

To: Dr. Charles Johns Board of Education

From: Dr. Kim Ptak Dr. R.J. Gravel

Date: Monday, October 25, 2021

Re: Summer 2022 Capital Projects and 3-Year Master Facility Plan

Recommendation

It is recommended that the Board of Education authorize the Administration to work with Arcon Associates, the District architect, to develop bid specifications for the following capital projects to be completed in the summer of 2022 as presented.

Background

School and district leadership teams maintain a fluid 3-year facility master plan, including infrastructure and enhancement projects that directly impact the student experience. For ease of viewing the facility plan, it is provided in the form of a separate document. Within the summary page and each facility's project list, the following categories have been assigned:

• Summer 2022

The projects with cost estimates stated in this column represent those recommended for completion during the summer of 2022. Most recommended projects are for Glenbrook South, as the summer school program is hosted at Glenbrook North this summer.

• Summer 2023

The projects with cost estimates stated in this column represent those projects anticipated to be recommended for completion during the summer of 2023. The majority of projects stated are for Glenbrook North, as the summer school program is hosted at Glenbrook South this summer.

• Summer 2024

The projects with cost estimates stated in this column represent those projects anticipated to be recommended for completion during the summer of 2024. The majority of projects stated are for Glenbrook North, as the summer school program is hosted at Glenbrook South this summer.

Deferred

The projects with cost estimates stated in this column represent those that will not need to be completed during the next three summers. However, we anticipate they will need to be completed or addressed within the next ten years.

It is important to note that the plan includes cost estimates based on the initial assessment performed by the school district's architect and construction manager. As the architect reviews each project, the scope will be more narrowly defined, and the financial projection modified accordingly. Additionally, the list is intended to be fluid in nature, and items will be added, adjusted, and reprioritized as necessary.

Recommended Summer 2022 Capital Projects

The projects recommended for completion during the Summer of 2022 are summarized in Table 1 and presented in detail on the following pages.

Table 1
Summary of Summer 2022 Capital Projects by Category

Category	Location(s)	Project Description	Financial Projection
Site Work	GBS	West Student Lot Replacement, Deep Patching, Tennis Court Resurfacing, Sidewalk Addition	\$635,000
Roofing	GBS	Roof Replacement	\$675,000
Architectural	GBS	Auditorium Rigging System Replacement	\$440,000
Architectural	GBS	Auditorium Stage Drapery Replacement	\$95,000
Architectural	GBN	East Pool Structural Repair	\$130,000

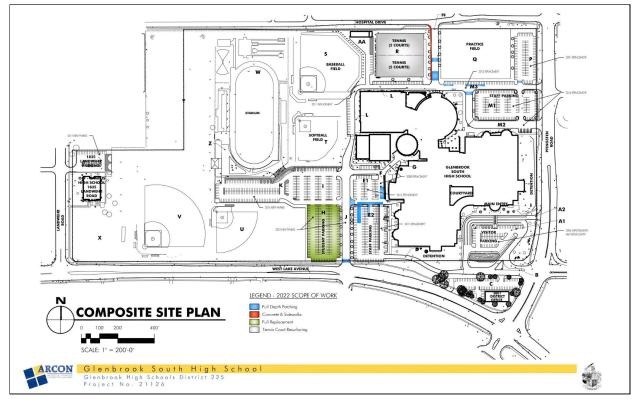
\$1,975,000	Subtotal
\$148,125	Architect Fee (7.5%)
\$148,125	Construction Management Fee (7.5%)
\$39,500	Contingency (2%)
\$2,310,750	Grand Total

As all building and life safety bond proceeds have been exhausted, capital projects are funded on a "pay as you go" basis and built into the district's operating budget. Within the current financial projection model, the school district allocates \$1,500,000 annually to support capital projects. These funds are secured through developer impact fees, unrestricted revenue sources (e.g., The Glen Make-Whole Payment), and approved inter-fund transfers. Should the final expense of approved capital projects exceed \$1,500,000, the school and district leadership team will need to identify additional budgetary reductions to provide for the cost.

Table 2
Site Work Projects

Location(s)	Project Description	Projection
GBS	West Student Lot Replacement The district maintains a master paving schedule that plans for parking lot replacement every 15+ years and general maintenance (crack-fill and seal coating) every 4 years. The planned summer of 2022 work includes replacing the west student lot, which was last replaced in 2001, and is well beyond its useful life and showing signs of deterioration, such as alligator cracks, potholes, and crumbling, consistent with a parking lot of this age. The scope of work is to remove the existing pavement surface and binder course, remove the existing stone base and retain it on-site for reinstallation. In addition, core samples are being conducted to determine the extent of new material needed to supplement the existing stone base.	\$335,000
GBS	Deep Patching As part of the annual parking lot inspection, several areas are recommended for full-depth patching, which involves saw cutting and removing the affected area and modifying the existing stone base to accept the specified asphalt pavement cross-section. This will lengthen the life of the parking lots.	\$135,000
There are ten tennis courts at GBS that were last replaced in the summer of 2015. As part of an overall preventative maintenance program, a resurfacing procedure is recommended every 5-7 years to restore the court's playability factors and extend the life of the courts by preserving the integrity of the asphalt court base. This summer marks year seven, and the court is beginning to exhibit signs such as minor cracking, fading, discoloration, and ponding which are indicators they are due for resurfacing. Resurfacing includes filling all cracks, leveling low spots with sand-filled asphalt, and installing one coat of liquid resurfacer and two color coats. Additionally, fence posts are heaving due to the annual freezing/thawing process. Therefore, the raised edge of concrete surrounding the fence posts will be ground to give a smooth and uniform appearance. The sealant will be compatible with the liquid track surfacing and color coats. It should be noted that tennis courts are typically resurfaced twice in a lifetime.		\$135,000
GBS	Sidewalk Addition Due to the limited parking capacity at GBS for students, the Glenview Ice Center sells approximately 90 parking permits to our students. In addition, there is currently a sidewalk owned and maintained by the Village that runs along hospital drive, used by students walking from the Ice Center to the GBS north entrance. However, there is currently no sidewalk connecting the Village sidewalk and the building entrance, resulting in the need for students to cut through the parking lot to enter the building. The proposed sidewalk is approximately 305 feet long and will run just east of the tennis courts, creating a safe student path.	\$30,000
	•	\$635,000

