not need replacement in 5 years at least. Water fountains are wall mounted in hallway alcoves and not cooled and not accessible. They should be replaced with accessible type fountains with integral coolers.

City water supply enters the building in the boiler room in a 4" line. There is a heavily rusted gate valve before the meter. It is dripping constantly from the valve body and failure is imminent. It should be replaced immediately. The water meter line and meter-bypass line do not have backflow preventers and those should be installed. Domestic hot and cold water distribution piping is insulated soldered copper of unknown age, and should be inspected more thoroughly to determine condition and remaining lifespan.

Sanitary waste pipe is mostly threaded galvanized pipe which appears to be original to the building but also includes some sections of iron pipe with banded couplers. The building engineer did not report any problems with it, but due to age it should be inspected internally and externally to determine repair requirements. The building has a sewage ejector system with dual pumps. The sump cover is not sealed and the sump room is not ventilated. A slight odor was present. The sump room should have an exhaust fan installed.

Rain water drainage pipe runs inside the building through galvanized threaded pipe. There are no overflow drains for the roof. Due to age the

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drainage pipe should be inspected to determine remaining life, even though no problems were reported and no leaks were observed.

The building heating supply comes from 3 HB Smith model 450 Mills 20 section cast iron boilers with a 2782.1 MBH (83 HP) output capacity each. They are equipped with Power Flame dual fuel burners and installed in 1995. The building engineer reported boiler #3 has been inoperable since March 2012, but one boiler alone has enough capacity to heat the building. The inoperable boiler should be repaired and returned to service. The boilers should not need replacement in the next 10 years. Boiler make-up water is provided by a water softener installed before 2000. Fuel oil is stored in a 600 gallon tank in the boiler room and has dual belt-drive pumps. The condensate return piping discharges into the feedwater supply tank with two pumps discharging into one single line to all three boilers. The feedwater supply line pipes are rusted and corroded and in need of replacement. The original condensate collection tank is abandoned in place behind the new tank.

The teacher lounge, nurse's office, and principal's office have window unit air conditioners. They are outdated and should be removed. The second floor network equipment room is cooled by a split unit air conditioner with a dedicated sump pump for condensate discharge. A 165 ton capacity roof top air-cooled chiller should be installed to cool the entire building.

There are three air handlers which serve the auditorium and gym/lunch room. They were installed before 1978 and should be replaced due to age by new air handlers with heating, cooling, humidification, and dehumidification sections.

The kitchen does not have any fuel burning appliances and has no exhaust hood or built-in fire suppression system. It has an exhaust vent in the ceiling.

The classrooms receive fresh air and heat from unit ventilators and discharge excess air through transfer ducts into the hallways. Unit ventilators include finned tube steam coils. Toilet rooms, hallways, and other rooms are heated by finned tube, natural convection, steam units. They appear to be original to the school, are beyond their expected lifespan, and many are cosmetically damaged. They should be replaced, and new ventilators should include cooling coils.

The building HVAC controls are pneumatic. Some controls malfunction, resulting in pressurization of the auditorium when the fans run. All building controls should be replaced by DDC when unit ventilators and air handlers are replaced and a building automation system installed to integrate all building HVAC systems.

The building does not have a sprinkler system nor standpipes. A sprinkler system should be installed including an engine driven fire pump system if required due to local fire water supply system.

ELECTRICAL SYSTEMS

A medium voltage overhead line most probable on S. Dorrance Street and a transformer with secondary voltage of 120/240 serves this building. The electrical service entrance is located in the basement electrical room which houses the utility main disconnect switch, utility metering 222 MUC 38320 and fusible distribution section. Many other electrical distribution equipment is also housed in the electrical room, including the Fire Alarm Panel and phase convertor transformer. The existing service is too old and has far exceeded its 30 year useful life. It has no extra capacity for expansion or new Heating, Ventilation, Air Conditioning (HVAC) system. The electrical service entrance should be upgraded, using the utility overhead lines and adding a new transformer in a pit outside the building. The new service will be 480V/277V, 3 phase power, approximate 1000 Amperes and will occupy the same space of the existing fusible distribution section. The switchboard would feed a 480V Motor Control Center (MCC) and HVAC equipment, and a 480V 3 phase to 120V/208V 3 phase, 250KVA step-down transformer to feed receptacles, lighting and other smaller loads.

There are 120/240V panel-boards in each floor for lighting and receptacles. These panelboards and associated wiring have exceeded the end of their useful life and are undersized to absorb new loads. The entire distribution system needs to be replaced with new 208/120 volt, 3 phase panelboards and new wiring. The raceway is mainly conduits run above the ceiling. Panel-board's doors are corridor are not locked and represent a potential hazard for students. As a safety issue all panel-boards at corridor on in areas where students are present must be provided with lockable devices.

Except the IMC room the majority of the classrooms are provided with inadequate number the receptacles. 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 are illuminated with pendant mounted fluorescent fixtures with T-8 lamps. Stairways, corridors and restrooms are illuminated with surface mounted commercial/industrial fluorescent fixtures with T-8 lamps. The auditorium is illuminated with pendant, round up light HID fixture. The gymnasium/cafeteria is illuminated with pendant, downlight HID fixture.

The fire alarm control panel (FACP) is manufactured by General Electric EST Quick Start model. The fire alarm system is composed of audio/visual

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devices at corridors and classrooms, pull station at exit doors and smoke detectors at corridors. The Fire alarm system is tested every day in the morning. The fire alarm system is approximate 5 years old and is expected to provide 10 more years of useful service life.

The present telephone system is adequate.

An independent and separate PA system does not exist. School uses the telephone systems for public announcement. This system is working adequately for most part. The obsolete, non-functional devices should be removed from all rooms.

The present clock system is old and manufactured by Simplex, Time Control Center. Parts for this system are not available or are very expensive. A new clock should be provided, wireless, battery operated. The present bell system is working.

There is not television system.

The security system consists of CCTV cameras at stairways and in front of the elevator. The surveillance monitor is located in the principal's office.

The emergency power system consists of a gas powered generator, manufactured by Onan. The present emergency power system serves selected lighting fixtures at the corridor, stairways, auditorium and the gymnasium, it serves the exit signs too. The gas powered generator, already exceeds its useful service life and should be replaced with an outdoor diesel powered generator.

There is adequate UPS in the IT room.

The emergency lighting is obtained via selected lighting fixtures in corridors and stairs. Exit signs are located at each exit door and corridors and are connected to the school emergency system.

Lightning protection system is accomplished with air terminals mounted on the chimney. A study needs to be conducted to verify the air terminals provide the proper coverage.

The school is provided with a traction power elevator. The elevator machine roof is located on the roof. The elevator controller and the elevator motor appears that have been replaced in the last 10 years and is expected to provide 5 more years of useful service life.

The stage lighting dimming control panel is old and has exceeded its service life. Theatrical lighting are ON/OFF from local panel-board. Provide a new dimming control panel.

Auditorium sound system is portable type. Provide a permanent installed sound system sound system

GROUNDS SYSTEMS

The site surrounds the building on all four sides which is set back from the street. Play yard on North side is asphalt paving in poor condition with cracks and large depressions in need of resurfacing. Parking is street side on West side of building in good condition. Chain link fence surrounding play yard is in fair condition. Landscaping covers about 20% of the site and is mature and in good condition.

Accessibility: the building has no accessible entrance, toilets fittings or ADA required door handles

The school parking lot is poorly illuminated. Provide 6 pole mounted fixtures for security

Provide additional (3) CCTV cameras for complete coverage around the building perimeter and parking lot.

Provide two loud speakers for complete coverage of the parking lot and playground.

RECOMMENDATIONS

- Replace windows - past useful life
- Provide ADA compliant exterior door hardware at one entrance
- 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
- Repaint walls in basement
- Replace damaged and mismatched VCT floor tiles (10% of VCT areas)

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- Replace stained and worn carpet (100% of carpeted area)
- Replace broken/missing auditorium seats (20% of capacity)
- Resurface play yard due to large depressed areas and cracks in asphalt paving
- Provide ADA compliant ramp at one entrance (location TBD)
- Replace drinking fountains with accessible fountains with integral coolers.
- Replace failed 4" gate valve on city water entrance line, and install double backflow preventers on water meter and meter-bypass lines.
- Inspect domestic water distribution pipes to determine remaining lifespan.
- Inspect sanitary waste piping to determine condition and repair as needed.
- Install exhaust fan in sewage sump room and seal sump pit cover.
- Inspect rain water drainage pipes.
- Repair inoperable boiler.
- Replace rusted and corroded boiler feedwater supply lines.
- Remove window unit air conditioners.
- Install 165 ton capacity roof top air-cooled chiller.
- Replace air handlers due to age and lack of cooling coils.
- Replace unit ventilators and radiators due to age, damage, and lack of cooling coils.
- Remove pneumatic controls and replace with DDC and BAS.
- The electrical service entrance must be upgraded. The new service will be 480V/277V, 3 phase power, approximate 1000 Amperes and will occupy the same space of the existing fusible distribution section.
- Replace the entire distribution system with new panels and new wiring/conduits. Approximate (14) 208/120V.
- Provide (2)25FT of surface raceways with 24" receptacles on center and two-duplex wall mount receptacles. Approximate 400 receptacles.
- Provide a clock system with wireless, battery operated clocks. Approximate 40 clocks.
- Provide an outdoor diesel powered generator. Approximate 75KW
- Prepare a study to determine if the air terminals installed in the chimney provide the proper coverage to the school.
- The stage lighting controller is old and has exceeded its service life. Theatrical lighting are ON/OFF from local panel-board. Provide a new dimming control panel.
- The auditorium sound system is local/portable amplifier. Provide an up to date sound system
- The school parking lot is poorly illuminated. Provide 6 pole mounted fixtures for security
- Provide additional (3) CCTV cameras for complete coverage around the building perimeter and parking lot.
- Provide two loud speakers for complete coverage of the parking lot and playground.

Attributes:

General Attributes:

Active:	Open	Bldg Lot Tm:	Lot 1 / Tm 3
Status:	Accepted by SDP	Team:	Tm 3
Site ID:	S232001		

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.

