

# **Major Capital Projects:**

# Board of Education monthly progress update

# Facilities Department July 2021













# **Project Timeline**

# Gate Check 1: Five-Year Capital Improvement and Deferred Maintenance Implementation Plan

Work identified in the five-year plan has been prioritized over the represented five-year horizon. Specificity of scope, schedule and budget vary for projects contained in the plan.

**Board action requested:** Approval of prioritization of work as represented in the plan.

# 2. Gate Check 2: Project Charter

The project charter is a product of internal predesign work for projects estimated to be over two million dollars. The project charter contains the defined scope based on the evaluation of building condition, programmatic need, and initial stakeholder engagement. The preliminary schedule and project estimate are included.

**Board action requested:** Approval of the project charter indicating acceptance of the identified scope and understanding of the project schedule and rough order of magnitude of cost. Approval indicates the Board's direction to issue a request for proposal to secure design services.

#### 3. Gate Check 3: Project Budget

Once a project has moved through schematic design, solutions have been identified and developed with sufficient detail to estimate a construction cost and set a final project budget. Finalization of the design and construction drawings will be informed by this budget.

**Board action requested:** Approval of final project budget. Approval indicates the Board's direction to proceed with construction bidding so long as the project remains within the allotted budget.

#### 4. Gate Check 4: Construction Award

Per public procurement practices, work will be advertised for bid and bids will be received by the Purchasing Office and vetted for response compliance. Project consultants will vet the value of bids against anticipated costs and provide the District with a formal recommendation to award based on the lowest responsible bid.

**Board action requested:** Approval of vetted and recommended vendors to award work and enter into contractual agreement for construction.

# 5. Gate Check 5: Project Closeout

This gate check will be presented at the beginning of the project closeout phase and again upon final fiscal closeout of the project. The project closeout period begins at substantial completion of construction. The Substantial Completion certificates indicate beneficial occupancy and shift of focus to completion and inspection of punchlist items and entry into warranty period. There are still outstanding financial obligations during the closeout phase of the project, but an initial evaluation of the overall use of budget can be conducted. The second presentation of this gate check will occur when all contractual obligations are complete and all final payments have been issued. This can occur twelve to eighteen months after completion of construction. Except in the rare circumstance in which Substantial Completion and final closeout occur simultaneously, the Board will see the following two reports during this gate check:

- Gate Check 5.1: Initial Project Closeout (Substantial Completion)
- Gate Check 5.2: Final Project Closeout

**Board action requested:** Acceptance of report(s).

# **Project Financial Information**

- **A.** Rough Order of Magnitude Cost Estimate: In the initial planning phase, the cost of a project gets refined along the way as the scope of work is fine tuned and more in-depth information is gathered on the condition of the building and overall site. Through this process, the initial costing evolves from a rough estimate referred to as a "Rough Order of Magnitude" to a final budget. (Presented to the Board at Gate Check 1 and 2.)
- **B.** Original Budget: Final project budget approved by the Board at Gate Check 3.
- **C. Committed Costs:** Contractual obligation of funds for project work.
- **D.** Invoiced to Date: Invoices are submitted and approved through Procore, the project management environment used by the District. The value represented indicates all invoices submitted and approved by the project team.
- **E.** Construction Award: Total of all construction contracts.
- **F.** Construction Cost Changes: Value of all change orders issued to construction contracts.
- G. Percent Change: Calculation of construction change orders against total construction award.
- **H. Total Forecasted Cost:** Anticipated cost of the fully delivered project at the time of the report including known committed, pending, and potential costs as identified by the project team.
- I. Construction Percent Complete (as invoiced): Percent of completion is calculated based on the value of work in place as indicated on the vetted and approved pay applications submitted by contractors against the total value of construction commitments. As this is based on billed amounts, there is frequently a 30-60 day lag to represent the work in full.