GBS Site Work Map



GBS Tennis Court Images



Table 3
Roofing Projects

Location(s)	Project Description	Projection
GBS	Roof Replacement - Music (Records Room) The music records room roof is the oldest roof at GBS. It is 1,000 sq. ft. and was installed in 1993. This summer, it will be 29 years old and has reached the end of its serviceable life, demonstrating several deficiencies typical for this roof system's age. The proposed new roof system will consist of roof insulation with an R-value of 30.0 minimum and a multi-ply modified bitumen built-up roof membrane with gravel surfacing Thus, the life expectancy of the new roof is 30+ years. Roof Replacement - Auditorium Stage The Auditorium Stage roof was installed in 1995 and is 5,400 square feet. This summer, it will be 27 years old and is experiencing several deficiencies typical for this roof system's age. The proposed new roof system would consist of roof insulation with an R-value of 30.0 minimum and a multi-ply modified bitumen built-up roof membrane with gravel	
GBS	The Auditorium Stage roof was installed in 1995 and is 5,400 square feet. This summer, it will be 27 years old and is experiencing several deficiencies typical for this roof system's age. The proposed new roof system would consist of roof insulation with an R-value of 30.0 minimum	\$180,000
GBS	system would consist of roof insulation with an R-value of 30.0 minimum and a multi-ply modified bitumen built-up roof membrane with gravel surfacing. The life expectancy of the new roof is 30+ years.	
	•	\$675,000

GBS Roofing Map

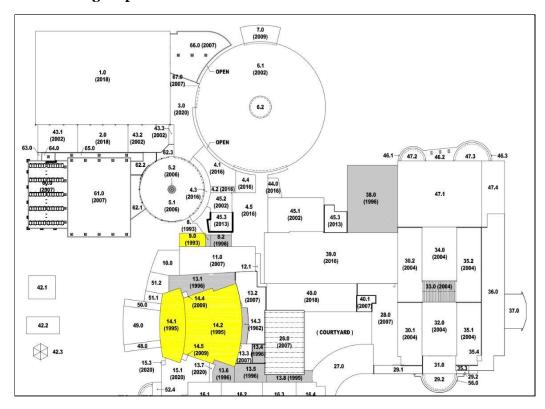


Table 4
Architectural Projects

Location(s)	Project Description	Projection
GBS	Auditorium Rigging System Replacement GBS has a manual, counterweight rigging system that is original to the auditorium (1961). This system provides the ability to lower and raise pipe battens by counterbalancing the load with an arbor loaded with counterweight (steel plates). There are 25, 76-foot long pipe battens that run across the stage's ceiling and are used to raise and lower theater equipment during a production. Breakdown of 25 pipe battens 1 - Main Curtain batten 14 - General Purpose or Utility batten (scenery, special lighting) 4 - Legs (tall curtains on the side used to mask the sides of the stage 3 - Lighting 2 - Travelers (full black curtains used as a backdrop for concerts etc.) 1 - Cyc (white curtain at the back of the stage used to project video or color) Recommendations Twenty-three pipe battens are guided by a large grillage "Arbor Guide Wall" built on stage left and have a payload capacity of approximately 1,300 pounds per line set. It is recommended that these be replaced with a newer counterweight system. The grillage will remain. Two of the battens (Main Curtain and General Purpose) have counterweights on the opposite side of the stage. These counterweights are guided by free-strung wires, which do not comply with the newest ANSI standards and exceed the recommended travel distance. Due to the necessary placement of these line sets, they cannot be incorporated into the counterweight system on stage left. There is not proper height in this location to use a manual counterweight system. It is recommended that these be replaced with motorized battens. Rather than raising and lowering the battens through manual counterweights, these battens would	\$440,000
GBS	Auditorium Stage Drape Replacement The stage curtains are original to the auditorium and are of cotton construction. As such, the drapes require cleaning and re-treating with flame retardants every five years. The GBS drapes were last treated four years ago. Over time, the fabric becomes more difficult and expensive to treat and needs to be replaced. It is recommended that the drapes be replaced with a more contemporary polyester drapery which is inherently flame retardant and does not require re-treating. All of the stage drapes are included in this scope.	\$95,000
GBN	East Pool Structural Repair The east pool at GBN is the smaller, original pool and has structural issues needing to be addressed. The foundation wall near the southeast corner of the pool requires repair and structural reinforcement for a length of about 25 feet. The concrete is spalling, which exposes the rebar/reinforcement and causing corrosion. The repair will consist of the removal of all loose and damaged concrete and sandblasting of exposed rebar. In addition, a new 6" deep, reinforced concrete wall will be poured behind the existing wall. Additionally, the pool gutter piping near the southeast corner of the pool is	\$130,000

corroding and showing signs of potential failure. It is recommended that these be	
replaced at the time the foundational repairs occur.	

\$665,000

GBS Auditorium Rigging System

Image 1 Image 2 Image 3







Image 1

Twenty-five pipe battens spanning the length of the stage ceiling.