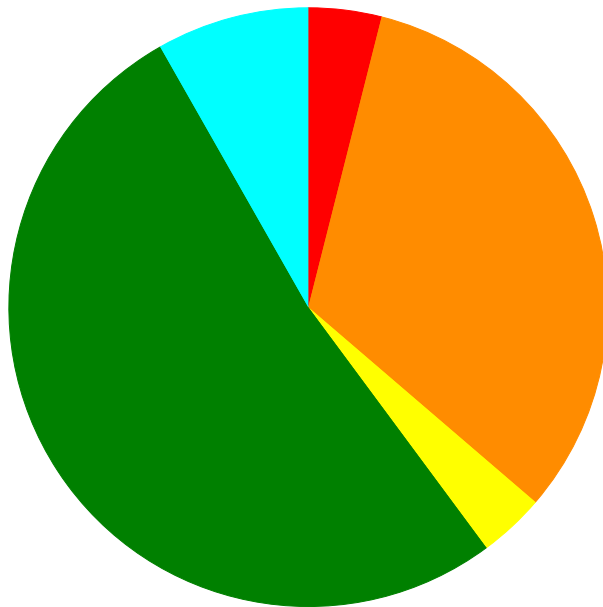
Current Investment Requirement and Condition by Uniformat Classification

UNIFORMAT Classification	RSLI%	FCI %	Current Repair
A10 - Foundations	42.00 %	0.00 %	\$0.00
A20 - Basement Construction	42.00 %	0.00 %	\$0.00
B10 - Superstructure	42.00 %	0.00 %	\$0.00
B20 - Exterior Enclosure	43.99 %	35.76 %	\$1,344,215.47
B30 - Roofing	50.00 %	0.00 %	\$0.00
C10 - Interior Construction	44.16 %	3.23 %	\$52,810.35
C20 - Stairs	42.00 %	0.00 %	\$0.00
C30 - Interior Finishes	50.06 %	8.23 %	\$256,380.62
D10 - Conveying	42.86 %	0.00 %	\$0.00
D20 - Plumbing	29.12 %	80.26 %	\$1,092,906.56
D30 - HVAC	97.22 %	89.94 %	\$6,671,798.95
D40 - Fire Protection	105.71 %	177.49 %	\$953,957.97
D50 - Electrical	110.11 %	36.53 %	\$1,431,835.53
E10 - Equipment	52.82 %	27.66 %	\$293,594.70
E20 - Furnishings	12.50 %	49.66 %	\$70,538.17
G20 - Site Improvements	59.25 %	74.39 %	\$686,850.60
G40 - Site Electrical Utilities	33.33 %	56.21 %	\$155,509.90
Totals:	64.11 %	37.95 %	\$13,010,398.82

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)
B232001;Girard	66,685	36.78	\$493,547.80	\$3,385,245.45	\$464,244.14	\$6,754,094.01	\$1,070,906.92
G232001;Grounds	63,600	70.20	\$19,486.34	\$822,874.16	\$0.00	\$0.00	\$0.00
Total:		37.95	\$513,034.14	\$4,208,119.61	\$464,244.14	\$6,754,094.01	\$1,070,906.92

Deficiencies By Priority



- 1 - Response Time (< 2 yr) - \$513,034.14
- 2 - Response Time (2-3 yrs) - \$4,208,119.61
- 3 - Response Time (3-4 yrs) - \$464,244.14
- 4 - Response Time (4-5 yrs) - \$6,754,094.01
- 5 - Response Time (> 5 yrs) - \$1,070,906.92

Budget Estimate Total: \$13,010,398.82

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):	66,685
Year Built:	1957
Last Renovation:	
Replacement Value:	\$33,084,097
Repair Cost:	\$12,168,038.32
Total FCI:	36.78 %
Total RSLI:	64.51 %

Description:

Attributes:

General Attributes:

Active:	Open	Bldg ID:	B232001
Sewage Ejector:	Yes	Status:	Accepted by SDP
Site ID:	S232001		

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	42.00 %	0.00 %	\$0.00
A20 - Basement Construction	42.00 %	0.00 %	\$0.00
B10 - Superstructure	42.00 %	0.00 %	\$0.00
B20 - Exterior Enclosure	43.99 %	35.76 %	\$1,344,215.47
B30 - Roofing	50.00 %	0.00 %	\$0.00
C10 - Interior Construction	44.16 %	3.23 %	\$52,810.35
C20 - Stairs	42.00 %	0.00 %	\$0.00
C30 - Interior Finishes	50.06 %	8.23 %	\$256,380.62
D10 - Conveying	42.86 %	0.00 %	\$0.00
D20 - Plumbing	29.12 %	80.26 %	\$1,092,906.56
D30 - HVAC	97.22 %	89.94 %	\$6,671,798.95
D40 - Fire Protection	105.71 %	177.49 %	\$953,957.97
D50 - Electrical	110.11 %	36.53 %	\$1,431,835.53
E10 - Equipment	52.82 %	27.66 %	\$293,594.70
E20 - Furnishings	12.50 %	49.66 %	\$70,538.17
Totals:	64.51 %	36.78 %	\$12,168,038.32

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.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$1,227,004
A1030	Slab on Grade	\$7.73	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$515,475
A2010	Basement Excavation	\$6.55	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$436,787
A2020	Basement Walls	\$12.70	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$846,900
B1010	Floor Construction	\$75.10	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$5,008,044
B1020	Roof Construction	\$13.88	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$925,588
B2010	Exterior Walls	\$36.91	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$2,461,343
B2020	Exterior Windows	\$18.01	S.F.	66,685	40	1995	2035		50.00 %	111.34 %	20		\$1,337,228.19	\$1,200,997
B2030	Exterior Doors	\$1.45	S.F.	66,685	25	1995	2020		20.00 %	7.23 %	5		\$6,987.28	\$96,693
B3010105	Built-Up	\$37.76	S.F.	25,765	20	2005	2025		50.00 %	0.00 %	10			\$972,886
B3020	Roof Openings	\$0.06	S.F.	66,685	20	2005	2025		50.00 %	0.00 %	10			\$4,001
C1010	Partitions	\$17.91	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$1,194,328
C1020	Interior Doors	\$3.51	S.F.	66,685	40	1995	2035		50.00 %	13.08 %	20		\$30,611.32	\$234,064
C1030	Fittings	\$3.12	S.F.	66,685	40	1995	2035		50.00 %	10.67 %	20		\$22,199.03	\$208,057
C2010	Stair Construction	\$1.41	S.F.	66,685	100	1957	2057		42.00 %	0.00 %	42			\$94,026
C3010230	Paint & Covering	\$14.29	S.F.	66,685	10	2010	2020		50.00 %	17.77 %	5		\$169,346.93	\$952,929
C3010232	Wall Tile	\$2.52	S.F.	66,685	30	1959	1989	2030	50.00 %	0.00 %	15			\$168,046
C3020411	Carpet	\$7.30	S.F.	1,334	10	1995	2005	2027	120.00 %	153.30 %	12		\$14,928.50	\$9,738
C3020413	Vinyl Flooring	\$9.68	S.F.	60,017	20	2000	2020		25.00 %	12.41 %	5		\$72,105.19	\$580,965
C3020415	Concrete Floor Finishes	\$0.97	S.F.	5,335	50	1995	2045		60.00 %	0.00 %	30			\$5,175
C3030	Ceiling Finishes	\$20.97	S.F.	66,685	25	2005	2030		60.00 %	0.00 %	15			\$1,398,384
D1010	Elevators and Lifts	\$1.53	S.F.	66,685	35	1995	2030		42.86 %	0.00 %	15			\$102,028
D2010	Plumbing Fixtures	\$13.52	S.F.	66,685	35	1959	1994	2025	28.57 %	13.92 %	10		\$125,543.18	\$901,581
D2020	Domestic Water Distribution	\$1.68	S.F.	66,685	25	1959	1984	2023	32.00 %	346.75 %	8		\$388,468.33	\$112,031
D2030	Sanitary Waste	\$2.90	S.F.	66,685	25	1959	1984	2023	32.00 %	146.43 %	8		\$283,185.05	\$193,387
D2040	Rain Water Drainage	\$2.32	S.F.	66,685	30	1959	1989	2023	26.67 %	191.14 %	8		\$295,710.00	\$154,709
D3020	Heat Generating Systems	\$18.67	S.F.	66,685	35	1995	2030		42.86 %	2.69 %	15		\$33,499.67	\$1,245,009
D3030	Cooling Generating Systems	\$24.48	S.F.	66,685	30			2047	106.67 %	65.60 %	32		\$1,070,906.92	\$1,632,449
D3040	Distribution Systems	\$42.99	S.F.	66,685	25	1959	1984	2042	108.00 %	144.12 %	27		\$4,131,500.70	\$2,866,788
D3050	Terminal & Package Units	\$11.60	S.F.	66,685	20	1959	1979	2037	110.00 %	0.69 %	22		\$5,361.41	\$773,546
D3060	Controls & Instrumentation	\$13.50	S.F.	66,685	20	1959	1979	2037	110.00 %	158.90 %	22		\$1,430,530.25	\$900,248
D4010	Sprinklers	\$7.05	S.F.	66,685	35			2052	105.71 %	202.91 %	37		\$953,957.97	\$470,129
D4020	Standpipes	\$1.01	S.F.	66,685	35			2052	105.71 %	0.00 %	37			\$67,352
D5010	Electrical Service/Distribution	\$9.70	S.F.	66,685	30	1959	1989	2047	106.67 %	150.66 %	32		\$974,508.52	\$646,845
D5020	Lighting and Branch Wiring	\$34.68	S.F.	66,685	20	1959	1979	2037	110.00 %	6.35 %	22		\$146,948.40	\$2,312,636
D5030	Communications and Security	\$12.99	S.F.	66,685	15	1959	1974	2032	113.33 %	18.93 %	17		\$164,000.96	\$866,238
D5090	Other Electrical Systems	\$1.41	S.F.	66,685	30	1959	1989	2047	106.67 %	155.68 %	32		\$146,377.65	\$94,026
E1020	Institutional Equipment	\$4.82	S.F.	66,685	35	1995	2030		42.86 %	91.34 %	15		\$293,594.70	\$321,422
E1090	Other Equipment	\$11.10	S.F.	66,685	35	2000	2035		57.14 %	0.00 %	20			\$740,204
E2010	Fixed Furnishings	\$2.13	S.F.	66,685	40	1980	2020		12.50 %	49.66 %	5		\$70,538.17	\$142,039
Total									64.51 %	36.78 %			\$12,168,038.32	\$33,084,097

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: 85% - Paint & Covering 15% - Wall Tile (glazed brick)	
<hr/>	
System: C3020 - Floor Finishes	This system contains no images
Note: 2% - Carpet 90% - Vinyl Flooring 8% - Concrete Floor finishes	
<hr/>	
System: D5010 - Electrical Service/Distribution	This system contains no images
Note: Phase converter (1) 50KVA 240V-120/208V	

