Facilities Management

5-yr Facilities Master Plan



Ryan Schulz Director of Facilities Management

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Facilities Management Planning Priorities

1. Safety and Mandatory

Internal Observed Safety Items, Illinois School Code, State Laws, Etc

2. Preserve Schools and Grounds

Inspections, Preventative and Predictive Maintenance, Repairs, etc.

3. Extend Life of Schools and Grounds

Capital Improvements

4. Improve Efficiency

HVAC, Electrical, Building Envelope, etc

5. Enhancements

Aesthetic and Other Enhancements



Top Building Needs

First Presented 2018. Items in Orange we're moved up in the master plan due to need and coordination with other scheduled work and added to the list below.

Dryden:



Gym Roof Replacement

Greenbrier:

- Replacement Boilers (Several Years Out)
- Roofing Replacement Several Sections (Several Years Out)

Ivy Hill:

- Replacement Boilers (Several Years Out)
- (1) Air Handler Replacement (Several Years Out)
 Masonry Tuckpointing (Phase 1 Complete 2019)
- Flooring Replacement Corridors

Olive-Mary Stitt:

Flooring Replacement - Corridors / Commons-(Completed 2020)

Restroom Finishes - Several Restrooms (Several Years Out)

Patton:

Playground Replacement (Completed 2019)

Boiler Replacement and Insulation Repairs (Completed 2020)

Galvanized Piping and Restroom Finishes (Completed 2020)

North Parking Lot Replacement

KEY

Completed in Prior Year

Work Began in Prior Years. Projected to Continue in 2021 and Beyond.

Projected to Begin in 2021

South:

✓ Gym / Commons Roof Restoration

Flooring Replacement - Classrooms / Corridors

Bleacher Replacement and Gym Updates

Fire Alarm System Upgrades

Boiler Replacements - Age, Condition and Energy Usage

Air Condition Gyms and Air Handler Replacements

Thomas:

- Roofing Several Sections
- Flooring Replacement 2nd Floor Corridors (Several Years Out)
- Boilers (Several Years Out)
- Lighting Replacement with LED (Lamp Failures and Improve Efficiency)

Westgate

- Galvanized Piping Replacement and Restroom Finishes
- Roofing Large Sections
- Classroom Cabinets and Casework (Removed from Future Plans)
- Air Handling Units and Air Condition Gym

Windsor

Library Roofing (Completed 2019)

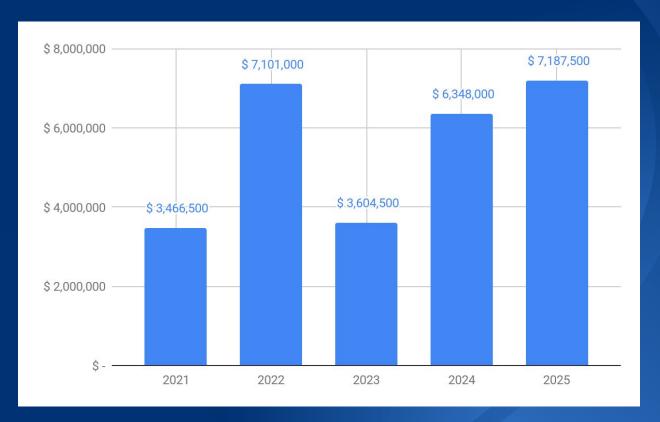
 Corridor and Commons Flooring Replacement Boiler Room Insulation Repairs (Completed 2019)

Dunton:

- Galvanized Piping and Restroom Finishes
- Electrical Main Switchboard Replacement

