

**BOND ISSUE  
POTENTIAL SCOPE OF WORK**

<b>PROJECT</b>	<b>COST</b>
21st Century Technology District Wide	\$30,641,000
Auditorium/Fine and Performing Arts Classrooms	\$24,070,000
Update Office Location (K-6)	\$2,000,000
Cafeteria and Kitchens (5-6, 7-8, 9-12)	\$5,200,000
Roof Improvements	\$3,000,000
Entrance Ways	\$2,500,000
Facility Upgrades	\$114,060,000
Furniture	\$7,583,000
Maintenance & Operations/Buses/Equipment	\$5,946,000
<b>Total</b>	<b><u>\$195,000,000</u></b>


**LIVONIA PUBLIC SCHOOLS  
REPLACEMENT OF OPERATIONS EQUIPMENT**

OPERATIONS EQUIPMENT	DESCRIPTION	REPLACEMENT OF 100%	REPLACEMENT OF 50%
Custodial Equipment	Replacement and upgrade of equipment in schools and facilities including items such as; floor maintenance equipment (scrubbers, vacuums), exterior equipment (mowers, trimmers), tractors, and tools	\$ 1,203,000	\$ 601,500
Maintenance Equipment	Replacement and upgrade of equipment in the maintenance department including such items as; (larger) mowers, tractors and equipment for yard and lot maintenance, equipment and tools for plumbing and pipe maintenance, equipment for air quality maintenance (dehumidifiers, air scrubbers,) and other tools for ongoing upgrade of HVAC and other mechanical systems	\$ 1,097,000	\$ 548,500
Transportation	Replacement of 61 conventional and mini buses (100%)	\$ 4,796,000	\$ 4,796,000
Total Operations Equipment Replacement		\$ 7,096,000	\$ 5,946,000

This recommendation for Operations and Maintenance is for 100% replacement of current equipment.

***Operations department maintains 38 facilities ranging from 9,100 square feet to 381,000. A total of 3.1 million square feet of facilities as well as 700 acres of grounds, sidewalks, parking lots, etc.***

**LIVONIA PUBLIC SCHOOLS  
2013 BOND SUMMARY OF TECHNOLOGY ITEMS**

	<b>Category</b>	<b>Example Description</b>	<b>Amount</b>
<b><i>New District Wide Technologies:</i></b>	Classroom Technology	Computers, Multimedia Projectors, and document cameras for teacher stations	\$2,524,500
	Mobile Learning Devices	Shared Tablets, SmartPhones, Netbooks in elementary classrooms (partial allocation 6-10), shared classroom carts in secondary	\$5,806,400
	Community Rooms	Sound Systems, Multimedia Projectors, document camera, etc.	\$500,000
	Wireless Network	Wireless Infrastructure, Access Points throughout the building	\$5,000,000
<b><i>Replacement, Upgrade or Addition to Existing Technologies:</i></b>	Computers	Computer Labs Media Centers Administrative	\$4,372,415
	Communications	Integrated Public Address, Sound and Telephone system	\$3,400,000
	Safety and Security	Surveillance Cameras, Card Access system, Alarm System	\$1,415,000
	Network Upgrades	Switches, Firewall, Fiber Network	\$1,360,000
	Printers and Copiers	Laser Printers and Multi-function Copiers	\$1,100,000
	Servers and Infrastructure	Various Servers and Infrastructure Components	\$1,295,000
	Technology Cabling	Cabling for Network Drops and Cameras	\$500,000
	Furniture	Replace Furniture in Technology Labs	\$582,500
	<b>Total Technology Costs</b>		<b>\$27,855,815</b>

# School Improvement Project

## A Site Improvement

- New Playground Equipment/Exterior Updates
- Replace pressbox at Football Field

Elementary	Middle School	High School
✓	✓	
		✓

## B Building Envelope Improvement

- Replace windows with energy efficient window systems
- New window treatments
- Replace exterior doors and frames
- Replace plaster soffits/fascia's at entries and exits