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:	\$12,168,038	\$0	\$0	\$0	\$0	\$2,260,456	\$0	\$0	\$641,162	\$0	\$2,776,955	\$17,846,610
* 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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B2020 - Exterior Windows	\$1,337,228	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,337,228
B2030 - Exterior Doors	\$6,987	\$0	\$0	\$0	\$0	\$123,304	\$0	\$0	\$0	\$0	\$0	\$130,291
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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,438,226	\$1,438,226
B3020 - Roof Openings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,915	\$5,915
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	\$30,611	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,611
C1030 - Fittings	\$22,199	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,199
C20 - Stairs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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C2010 - Stair Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
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	\$169,347	\$0	\$0	\$0	\$0	\$1,215,177	\$0	\$0	\$0	\$0	\$0	\$0	\$1,384,524
C3010232 - Wall Tile	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020 - Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020411 - Carpet	\$14,929	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,929
C3020413 - Vinyl Flooring	\$72,105	\$0	\$0	\$0	\$0	\$740,847	\$0	\$0	\$0	\$0	\$0	\$0	\$812,952
C3020415 - Concrete Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3030 - Ceiling Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D20 - Plumbing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D2010 - Plumbing Fixtures	\$125,543	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,332,814	\$0	\$1,458,357
D2020 - Domestic Water Distribution	\$388,468	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$156,109	\$0	\$0	\$0	\$544,577
D2030 - Sanitary Waste	\$283,185	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$269,474	\$0	\$0	\$0	\$552,659
D2040 - Rain Water Drainage	\$295,710	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$215,579	\$0	\$0	\$0	\$511,289
D30 - HVAC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3020 - Heat Generating Systems	\$33,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,500
D3030 - Cooling Generating Systems	\$1,070,907	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,070,907
D3040 - Distribution Systems	\$4,131,501	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,131,501
D3050 - Terminal & Package Units	\$5,361	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,361
D3060 - Controls & Instrumentation	\$1,430,530	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,430,530
D40 - Fire Protection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D4010 - Sprinklers	\$953,958	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$953,958
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	\$974,509	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$974,509
D5020 - Lighting and Branch Wiring	\$146,948	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$146,948
D5030 - Communications and Security	\$164,001	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$164,001
D5090 - Other Electrical Systems	\$146,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$146,378
E - Equipment & Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

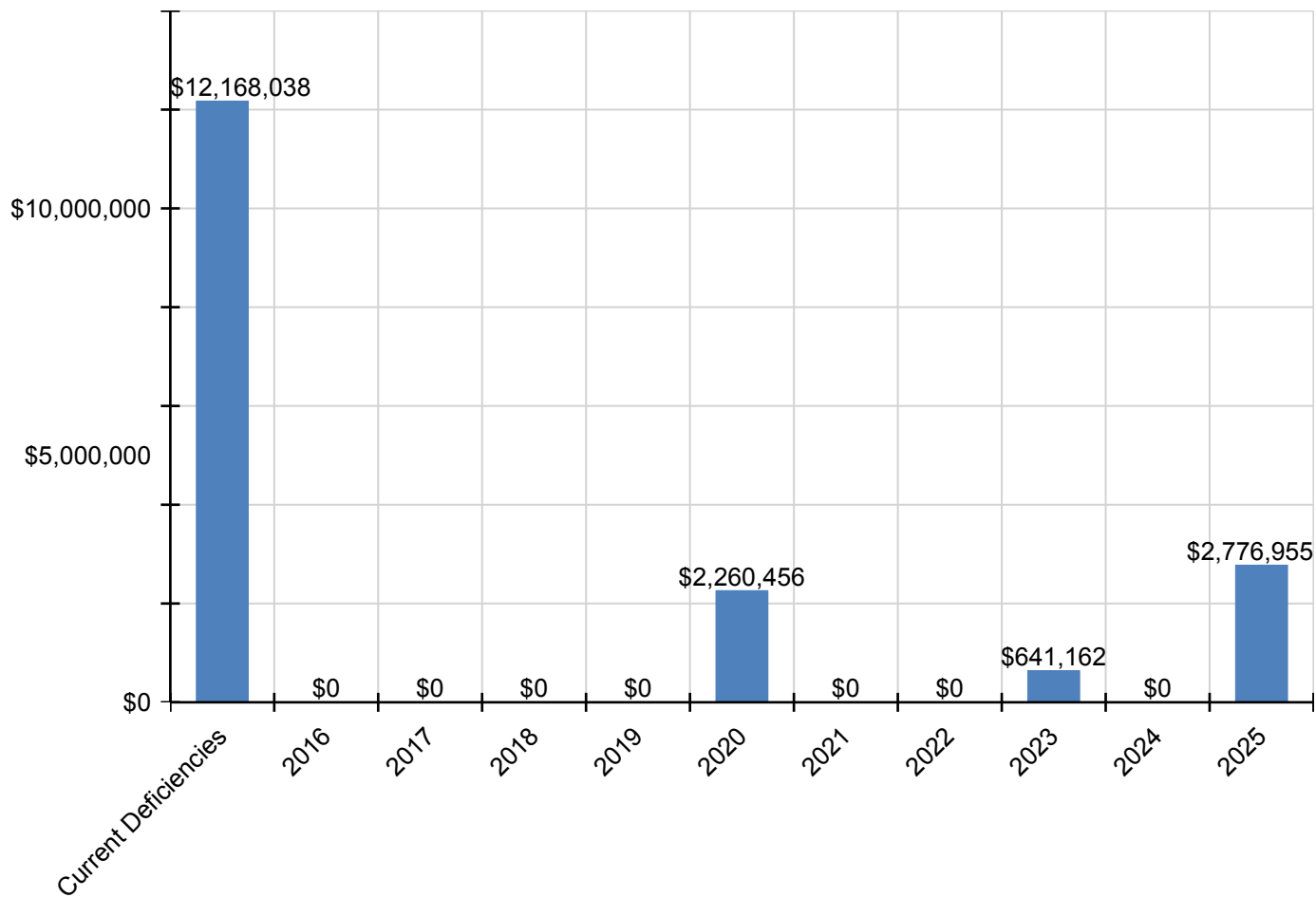
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E10 - Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E1020 - Institutional Equipment	\$293,595	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$293,595
E1090 - Other Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E20 - Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E2010 - Fixed Furnishings	\$70,538	\$0	\$0	\$0	\$0	\$181,128	\$0	\$0	\$0	\$0	\$0	\$0	\$251,667