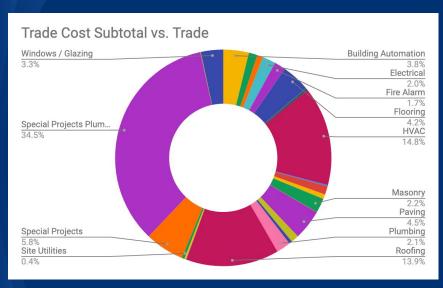


5 Year Facilities Master Plan - Yearly Summary\$ 27,707,500 in Projected 5 year Costs

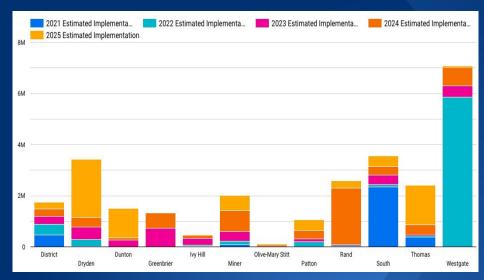


5 Year Facilities Master Plan by Trade and Building

By Trade:



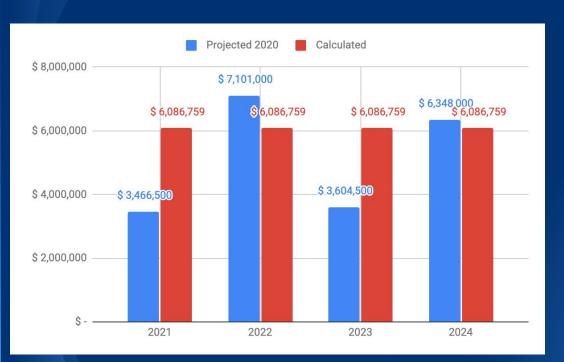
By Building:





5 Year Facilities Master Plan

Projected vs. Calculated Capital Expenditures



*Detailed Information Link

	A a a a t 1 if a
Asset Description	Asset Life Expectancy
Ceilings	20
Doors Frames and Hardware	50
Windows, Glazing and Aluminum Entrances	40
Classroom and Office Casework	40
Lighting	25
Electrical Distribution (Switchgear, Wiring and Terminal Devices	40
Elevators	25
Fire Alarm System	20
Fire Sprinkler System	40
Flooring	15
Stage Curtains	20
Boilers	25
Chillers	20
Air Handling Units	30
Building Automation System	20
HVAC Unit Ventilators	30
HVAC Piping	30
Telephone System	15
Building Envelope - Masonry Tuckpointing, Repairs, etc	30
Painting (Interior Walls, Exterior Lintels and Other Surfaces)	20
Plumbing - Piping and Fixtures	40
Roofing	25
Site Utilities (Storm, Sewer, Water Main)	40
Asphalt Parking Lots and Play Lots	20
Playground Structures	25
Playground Surfaces - Rubber	20

*Life Expectancy Based on BOMA, ASHRAE, District 25 Internal Observations

Financing

- Planning for 2021 summer projects to be funded through operating funds/fund balance
- Last 5-Year Financial Forecast anticipated an average of \$2.7 million per year for capital project spend from operating funds/fund balance
 - Needs are double that amount
 - Further conversation within the next 12 months is needed for large ticket capital needs funding

Exploratory Options

Rough Order of Magnitude Pricing Shown for Reference

- 1. Air Conditioning of Remaining Gymnasiums \$1.5MM-\$2.5MM (South, Greenbrier, Patton, Westgate)
- 2. **Flexible Learning Space Upgrades \$TBD** (District Wide) Strategic Plan. To re-review in next strategic plan and review after current classroom learning environment stabilizes.
- 3. **LED Lighting Upgrades \$2.5MM-\$4MM** (District Wide) Improved Efficiency ~80%, Lighting Quality and Maintainability. Currently estimated at 4-year ROI.
- 4. **Building Automation System Upgrades \$3.2MM-\$4MM** (District Wide) System is nearing the end of its useful life based on age. Component and system support is being phased out by contractor
- 5. Classroom Door Hardware \$TBD (District Wide) Reviewing long-term options for door locksets and access control