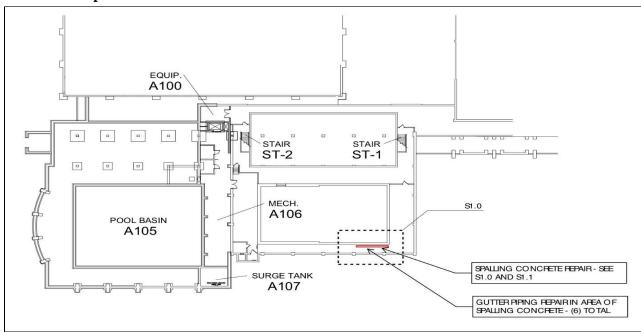
Image 2

Arbor Guide Wall with manual counterweight system controlling 23 of the 25 battens on Stage Left.

Image 3

Antiquated counterweight system controlling 2 of the 25 pipe battens on Stage Right.

GBN Pool Map



GBN Pool Images Image 1



Image 2



Timeline

Typically project specifications are sent to bidders in January and are due back in February. Results are then reviewed with the Facility Committee in mid-February and awarded during a March Board meeting.

Unfortunately, the pandemic has resulted in unprecedented material lead times, especially for roof insulation estimated to be five months. As a result, the administration has asked Arcon to move forward with the bid specification for the roof replacement. Bid package requests were sent to prospective bidders on October 8, 2021, and are due on October 26, 2021. Bids will be brought to the Board for consideration in November.

This updated timeline allows for work to be completed this summer. Additionally, rigging equipment is estimated to have a 14-week lead-time for fabrication. Therefore, the rigging system and other recommended projects are following an accelerated timeline and will be released to bidders on November 30, 2021, and due on December 21, 2021. Table 5 details the proposed timeline.

Table 5
Bidding Timeline

Task	Roof Replacement Projects	Paving and Architectural Projects
Project out to Bid	October 8, 2021	November 30, 2021
Bids Opened	October 26, 2021	December 21, 2021
Facility Committee Meeting	Email results	January 5, 2022
Board Meeting - Discussion	November 8, 2021	January 10, 2022
Board Meeting - Award	November 22, 2021	January 24, 2022

Glenbrook High School District 225 - Summary of Master Facility Plan					Updated as of	October 14, 2021
Location		Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
District Administration Building (GBA)		\$292,500	\$o	\$52,650	\$o	\$239,850
Glenbrook North High School (GBN)		\$18,503,550	\$152,100	\$1,714,050	\$87,750	\$16,549,650
Glenbrook South High School (GBS)		\$13,016,250	\$2,158,650	\$o	\$2,006,550	\$8,851,050
Glenbrook Off Campus (GBO)		\$292,500	\$o	\$46,800	\$o	\$245,700
	Grand Total	\$32,104,800	\$2,310,750	\$1,813,500	\$2,094,300	\$25,886,250

 $\begin{array}{ccc} \textbf{Summer School} & & & \\ \textbf{Location:} & & & \\ \textbf{Glenbrook North} & & & \\ \textbf{Glenbrook South} & & & \\ \textbf{Glenbrook North} & & \\ \end{array}$

Glenbrook	High School District 22	5 - District Administration Building (GBA) Master Facility Plan				Updated as of	October 14, 2021
	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
Paving an	nd Site Work						
GBA	Paving - Parking Lot	According to building records, the district parking lot was installed in 1988 and has been patched and sealcoated multiple times. The lot was last sealcoated the summer of 2020. It is recommended that the lot be replaced the summer of 2026.	\$130,000				\$130,000
		Parking lot replacement recommended.					
Mechanic	al						
GBA	HVAC Replacement - 200B, 200C, 200D, 200E	This space at the district office was previously rented by a dental practice and was configured with four small exam rooms. Each exam room is heated and cooled via window units and the space is not tied into the overall building HVAC system.	\$75,000				\$75,000
		Provide new heating and cooling systems for this space that is tied into the overall building systems.					
Architect	ural						
GBA	Carpeting - 2E	The carpeting in suite 2E is 10 years old and is expected to be replaced the summer of 2022.	\$35,000		\$35,000		
		Update lighting to LED.					
Electrical							
GBA	Lighting Retrofit - 2E	The lighting in suite 2E is the remaining area at the district office with fluorescent lighting. Lighting should be upgraded to LED. Update lighting to LED.	\$10,000		\$10,000		
		Subtotal for All Project Areas	\$250,000	\$ 0	\$45,000	\$ 0	\$205,000
		Fees/Construction Contingency	\$42,500	\$o	\$7,650	\$o	\$34,850
		Grand Total	\$292,500	\$0	\$52,650	\$0	\$239,850

Glenbrook	High School District 225 -	Glenbrook North High School (GBN) Master Facility Plan				Updated as of	October 14, 2021
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
Roofing							
GBN	Roof Replacement - Back gym, main gym balcony, art, industrial ed, cafeteria corridors, science wing, mall canopy, music, CPA lobby.	There are several roof structures reaching 26+ years old and will be closely monitored over the next 3-5 years. Summer 2021: Music, CPA Lobby and Cooridor. Summer 2023: Back Gyms	\$1,955,000		\$550,000		\$1,405,000
		Roof replacement recommended. e Work					
Paving an	d Site Work						
GBN	Paving - North and South lots	Crack-filling and sealcoating is a preventative maintenance item that helps to maintain and extend the lifespan of an asphalt surface by preventing surface deterioration. The industry standard for this treatment is every three to four years, the district adopted a four year cycle. This preventative maintenance measure reduces weather damage and water penetration of the asphalt surface, resists effects from gas, oil and salts, seals and protects the asphalt surface from deteriorating effects, reduces freeze-thaw deterioration, and extends the service life of the pavement. Crack-filling and sealcoating involves cleaning and preparing the asphalt surface, installing joint sealant into prepared cracks, applying sealer and allowing it to cure, and applying pavement markings. The GBN south lots are scheduled for the summer of 2021 and the north lots the summer of 2023.	\$130,000		\$130,000		
		Crack-fill/sealcoating recommended.					
GBN	Paving - Staff and West Student Lot	The staff parking lot and west student parking lot are scheduled for replacement the summer of 2025.	\$605,000				\$605,000
		Replacement of parking lot recommended.					
GBN	Paving - Tennis Courts	The GBN tennis courts were replaced the summer of 2018. It is recommended that they be resurfaced every 7 years. Work should be completed the summer of 2025. Crack repair and resurfacing will involve cleaning existing cracks and court surface, installation of "crack filler", filling cracks with granular silica sand, and applying one coat of acrylic resurfacer and two coats of fortified acrylic tennis court color coating surface.	\$135,000				\$135,000
CDM	TD C C	Resurfacing of tennis courts recommended.	Φ				φ
GBN	Turf surface replacement - Stadium Field	The artificial turf field was installed in 2013. The top layer (carpet) needs to be replaced every 12-14 years. It is estimated the surface should be replaced the summer of 2027.	\$575,000				\$575,000
		Replacement of field surface recommended.					