* Indicates non-renewable system

Forecasted Sustainment Requirement

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

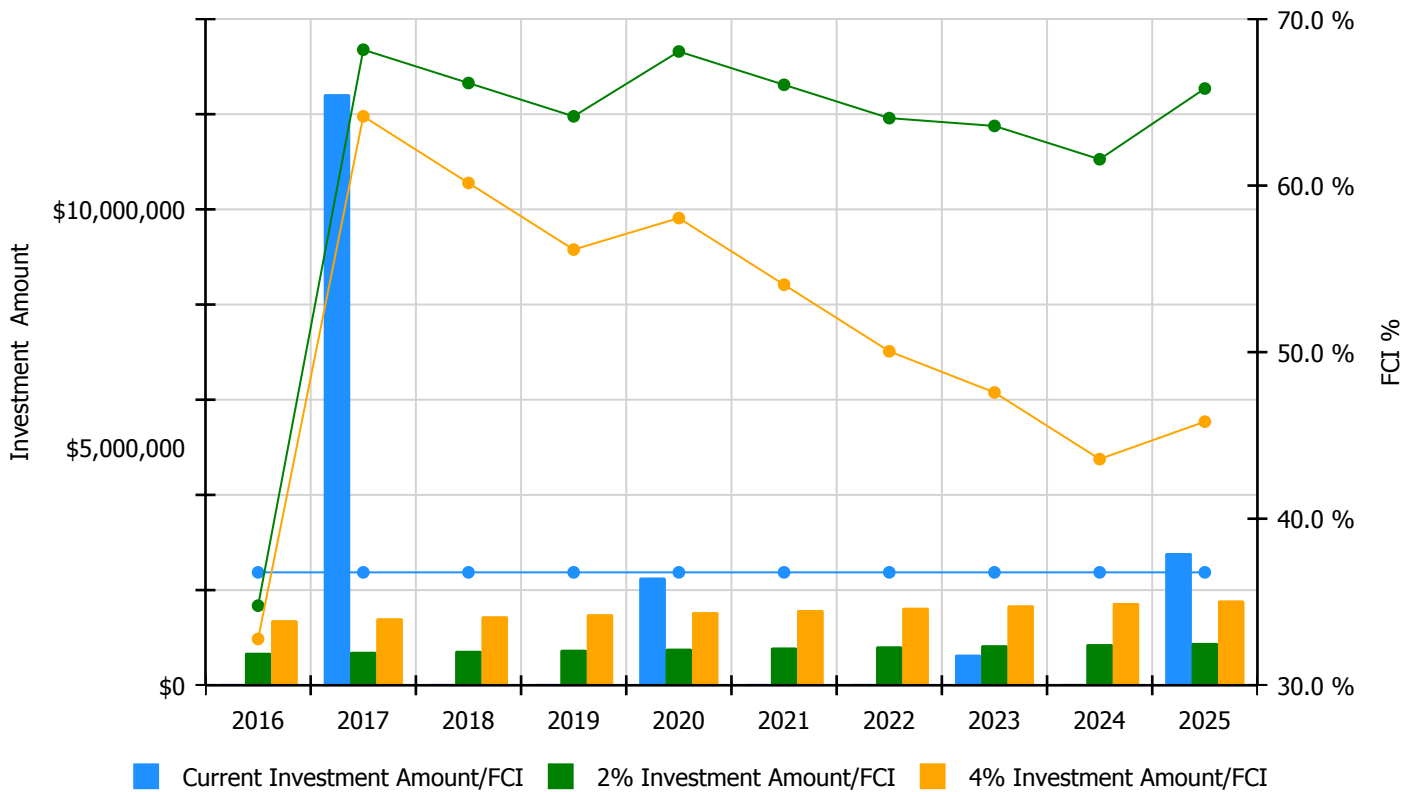


10 Year FCI Forecast by Investment Scenario

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

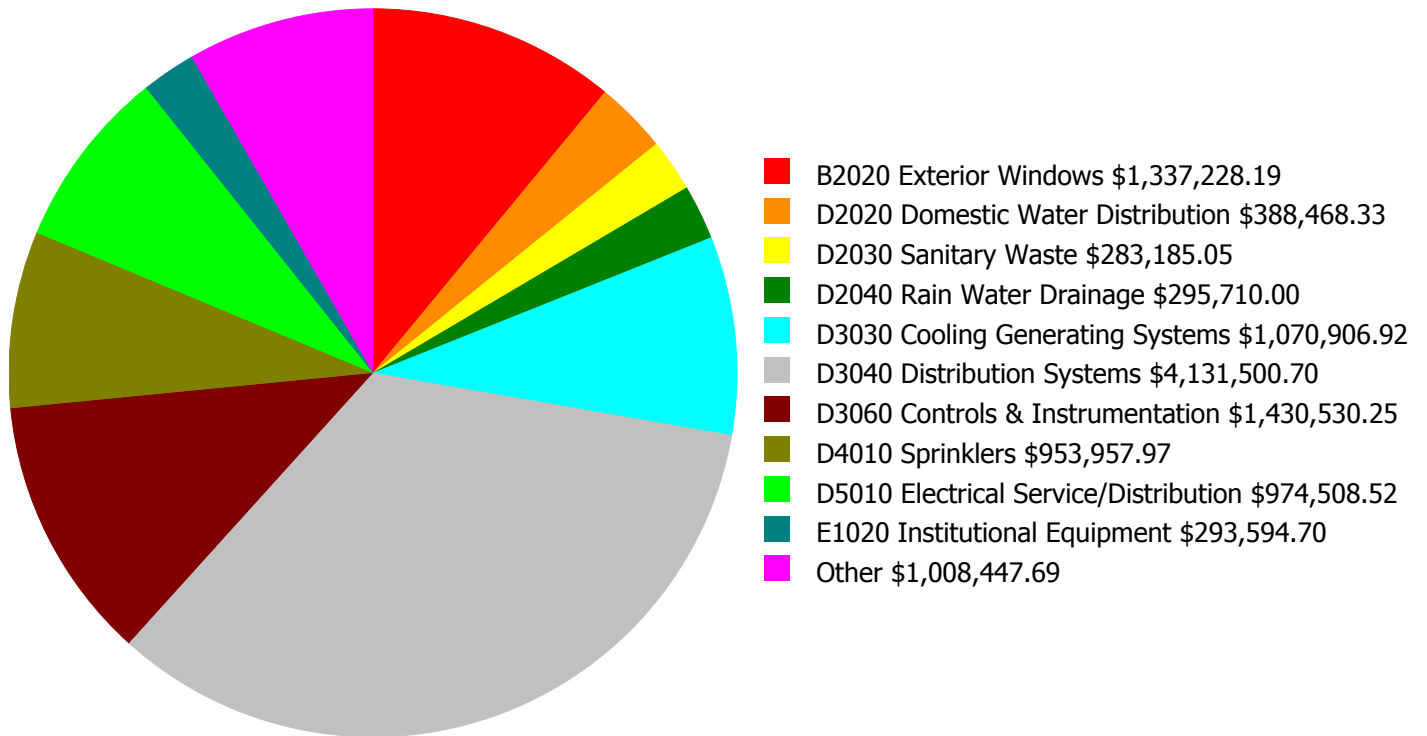
Facility Investment vs. FCI Forecast



Year	Investment Amount Current FCI - 36.78%	2% Investment		4% Investment	
		Amount	FCI	Amount	FCI
2016	\$0	\$681,532.00	34.78 %	\$1,363,065.00	32.78 %
2017	\$12,416,766	\$701,978.00	68.16 %	\$1,403,957.00	64.16 %
2018	\$0	\$723,038.00	66.16 %	\$1,446,075.00	60.16 %
2019	\$0	\$744,729.00	64.16 %	\$1,489,458.00	56.16 %
2020	\$2,260,456	\$767,071.00	68.05 %	\$1,534,141.00	58.05 %
2021	\$0	\$790,083.00	66.05 %	\$1,580,166.00	54.05 %
2022	\$0	\$813,785.00	64.05 %	\$1,627,571.00	50.05 %
2023	\$641,162	\$838,199.00	63.58 %	\$1,676,398.00	47.58 %
2024	\$0	\$863,345.00	61.58 %	\$1,726,690.00	43.58 %
2025	\$2,776,955	\$889,245.00	65.82 %	\$1,778,490.00	45.82 %
Total:	\$18,095,338	\$7,813,005.00		\$15,626,011.00	

Deficiency Summary by System

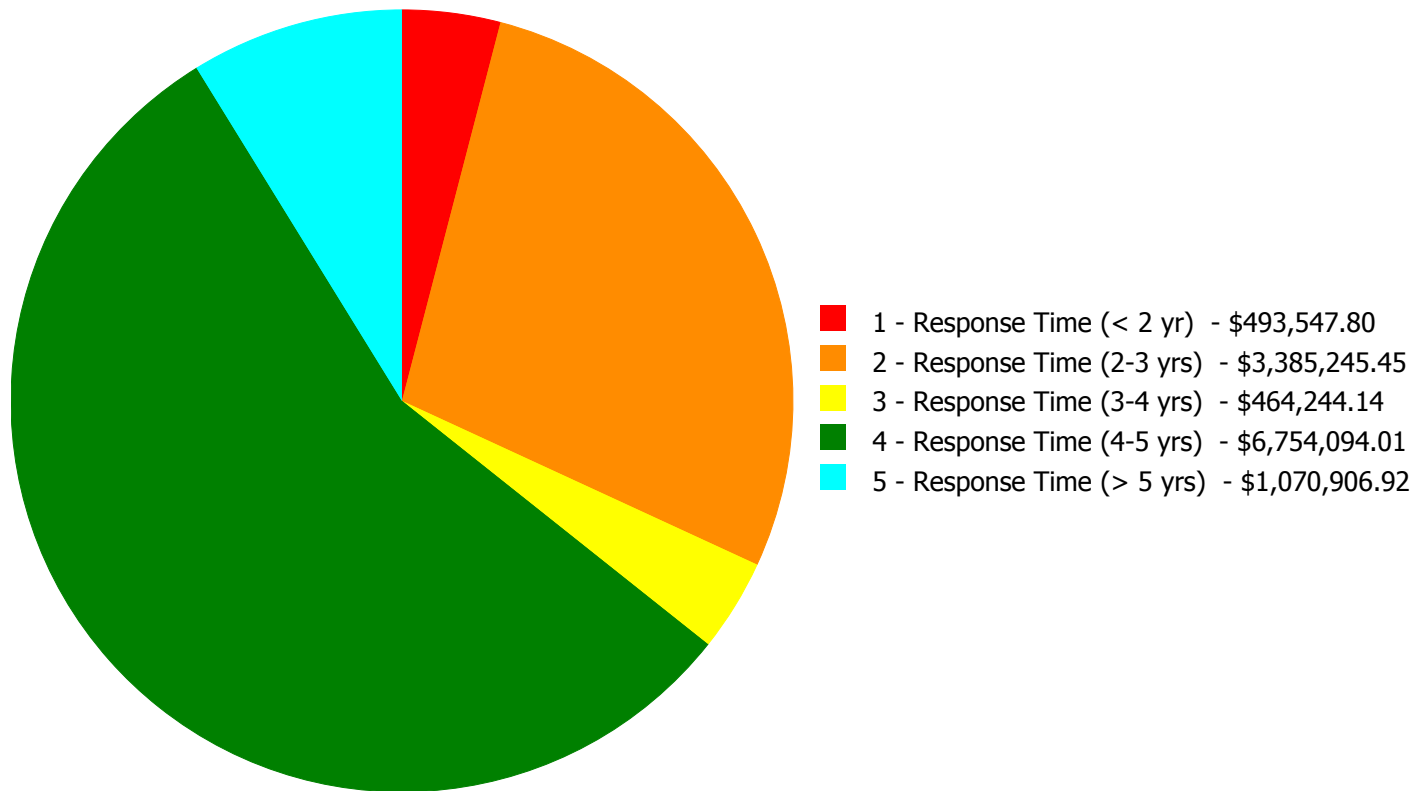
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart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



