

CAPITAL PROJECT UPDATE

- Full Day Working Session on November 2, 2016
- Full Day Working Session on November 3, 2016
- Flexible Furniture Work Session on December 6, 2016
- Preparation of Scope of Work Narratives and Drawings
- Submission of Scope of Work to the District on December 16, 2016
- **Next Steps – Pricing of Scope of Work Packages – Complete January 2017**

January 10, 2017



FLEXIBLE FURNITURE



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FURNITURE FAIR – WHAT TYPE OF FURNITURE?

Working with School Specialties on Beta Classroom
Furniture – Possible Furniture Donations or Reduced Cost
Depending on Manufacturer

- **Student Desks**

- Sit to Stand
 - Standing height
 - Diamond shaped

- **Student Chairs**

- 4-Leg, mobile with under seat storage
 - Flexible, caster base with tablet arms

- **Alternate Seating**

- Self balancing stools
 - Balance boards
 - Seating that incorporate exercise balls
 - Lounge style, soft seating

- **Storage**

- Mobile
 - Cubbies
 - Totes
 - Open
 - Curved
 - Straight

- **Tables**

- Stacking – thumbprint shaped and mobile
 - Nesting – height adjustable and mobile
 - Lab/Art – phenolic top, mobile, ADA accessible and height adjustable
 - Tables – marker board hooks/holders

- **Teacher Desk**

- Height adjustable
 - Conference table/lectern
 - Mobile desk with attached lectern

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TECHNOLOGY HARDWARE & CONNECTIVITY

(Develop priorities alongside existing “Technology Plan 2015 – 2020” – multiple projects in progress or planning)

Main Priorities:

1. Upgrade digital infrastructure
2. District-wide WIFI connectivity
3. Communication systems
4. Clocks/bell system

Overall Scope:

1. Telecom rooms
 - Will include architectural, environmental work
2. Building L-3 core switch
 - Full replacement
3. Edge switches
 - Full replacement
4. Wireless network headend
 - New wireless controller
5. Building wireless network
 - Network replacement

6. Classroom video displays
 - Part of full classroom upgrades
7. School intercommunication system
 - Internal building, district and mass emergency upgrades
8. Classroom sound reinforcement system
 - Part of full classroom upgrades
9. Structured cabling
 - Full replacement

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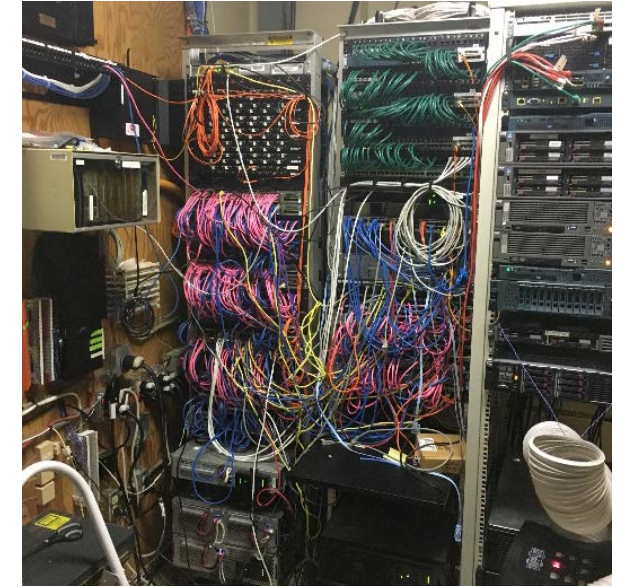
TECHNOLOGY HARDWARE & CONNECTIVITY