Glenbrook	High School District 225 -	Glenbrook North High School (GBN) Master Facility Plan				Updated as of	October 14, 2021
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
GBN	Bleacher and Press Box Replacement - Stadium	The bleachers were installed in the late 1970s. Although passing inspection, the underlying structure is slowly deteriorating and rusting. The recommended repairs due to wear and tear has been accumulating each year including seating replacement, welding and painting. The bleachers do not have proper capacity (home 1800 and visitor 900) and are the smallest bleachers in the 12 team conference. Additionally the bleachers are not ADA compliant making it difficult for students, staff and community members to watch events with friends and family. The press box is also much smaller for today's needs which include broadcasting, filming etc. Replacement of bleachers, press box recommended.	\$1,500,000				*1,500,000
Mechanic	al/Plumbing	, , , , , , , , , , , , , , , , , , ,					
GBN	Building Automation System Software and Component Replacement - Throughout	GBN uses a building automation system (BAS) which was installed in 2001, to automate the many building mechanical systems. The current system and component parts (field panels, controllers) are considered obsolete and no longer available or supported. Wiring is old and has the potential to fail.	\$900,000				\$900,000
		Replace BAS system and components. Run new wiring.					
GBN	Hydraulic Lift Replacement - CPA	The GBN orchestra pit lift is original construction with two hydraulic rams. There is the potential for failure. The lift can drift out of level from side to side. New pit lifts are electronically driven avoiding the need for hydraulic fluid.	\$350,000				\$350,000
		Replace Hydraulic Lift					
GBN	Rigging System	The GBN rigging system is a manual counter weight system that is original to the auditorium and in need of replacement.	\$500,000		\$500,000		
		Replace Rigging System					
GBN	HVAC Replacement - Shop Classrooms Wood Shop, Auto Shop, Metal Shop	The existing ceiling hung air handling units for the shop classrooms are the original air handling unit and are approximately 60 years old. Failure of these units will result in loss of heating and ventilation and the ability to maintain proper space temperature to the areas they serve.	\$350,000				\$350,000
		Provide a new Air Handling System to service these areas.					
GBN	Boiler Replacement - Boiler Room	The existing fired steam boilers (4) are over 60 years old showing signs of deterioration. Loss of the boilers would result in loss of heat to the entire building.	\$1,800,000				\$1,800,000
		Replace existing steam boilers with new gas fired hot water boilers. Extend new hot water supply and return mains to existing equipment.					
GBN	HVAC Replacement - C- 108 and Nurse/Student Services	As part of the 2016 Life Safety Bond issuance, the majority of unit ventilators were replaced. There is a remaining unit ventilator in the ceiling of room C-108 and nurses and student services are roof top units.	\$130,000				\$130,000
		Replace unit ventilators with a rooftop unit.					

Glenbrook	High School District 225 -	Glenbrook North High School (GBN) Master Facility Plan				Updated as of	October 14, 202
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
GBN	Water pipe and fixture replacement - Applied Tech Restrooms	The existing domestic water piping mains are the original galvanized steel piping. The piping is deteriorated causing leaks and loss of water pressure to building. The existing plumbing fixtures in classrooms and toilet rooms are the original fixtures and are worn.	\$70,000				\$70,000
		Replace piping and fixtures with new.					
GBN	Water pipe and fixture replacement - Girls and Boys PE Restrooms	The existing domestic water piping mains are the original galvanized steel piping. The piping is deteriorated causing leaks and loss of water pressure to building. The existing plumbing fixtures in locker room and toilet rooms are the original fixtures and are worn.	\$225,000				\$225,000
		Replace piping and fixtures with new.					
GBN	Water pipe, fixture replacement, ADA compliance - CPA Restrooms	The existing domestic water piping mains are the original galvanized steel piping. The piping is deteriorated causing leaks and loss of water pressure to building. The existing plumbing fixtures are the original fixtures and are worn. Additionally, the current restrooms are not ADA compliant and additional stalls are needed to support the CPA.	\$455,000				\$455,000
		Replace piping and fixtures with new.					
GBN	Piping Replacement - A- Wing	The hot water piping was replaced in the late 1990s however the cirrculation to individual fixtures is a concern and the hot water is not effectively traveling to the individual fixing, cold water piping is now approaching the end of its useful life and is showing signs of deterioration.	\$180,000				\$180,000
		Replace piping and fixtures with new.					
Electrical							
GBN	Lighting - CPA	The current incandescent lighting in the CPA is difficult to maintain due to its height and is not energy efficient. Additionally they consume a great deal of power and burn out frequently. It is recommended that the lighting be converted to LED on both the stage and house.	\$700,000				\$700,000
		LED retrofit is recommended.					
GBN	Lighting and Ceiling Tile Replacement - Back Gym Hall	The back gym hall ceiling and lighting was replaced when the back gym work was completed the summer of 2018. There is a portion of old spline ceiling with surface mounted lighting that remains.	\$80,000		\$80,000		
		Provide a new drop ceiling and LED lighting.					
GBN	Lighting and Dimming System Replacement - Science Rooms	The science rooms fluorescent lighting and dimming system is at the end of its useful life and intermittently functioning.	\$50,000				\$50,000
		Replace fluorescent fixtures with new LED and control with new wall box 0-10V dimmer.					
GBN	Lighting - Athletic Stadium	The existing athletic stadium fixtures are energy inefficient and high maintenance.	\$180,000				\$180,000
		Replace 400W metal halide light fixtures with energy efficient LED fixtures.					
GBN	Lighting - Classrooms	Convert general classrooms to LED lighting. There are approximately 170 classrooms. LED retrofit recommended.	\$320,000		\$25,000	\$25,000	\$270,000

