



# **Proposed FY23 School Facility Improvements**

Department of Public Works  
11/3/2021

## **Proposed FY 23 Projects**

- Cedar and Middle School Parking Lot - \$1,000,000
- Cedar Security Enhancements - \$200,000
- Middle School Rooftop HVAC replacement (design) - \$50,000
- Middle School HVAC Asbestos Abatement - \$75,000
- Middle School Electrical Panel upgrades (design) - \$35,000
- High School Turf Field Renovations - \$2,000,000
- High School replace Auditorium Carpeting - \$18,000

## **Proposed FY 23 Projects**

- High School Emergency Generator Upgrades - \$600,000
- School Drinking Fountain Filters - \$45,000

## **Middle School and Cedar School Parking Lots - \$1,000,000**

- Both the Middle School and Cedar School parking lots are in serious states of disrepair.
- This project will reclaim the existing pavement, adjust drainage, expand parking where available to better meet the existing needs of the schools, and correct some curbing and handicap access issues.
- Amount may adjust down as we hold meetings with stakeholders to further refine the scope prior to the close of the warrant.



















## **Cedar School Security- \$200,000**

- The prior article to reconfigure the entrance of Cedar School with a bullet proof transaction window and bullet proof storefront was inadequate to cover the low bid. The budget amount was \$256,357 and the lowest responsible bid was \$367,494.
- The original project called for
  - Renovations to the administrative suite, swapping the principal's office and secretaries' office.
  - The existing glass wall next to the front door would be bricked up and have a bullet proof transaction window.
  - The existing front doors would have bullet resistant film and a new bullet proof storefront of doors would be installed at the edge of the existing awning.
  - The project also made adjustments to the ramps leading to the front doors and interior access control improvements.



Cedar  
Elementary  
School



A blue wooden sign with a curved top, mounted on two wooden posts. The sign features the school's name in gold lettering and its establishment year in smaller text at the bottom.

Cedar  
Elementary  
School

Est. 1966





## **Cedar School Security- \$200,000**

- We are considering options to minimize disruption to the administrative suite or reduce the amount of bullet resistant glass, thereby reducing costs. Options include:
  - Creating a virtual transaction window, thereby eliminating the need to swap the admin offices with the principal's office.
  - Utilizing steel architectural panels on parts of the store front in lieu of glass, thereby reducing the quantity of bullet resistant glass.
  - Re-evaluate the level of ballistic glass on the main doors.
  - Considering possible health related technological improvements to the entrance due to the lessons learned from COVID.
- The proposed capital item will supplement the existing appropriation to achieve the original goal of securing the main entrance to Cedar School.

## **Middle School Rooftop Ventilation Units (design)- \$50,000**

- This is a two-year project to replace the rooftop ventilation units that provide heat, air conditioning, and general ventilation to the inner core spaces at the Middle School.
- The FY23 request is for funds to design the replacement units and related valve and control work.
- The FY24 request is to perform the construction, hopefully in the summer of 2023.







## **Middle School Asbestos Pipe Abatement -\$75,000**

- This project will abate asbestos pipe insulation on hot water pipes and valves that help control the temperature in the inner core rooms of the Middle School.
- This work will allow maintenance staff to safely access the control valves and will clear the way for planned improvements to the core HVAC in FY24.



## **Middle School Electrical Panel Upgrades (design)-\$35,000**

- This is a two-year project to replace the main electrical panel at the Hanover Middle School. The panel is original equipment.
- The FY23 request is for funds to design the replacement panel.
- The FY24 request is to perform the construction, hopefully in the summer of 2023. The upgraded panel will accommodate expansion for additional emergency power and future improvements to HVAC infrastructure.

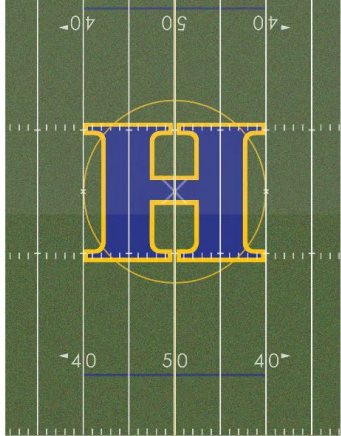


## **High School Multi-purpose Turf Field Upgrades - \$2,000,000**

- This is a planned replacement of the turf surface at the High School multi-purpose turf field, repairs and recoating of the track surface, and related work.
- Related work will include relocation of the long jump pit to the east end zone to allow for widening of the soccer field and better safety netting for Lacrosse as well as some optional improvements.
- Other improvements requested but not included in the project include additional bleachers, improvements to lighting and sound systems, and modifications to the spectator access points and plaza.

# Existing multi-purpose turf facility





ALTERNATIVE MIDFIELD LOGO



SEMI-PORTABLE BLEACHER (5 ROW)



# Proposed Upgrades

- 2. Track Improvements**  
Resurface and Re-striping of existing Track  
Repairs to surface heaving & blistering
- 3. Relocation of Long/Triple Jump**
- 4. Press Box Lift**
- 5. Semi-Portable Bleachers**  
Four (4) 5 Row, 58 Seat Units (232 total seats)
- 6. New Concrete Pavement for Visitor Bleachers**
- 7. Shot Put Renovations**
- 8. Athletic Storage Units**  
Two Locations shown for consideration
- 9. New Scoreboard and Sound System**
- 10. Renovated Entrance Plaza**  
Two (2) Ticketbooths and Entry Gates  
Expanded Plaza



## Existing facility with upgrades overlaid



















## SUMMARY OPINION OF PROBABLE COSTS

**Project:** Hanover High School - Track & Field Study  
**Project No** 21041.00  
**Phase:** Conceptual Design  
**Date:** 3-Nov-2021

### NOTES:

Due to the inflationary and unpredictable construction climate, this cost opinion may not represent the actual cost of construction.