TYPICAL TEACHING WALL



HIGH SCHOOL – COMPUTER LAB



HIGH SCHOOL – IT CLOSET



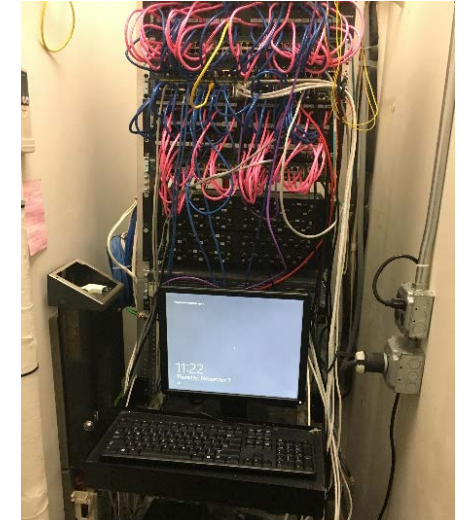
MERCER – COMPUTER LAB



WOODBURY – RACK STORAGE



ONAWAY – AGING COMM. SYSTEM



ONAWAY – IT CLOSET

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CHILLERS & BOILERS

Main Priorities:

1. High School boiler replacement
2. System Upgrades – temperature control
 - a. Unit-vent replacements
3. Prioritize other schools for remaining fund allocation or next phase
 - a. Woodbury
 - b. Mercer
 - c. Middle School – Pool System
4. Backflow prevention
 - a. Mercer

Considerations:

- a. Energy efficiency
- b. Labor costs
- c. House Bill 264

Overall Scope:

1. New Building Automation System (BAS)
 - Direct Digital Control (DDC) building automation systems
 - System-wide scheduling, controlling and energy benchmarking
2. New boiler plants
 - Load analysis and life-cycle costing
 - Demolition and removal
 - Code compliance for all mechanical spaces
3. New terminal equipment
 - Life-cycle analysis
 - Most require full replacement
 - Repairs to include new control equipment, wiring, abatement
 - BAS integration
 - ASHRAE Compliance

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CHILLERS & BOILERS



MERCER



HIGH SCHOOL



HIGH SCHOOL



BOULEVARD



ONAWAY



WOODBURY



WOODBURY

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ROOF REPLACEMENTS

1. High School
 - a. Large areas of flat roof require replacement
 - B. Areas of sloped slate roofs need to be addressed
2. Onaway Gym Roof
 - a. Large skylight curbs at area of new roof
 - B. Extensive sloped slate roof repairs required
3. Fernway
 - a. Slate roof in better shape than High School and Onaway
 - b. Poor roof drain locations, evidence of water below membrane
4. Lomond
5. Woodbury



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SECURITY CAMERAS & ALARMS

Main Priorities:

1. All elementary schools with exterior cameras (5-7 year lifespan)
2. Centralized security station (visual access)
3. Improve and standardize security network (smartphone access)
4. Radio upgrades
 - a. Transmission from all schools
 - b. Additional repeaters
 - c. Radios in vehicles
5. Additional access control doors
6. Develop priority systems for lockdown scenarios (crisis mgmt. Plan – SchoolDude App)
7. Separate lockdown system (separate from fire control)
8. Secure entry vestibules
9. Panic buttons
10. 911 upgrade – room locator system
11. Motion sensors

Overall Scope:

1. Physical access control
 - Card readers, cameras
2. Upgrade or replace intrusion detection panels
 - Interface with access control systems
3. Video surveillance
 - Upgraded infrastructure and equipment
4. 2-Way radio communication system
 - Campus-wide access

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SECURITY CAMERAS & ALARMS



ONAWAY



WOODBURY



WOODBURY



MERCER



HIGH SCHOOL



HIGH SCHOOL

December 16, 2016

ELECTRICAL SYSTEM UPGRADES

Main Priorities:

- Assessment of generators
- Clean power for IT closets
- Emergency power at each building
- Outlets in educational spaces
- Room flexibility (panduit)
- Sub-panels (labs)
- Segregate loads

Overall Scope:

1. Infrastructure upgrades for telecom
 - Equipment upgrades, IT closet upgrades, wiring
2. Infrastructure upgrades for electronic safety and security
 - Upgrades to communication, access and monitoring capabilities
3. Mechanical equipment
 - Support for new mechanical equipment
4. Normal power distribution upgrades
 - Code compliance
5. Emergency power distribution upgrades
 - Review temporary generators

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ELECTRICAL SYSTEM UPGRADES



MERCER – PANEL BOARD



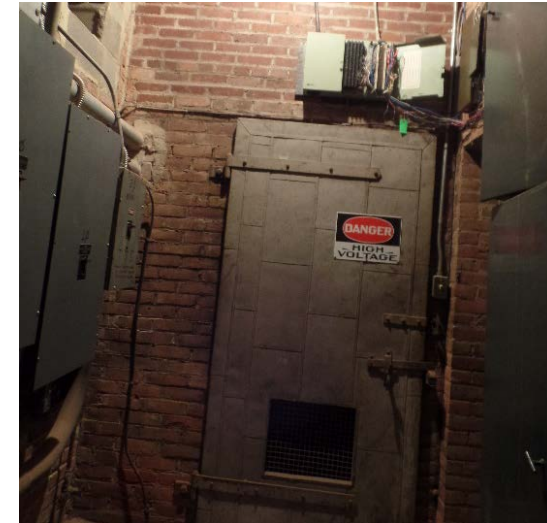
HIGH SCHOOL



ONAWAY – SWITCH ROOM



GENERATOR



WOODBURY – SWITCH ROOM

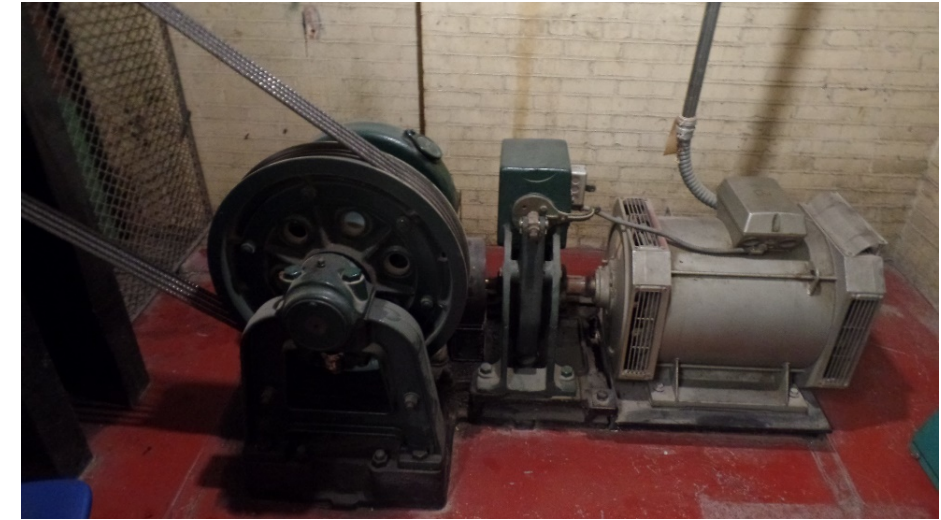
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REQUIRED ADA IMPROVEMENTS

1. High school elevator
 - a. Assessment and full replacement
2. Determine additional priorities for funds remaining:
 - a. Ramp at Onaway – repairs and compliance
 - b. Woodbury lower level MH rooms – overall facility layout impedes accessibility
 - c. Fernway exterior access – interior access needs to be addressed
 - d. Mercer – upgrades to non-compliant ramps, classroom access issues