High School District 225 -	Glenbrook North High School (GBN) Master Facility Plan				Updated as of	October 14, 202
Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
Гiling						
Carpeting	Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement.	\$400,000		\$50,000	\$50,000	\$300,000
	Carpet replacement recommended.					
Flooring - CPA Stage	The CPA stage flooring is a soft pine which becomes worn overtime from the various stage sets that are screwed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement.	\$130,000		\$130,000		
	Replacement of CPA stage flooring recommended.					
Flooring - Cafeteria Hallway, Laundry Room Hallway and Main Gym Hallway	These hallways are high traffic areas and the current VCT is worn, no longer looks clean and in need of replacement.	\$160,000				\$160,000
	Replace VCT					
ıral						
Door Replacement - Throughout Building	The Total Doors do not always properly latch and should be replaced.	\$1,000,000				\$1,000,000
	Replace Hallway Total Doors					
Reconfiguration and Furniture - Social Studies A208	A208 is an oversized social studies classroom. The room can be converted into a conference room and general classroom.	\$125,000				\$125,000
	Redesign of A208 and new furniture recommended.					
Reconfiguration and Appliance Replacement - Culinary Arts Room	There are two culinary art rooms - C106 and C108. C106 was redone a few years ago, C108 is outdated and would benefit from remodeling.	\$200,000				\$200,000
	Redesign of Culinary arts and new furniture recommended.					
Performing Arts Space	Performing arts consists of music, theater and dance. Scheduling the various practices, rehersals and performances can be difficult due to the limited performance spaces; often after school dance clubs are forced into the cafeteria, hallways and classrooms which isn't ideal. Also, music and theater performances that are best suited in a medium sized venue are either scheuduled into the large CPA or music and drama classrooms. Data is being collected and analyzed to determine	\$2,000,000				\$2,000,000
	Project & Area Filing Carpeting Flooring - CPA Stage Flooring - Cafeteria Hallway, Laundry Room Hallway and Main Gym Hallway Project & Area Flooring - Cafeteria Hallway, Laundry Room Hallway and Main Gym Hallway Project & Area Flooring - Cafeteria Hallway, Laundry Room Hallway Reconfiguration and Furniture - Social Studies A208 Reconfiguration and Appliance Replacement - Culinary Arts Room	Project & Area Description of concern and recommended action Filing Carpeting Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement. Carpet replacement recommended. Flooring - CPA Stage The CPA stage flooring is a soft pine which becomes worn overtime from the various stage sets that are screwed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement. Replacement of CPA stage flooring recommended. These hallways are high traffic areas and the current VCT is worn, no longer looks clean and in need of replacement. Replace VCT Tral Door Replacement - Throughout Building Reconfiguration and Appliance Replacement - Culinary Arts Room Reconfiguration and Appliance Replacement - Culinary Arts Room Reconfiguration and Appliance Replacement - Culinary Arts Room Redesign of A208 and new furniture recommended. Performing Arts Space Performing arts consists of music, theater and dance. Scheduling the various practices, rehersals and performances can be difficult due to the limited performance spaces; often after school dance clubs are forced into the cafeteria, hallways and classrooms which isn't ideal. Also, music and theater performances that are best suited in a medium sized venue are either scheduled into the large CPA or music and	Project & Area Description of concern and recommended action Carpeting Carpeting Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement. Carpet replacement recommended. The CPA stage flooring is a soft pine which becomes worn overtime from the various stage sets that are screwed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement. Replacement of CPA stage flooring recommended. Flooring - Cafeteria Hallway, Laundry Room Hallway and Main Gym Hallway and Cape Hallway Total Doors Acplace Hallway Total Doors Acpl	Project & Area Description of concern and recommended action Carpeting Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement. Carpet replacement recommended. The CPA Stage flooring is a soft pine which becomes worn overtime from the various stage sets that are screwed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement. Replacement of CPA stage flooring recommended. Flooring - Cafeteria Hallway, Laundry Room Hallway and Main Gym Hallway Replace VCT Tral Door Replacement - Throughout Building Reconfiguration and Furniture - Social Studies A208 Reconfiguration and Furniture - Social Studies and Studies and Studies A208 Reconfiguration and Appliance Replacement - Culinary Arts Room Redesign of A208 and new furniture recommended. Performing Arts Space Performing arts consists of music, theater and dance. Scheduling the various practices, rehersals and performances can be difficult due to the limited performance spaces; often after school dance clubs are forced into the cafeteria, hallways and classrooms which isn't ideal. Also, music and theater performances that are best suited in a medium sized evenue are either scheduled into the large CPA or music and	Project & Area Description of concern and recommended action Cost Est. Total Zo22 Summer 2023 Carpeting Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement. Carpet replacement recommended. Flooring - CPA Stage The CPA stage flooring is a soft pine which becomes worn overtime from the various stages ets that are serewed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement. Replacement of CPA stage flooring recommended. The shallways are high traffic areas and the current VCT is worn, no longer looks clean and in need of replacement. Replace VCT rat The Total Doors do not always properly latch and should be replaced. Reconfiguration and Furniture - Social Studies 2208 Reconfiguration and Appliance Replacement - Culinary Arts Room Redesign of A208 and new furniture recommended. Performing Arts Space Redesign of Culinary arts and new furniture recommended. Performing arts consists of music, theater and dance. Scheduling the various practices, rehersals and performances can be difficult due to the limited performance spaces; often after school dance clubs are ceither scheduled into the large CPA or music and strate clusted with a region of the limited performance spaces; often after school dance clubs are ceither scheduled into the large CPA or music and theater performances where the ceither scheduled into the large CPA or music and theater performances and eather ceither scheduled into the large CPA or music and theater performances worn overtime are subject to the limited performance where the ceither scheduled into the large CPA or music and the strate post suited in a medium size were are either scheduled into the large CPA or music and the strate post suited in a medium size were are either scheduled into the large CPA or music and the strate post suited in a medium size were are either schedu	Project & Area Description of concern and recommended action Carpeting Carpeting Carpeting Carpeting Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement. Carpet replacement recommended. The CPA stage flooring is a soft pine which becomes worn overtime of the various stage sets that are seriewed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement. Replacement of CPA stage flooring recommended. Flooring - Cafeteria Hallway, Laundry Room Individual to the large of the stage and the current VCT is worn, no mager looks clean and in need of replacement. Replace VCT real Door Replacement - Throughout Building Replace Hallway Total Doors Reconfiguration and Appliance Replacement Appliance Replacement - Culinary Arts Room Reconfiguration and Appliance Replacement Culinary Arts Space Recessign of Culinary arts and new furniture recommended. Performing Arts Space Performing Arts Space Performing arts consists of music, theater and dance. Scheduling the value of the street scheduled into the large CPA or music and should be replaced and well are street of into the affecting, hallways and classroons which isn't ideal. Also, music and theater performances spaces; often after school dance clubs are forced into the affecting, hallways and classroons which isn't ideal. Also, music and theater performances spaces; often after school dance clubs are forced into the affecting, hallways and classroons which isn't ideal. Also, music and theater performances base suited in a medium street.