# **American Indian Magnet: July 2021 Project Update**



**Location:** 1075 Third St. E. Saint Paul, MN 55106

**Project website:** 

https://www.spps.org/aimsfmp

**Grades:** PreK-8

Enrollment (SY20-21): 611

# **Project summary**

**Project number: 1160-19-01** 

Funding: Certificates of Participation (COP)

Project type: Addition and renovation

Square footage:

Existing: 103,000 sfProposed: 131,626 sf

## SPPS project team:

Angela Selb-Sack, Senior Project Manager

Larry Opelt, Project Manager

Michelle Bergman Aho, Project Coordinator

Design team: Cuningham Group

**Construction management:** H+U Construction

# **Project scope**

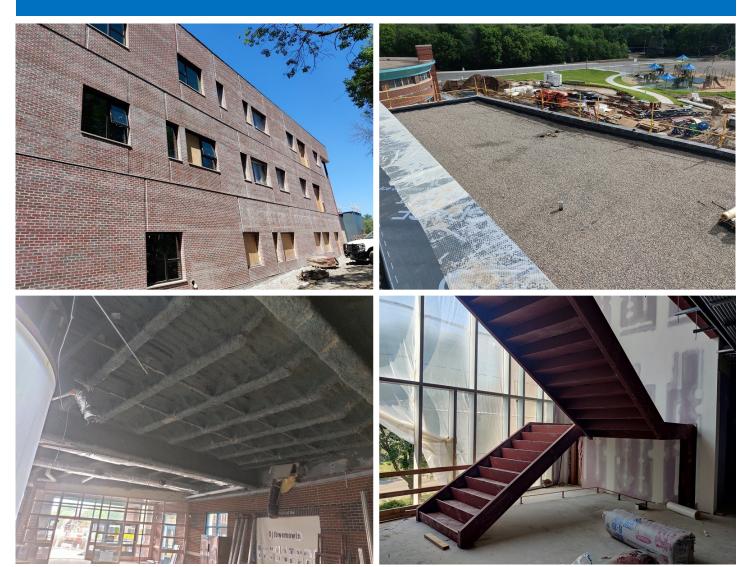
- Additions with new PreK-8th grade classrooms, administration area, media center (Long House), kitchen, and cafeteria.
- New playground and site improvements.
- Renovation of existing building including learning spaces, academic support spaces and restrooms.
- Replacement of all finishes, HVAC and controls, plumbing, lighting, required upgrades to fire suppression and fire alarm systems.

- Brick has been completed on the south side of threestory addition.
- Roofing is completed in new administration wing.
   Mechanical, electrical and plumbing rough-ins are continuing on the interior.
- Ceiling has been removed at the school's old east entrance in preparation for installing the shoring so the curved brick wall can be removed.
- Steel has been installed for the new stairs connecting the addition with the existing four-story building.

	July 2021 - Project Financial Information									
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)			
\$53,300,000	\$43,856,991	\$14,557,170	\$33,756,040	\$724,190	2.15%	\$43,942,741	30.81%			

	Project Timeline								
Phase:	Planning ——	→ Design -		<b></b>	Construction —				
BOE Gate	Five Year	Project	Budget	Contract	Closeout				
Check:	Plan	Charter	Approval	Award					
Key dates:	✓	□	✓	✓	☐				
	Oct. 2018	N/A	Feb. 2020	May 2020	Fall 2024				

# **American Indian Magnet**



From top, then left to right: Brick is completed on the south side of the new three-story addition; roofing is completed on new administration wing; ceiling removed at school's old east entrance; prepping new stairs to connect the addition with the existing four-story building (June 2021)



# **Bridge View School: July 2021 Project Update**



Location:

350 Colborne St., Saint Paul, MN 55102

**Grades:** PreK-12

Enrollment (SY20-21): 123

School website: https://www.spps.org/bridgeview

# **Project summary**

**Project number: 0175-21-01** 

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building system replacement

Square footage:

Existing: N/A; Proposed: N/A

## SPPS project team:

- Vaughn Kelly, Project Manager
- Josie Geiger, Project Coordinator

# Design team:

- Architect: Miller Dunwiddie
- Mechanical and Electrical Engineering: Emanuelson-Podas
- Structural Engineering: BKBM

# **Project scope**

Roofing replacement.