Budget Estimate Total: \$12,168,038.32

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: \$12,168,038.32

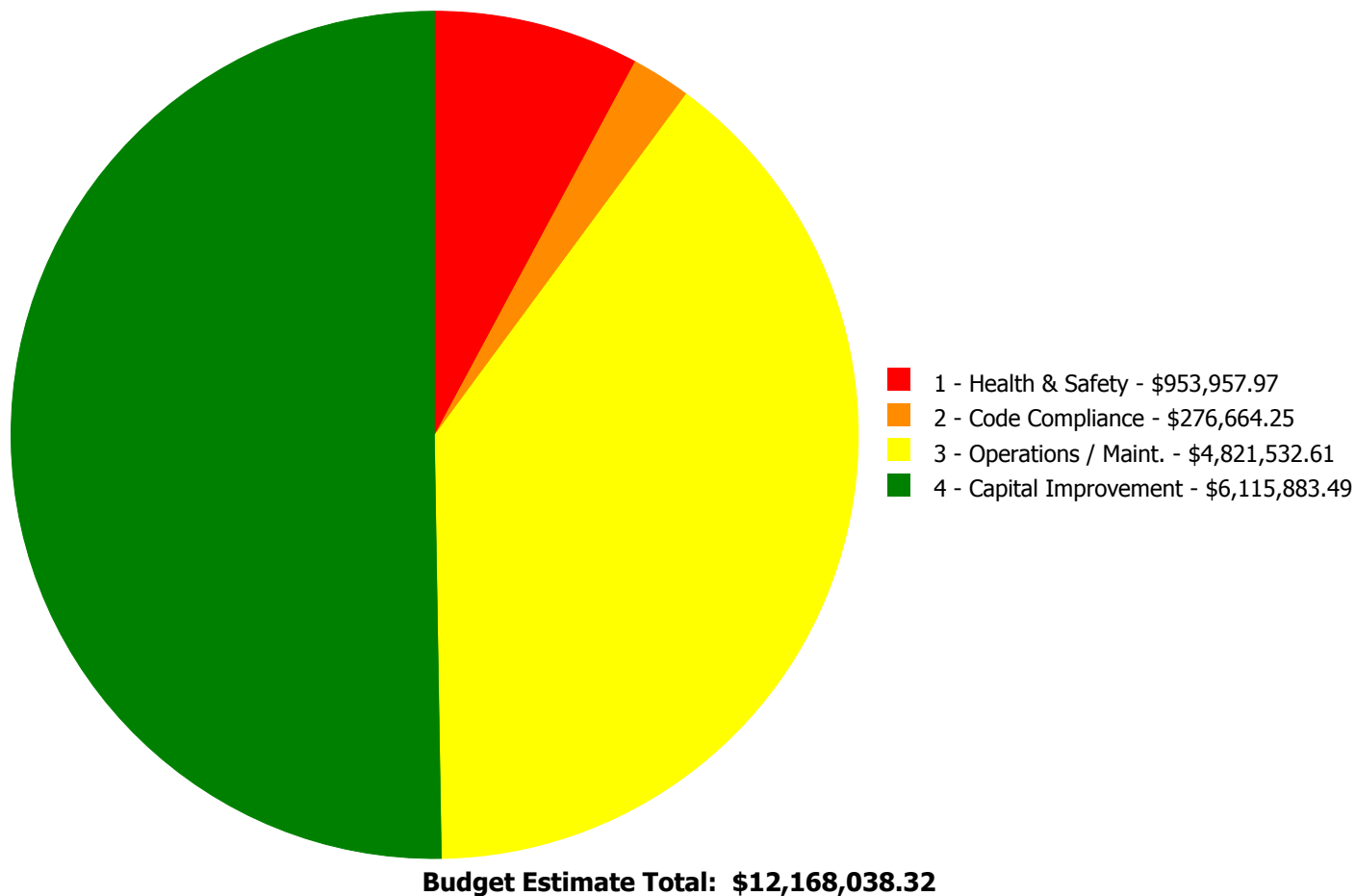
Deficiency By Priority Investment Table

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
B2020	Exterior Windows	\$0.00	\$0.00	\$0.00	\$1,337,228.19	\$0.00	\$1,337,228.19
B2030	Exterior Doors	\$0.00	\$6,987.28	\$0.00	\$0.00	\$0.00	\$6,987.28
C1020	Interior Doors	\$0.00	\$30,611.32	\$0.00	\$0.00	\$0.00	\$30,611.32
C1030	Fittings	\$0.00	\$7,822.84	\$14,376.19	\$0.00	\$0.00	\$22,199.03
C3010230	Paint & Covering	\$0.00	\$169,346.93	\$0.00	\$0.00	\$0.00	\$169,346.93
C3020411	Carpet	\$0.00	\$0.00	\$14,928.50	\$0.00	\$0.00	\$14,928.50
C3020413	Vinyl Flooring	\$0.00	\$0.00	\$72,105.19	\$0.00	\$0.00	\$72,105.19
D2010	Plumbing Fixtures	\$0.00	\$125,543.18	\$0.00	\$0.00	\$0.00	\$125,543.18
D2020	Domestic Water Distribution	\$0.00	\$50,554.73	\$0.00	\$337,913.60	\$0.00	\$388,468.33
D2030	Sanitary Waste	\$0.00	\$0.00	\$283,185.05	\$0.00	\$0.00	\$283,185.05
D2040	Rain Water Drainage	\$0.00	\$295,710.00	\$0.00	\$0.00	\$0.00	\$295,710.00
D3020	Heat Generating Systems	\$0.00	\$0.00	\$9,111.04	\$24,388.63	\$0.00	\$33,499.67
D3030	Cooling Generating Systems	\$0.00	\$0.00	\$0.00	\$0.00	\$1,070,906.92	\$1,070,906.92
D3040	Distribution Systems	\$0.00	\$30,895.08	\$0.00	\$4,100,605.62	\$0.00	\$4,131,500.70
D3050	Terminal & Package Units	\$0.00	\$5,361.41	\$0.00	\$0.00	\$0.00	\$5,361.41
D3060	Controls & Instrumentation	\$0.00	\$1,430,530.25	\$0.00	\$0.00	\$0.00	\$1,430,530.25
D4010	Sprinklers	\$0.00	\$0.00	\$0.00	\$953,957.97	\$0.00	\$953,957.97
D5010	Electrical Service/Distribution	\$493,547.80	\$480,960.72	\$0.00	\$0.00	\$0.00	\$974,508.52
D5020	Lighting and Branch Wiring	\$0.00	\$146,948.40	\$0.00	\$0.00	\$0.00	\$146,948.40
D5030	Communications and Security	\$0.00	\$164,000.96	\$0.00	\$0.00	\$0.00	\$164,000.96
D5090	Other Electrical Systems	\$0.00	\$146,377.65	\$0.00	\$0.00	\$0.00	\$146,377.65
E1020	Institutional Equipment	\$0.00	\$293,594.70	\$0.00	\$0.00	\$0.00	\$293,594.70
E2010	Fixed Furnishings	\$0.00	\$0.00	\$70,538.17	\$0.00	\$0.00	\$70,538.17
	Total:	\$493,547.80	\$3,385,245.45	\$464,244.14	\$6,754,094.01	\$1,070,906.92	\$12,168,038.32

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: D5010 - Electrical Service/Distribution



Location: Basement electrical room

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Replace Switchboard

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$493,547.80

Assessor Name: System

Date Created: 07/31/2015

Notes: The electrical service entrance must be upgraded. The new service will be 480V/277V, 3 phase power, approximate 1000 Amperes and will occupy the same space of the existing fusible distribution section.

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

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.

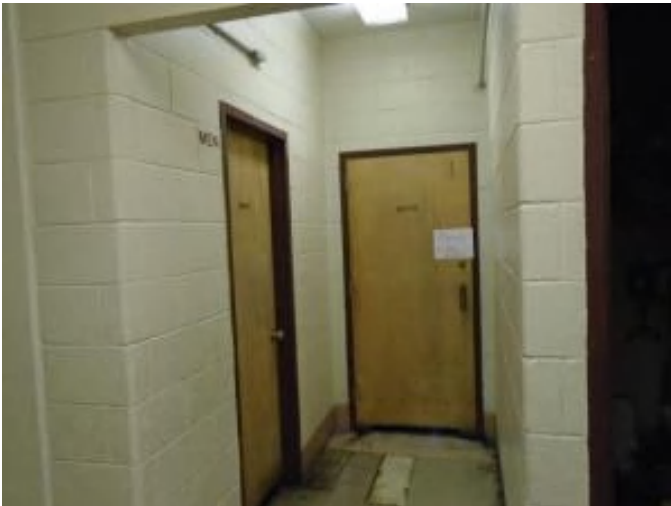
Estimate: \$6,987.28

Assessor Name: System

Date Created: 08/11/2015

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: 55.00

Unit of Measure: Ea.

Estimate: \$30,611.32

Assessor Name: System

Date Created: 08/11/2015

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

System: C1030 - Fittings



Location: Toilets
Distress: Accessibility
Category: 2 - Code Compliance
Priority: 2 - Response Time (2-3 yrs)
Correction: Remove and replace damaged toilet partitions - handicap units
Qty: 8.00
Unit of Measure: Ea.
Estimate: \$7,822.84
Assessor Name: System
Date Created: 08/11/2015

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

System: C3010230 - Paint & Covering



Location: Basement
Distress: Appearance
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Repair and repaint all interior walls - SF of wall surface
Qty: 25,000.00
Unit of Measure: S.F.
Estimate: \$169,346.93
Assessor Name: System
Date Created: 08/11/2015

Notes: Repaint walls in basement

System: D2010 - Plumbing Fixtures



Location: Corridors

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: 8.00

Unit of Measure: Ea.

Estimate: \$125,543.18

Assessor Name: System

Date Created: 08/10/2015

Notes: Replace drinking fountains with accessible fountains with integral coolers.

System: D2020 - Domestic Water Distribution



Location: Boiler room

Distress: Building / MEP Codes

Category: 2 - Code Compliance

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

Correction: Provide 4" reduced pressure back flow preventer

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$50,554.73

Assessor Name: System

Date Created: 08/10/2015

Notes: Replace failed 4" gate valve on city water entrance line, and install double backflow preventers on water meter and meter-bypass lines.

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: 66,685.00

Unit of Measure: S.F.

Estimate: \$295,710.00

Assessor Name: System

Date Created: 08/10/2015

Notes: Inspect rain water drainage pipes.

System: D3040 - Distribution Systems



Location: Sanitary sewer sump room

Distress: Building / MEP Codes

Category: 2 - Code Compliance

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

Correction: Provide inline ceiling exhaust fan and wall outlet louver

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$30,895.08

Assessor Name: System

Date Created: 08/10/2015

Notes: Install exhaust fan in sewage sump room and seal sump pit cover.

System: D3050 - Terminal & Package Units



Location: Offices

Distress: Obsolete

Category: 3 - Operations / Maint.

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

Correction: Remove window air conditioners - replace window - if not required remove the qty. from the window replacement

Qty: 3.00

Unit of Measure: Ea.

Estimate: \$5,361.41

Assessor Name: System

Date Created: 08/10/2015

Notes: Remove window unit air conditioners.

System: D3060 - Controls & Instrumentation



Location: Entire building

Distress: Energy Efficiency

Category: 4 - Capital Improvement

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

Correction: Replace pneumatic controls with DDC (75KSF)

Qty: 66,685.00

Unit of Measure: S.F.

Estimate: \$1,430,530.25

Assessor Name: System

Date Created: 08/10/2015

Notes: Remove pneumatic controls and replace with DDC and BAS.

System: D5010 - Electrical Service/Distribution



Location: Entire Building

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Replace Electrical DIstribution System (U1)

Qty: 14.00

Unit of Measure: Ea.

Estimate: \$480,960.72

Assessor Name: System

Date Created: 07/31/2015

Notes: Replace the entire distribution system with new panels and new wiring/conduits. Approximate (14) 208/120V

System: D5020 - Lighting and Branch Wiring



Location: Classrooms

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Add wiring device

Qty: 400.00

Unit of Measure: Ea.

Estimate: \$146,948.40

Assessor Name: System

Date Created: 07/31/2015

Notes: Provide (2)25FT of surface raceways with 24" receptacles on center and two-duplex wall mount receptacles. Approximate 400 receptacles

System: D5030 - Communications and Security



Location: Entire Building

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Add/Replace Clock System or Components

Qty: 40.00

Unit of Measure: Ea.

