Capital Improvement Projects (CIP) FY2021 - FY2025

**Project Description**

1. **DIST** Classroom Computerization/Upgrade
   The technology department will continue its efforts to be in compliance with the obsolescence plan established in the District Technology Plan. We will work to replace outdated end-user hardware and enhance servers to improve overall efficiency and ensure all users continue to be able to access and utilize necessary network resources. To accomplish this, we will allocate our requested $200,000 towards purchasing computers and peripherals, as well as interactive panels to replace failing SMART boards throughout the District. With increasing reliance on computer based network resources, the above purchases are necessary to maintain critical resources used by students and staff throughout the District in their daily operations.

2. **DIST** Network Connection to Locations Outside of Complex
   Implement networking options to supplant the current Spectrum dark fiber connection to GHR and CGS. There are separate attachments regarding the WAN – Wanrack information.

3. **DIST** Furniture/Equipment Replacement.
   Purchase of furniture/equipment to replace old, broken or damaged furniture/equipment. The District’s plan is to replace furniture in 2 to 3 classrooms per school each year. With this current plan it will take on average 15 years to replace each classroom district wide. Once this is complete it will be time to start the cycle over. There is a separate attachment with estimates, which indicate approximately $7,000 per classroom.

4. **CHS** Fire Alarm Replacement
   Replace the fire alarms through the High School, Complex, and CNH. Installed in 1999, the system has had multiple false alarms due to failing devices and ground faults. The system has also been damaged by lightning strikes, which have damaged the power supplies. We can no longer purchase new parts for the system and rely on getting refurbished used parts that are not warrantied. When the system is not functioning correctly or is down the district is required to employ a fire watch staff member 24 hours a day. A quote is attached separately, which is to replace just the panels. This does not include new devices like heat, smoke, horns, and speakers. One of the issues with the system is the ground fault. There is a bad device or wiring somewhere. The current devices are not addressable making it almost impossible to track down the issues. The rough estimate is $100,000 to $130,000 for updating the devices and wiring.

5. **CHS** Cafeteria Reconfiguration.
   This project would open up the café to allow the school to service the students better and increase traffic flow allowing the students more choices and time. Pricing was through working with Fuss & O’Neil and the architect.

6. **CHS** Kitchen Refrigeration Equipment
   The Foods Service and Facilities departments have been working on tracking kitchen equipment end of life and repair cost with the use of School Dude. With this information, equipment that needs to be replaced will be replaced based on age and cost of repairs. They are as follows; CHS 1993 walk-in refrigerator, GHR 1995 walk-in refrigerator, CGS 1990 walk-in freezer. All three are past life expectancy and would be replaced over the next 3 years, based on condition. The estimate of $35,000 comes from past equipment replacement which was between $27,000 and $33,000. The additional $2,000 is to account for possible inflation.

7. **Dist.** Bathroom Remodel
   This project would look at remodeling 2 student bathrooms at each of the locations, CGS, GHR, and CNH. The remodel would include sheet rocking the walls, new ceilings and lights, new fixtures, refinish the floors, replace damaged stalls, and painting.

8. **DIST** Utility Vehicle
   The vehicle would be outfitted with snow removal equipment to reduce the overtime costs of snow removal and reduce the risk of injuries from snow removal slips and falls. Other than snow removal the vehicle would be used as a service vehicle for the Complex and could be used to replace the golf cart for athletics. The purchase of this vehicle would also reduce the need to replace aging snow removal equipment at the schools.
9. **CHS**  
**Relocate High School Weight room**  
During the NEASC visit it was pointed out that the current weight room does not meet the needs of the school. The space is too small and there are issues with HVAC. The best option would be to relocate the weight room to a new location. The current weight room does not have enough space and equipment to hold a class. The proposed budget includes equipment, HVAC, weight training area, and restrooms. The estimate for the new weight room is $80 per square foot. This includes the following: stamped prints, bathrooms, team room, office, HVAC, and interior plumbing and electrical. The building is 2,400 square feet and 1,750 of that is needed for the equipment area. The remaining space would include the team room, bathrooms, and the office. The equipment pricing is a separate attachment. Other estimates include $30,000 for site work and $10,000 for water, sewer, and electrical connections. Water and sewer will come from the warehouse and electrical would come from the complex. Todd Penney has been involved on the site location and he does not see any issues with the location.