✓	✓	✓
✓	✓	✓
✓	✓	✓
✓		

## C Building Interior Improvements

- Repair terrazzo flooring
- Remove VAT and replace with VCT flooring
- Paint walls
- Replace/Add new acoustical ceiling systems and lights
- Replace interior doors and hardware
- Replace/Add new casework
- New marker boards and tack boards
- Locker replacement/new
- Renovate Locker Rooms
- Restroom improvements/accessibility compliance
- Music/Instrumental Room improvements
- Replace moveable partitions with permanent walls
- Auditorium renovation (Churchill)/replacement (Franklin and Stevenson)

		✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
	✓	✓
✓	✓	✓
✓	✓	✓
	✓	✓
		✓
✓		✓
		✓
✓		
		✓

## D Plumbing Improvements

- Replace domestic water piping
- Replace domestic hot water heating system
- Replace drinking fountains/accessibility compliance
- Replace toilets, urinals and sinks in Restrooms/accessibility compliance

✓	✓	✓
✓	✓	✓
✓	✓	✓
✓		✓

## E Mechanical Improvements

- Install new vertical unit ventilators in Classrooms
- Replace roof exhaust fans
- Install new HVAC unit at Front Office and LMC
- Replace temperature controls with DDC
- Balance HVAC system
- Rework Boiler Room piping
- Replace/upgrade Energy Management System
- Replace fume hoods

✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
		✓

## F Electrical Improvements

- Upgrade distribution panels
- Replace transformer
- Replace and add more power panels
- Upgrade emergency lighting
- Electrical power upgrades
- Replace fire alarm system
- Replace/upgrade PA/speaker system

✓	✓	
✓	✓	
✓	✓	
✓	✓	
		✓
✓	✓	✓
✓	✓	✓

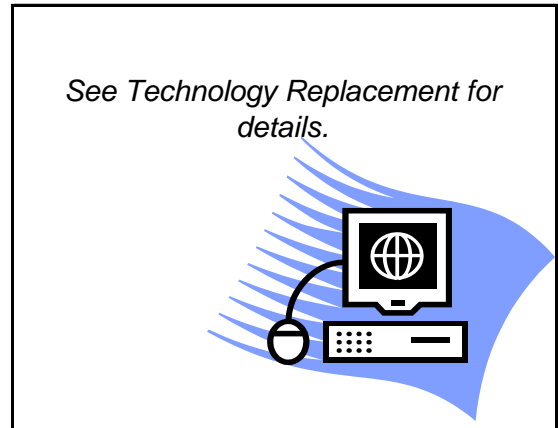
**F Electrical Improvements (cont.)**

- Replace/upgrade Master Clock system
- Replace/upgrade Security systems
- Lighting upgrades throughout the school
- Replace exterior wall lights
- New Emergency Generator
- Replace emergency generator
- Additional outlets for Technology

Elementary	Middle School	High School
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓		
✓	✓	
		✓
✓	✓	✓

**G Technology Improvements**

- Projection devices in each Classroom
- Wireless access points in each school (enough to have every classroom in the school able to connect)
- Replace network switches
- Add network capacity
- Add network security/reliability
- Add/replace server
- Add mobile computing devices for each school
- Replace telephone system
- Provide for student email
- Upgrade/replace printers
- Security upgrades/additions, including busses
- Install Classroom computer centers



**H Miscellaneous Improvements**

- Asbestos abatement

✓	✓	✓
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## FURNITURE

GRADE LEVEL	CLASSROOM FURNISHINGS	COST
Elementary	Student desks & chairs and tables	\$1,222,000
Secondary	Student desks, chairs, tables; science, art room, and cafeteria tables	\$2,714,000
Other	Teacher & administrative chairs	\$132,100
	<b>Total</b>	<b>\$4,068,100</b>




## INSTRUCTIONAL EQUIPMENT

All Grade Levels	Music, science and other instructional equipment	\$3,514,900
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