- The contractor is under contract and has begun to study the building in detail with subcontractors. The contractor is finalizing the construction schedule.
- Most of the physical work on site for this summer will take place in August as there is an extended summer school session through July.
- With such a short construction period, work will be limited to indoor piping and, potentially, some small areas of roof replacement.
- NOTE: No recent photos this month.

	July 2021 - Project Financial Information									
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)			
\$5,000,000	\$3,024,156	\$158,161	\$2,848,334	\$0	0%	\$3,024,156	0%			

	Project Timeline							
Phase:	Planning ———	<b>→</b> Desig	gn	<del></del>	Construction —			
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout			
Key dates:	✓		✓	✓				
	Oct. 2018	N/A	March 2021	May 2021	Fall 2022			

# **Bridge View School**







From top to bottom: Bridgeview's existing roof; existing equipment marked for removal; roof access door (May 2021 - No new photos for June)



# **Education and Operations Services\***July 2021 Project Update

Location: 1930 Como Ave., Saint Paul, MN 55108

**Project website:** <a href="https://spps.org/districtservicefacility">https://spps.org/districtservicefacility</a>

\*Formerly known as the District Service Facility.

# **Project summary**

**Project number: 4000-16-01** 

Funding: Certificates of Participation (COP), Capital Bonds

(CAP), Long-Term Facilities Maintenance (LTFM)

Project type: Addition and renovation

Square footage:

Existing: 228,836 sf

Proposed: 248,836 sf

#### SPPS project team:

• Pam Bookhout, Project Manager

Michelle Bergman Aho, Project Coordinator

Design team: TKDA

Construction management: Kraus-Anderson

# **Project scope**

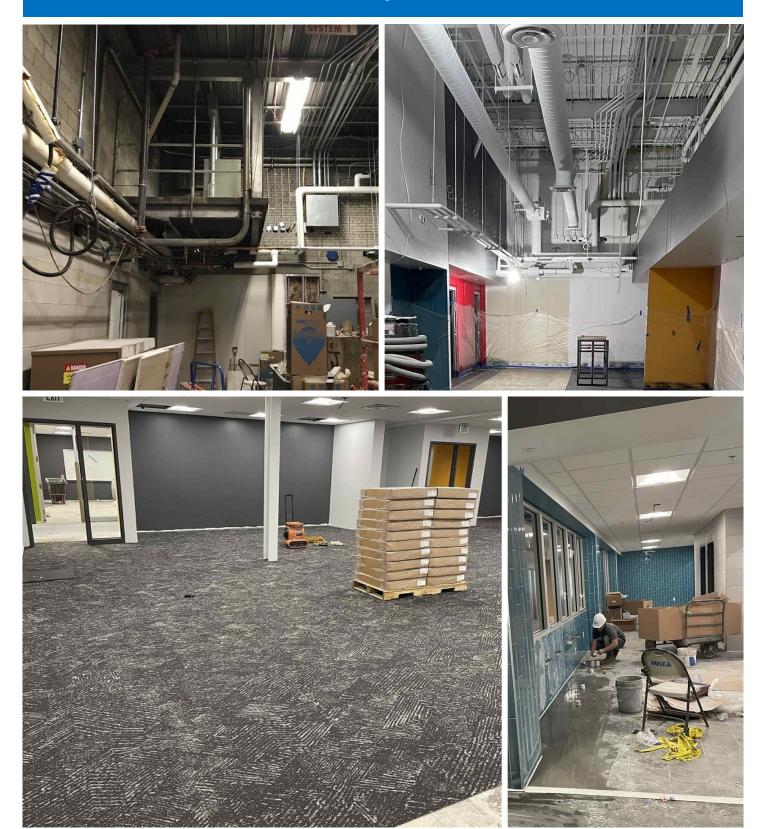
Addition with flexible office space and training center; clear entry, reception desk and improved wayfinding. Teams' spaces for informal and formal collaboration; replacement of all finishes in remodeled areas, new water main, new electrical service, improved lighting and updated restrooms in remodeled areas.