INSUFFICIENT CLEARANCE



AGING TRACTION ELEVATOR EQUIPMENT
HIGH SCHOOL



REQUIRED ADA IMPROVEMENTS



ONAWAY – NON-COMPLIANT CURB RAMP



ONAWAY – EXTERIOR RAMP



WOODBURY – LIBRARY LIFT



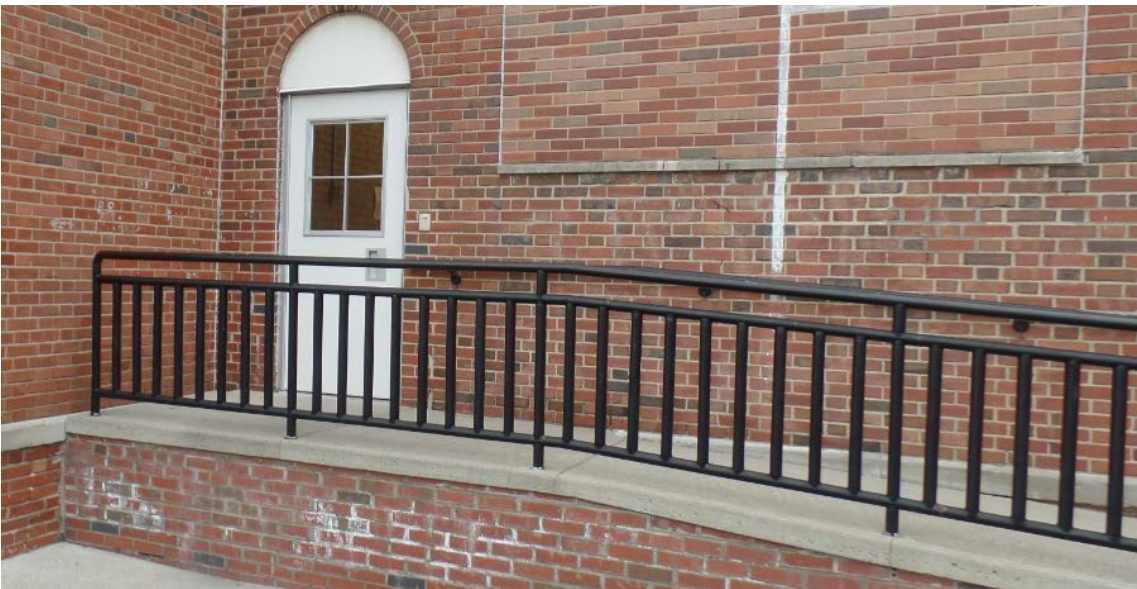
WOODBURY - ELEVATOR

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REQUIRED ADA IMPROVEMENTS



FERNWAY – INACCESSIBLE ENTRY



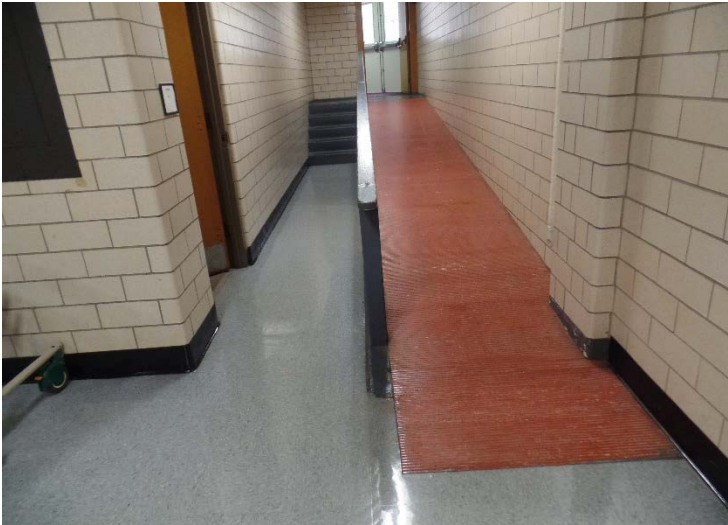