10. **DIST**  
**Carpet Replacement**  
Replacement of carpet based on the highest priority of failing carpet first. According to the Carpet and Rug Institute, carpet that is properly selected, installed and maintained lasts up to 10 years or longer. Most carpets in the district are older than 16 years. This work is proposed over two years and will include large spaces such as the Media Center, Auditorium, etc. that are labor and time intensive. Also included in the funding will be HEEC carpet replacement and 50% of the replacement cost will be covered by HEEC funds.

11. **CNH/CHS**  
**Security Window Film**  
Security of the schools is an ongoing effort that the District has been working on with local and state agencies to provide the safest learning environment we can. The District has taken advantage of the state grant program to offset costs to the District. To continue to provide a safe learning environment, we are looking to fund the following upgrades. Window safety film installed at CNH and CHS on all exterior windows. This film stops access through windows even after being shot at or hit with an object.

12. **CNH/CHS**  
**Security Cameras, Bollards, and Access Controls**  
Additional access control upgrades both exterior and interior doors to better safeguard students and staff. Additional cameras for monitoring visitors and students allowing the Police Department more coverage of the schools.

13. **DIST**  
**Network Refresh**  
Technology is integrated into all district and town functions and we need to ensure that the network is able to support and grow in alignment with new and emerging IT trends and requirements. Our network provides access to resources essential in carrying out the daily operations of our schools and town. These include, but are not limited to, student information systems, financials, communications, building/network security, email, and document storage. The new dual-cluster server configuration, a key component of our disaster recovery system, will require robust networking at both the town and board of education locations to ensure timely data replication and fail over. Over time, the demands on the network have changed and will continue to change as the ways the district and town implement technology evolves. This funding will be used to update network, cabling, switches and wireless infrastructure to adequately support daily practice and ensure ongoing productivity for both the board of education and town services. Newer or recent network technologies are providing greater visibility and better manageability of the network infrastructure, both essential components of a quick response to cybersecurity threats. Ongoing evaluation of networking technologies will be factored in to the purchasing of any new equipment.

14. **DIST**  
**PSSS Van Replacement**  
This would replace the 2010 handicap van used to transport students. The van would be 11 years old at the time. Over the last year the van has been in the shop for repair four times for different issues. According to a verbal quote from the vendor, the cost will be between $63,000 and $68,000. In the event that the van does not pass DMV inspection, we would be required to either lease or contract a replacement vehicle at an estimated potential cost of $200 - $300/day.

15. **DIST**  
**Sand and refinish hardwood floors.**  
A typical MFMA maintenance schedule calls for an annual finish recoat and a complete resurfacing every 8-10 years, depending on facility use. This would keep the floors in good shape and extend the life of the
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floor. Currently the floors have been refinished in Hurlock 2015, CHS old gym 2017, CNH 2016, CGS 2018, GHR Gym 2012, GHR Café 2018. The goal is to get the floors on an 8 year cycle so every 4 years we refinish half of the floors.

16. CHS Band Room Compressor replacement
The compressor in this system was installed in 1999 and has a life expectancy of 15 years. The system was also damaged in the winter of 2015 when the snow load broke the piping. The piping was repaired, but the compressors where not replaced. We had the same problem with the Media Center compressors and they were replaced this summer.

17. DIST Maintenance Van Replacement
The van that we would replace is the 2010 maintenance van that will be 11 years old at this time.

18. GHR Exterior Work
The work included would be the repair and/or replacement of the exterior steps in the front and back of the building. Repairs and/or replacement of damaged sidewalks around the school.

19. DIST Custodial Equipment Replacement
Replace battery powered floor equipment at GHR, currently beyond life expectancy.
Replace battery powered floor equipment at CGS, currently beyond life expectancy.
This equipment is strategic in maintaining common area floors with minimal labor.

20. DIST AC Replacement
This project would replace multiple ductless split units District wide that where installed in 2000 and have a life expectancy of 15 years. With the newer systems, it would save the district money in maintenance and electrical costs. The units being replaced are in the 4 computer labs at CNH and CHS.

21. DIST Rooftop A/C Units
This project would replace rooftop units District wide that may not be done under the building committee because of the age of the unit. The units being replaced are 1 at CGS, 2 at CNH, and 1 at CHS. All the units are past life expectancy.