Estimate: \$130,720.72

Assessor Name: System

Date Created: 07/31/2015

Notes: Provide a clock system with wireless, battery operated clocks. Approximate 40 clocks

System: D5030 - Communications and Security



Location: Auditorium

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Add/Replace Sound System

Qty: 1.00

Unit of Measure: LS

Estimate: \$33,280.24

Assessor Name: System

Date Created: 07/31/2015

Notes: The auditorium sound system is local/portable amplifier. Provide an up to date sound system

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: \$122,127.83
Assessor Name: System
Date Created: 07/31/2015

Notes: Provide an outdoor diesel powered generator. Approximate 75KW

System: D5090 - Other Electrical Systems



Location: Roof
Distress: Building / MEP Codes
Category: 2 - Code Compliance
Priority: 2 - Response Time (2-3 yrs)
Correction: Repair Lightning Protection System
Qty: 1.00
Unit of Measure: Job
Estimate: \$24,249.82
Assessor Name: System
Date Created: 07/31/2015

Notes: Prepare a study to determine if the air terminals installed in the chimney provide the proper coverage to the school.

System: E1020 - Institutional Equipment



Location: Auditorium

Distress: Obsolete

Category: 3 - Operations / Maint.

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

Correction: Add/Replace Stage Theatrical Lighting System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$293,594.70

Assessor Name: System

Date Created: 07/31/2015

Notes: The stage lighting controller is old and has exceeded its service life. Theatrical lighting are ON/OFF from local panel-board. The entire system should be replaced.

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

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: 100.00
Unit of Measure: Ea.
Estimate: \$14,376.19
Assessor Name: System
Date Created: 08/11/2015

Notes: Install new ID signage

System: C3020411 - Carpet



Location: IMC, office
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Remove and replace carpet
Qty: 1,334.00
Unit of Measure: S.F.
Estimate: \$14,928.50
Assessor Name: System
Date Created: 08/12/2015

Notes: Replace stained and worn carpet (100% of carpeted area)

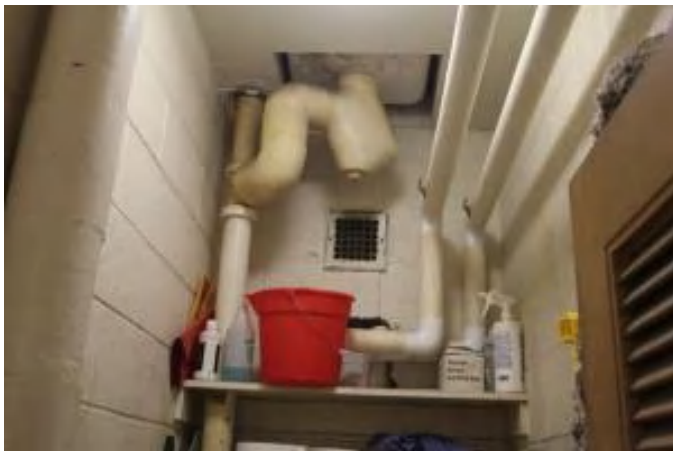
System: C3020413 - Vinyl Flooring



Location: Throughout
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Remove and replace VCT
Qty: 6,000.00
Unit of Measure: S.F.
Estimate: \$72,105.19
Assessor Name: System
Date Created: 08/12/2015

Notes: Replace damaged and mismatched VCT floor tiles (10% of VCT areas)

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. (+100KSF)
Qty: 66,685.00
Unit of Measure: S.F.
Estimate: \$283,185.05
Assessor Name: System
Date Created: 08/10/2015

Notes: Inspect sanitary waste piping to determine condition and repair as needed.

System: D3020 - Heat Generating Systems



Location: Boiler room
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Repair boiler
Qty: 2.00
Unit of Measure: Ea.
Estimate: \$9,111.04
Assessor Name: System
Date Created: 08/10/2015

Notes: Replace rusted and corroded boiler feedwater supply lines.

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: 80.00
Unit of Measure: Ea.
Estimate: \$70,538.17
Assessor Name: System
Date Created: 08/12/2015

Notes: Replace broken/missing auditorium seats (20% of capacity)

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

System: B2020 - Exterior Windows



Location: Throughout

Distress: Energy Efficiency

Category: 4 - Capital Improvement

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

Correction: Remove and replace double slider windows

Qty: 265.00

Unit of Measure: Ea.

Estimate: \$1,337,228.19

Assessor Name: System

Date Created: 08/11/2015

Notes: Replace windows - past useful life

System: D2020 - Domestic Water Distribution



Location: Entire building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace domestic water piping (75 KSF)

Qty: 66,685.00

Unit of Measure: S.F.

Estimate: \$337,913.60

Assessor Name: System

Date Created: 08/10/2015

Notes: Inspect domestic water distribution pipes to determine remaining lifespan.

System: D3020 - Heat Generating Systems



Location: Boiler room
Distress: Failing
Category: 3 - Operations / Maint.
Priority: 4 - Response Time (4-5 yrs)
Correction: Repair boiler
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$24,388.63
Assessor Name: System
Date Created: 08/10/2015

Notes: Repair inoperable boiler.

System: D3040 - Distribution Systems



Location: Classrooms
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 4 - Response Time (4-5 yrs)
Correction: Replace the existing unit ventilators with new units designed to provide adequate ventilation per ASHRAE Std 62 - insert the SF of bldg. in the qty.
Qty: 66,685.00
Unit of Measure: S.F.
Estimate: \$3,245,349.39
Assessor Name: System
Date Created: 08/10/2015

Notes: Replace unit ventilators and radiators due to age, damage, and lack of cooling coils.

System: D3040 - Distribution Systems



Location: Gym and auditorium.

Distress: Inadequate

Category: 4 - Capital Improvement

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

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

Qty: 600.00

Unit of Measure: Seat

Estimate: \$855,256.23

Assessor Name: System

Date Created: 08/10/2015

Notes: Replace three air handlers due to age and lack of cooling coils.

System: D4010 - Sprinklers

This deficiency has no image.

Location: Entire building

Distress: Life Safety / NFPA / PFD

Category: 1 - Health & Safety

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

Correction: Install a fire protection sprinkler system

Qty: 66,685.00

Unit of Measure: S.F.

Estimate: \$953,957.97

Assessor Name: System

Date Created: 08/10/2015

Notes: Install fire sprinkler system including engine driven fire pump if needed.

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: 66,685.00

Unit of Measure: S.F.

Estimate: \$1,070,906.92

Assessor Name: System

Date Created: 08/10/2015

Notes: Install chilled water system with distribution piping and pumps

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
D2030 Sanitary Waste	Pump, sewage ejector, simplex system, polyethylene tank, 87 GPM, .7 H.P., 15' head, 37 gallon, 2" discharge, includes operating and level controls, tank, cover and pump	2.00	Ea.	Basement					25			\$1,368.00	\$3,009.60
D3020 Heat Generating Systems	Boiler, gas/oil combination, cast iron, steam, gross output, 2700 MBH, includes burners, controls and insulated jacket, packaged	3.00	Ea.		HB Smith				35			\$50,376.70	\$166,243.11
D5010 Electrical Service/Distribution	Switchgear installation, incl switchboard, panels & circuit breaker, 120/208 V, 1 phase, 400 A	1.00	Ea.	Basement electrical room					20	1959	2017	\$13,848.30	\$15,233.13
												Total:	\$184,485.84

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):	63,600
Year Built:	1957
Last Renovation:	
Replacement Value:	\$1,199,940
Repair Cost:	\$842,360.50
Total FCI:	70.20 %
Total RSLI:	53.27 %



Description:

Attributes:

General Attributes:

Bldg ID:	S232001	Site ID:	S232001
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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	59.25 %	74.39 %	\$686,850.60
G40 - Site Electrical Utilities	33.33 %	56.21 %	\$155,509.90
Totals:	53.27 %	70.20 %	\$842,360.50

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 \$
G2030	Pedestrian Paving	\$11.52	S.F.	54,500	40	1990	2030		37.50 %	109.40 %	15		\$686,850.60	\$627,840
G2040	Site Development	\$4.36	S.F.	63,600	25	1990	2015	2042	108.00 %	0.00 %	27			\$277,296
G2050	Landscaping & Irrigation	\$3.78	S.F.	4,800	15	1990	2005	2025	66.67 %	0.00 %	10			\$18,144
G4020	Site Lighting	\$3.58	S.F.	63,600	30	1995	2025		33.33 %	45.42 %	10		\$103,420.49	\$227,688
G4030	Site Communications & Security	\$0.77	S.F.	63,600	30	1995	2025		33.33 %	106.37 %	10		\$52,089.41	\$48,972
Total									53.27 %	70.20 %			\$842,360.50	\$1,199,940

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.