- The new breakroom corridor is taking shape.
   Removing abandoned mechanical, painting and construction of a high table are helping the space feel open and bright. Concrete refinishing in the breakroom corridor is underway.
- Carpet and doors have been installed throughout the new office areas. Restroom fixtures are also being installed.
- The project is on track for substantial completion in early August.

	July 2021 - Project Financial Information									
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)			
\$17,120,000	\$12,733,852	\$10,096,514	\$8,012,346	\$787,593	9.83%	\$12,872,437	81.73%			

	Project Timeline								
Phase:	Planning ——	<b>→</b> Design		-	Construction —				
BOE Gate	Five Year	Project	Budget	Contract	Closeout				
Check:	Plan	Charter	Approval	Award					
Key dates:	✓	□	✓	✓	☐				
	Oct. 2018	N/A	Feb. 2020	May 2020	Fall 2021				

# **Education and Operations Services**



From top then left to right: Before photo of breakroom corridor mechanicals (February 2021); breakroom corridor in progress photo (June 2021); installed carpet (June 2021); restroom tile (June 2021)



# Frost Lake Elementary: July 2021 Project Update



Location:

1505 E. Hoyt Ave. Saint Paul, MN 55106 **Grades:** PreK-5

**Enrollment (SY20-21):** 

498

**Project website:** 

www.spps.org/frostlakefmp

# **Project Summary**

**Project number:** 1100-19-01

**Funding:** Capital Bonds, Long-Term Facilities

Maintenance

**Project type:** Addition and renovation

# Square footage:

Existing: 73,415 sfProposed: 98,493 sf

#### SPPS project team:

Rosemary Dolata, Project Manager

• Michael Christen, Project Coordinator

Design team: U+B Architecture & Design

Construction management: Kraus-Anderson

# **Project Scope**

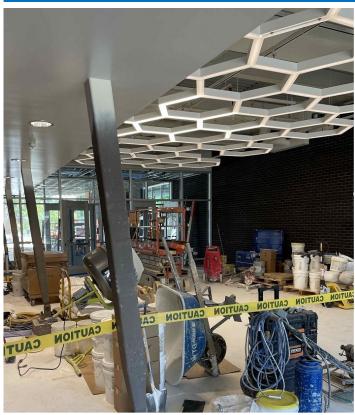
- 32,000 sf addition with new PreK and K classrooms, dividable gym, kitchen, cafeteria, secure main entry and service entrance.
- New playground, re-routed bus traffic and new drop off curb cuts.
- Renovation of existing building with learning and academic support spaces, restrooms; demolition of parks and recreation building connected to school.
- Replacement of all finishes, HVAC and controls, lighting; new fire suppression and fire alarm systems.

- New terrazzo work is nearly complete; existing terrazzo being protected during building renovations.
- Asbestos abatement occurring at beginning of each demolition phase. Demolition currently focused on areas around existing administrative offices and media center, including disconnecting mechanical, electrical and plumbing systems while adjacent areas continue operations.
- Former administrative office area to become school's new media center. Playground construction is ongoing; ground surfacing to be placed in early July.

	July 2021 - Project Financial Information									
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)			
\$36,000,000	\$23,703,864	\$13,738,017	\$17,650,292	\$508,085	2.88%	\$23,809,936	55.64%			

	Project Timeline								
Phase:	Planning——	Design		<del></del>	Construction —				
BOE Gate	Five Year	Project	Budget	Contract	Closeout				
Check:	Plan	Charter	Approval	Award					
Key dates:	✓	□	✓	✓	☐				
	Oct. 2018	N/A	Dec. 2019	May 2020	Aug. 2022				

# **Frost Lake Elementary**













From top then left to right:

New secure entry lobby; existing protected terrazzo; empty classroom ready for an update; new playground; former administrative office area being prepped for future media center (June 2021)



# **Humboldt High School: July 2021 Project Update**



Location:

30 Baker St. E. St Paul, MN 55107 Grades: 6-12

Enrollment (SY20-21):

1,103

**Project website:** 

http://www.spps.org/humboldtfmp

# **Project summary**

**Project number: 2142-16-02** 

Funding: Certificates of Participation (COP)

**Project type:** Addition and renovation

Square footage:

Existing: 230,829 sfProposed: 255,276 sf

## SPPS project team:

Angela Selb-Sack, Senior Project Manager

• Michael Christen, Project Coordinator

Design team: Cuningham Group

**Construction management:** H+U Construction

# **Project scope**

- Two three-story additions to create new middle school house; right-sizing of learning spaces to support existing student population; relocation of main entry to make easily identifiable and adjacent to parking.
- Renovation of existing building including learning spaces, academic support spaces and restrooms.
- Replacement of all finishes, HVAC and controls, plumbing, lighting; required upgrades to fire suppression and fire alarm systems.