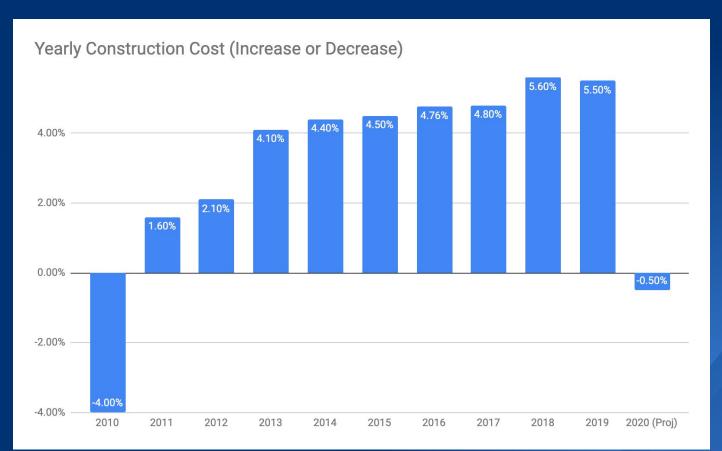
Estimated New Construction Replacement Cost

Total All District Buildings: \$343,660,100



Construction Cost Trends

Accounts for Labor rates and productivity, material prices and the competitive condition of the marketplace





Dunton

Replace degraded galvanized piping throughout **Plumbing Galvanized Piping** building Replacement Upgrade restroom finishes and accessibility Parking lots and sidewalk Parking lots at end of useful life improvements due to age, Improve pedestrian access from parking to building condition, and accessibility. Improve Energy Efficiency 3 **LED Lighting Upgrades** Improve Lighting Quality Complete test fits for best use of space Interior space layout reconfiguration to Survey building occupants on needs enhance team collaboration and to Remove unused HVAC Unit Ventilators and improve the professional office Integrate Storage, etc environment.

Dryden

Explore Replacement of Improve security, access control and user classroom locksets consistency Galvanized plumbing piping **Completed 2020** replacement Improve Energy Efficiency **LED Lighting Upgrades** Improve Lighting Quality Replace ACT Ceilings to enhance appearance Approaching the end of its useful life in corridors Flooring Updates and public spaces **Site Concrete and Drainage** Improve accessibility Improve Drainage **Improvements** Investigate classroom updates Access to technology to meet the needs of future Collaborative spaces Improved Aesthetics learning

Greenbrier

Explore Replacement of Improve security, access control and user classroom locksets consistency Boilers are nearing the end of their useful life Replace Aging Boilers Increase efficiency by exploring newest technology Improve Energy Efficiency Improve Lighting Quality **LED Lighting Upgrades** Replace ACT Ceilings to enhance appearance Access to technology Investigate classroom Collaborative spaces updates to meet the needs Improved Aesthetics of future learning Monitor aging sections for replacement **Roofing Replacements** Adjust Capital Planning Year Accordingly

Ivy Hill

	01	Explore Replacement of classroom locksets	·	Improve security, access control and user consistency
	02	Replace Aging Boilers	:	Boilers are nearing the end of their useful life Increase efficiency by exploring newest technology
	03	Galvanized plumbing piping replacement	:	Piping beyond useful life Piping degradation continues
J. CON	04	Flooring Updates		Approaching the end of its useful life in corridors and public spaces
IILDINC	05	LED Lighting Upgrades	:	Improve Energy Efficiency Improve Lighting Quality Replace ACT Ceilings to enhance appearance
	06	Masonry Restoration	•	Select elevations are requiring masonry restoration due to condition
	07	Investigate classroom updates to meet the needs of future learning	:	Access to technology Collaborative spaces Improved Aesthetics

Olive

Explore Replacement of Improve security, access control and user classroom locksets consistency **Completed 2020** Flooring Updates Improve Energy Efficiency Improve Lighting Quality **LED Lighting Upgrades** Replace ACT Ceilings to enhance appearance Select elevations are requiring masonry restoration **Masonry Restoration** due to condition Investigate classroom Access to technology updates to meet the needs Collaborative spaces Improved Aesthetics of future learning

Patton

Explore Replacement of Improve security, access control and user classroom locksets consistency **Completed 2020 Replace Aging Boilers** Galvanized plumbing piping **Completed 2020** replacement **Completed 2020 LED Lighting Upgrades** Phase 1 Completed 2020 **Replacement of Exterior Additional Phases Needed to Complete EIFS Wall Systems Building Exterior** Investigate classroom Access to technology updates to meet the needs Collaborative spaces Improved Aesthetics of future learning