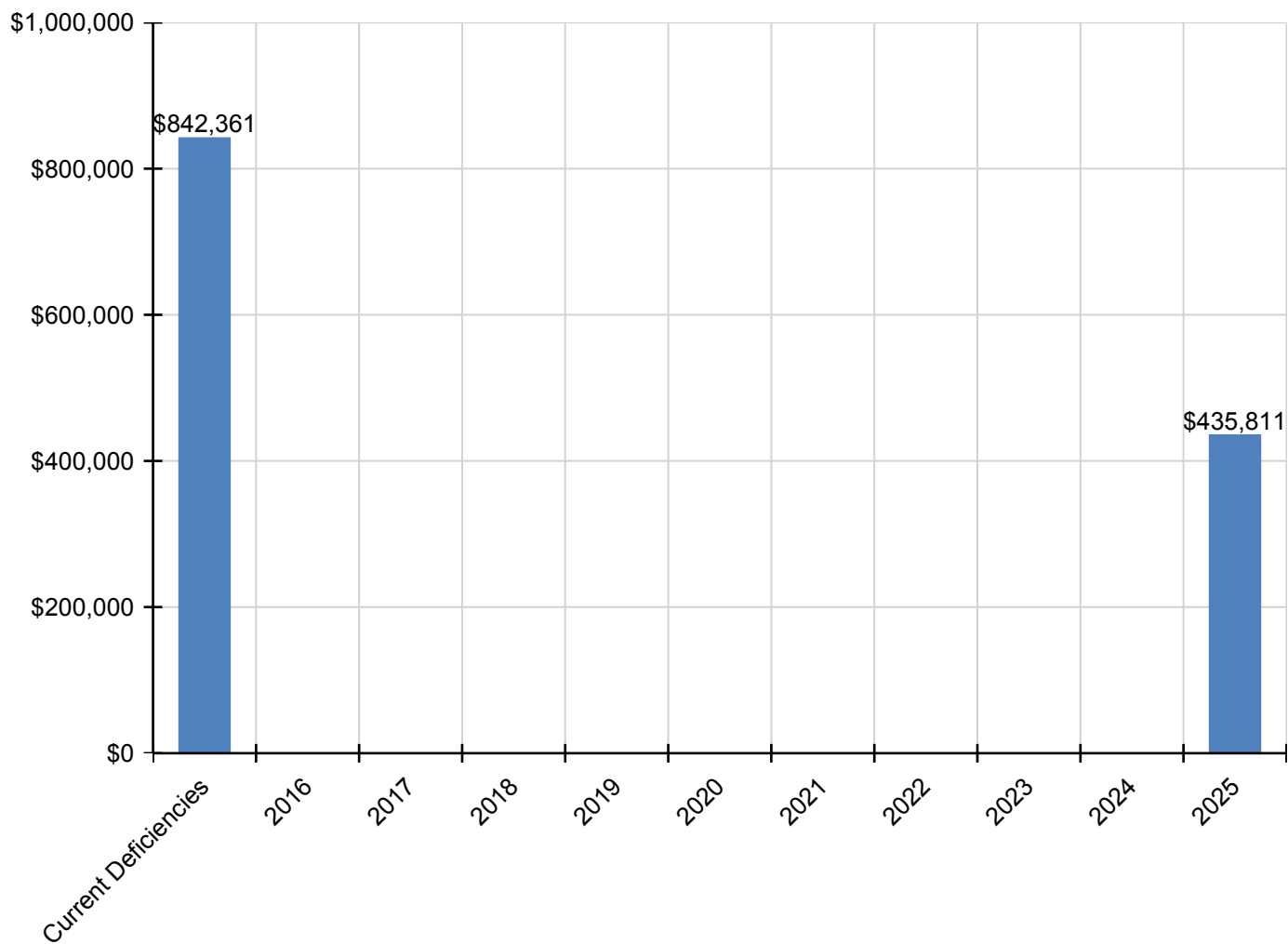
Inflation Rate: 3%

System	Current Deficiencies	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Total:	\$842,361	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$435,811	\$1,278,171
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
G2030 - Pedestrian Paving	\$686,851	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$686,851
G2040 - Site Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G2050 - Landscaping & Irrigation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,822	\$26,822
G40 - Site Electrical Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G4020 - Site Lighting	\$103,420	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$336,593	\$440,014
G4030 - Site Communications & Security	\$52,089	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$72,395	\$124,485

** Indicates non-renewable system*

Forecasted Sustainment Requirement

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

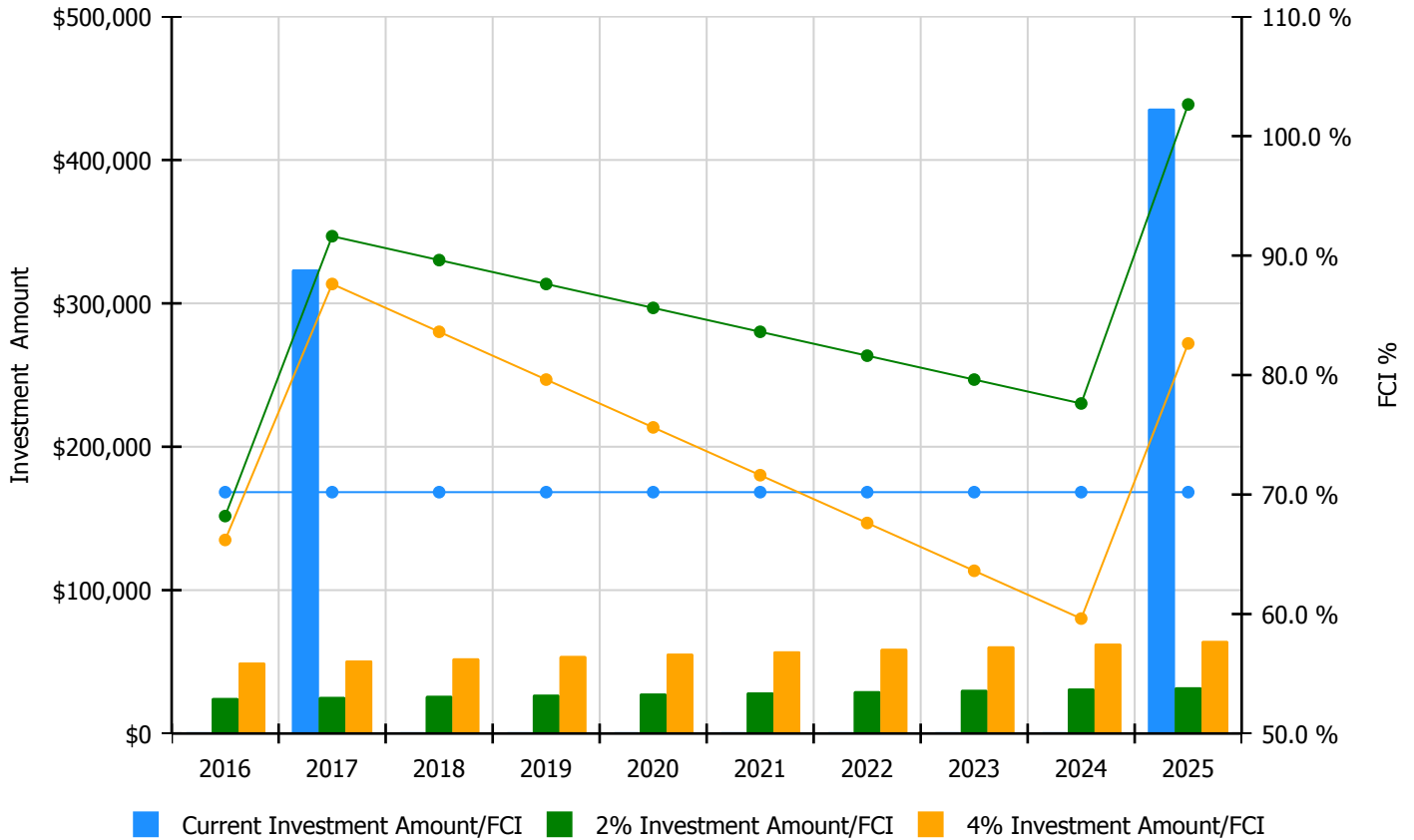


10 Year FCI Forecast by Investment Scenario

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

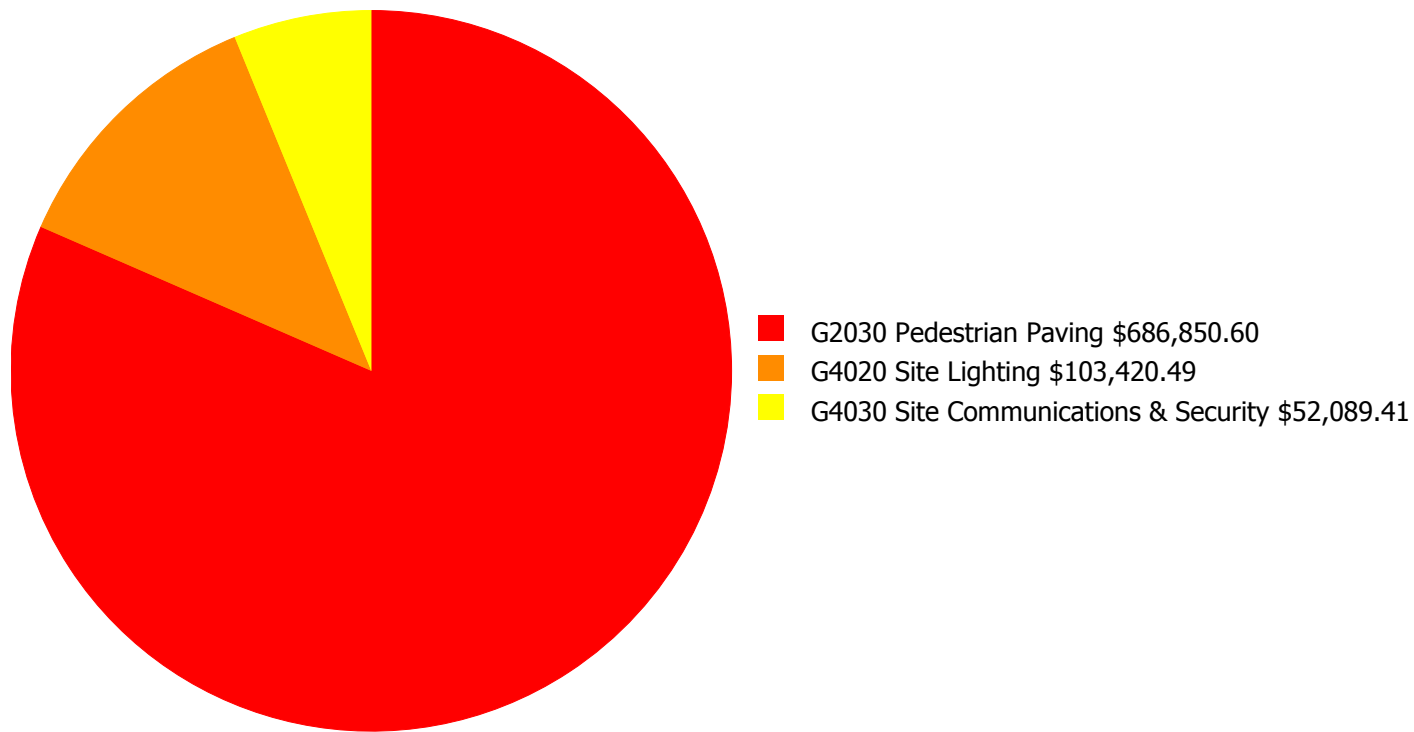
Facility Investment vs. FCI Forecast



Year	Investment Amount Current FCI - 70.2%	2% Investment		4% Investment	
		Amount	FCI	Amount	FCI
2016	\$0	\$24,719.00	68.20 %	\$49,438.00	66.20 %
2017	\$323,602	\$25,460.00	91.62 %	\$50,921.00	87.62 %
2018	\$0	\$26,224.00	89.62 %	\$52,448.00	83.62 %
2019	\$0	\$27,011.00	87.62 %	\$54,022.00	79.62 %
2020	\$0	\$27,821.00	85.62 %	\$55,642.00	75.62 %
2021	\$0	\$28,656.00	83.62 %	\$57,312.00	71.62 %
2022	\$0	\$29,515.00	81.62 %	\$59,031.00	67.62 %
2023	\$0	\$30,401.00	79.62 %	\$60,802.00	63.62 %
2024	\$0	\$31,313.00	77.62 %	\$62,626.00	59.62 %
2025	\$435,811	\$32,252.00	102.65 %	\$64,505.00	82.65 %
Total:	\$759,413	\$283,372.00		\$566,747.00	