Glenbrook	High School District 225	- Glenbrook North High School (GBN) Master Facility Plan				Updated as o	f October 14, 2021
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
GBN	Pool Structural Repair and Gutter Drain Replacement	The east pool at GBN is the smaller, original pool and has structural issues needing to be addressed. The foundation wall near the southeast corner of the pool, for a length of about 25 feet, is in need of repair. The concrete is spalling which is exposing the rebar/reinforcement and causing corrosion. The repair will consist of the removal of all loose and damaged concrete and sandblasting of exposed rebar. A new 6" deep, reinforced concrete wall will be poured behind the existing wall.	*130,000	\$130,000			_
		Additionally, the pool gutter piping near the southeast corner of the pool is corroding and showing signs of potential failure. It is recommended that these be replaced at the time the foundational repairs occur.					
		Repair Structural Issues and Replace 6 Gutters					
GBN	CPA Dressing Room Renovation	The CPA has dressing rooms that are original to the building and are not ADA compliant. The space lacks necessary storage and is in need of new flooring, ceiling tile and lighting.	TBD				
		Renovate CPA dressing rooms					
GBN	Culinary Lab	GBN has an antiquated culinary lab used to teach several foods classes throughout the day. The scope of the project is to remodel the space to create cooking stations with updated appliances. Additionally, this space is one of the last remaining spaces to have original HVAC equipment. It is recommended that this be replaced.	\$330,000				\$330,000
		Renovate CPA dressing rooms					
Larger Pu	ırchases						
GBN	Furniture Purchase - IMC	The furniture in the IMC consists of tables and chairs. To facilitate student collaboration as well as independent learning, it is recommended that modular, mobile furniture be added to these spaces.	\$80,000				\$80,000
		Furniture replacement recommended.					
GBN	Furniture Purchase - Peer Group	Peer group has a need for new chair (approximately 80). The current chairs are mismatched and not mobile.	\$20,000				\$20,000
CDM	D '1 D 1	Furniture replacement recommended.	φ				d
GBN	Furniture Purchase - Math office spaces	The desks are 30+ years old and do not accomodate the desire for collaborative and flexible space.	\$50,000				\$50,000
		Furniture purchase recommended.					
		Subtotal for All Project Areas	\$15,815,000	\$130,000	\$1,465,000	\$75,000	\$14,145,000
		Fees/Construction Contingency	\$2,688,550	\$22,100	\$249,050	\$12,750	\$2,404,650
		Grand Total	\$18,503,550	\$152,100	\$1,714,050	\$87,750	\$16,549,650

Glenbrook	High School District 225	- Glenbrook Off Campus (GBO) Master Facility Plan				Updated as of	October 14, 202
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
Paving an	nd Site Work						
GBO	Paving - Parking Lot	According to building records, the off campus parking lot was last replaced in 1995 and is expected to be ready for replacement in 2025. Parking lot replacement recommended.	\$130,000				\$130,000
Electrical		Turking for replacement recommended.					
GBO	Lighting - Throughout the Building	The current lighting at OC is fluorescent and the overall light quality and energy efficiency is less than LED lighting.	\$40,000		\$40,000		
		LED retrofit is recommended.					
Flooring/	Tiling						
GBO	Flooring - Throughout the building	The carpeting is showing wear and pulling up in certain areas. It should be replaced in accordance with the district carpet replacement cycle.	\$80,000				\$80,000
		Carpet replacement recommended.					
Architect	ural						
		Subtotal for All Project Areas	\$250,000	\$o	\$40,000	\$ 0	\$210,000
		Fees/Construction Contingency	\$42,500	\$o	\$6,800	\$o	\$35,700
		Grand Total	\$292,500	\$0	\$46,800	\$0	\$245,700