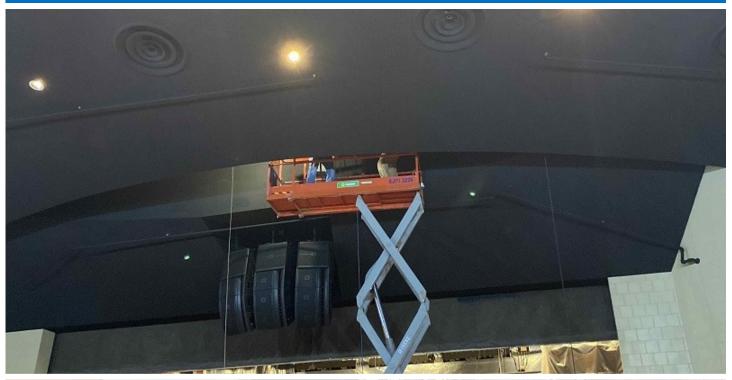
- Rigging installation is complete.
- Small amount of remaining carpet work will wrap up within the next few weeks along with minor touchups.
- Project will be substantially complete by next month.

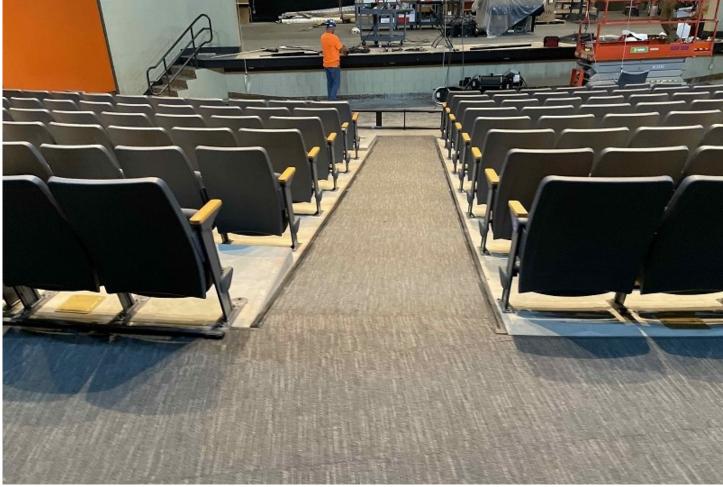
	July 2021 - Project Financial Information									
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)			
\$48,000,000	\$48,423,904*	\$42,692,426	\$37,257,624	\$2,939,515	7%	\$48,000,000	94%			

<sup>\*</sup>Surety payment of \$ \$1,915,916 due to a contractor that went out of business will offset the value over the approved budget.

	Project Timeline								
Phase:	Planning ——	<b>→</b> Design		<b></b>	Construction —				
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout				
Key dates:	✓ May 2016	□ N/A	√ N/A	✓ March 2017	Spring 2021				

# **Humboldt High School**





Top to bottom: Final installation of rigging equipment; flooring installed (June 2021)



# Johnson Senior High School: July 2021 Project Update



Location:

1349 Arcade S. Saint Paul, MN 55106

**Project website:** 

www.spps.org/Page/39804

Grades: 9-12

**Enrollment (SY20-21):** 

1,243

# **Project summary**

Project number: 1150-19-01

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building systems upgrades

Square footage:

Existing: 281,369; Proposed: N/A

# SPPS project team:

Jason Jones, Project Manager

• Josie Geiger, Project Coordinator

## Design team:

TKDA

• Tim Hoseck, Engineer

• Ursula Larson, Architect

Construction team: Market & Johnson

# **Project scope**

- Significant replacements to the HVAC system
- Lighting replacement

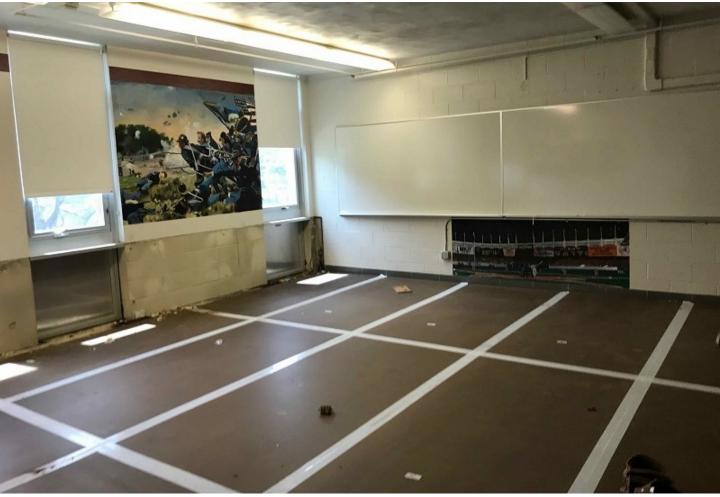
- Work is progressing well and in some areas the work is ahead of schedule.
- The backup steam boiler is being demolished to make way for new equipment. A new heat pump will be placed in this location to transfer heat to and from the ground of the geo-thermal well field. The well field will be installed in the baseball outfield.
- The old uni-vents along the exterior wall that used to provide the fresh air have been removed. This fall the fresh air for the classroom will be provided by a new air handler and new duct work.

	July 2021 - Project Financial Information									
Original Budget	et Committed Invoiced Construction Construction % Change Costs to Date Award Cost Changes						Construction % Complete (as invoiced)			
\$16,500,000	\$14,490,675	\$1,430,559	\$12,865,000	\$143,316	1.11%	\$14,582,618	2.58%			

	Project Timeline								
Phase:	Planning ——	Design		<b></b>	Construction —				
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout				
Key dates:	✓	□ N/A	✓	✓	[				
	Oct. 2018	N/A	Oct. 2020	Feb. 2021	Fall 2023				

# **Johnson Senior High School**





Top to bottom: Old backup steam boiler being demolished; old uni-vents along the exterior wall that used to provide the fresh air have been removed (June 2021)



# **Phalen Lake Hmong Studies: July 2021 Project Update**



Location:

1089 Cypress St. Saint Paul, MN 55106 **Grades:** PreK-5

Enrollment (SY20-21): 679

### School website:

https://www.spps.org/phalen

# **Project summary**

**Project number: 1200-19-01** 

**Funding:** Certificates of Participation (COP) **Project type:** Building systems upgrades

Square footage:

Existing: 77,899 sf; Proposed: N/A

# SPPS project team:

- Vaughn Kelly, Project Manager
- Josie Geiger, Project Coordinator

#### Design team:

- Architect, The Adkins Association Architects
- Mechanical Engineering, IMEG
- Electrical Engineering, IMEG
- Structural Engineering, A.M. Structural Engineering

Construction management: N/A

# **Project scope**

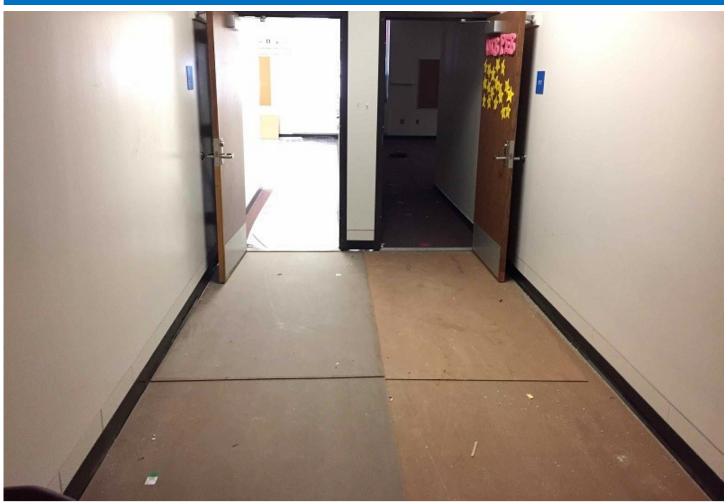
Significant upgrades to HVAC systems for improved indoor air quality, increased circulation of fresh air, and efficient maintenance of appropriate temperatures.