Deficiency Summary by System

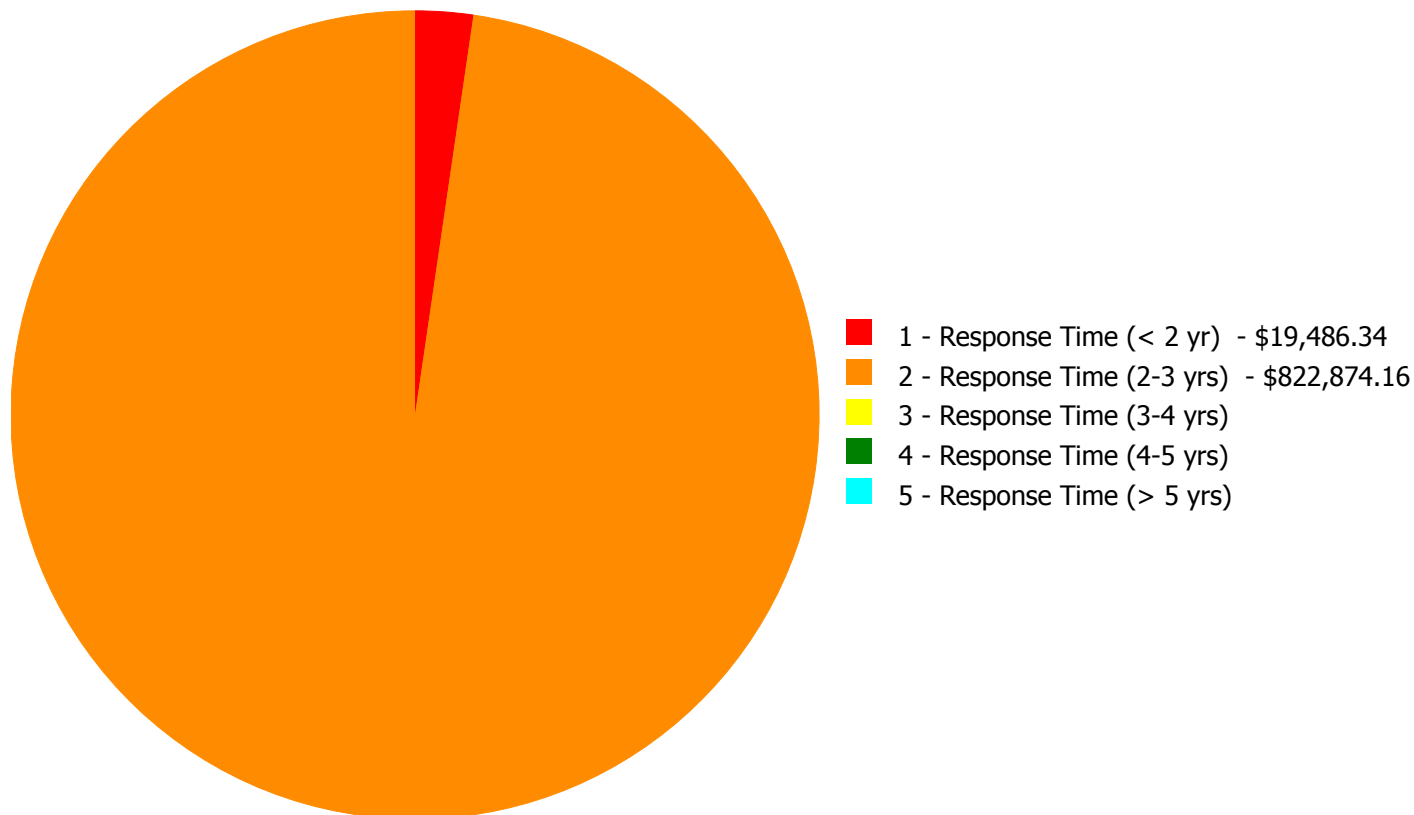
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart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



Budget Estimate Total: \$842,360.50

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: \$842,360.50

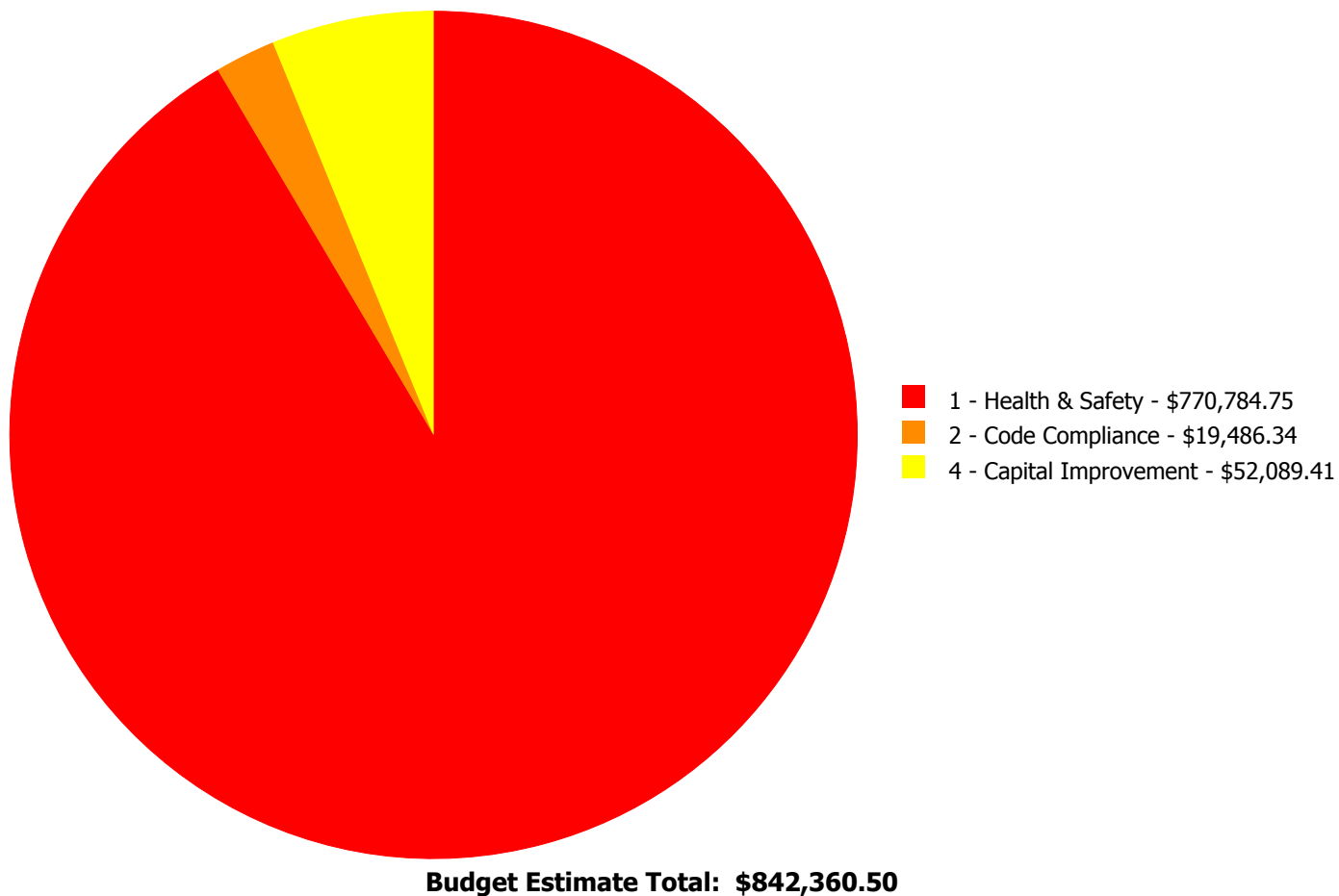
Deficiency By Priority Investment Table

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	\$19,486.34	\$667,364.26	\$0.00	\$0.00	\$0.00	\$686,850.60
G4020	Site Lighting	\$0.00	\$103,420.49	\$0.00	\$0.00	\$0.00	\$103,420.49
G4030	Site Communications & Security	\$0.00	\$52,089.41	\$0.00	\$0.00	\$0.00	\$52,089.41
	Total:	\$19,486.34	\$822,874.16	\$0.00	\$0.00	\$0.00	\$842,360.50

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: Entrance

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: 15.00

Unit of Measure: L.F.

Estimate: \$19,486.34

Assessor Name: Ben Nixon

Date Created: 08/12/2015

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

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

System: G2030 - Pedestrian Paving



Location: Play yard

Distress: Health Hazard / Risk

Category: 1 - Health & Safety

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

Correction: Remove and replace concrete sidewalk or concrete paving - 4" concrete thickness

Qty: 46,400.00

Unit of Measure: S.F.

Estimate: \$667,364.26

Assessor Name: Ben Nixon

Date Created: 08/12/2015

Notes: Resurface play yard due to large depressed areas and cracks in asphalt paving

System: G4020 - Site Lighting



Location: Outdoor

Distress: Security Issue

Category: 1 - Health & Safety

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

Correction: Add Site Lighting - pole mounted - select the proper light and pole

Qty: 6.00

Unit of Measure: Ea.

Estimate: \$103,420.49

Assessor Name: Ben Nixon

Date Created: 07/31/2015

Notes: The school parking lot is poorly illuminated at least 6 pole mounted fixtures are required for security

System: G4030 - Site Communications & Security



Location: Outdoor
Distress: Inadequate
Category: 4 - Capital Improvement
Priority: 2 - Response Time (2-3 yrs)
Correction: Add Video Surveillance System
Qty: 3.00
Unit of Measure: Ea.
Estimate: \$38,663.62
Assessor Name: Ben Nixon
Date Created: 07/31/2015

Notes: Additional (3) CCTV cameras should be provided to provide complete coverage around the building perimeter and parking lot.

System: G4030 - Site Communications & Security



Location: Outdoor
Distress: Inadequate
Category: 4 - Capital Improvement
Priority: 2 - Response Time (2-3 yrs)
Correction: Add Site Paging System
Qty: 2.00
Unit of Measure: Ea.
Estimate: \$13,425.79
Assessor Name: Ben Nixon
Date Created: 07/31/2015

Notes: Two loud speakers should be added to cover the parking lot and playground

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