22. WH Maintenance Truck
Request of an additional four wheel drive vehicle to the Maintenance Department for safety and to service the district better. Last year’s winter showed the need to have a four wheel drive vehicle to get around the District during inclement weather to service the District heat plants and to ensure that the building were safe. The vehicle will also provide a safe way to transport items such as the lift, supplies, and trash around the District. This will reduce the need for rentals and the need to replace the trailer.

23. CNH Replacement Lockers
The current lockers are the original lockers from construction of the school. The lockers have been repainted after the construction project and some new hardware was installed. With the years of use the doors have become bent and the hinges are starting to fail. This is making repairs difficult and there are a number of lockers that cannot be used by students.

24. CHS Asbestos Abatement
During testing for the Cafeteria abatement project it was found that there are 18 classrooms that have asbestos VCT under the new VCT. This project would remove all the VCT and mastic containing asbestos and replace with new VCT.

25. CHS/CNH Install AC units in the LGI and Lecture Hall
Currently the LGI and Lecture Hall are being used not only for a classroom, but is used for staff meetings, training as well as outside group use.

26. CHS/CNH Crack Seal all CNH/CHS parking lots.
Pricing for the crack sealing is $1 per square yard. The total for the District is 28,600 square yards. This would include CNH, CHS, Preschool, and Complex parking areas. This would not include CGS and GHR, as they are in the CIP to be replaced and would not require crack sealing.
27. **CHS** Lecture Hall seat/tablet replacement.
The Lecture Hall seating/writing tablet system is fragile, requiring ongoing repairs as tablets break off almost as quickly as we can repair them. If we are to preserve the purpose of this venue, we will need to replace this equipment to a more durable system. Parts have not been available for the existing system for some time, with specialized fabrication as our only repair alternative.

28. **DIST** Fire Proof File Cabinets
This would replace the current standard filing cabinets that are used to store the District personal and financial records. The current filing cabinets do not safeguard the Districts information from fire or water damage. This would allow us to protect the Districts vital information.

29. **CHS** Vinyl Composition Tile (VCT) Floor replacement/asbestos abatement.
The Cafeteria VCT was installed over asbestos-containing tile and/or mastic in year 2000. Cafeteria VCT is rapidly failing, due to adhesion and blistering issues relating to the underlying Vinyl Asbestos Tile (VAT). This project is eligible for a school construction grant.

30. **CHS/CNH** Fire Door Modification
During an inspection it was found that there is a fire code violation that requires a rated fire tunnel between any of the 1999 addition and the original building. To correct the issues 5 fire tunnels need to be installed through-out the complex at doorways that connect the sections. The tunnels have fire doors at either end and would be constructed to meet the 1 ½ fire rating that is required.

31. **CHS** Install VFD’s
Install VFDs and occupancy controls & optimize control sequences for AHU’s serving 2 gyms. The gyms are served by constant volume AHU’s. Variable frequency drives (VFD’s) would allow the fan motors to adjust to seasonal and/or temperature requirements. The occupancy sensors would allow the spaces to set back when empty. More sophisticated control strategies such as control ventilation, dual enthalpy economizer cycles, etc. would also be implemented. $900-1,800 oil savings/yr.; $4,800-5,800 electric savings/yr.

32. **CHS** Replace original Classroom unit ventilators.
The original classroom HVAC equipment is reaching the end of life expectancy and a replacement plan should be adopted.

33. **CNH** Replace original Classroom unit ventilators.
The original classroom HVAC equipment is reaching the end of life expectancy and a replacement plan should be adopted.

34. **CHS/CNH** Exhaust and fresh air system
Install a system that would supply tempered fresh air while exhausting the building. The system would work with the new classroom heat to satisfy the space when occupied.

35. **CHS** Administration area perimeter heat
Install individual control valves on perimeter radiation for administration area. The administration area is served by an AHU that has two reheat coils serving approximately 8 different spaces. There is also perimeter heat that is uncontrolled. Installing control valves for the perimeter heat in each space would prevent the spaces from overheating.

36. **CHS** Add dedicated heat/make-up air unit for the kitchen.
The make-up air and heat source for the kitchen hood exhaust is from the Cafeteria. This is only possible if the doors between the server and the cafeteria are open and the kitchen exhaust fan is operating. If
these two conditions are not met, then the kitchen has no heat source. It has been reported that water pipes in the kitchen have previously frozen.