- The HVAC replacement's second and final phase is underway with move-out and demolition closely following teachers' last day on site.
- All ceilings have been removed to make way for updated new suspended ceiling systems with LED lighting. New lighting controls include daylight harvesting.
- The fire alarm system replacement will be completed during the current phase and the building will be left fully sprinklered.
- Phase 2 is scheduled for substantial completion prior to teachers' return in the fall.

July 2021 - Project Financial Information							
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$7,175,000	\$5,790,378	\$4,444,956	\$5,101,850	\$159,792	3.13%	\$5,829,318	75.22%

	Project Timeline							
Phase:	Planning ——	→ Design		-	Construction —			
BOE Gate	Five Year	Project	Budget	Contract	Closeout			
Check:	Plan	Charter	Approval	Award				
Key dates:	✓	□	✓	✓	☐			
	Oct. 2018	N/A	Feb. 2020	March 2020	Fall 2021			

# **Phalen Lake Hmong Studies**







Images from top to bottom:
Floor protection; ceiling demo; ceiling demo (June 2021)



# **Roofing Replacements: July 2021 Project Update**

- LEAP High School: 631 N Albert St., St. Paul, MN 55104 / Grades: 9-12 / Enrollment (SY20-21): 144
- Dayton's Bluff: 262 Bates Ave., St. Paul, MN 55106 / Grades: PreK-5 / Enrollment (SY20-21): 282
- Hubbs: 1030 University Ave. W., St. Paul, MN 55104 / Adult Basic Education

# **Project summary**

**Project number:** 0175-20-01

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building system replacement

Square footage:

Existing: N/A; Proposed: N/A

## SPPS project team:

- Vaughn Kelly, Project Manager
- Josie Geiger, Project Coordinator

#### Design team:

- Architect: Miller Dunwiddie
- Mechanical and Electrical Engineering: Emanuelson-Podas
- Structural Engineering: BKBM

# **Project scope**

Roofing replacements at:

- LEAP High School
- Dayton's Bluff Achievement Plus Elementary (COMPLETE)
- Hubbs Center (Adult Basic Education) (COMPLETE)

- LEAP: Some punch list corrections are underway to complete the project, including access panels to pipe chases and masonry patching at the parapet.
- NOTE: No recent photos this month.

July 2021 - Project Financial Information							
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$4,343,000	\$3,456,954	\$3,447,191	\$2,688,588	\$424,181	15.78%	\$3,471,984	99.78%

	Project Timeline						
Phase:	Planning ———	<b>→</b> Desig	n	<del></del>	Construction —		
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout		
Key dates:	✓		✓	✓			
	Oct. 2018	N/A	Jan. 2020	April 2020	Summer 2021		



# Washington Technology Magnet: July 2021 Project Update



**Location:** Grades: 6-12 1495 Rice

Saint Paul, MN 55117 Enrollment (SY20-21):

2,077 Project website:

https://www.spps.org/Page/38519

# **Project summary**

**Project number:** 4040-19-01

Funding: Capital Bonds (CAP)