Rand

BUILDING CONDITION

01	Removal of Remaining Asbestos	 Floor Tiles Ceilings Piping Insulation Etc
02	Replace Galvanized Piping	 Piping beyond useful life Piping degradation continues
03	Interior Finish Updates	 Finishes in bad repair Update to improve facility
04	Classroom Unit Ventilators	 Beyond their expected service life Parts not readily available Improve efficiency
05	Upgrade Electrical Service	 Electrical Distribution System beyond the expected service life Ensure long term reliability
	PODs Roof Replacement	Showing signs of nearing the end of its useful life
07	Masonry Restoration	 Numerous elevations show failing masonry finishes Restoration to ensure longer term reliability and prevent water intrusion

South

	01	Explore Replacement of classroom locksets	Improve security, access control and user consistency
TION	02	Replace Aging Boilers and Air Condition Gyms	Least efficient boiler operation in District Boilers are nearing the end of their useful life Increase efficiency by exploring newest technology Add air conditioning to gyms for consistency across District 25 facilities
CONDITI		Gym Bleacher Replacement	 Original to building in 1997 Showing signs of age and condition issues Update to latest code requirement
JILDING C	04	Phased Roofing Replacement	 Roofing is original to building from 1997 Nearing the end of useful life Adjust capital plan accordingly based on need
BUIL	05	Flooring Upgrades	 Flooring original to building in 1997 Corridors beginning to fail where sunlight has degraded tiles
	06	East Parking Lot Replacement	 Parking lot is in poor condition Nearing lowest condition assessment due to current condition

Thomas

BUILDING CONDITION	01	Explore Replacement of classroom locksets	Improve security, access control and user consistency
	02	Roof Replacement for Band and Music Rooms	Roofs for band and music are nearing the end of their useful life
	03	Courtyard Soffit - North Elevation	✓ Completed 2020
	04	Replace Aging Boilers	 Boilers nearing the end of their expected service life Improve operational efficiency
	05	Flooring Upgrades - 2nd Floor Corridor	 Flooring beginning to show signs of failure due to age and building structure Investigate the appropriate flooring preparation to prevent concrete cracks from telegraphing through on new flooring
	06	LED Lighting Upgrades	 Improve Energy Efficiency Improve Lighting Quality Replace ACT Ceilings to enhance appearance
	07	Investigate classroom updates to meet the needs of future learning	 Access to technology Collaborative spaces Improved Aesthetics
	08	Courtyard Enhancements	Update courtyard landscaping to allow better teaching environment

Westgate

Explore Replacement of Improve security, access control and user classroom locksets consistency Galvanized plumbing 02 Piping beyond useful life piping replacement Piping degradation continues Begin replacement of roofing sections on **Roofing Replacement** central portion of building **Sections** Nearing the end of its useful life Improve Energy Efficiency **LED Lighting Upgrades** Improve Lighting Quality Replace ACT Ceilings to enhance appearance Address failures Flooring Upgrades Inconsistent finishes from north to south end of building Paint gym **Upgrade Gym Finishes** Replace gym pads Due to Age Replace lighting with LED Main parking lot (east) and back parking lot **Parking Lot Upgrades** (west) nearing the end of its useful life Ensure system reliability and future Fire Alarm Upgrades expandability Access to technology Investigate classroom updates to Collaborative spaces meet the needs of future learning Improved Aesthetics

Windsor

Explore Replacement of Improve security, access control and user classroom locksets consistency Approaching the end of its useful life in corridors Flooring Updates and public spaces including 2nd floor corridor Sections of building have wood framed classroom **Update Doors and** doors Hardware Update door hardware to be consistent Improve Lighting Quality and Energy Efficiency in Update to LED Lighting and **Original Portions of Building** Replace ACT Ceilings in Original Building due to Age **Replace ACT Ceilings** and Condition Access to technology Investigate classroom Collaborative spaces updates to meet the needs Improved Aesthetics of future learning