This is an Opinion of Probable Construction Cost only and is based upon a preliminary design. Activitas has no control over the cost of labor, materials, equipment or services furnished. We also have no control over project schedules, contractor's means and methods of construction or their determination of prices, the competitive bidding market or negotiating conditions. Activitas cannot guarantee that this opinion will not vary from the actual bid and project costs.

There are no costs provided for client costs, financing of funding costs, legal fees, land acquisition or temporary/permanent easements, operations or any other costs.

### ASSUMPTIONS:

Sales tax exempt, prevailing wage rate construction.

No rock or ledge excavation is required unless otherwise noted.


Unsuitable, contaminated or hazardous materials are not contemplated unless otherwise noted.

NO.	ITEM	TOTAL
<b>BASE SCOPE (TRACK &amp; FIELD RENOVATIONS; PRESS BOX LIFT)</b>		
00001	MOBILIZATION AND SITE PREPARATION	\$40,000.00
00002	EARTHWORK AND TRACK & FIELD PREPARATION	\$41,354.85
00003	NEW SYNTHETIC TURF FIELD INSIDE TRACK	\$490,934.98
00004	400 METER TRACK RENOVATION	\$305,262.51
00005	PROTECTIVE BALL NETTING	\$59,800.00
00006	FIELD ELECTRICAL IMPROVEMENTS	\$13,000.00
00007	MOVEABLE ATHLETIC EQUIPMENT	\$33,380.00
00008	PRESS BOX LIFT	\$75,000.00
	<b>SUBTOTAL</b>	<b>\$1,058,732.34</b>
	4% General Conditions	\$42,349.29
	10% Contractors Overhead and Profit	\$105,873.23
	<b>CONSTRUCTION SUBTOTAL</b>	<b>\$1,206,954.86</b>
	15% Design Contingency	\$181,043.23
	8% Soft Costs and Design Fees	\$96,556.39
	<b>PRELIMINARY OPINION OF PROBABLE PROJECT COSTS</b>	<b>\$1,484,554.48</b>
	<b>ESCALATED OPINION OF PROBABLE PROJECT COSTS - (4%)</b>	
	2022	<b>\$1,543,936.66</b>
	2023	<b>\$1,605,694.13</b>
	2024	<b>\$1,669,921.89</b>

ADD ALTERNATES		
00009	ADD ALTERNATE 1 - RESILIENT UNDERLAYMENT	\$105,246.51
00010	ADD ALTERNATE 2 - BROCKFILL (ORGANIC INFILL)	\$40,600.00
00011	ADD ALTERNATE 3 - SPECTATOR SEATING UPGRADES	\$179,054.76
00012	ADD ALTERNATE 4 - SCOREBOARD & SOUND SYSTEM	\$156,600.00
00013	ADD ALTERNATE 5 - ATHLETIC STORAGE STRUCTURES	\$56,048.00
00014	ADD ALTERNATE 6 - SHOT PUT RENOVATIONS	\$22,696.28
00015	ADD ALTERNATE 7 - ENTRANCE RENOVATIONS	\$254,587.95
TOTAL PRELIMINARY OPINION OF PROBABLE COSTS		\$2,299,387.98



## **High School Auditorium Carpet Replacement- \$18,000**

- This is a planned replacement of the carpet in the high school auditorium
  - The carpet is now 11 years old and showing signs of wear.
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## High School Emergency Generator Upgrades - \$500,000

- The existing High School emergency power is limited to providing power for elevators, life safety systems and limited areas within the building.
- This project is an expansion of the emergency power capabilities at Hanover High School to both fully support future use of the high school as an emergency shelter and to provide an expansion of the areas with emergency power.
- The project will have a design phase and a construction phase. It is possible that a single generator can provide all the necessary power and the existing generators can be repurposed at other buildings such as Cedar School and Sylvester School.

## **School Drinking Water Filters - \$45,000**

- Trace amounts of lead and copper below federal action levels exist in some of the school drinking fountains. These residuals are lead and copper that may be leaching from old solder and old brass fittings. Based on test results we are replacing fittings and pipe where necessary and accessible.
- The goal of this capital project is to take care of any residual lead and copper and drive the levels in the school drinking fountains to as close to zero as possible.

## Work to do before the warrant closes

- Based on feedback from the Advisory Committee we will refine our numbers and the scope of projects.
- Parking Lot Project: Meet with School stakeholders and try to address the need for additional parking and traffic flow improvements at Cedar and Middle School. Consider the depth of existing pavement through core samples and determine if cold planing is a reasonable alternative to reclamation of some areas of the existing lots. Refine drainage improvements for both lots.

## Work to do before the warrant closes

- Cedar Security Project: Refine the plan with the school stakeholders and architect to nail down the scope and cost estimate.
- High School Turf Field Project: Review consultant's proposed scope and alternates with School administration in preparation of finalizing the warrant article.
- High School Auditorium Carpet: Obtain new quotes to validate the proposed budget amount.
- High School Generator Upgrades: Analyze existing emergency power capacity with respect to MEMA shelter requirements and have a serious discussion with Schools and local emergency managers on exactly how much of the High School we should target for emergency power.



Questions?