Project type: Athletic improvements

**Square footage:** 

Existing: N/A; Proposed: N/A

## SPPS project team:

Vaughn Kelly, Project Manager

Mike Christen, Project Coordinator

Charles Colvin, Environmental Specialist

## Design team:

Architect and Electrical Engineering:
 Wold Architects and Engineers

Civil Engineering: BKBM

Landscape Design: Calyx Design Group

# **Project scope**

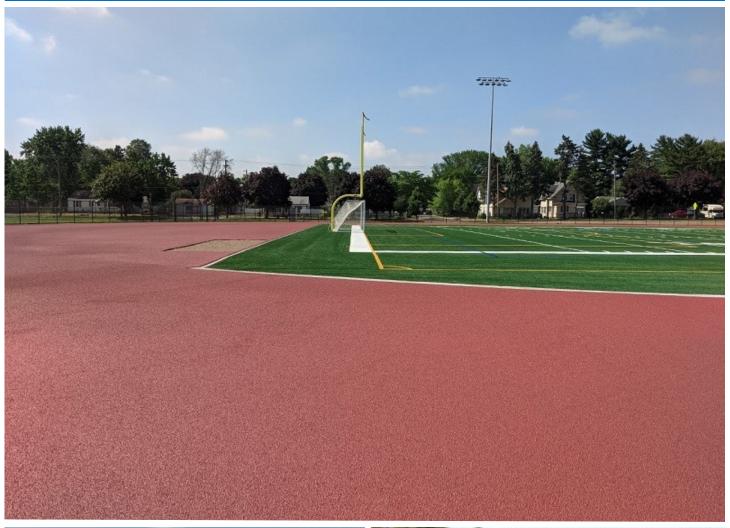
Multi-sports field with artificial turf; pole-mounted lighting; 8-lane track; discus, shot put, and long jump areas; resurfaced tennis courts; grass practice field

- The track's base mat, sealer and structural spray are complete. The final step, striping, is scheduled for completion during the final week of June.
- Some punch-list corrections are being completed on the rest of the site.
- Grass establishment is well underway in both seeded and sodded areas. Sod installed last year is rooted and no longer being watered. The dry spring and start to summer have caused the grass to go dormant and turn brown but is expected to recover. Grass areas seeded and sodded this year have not yet fully established and are being watered.

	July 2021 - Project Financial Information							
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)	
\$4,669,000	\$6,320,147	\$5,593,810	\$3,904,046	\$1,381,882	35.40%	\$6,320,147	87.95%	

	Project Timeline							
Phase:	Planning —	<b>→</b> Design		<b>•</b>	Construction —			
BOE Gate	Five Year	Project	Budget	Contract	Closeout			
Check:	Plan	Charter	Approval	Award				
Key dates:	✓	□	√	✓	□			
	Oct. 2018	N/A	Jan. 2020	March 2020	Nov. 2020			

# **Washington Technology Magnet**







Images from top to bottom:

Track with sand jump pit; track surface without striping; Track surface close up (June 2021)



# Window Replacements: July 2021 Project Update

Saint Paul Music Academy

27 Geranium Ave. E. St. Paul, MN 55117

**Grades: PreK-5** 

**Enrollment (SY20-21):** 559

**Riverview** 

160 Isabel St. E.

St. Paul, MN 55107

**Grades:** PreK-5

Enrollment (SY20-21): 439

# **Project summary**

**Project number: 0201-20-01** 

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building system replacement

Square footage:

Existing: N/A; Proposed: N/A

## SPPS project team:

Pam Bookhout, Project Manager

• Andrew Sivanich, Project Coordinator

Design team: Paul Meyer Architects

General contractor: S & J Contracting for St. Paul Music

Academy

# **Project scope**

Select window replacements at:

• Saint Paul Music Academy: Work planned for

summer 2021.

• **Riverview:** Window replacement has been postponed to the next funding cycle.

#### New this month

# St. Paul Music Academy:

- Window work began on Monday, June 14.
- The windows are very uniform and the installation is going smoothly.
- Water testing for windows already installed is scheduled for the first week of July.

	July 2021 - Project Financial Information							
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)	
\$2,172,500	\$1,481,312	\$1,204,815	\$1,330,800	\$39,449	2.96%	\$1,481,312	81.26%	

	Project Timeline								
Phase:	Planning ——	→ Design		<b></b>	Construction-	•			
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closed	out			
Key dates:	✓ Oct. 2018	□ N/A	<b>√</b> Jan. 2020	Dec. 2020 (Music Academy)	Fall 20				

# **Window Replacements**



From left to right: Window removal underway; new windows and panels installed (June 2021)