37. CHS/CNH  Electric Sub Metering
   Install mobile remote monitoring devices on large energy items throughout the School. This would allow us to monitor equipment for changes in energy use catching issues before it cost the District extra in energy and repair costs.

38. CNH  Replace GYM Air Handling Unit
   Replace aging AHU unit with an energy efficient unit that has VFD. This would save the District not only energy costs, but also repair costs.

39. CHS/CNH  Lightning Protection.
   The High School and Middle School, emergency generator and associated buildings have sustained damage from lightning and/or electrical surge events on a continuing basis. We have lost circuit boards in electronic devices in the school, and controls and circuit boards on the generator that serves the High School Community Shelter. These interruptions in service have been both costly and disruptive. The project includes a complete system of lightning protection in accordance with Underwriters Laboratories Inc., Lightning Protection Institute and the National Electrical Code. Air terminals, ground electrodes, conductors, connectors and fasteners used to ground to water system, power ground, plumbing/heating systems, AC units, antennas and all equipment per code standards, will be installed for the purpose of preventing or lessening the damage due to lightning strikes.

40. CGS/GHR  Portable Generator/ATS installation.
   The town is considering use of a portable generator that could be transported between buildings to keep pipes from freezing, food from spoiling and other building issues, if power were to be lost with sub-freezing temperatures. This project is for installation of the connections and safeguards necessary to accommodate this program.

41. CGS  Replace original classroom unit ventilators.
   The original classroom HVAC equipment is reaching the end of life expectancy and a replacement plan should be adopted.

42. CGS  Exhaust and Fresh air system
   Install a system that would supply tempered fresh air while exhausting the building. The system would work with the new classroom heat to satisfy the space when occupied.

43. CGS  Replace gym AHU
   Replace aging AHU with an energy efficient unit that has VFD. This would save the District not only energy costs, but also repair costs.

44. GHR  Replace original classroom unit ventilators.
   The original classroom HVAC equipment is reaching the end of life expectancy and a replacement plan should be adopted.

45. GHR  Exhaust and Fresh air system.
   Install a system that would supply tempered fresh air while exhausting the building. The system would work with the new classroom heat to satisfy the space when occupied.

46. GHR  Replace Café Air Handling Unit
   Replace aging AHU with an energy efficient unit that has VFD. This would save the District not only energy costs, but also repair costs.

47. GHR  Install hydronic perimeter heating system for the Media Center.
   The original perimeter heating system for the Media Center was replaced with electric resistance heating elements. Converting to hydronic and connecting to the boiler plant would allow the space to be heated by less expensive means.
48. CGS  Parking Lot Replacement  
The current parking lots are over 17 years old and beyond repair due to large cracks and sections where the asphalt is breaking apart. This project would remove the old asphalt, curbing, and storm drains and will include the upper and lower lots, as well as the front turn around.

49. GHR  Parking Lot Replacement  
The current parking lots are over 17 years old and beyond repair due to large cracks and sections where the asphalt is breaking apart. This project would remove the old asphalt, curbing, and storm drains and will include the upper and lower lots. The pricing may be lower if we can do the project with one of the Towns road projects. Estimated price does not include the reconfiguring of the parking lot.

50. CHS/GHR  Roof Replacement  
This project would replace the current flat roof over the High School and Complex. The roof was installed in 1999 during the renovation and has been leaking the last couple years. At GHR it would replace the roof over the 5th grade wing that was installed in 1999. This project is reimbursable from the state.

51. DIST  Window Replacement  
Replace windows at all four schools with energy efficient windows. This is an estimated cost, due to the complexity of the project, it would have to be engineered.

52. GHR  Roof Replacement  
The roof was installed in 2011 and would reach the 20 year mark in 2031. This project would include the original section of GHR and the gym. The 5th grade wing is scheduled to be replaced in 2020.

53. CNH  Roof Replacement  
The roof was installed in 2011 and would reach the 20 year mark in 2031. This project would include all of the CNH roof up to the complex.

54. CGS  Roof Replacement  
The roof was installed in 2011 and would reach the 20 year mark in 2031. This project would cover the complete roof at CGS.