Glenbrook	High School District 225	- Glenbrook South High School (GBS) Master Facility Plan				Updated as of	October 14, 202
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
Roofing							
GBS	Roof Replacement - Music, Maintenance, CPA corridor, Dance Studio, IMC, CPA Stage, Industrial Arts	Several roof structures are 26+ years old and will be closely monitored over the next few years. Auditoium House and Stage roofs are recommended for replacement during the summer of 2022 as well as a small music records room.	\$1,438,000	\$675,000			\$763,000
		Replacement of roofing recommended.					
	d Site Work						
GBS	Paving - Full Parking Lot	Crack-filling and sealcoating is a preventative maintenance item that helps to maintain and extend the lifespan of an asphalt surface by preventing surface deterioration. The industry standard for this treatment is every three to four years, the district adopted a four year cycle. This preventative maintenance measure reduces weather damage and water penetration of the asphalt surface, resists effects from gas, oil and salts, seals and protects the asphalt surface from deteriorating effects, reduces freeze-thaw deterioration, and extends the service life of the pavement. Crack-filling and sealcoating involves cleaning and preparing the asphalt surface, installing joint sealant into prepared cracks, applying sealer and allowing it to cure, and applying pavement markings.	\$275,000	\$135,000		\$140,000	
		Crack-fill/sealcoating and/or full depth patching recommended.					
GBS	Paving - West Student Lot	The west student lot was last replaced in 2001 and is beginning to show significant cracking. The lot will need to be replaced the summer of 2024 at which point it will be 23 years old.	\$335,000	\$335,000			
		Replacement of west student lot recommended.					
GBS	Sidewalk addition	The Glenview Fire Station sells parking spots to GBS students. There is currently a sidewalk owned and maintained by the Village that runs from the firestation to the GBS north student parking lot entrance. There is not currently a sidewalk that connects the Village sidewalk and the building entrance which results in students crossing through the vehicle entrance. The sidewalk being proposed is approximately 305 feet in length and will run just east of the tennis courts.	\$30,000	\$30,000			
		Sidewalk Addition					
GBS	Paving - Tennis Courts	The GBS tennis courts were last resurfaced the summer of 2015. It is recommended that they be resurfaced every 7 years. Work should be completed the summer of 2022. Crack repair and resurfacing will involve cleaning existing cracks and court surface, installation of "crack filler", filling cracks with granular silica sand, and applying one coat of acrylic resurfacer and two coats of fortified acrylic tennis court color coating surface.	\$135,000	\$135,000			

<u>Glenb</u> rook	High School District 225	- Glenbrook South High School (GBS) Master Facility Plan				Updated as of	October 14, 202
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
GBS	Track Replacement - Stadium Track	The stadium track was installed in 2004 and, with the resurfacing in 2020, would likely not need to be replaced until the summer of 2028.	\$507,000				\$507,000
		Stadium Track Replacement Recommended.					
GBS	Field Turf Replacement - Stadium Field	The artificial turf field was installed in 2012. The top layer (carpet) needs to be replaced every 12-14 years. It is estimated the surface should be replaced the summer of 2026.	\$575,000				\$575,000
		Replacement of field surface recommended.					
GBS	Field Netting - Baseball Field	The current fencing along the first and third baselines of the GBS baseball fields are not high enough to prevent foul balls from flying into adjacent fields and parking lots.	\$120,000			\$120,000	
		Add 50 foot netting behind the backstop and the first and third baselines recommended.					
GBS	Field Netting - Softball Field	The current fencing along the first and third baselines of the GBS softball field is not high enough to prevent foul balls from flying into adjacent fields.	\$90,000			\$90,000	
		Add 50 foot netting behind the backstop and the first and third baselines recommended.					
GBS	Bleacher and Press Box Replacement - Stadium	The bleachers were installed in the late 1970s. Although passing inspection, the underlying structure is slowly deteriorating and rusting. The recommended repairs due to wear and tear has been accumulating each year including seating replacement, welding and painting. The bleachers are not ADA compliant making it difficult for students, staff and community members to watch events with friends and family. The press box is also much smaller for today's needs which include broadcasting, filming etc. Storage is also a concern and can be added underneath the bleachers. Bleachers have good capacity (3,400 home and 1,125 away).	\$1,200,000				\$1,200,000
		Replacement of bleachers, press box recommended.					
	al and Plumbing						
GBS	Building Automation System Software and Component Replacement - Throughout	GBS uses a building automation system (BAS) which was installed in 1992, to automate the many building mechanical systems. The current system and components (field panels, controllers) are considered obsolete and the system is ready for replacement. Existing wiring also needs to be rerun.	\$900,000			\$900,000	
		Replace BAS system and components.					
GBS	Ejector Pump Replacement - Boiler Room	The large ejector/sump pump in the boiler room is original to the building and ready for replacement.	\$60,000				\$60,000
anc.	Darter and D	Replace ejector pump.	φοις				фа :
GBS	Restroom Renovation - State and Madison	The restrooms at State and Madison are original to the building and in need of renovation. The piping and fixtures are in need of replacement. The restroom space is not ADA compliant and as they are heavily utilized during the school day as well as in the evenings and on weekends they do not have adequate fixture count to handle the traffic.	\$340,000				\$340,000