FERNWAY – EXTERIOR ACCESS



MERCER – INACCESSIBLE MUSIC ROOM



MERCER – NON-COMPLIANT STAGE RAMP

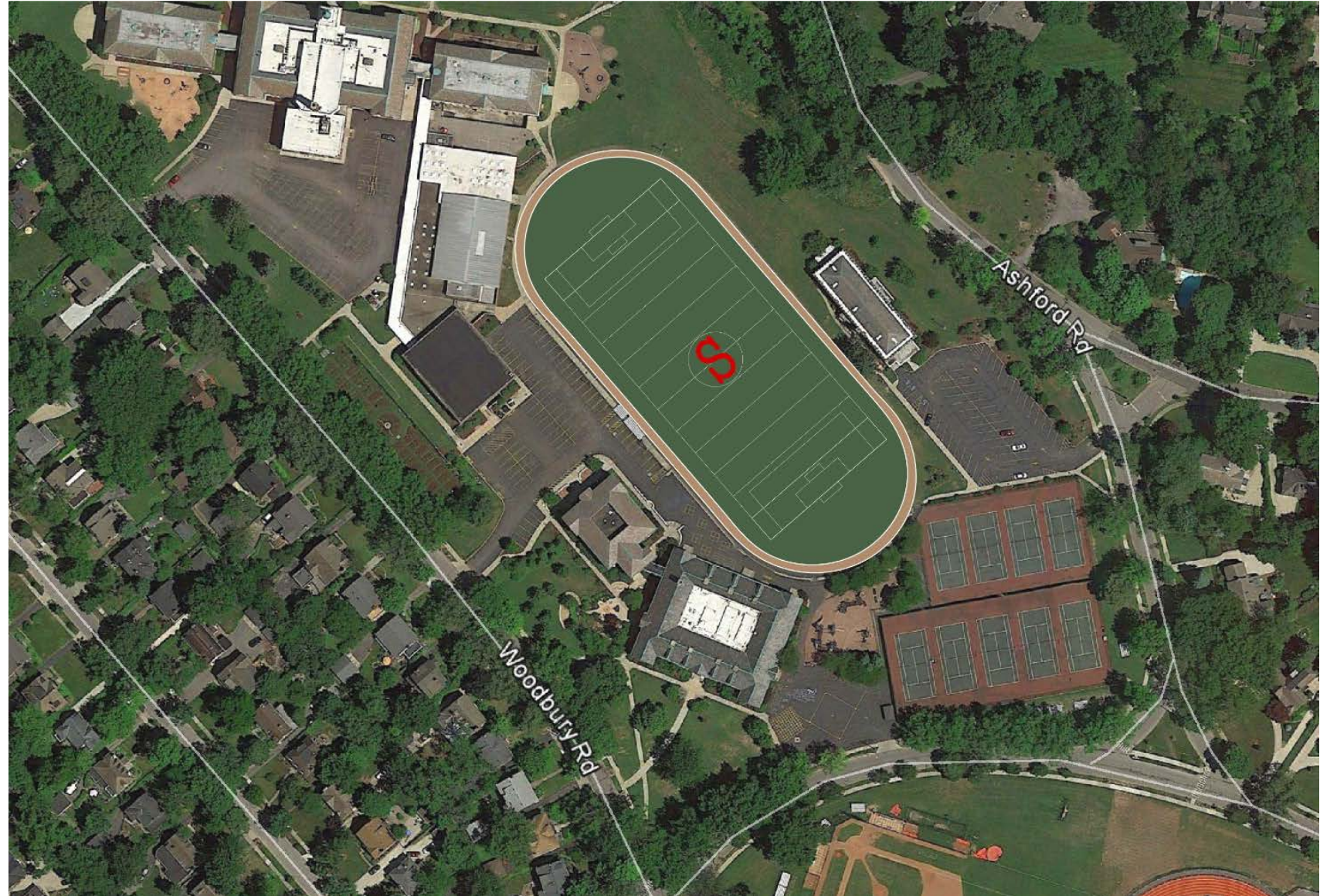


MERCER – NON-COMPLIANT RAMP

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ATHLETIC FIELD IMPROVEMENTS

1. New turf field (\$1M)
2. Storm water management
3. 3 lane walking track
4. Perimeter fencing



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