Glenbrook	High School District 225	- Glenbrook South High School (GBS) Master Facility Plan				Updated as of	October 14, 20
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
		Restroom renovation recommended.	=				
GBS	Restroom Renovation - Athletic Wing	The athletic restrooms are original to the building and in need of renovation. They are heavily utilized during the school day as well as in the evenings and on weekends.	\$280,000			\$280,000	
		Renovate restrooms and ensure ADA compliance.					
Electrical							
GBS	Lighting - Auditorium	The existing house lighting is inefficient incandescent and difficult to maintain. The stage lights were converted to LED in 2014.	\$300,000				\$300,000
		LED retrofit to house lighting is recommended.					
GBS	Lighting - Athletic Stadium	The existing athletic stadium fixtures are energy inefficient and high maintenance.	\$180,000				\$180,000
		Replace 400W metal halide light fixtures with energy efficient LED fixtures.					
GBS	Lighting and Dimmer System - 12 Science Classrooms LED	The dimming system for the lights in the science classrooms is failing and consistently flickers on and off at random times during the day. It is recommended that the lights and dimming system be replaced with LED lighting and a new dimming system. Six of the science rooms have been done and twelve remain.	\$50,000				\$50,000
		Upgrade 12 remaining science classrooms to LED lighting.					
GBS	Lighting - Classrooms	Convert general classrooms to LED lighting. There are approximately 170 classrooms.	\$320,000			\$50,000	\$270,000
		LED retrofit recommended.					
GBS	Auditorium Rigging System	The auditorium has a rigging system that is original to the building and installed in 1961. It is recommended that it be replaced with a new counter weight system to be in compliance with the most current standards. Replace rigging system.	\$440,000	\$440,000			
Flooring/	Tiling	The state of the s					
GBS	Carpeting	Carpeting in various classrooms and cooridors is 20+ years old and in need of replacement.	\$400,000			\$50,000	\$350,000
		Carpet replacement recommended.					
GBS	Flooring - Old Pit, adjacent corridors, main corridor	The carpet in the old pit and adjacent corridors and main office corridor are next to be replaced on the building's carpet replacement cycle. The old pit carpeting will be replaced with LVT flooring to accommodate additional student seating. The corridors will be recarpeted.	\$175,000				\$175,000
		Flooring replacement recommended.					
GBS		The carpet in the social studies office is worn and in need of replacement. The furniture is original to the space and not conducive to team collaboration and student interaction.	\$75,000				\$75,000
		Redesign of Social Studies Office and new flooring and furniture recommended.					

Glenbrook	High School District 225	- Glenbrook South High School (GBS) Master Facility Plan				Updated as of	October 14, 202
Location	Project & Area	Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
GBS	Abatement, Flooring and Renovation - Foods Classroom	The foods classroom is in need up updating as it's appliances are now over 20 years old and the teaching / presentation stations are not meeting the needs of the curriculum. Tile would also be replaced and abatement is necessary.	\$300,000				\$300,000
		Abatement, Floor Replacement, Room Renovation Recommended.					
GBS	Flooring - Pool Locker Rooms	The flooring in the boys and girls pe pool locker room is a concrete floor with an 1/8th inch epoxy coating which is constantly peeling.	\$60,000				\$60,000
		Replacement of pool locker room flooring recommended.					
GBS	Flooring - Girls West Pool Shower Walls	The shower walls in the girls locker room of the new pool are painted cinder block and, due to the climate, continuously peel and need to be repainted. The shower walls need to be tiled.	\$60,000				\$60,000
		Replacement of girls west pool locker room shower tile recommended.					
GBS	Flooring - Auditorium Stage	The auditorium stage flooring is a soft pine which becomes worn overtime from the various stage sets that are screwed into the floor. There are many weak spots and a great deal of deflection underfoot. There is splintering, shearing and the potential for failure under heavy loads. The flooring is original and in need of replacement.	\$85,000			\$85,000	
		Replacement of auditorium stage flooring recommended.					
Architect							
GBS	Door Replacement - Throughout Building	The Total Doors do not always properly latch and should be replaced.	\$300,000				\$300,000
		Replace Hallway Total Doors					
GBS	Performing Arts Space	Performing arts consists of music, theater and dance. Scheduling the various practices, rehersals and performances can be difficult due to the limited performance spaces; often after school dance clubs are forced into the cafeteria, hallways and classrooms which isn't ideal. Also, music and theater performances that are best suited in a medium sized venue are either scheuduled into the large CPA or music and drama classrooms. Data is being collected and analyzed to determine the facility needs and recommendations. Additional Performing Arts Space(s) recommended.	\$2,000,000				\$2,000,000
Larger Pu	ırchases	8					
GBS		The stage curtains are original to the auditorium and are of cotton construction. As such, the drapes require cleaning and re-treating with flame retardants every 5 years. The GBS drapes were last treated 4 years ago. Over time, the fabric becomes more difficult and expensive to treat and needs to be replaced. It is recommended that the drapes be replaced with a more contemporary polyester drapery which is inherently flame retardant and does not require re-treating. All of the stage drapes are included in this scope.	\$95,000	\$95,000			

d					
Glenbrook High School District 225 - Glenbrook South High School (GBS) Master Facility Plan	Updated as of October 14, 2021				
Location Project & Area Description of concern and recommended action	Cost Est. Total	Summer 2022	Summer 2023	Summer 2024	Deferred
Subtotal for All Project Areas	\$11,125,000	\$1,845,000	\$ 0	\$1,715,000	\$7,565,000
Fees/Construction Contingency	\$1,891,250	\$313,650	\$o	\$291,550	\$1,286,050
Grand Total	\$13,016,250	\$2,158,650	\$ 0	\$2,006,550	\$8,851,050