

1. Schedule Overview

Year 1 Projects – Summer 2016

- Re-cable 1/2 of buildings that currently only have Category 5 cabling.
- Replace phone system to support E911
- Provide means for data warehousing and document portability for BYOD
 - May shift to year 2 along with network infrastructure
- Pilot replacements for interactive whiteboards/projectors
- Additional mobile devices and device pilots
- Replace language lab equipment at Groves and Seaholm

Year 2 Projects – 2016-17

- Re-cable 1/2 of buildings that currently only have Category 5 cabling.
- Upgrade network to provide gigabit to all devices & 10 gig backbone
 - Shifted into year 2 to allow for re-cabling in year 1
- Replace firewall and provide network performance tools
- DHE Room upgrades, UPS, and fire suppression
 - Shifted from year 1 to align with Covington renovation schedule
- Replace desktop computers
- Replace graphic arts workstations
- Replace music lab equipment at Groves and Seaholm
- Replace printers and CADD plotters
- Provide additional peripherals

Year 3 Projects – 2017-18

- Replace clock systems district-wide
- Replace interactive whiteboards/projectors
- Replace document cameras
 - Shifted from year 1 to allow for pilots and to align with projector/sound field replacement
- Replace classroom sound systems at elementary buildings
- “Emerging Technologies”
- Laptops and mobile devices
 - May shift to year 2
- Replace curriculum-specific equipment (robotics, tech ed.)

Year 4 Projects – 2018-19

- Replace video surveillance at Groves and Seaholm
- Provide mobile devices

Year 5 Projects – 2019-20

- Replace interactive whiteboards/projectors
- Provide mobile devices
- Replace wireless network
 - May shift forward to align with new network and support new devices

2. Network Replacement Notes

- Overview
 - Replace structured cabling in buildings with Category 5 cabling that does not meet the gigabit Ethernet specifications.
 - Replace network infrastructure to upgrade speeds from 100MB to each device to 1GB to each device
 - Most existing switches have a manufacturer End of Support date between 1/30/14 and 11/5/16, rest are 5/23/17
 - Replace firewall to support 10GB to Oakland Schools
 - Have begun manufacturer product demonstrations and work sessions
- Cabling Infrastructure:
 - Category 5 cabling which is not rated to support gigabit speeds is currently installed at
 - Bingham Farms Elem
 - Pierce Elem
 - Quarton Elem
 - West Maple Elem
 - Berkshire MS
 - Derby MS
 - Covington
 - Groves HS
 - Seaholm HS (MDF, IDF 3, and IDF 14/Annex only)
 - Transportation
 - Beverly, Harlan, Pembroke, Midvale, Maintenance, much of Seaholm HS is Cat 5e or Cat 6
 - Will re-cable the Category 5 buildings over summer 2016 and 2017
- Schedule – Phase I Cabling (anticipate elementary schools and Berkshire Middle School):
 - Design Jan/Feb 2016
 - Bid/Award Mar/Apr 2016
 - Implement Summer 2016
- Schedule - Phase II Cabling/Network Equipment
 - Design Oct/Nov 2016
 - Bid/Award Dec/Jan 2017
 - Implement Summer 2017

3. Phone System Notes

- Overview
 - Replace phone system with new IP-based phone system capable of supporting E911.
 - E911 provides emergency dispatch with area of building or room number in addition to the building address.
 - Researching coordinating with other organizations
- Schedule:
 - Design Jan/Feb 2016
 - Bid/Award Mar/Apr 2016
 - Implement Summer 2016
- Potential Issues:
 - Re-using the existing network infrastructure in 2016 may require minor reconfiguration in 2017 as the new network infrastructure is installed.

4. Pilots

- Overview
 - Digital Tools Study Group meetings
 - Discuss device and classroom pilots
 - Discuss Google vs. Office 365 pilots
 - Take and discuss staff survey that will be issued
 - Document Portability Platform and collaborative tools
 - 50+ Teachers using Google Apps for Education(GAFE)
 - 2 Classes Office 365
 - Virtual Desktop Infrastructure/ VMware
 - Teacher Devices
 - Venue 11
 - Dell Laptops
 - Chromebooks
 - Student Devices
 - Students- 400+ students using GAFE
 - Derby 22 Chromebooks,
 - Ordering 3 Chromebooks Carts
 - 1 Elementary
 - 1 Middle School
 - 1 High School
 - Classroom
 - 27 classroom pilots across the district
 - Document Cameras
 - Sound Systems
 - AV Refresh
- Schedule
 - Document Portability Platform February 2015- March 2016
 - Teacher Device Pilots November 2015- January 2016
 - Student Device Pilots December 2015- December 2016
 - Classroom Pilots February- December 2016
 - First Major Rollout For 2017-18 school year
- Potential Project Adjustments
 - Staff and administration have asked to shift deployments ahead of original bond schedule
 - Bond budget was based on existing equipment (i.e. some interactive whiteboards, some interactive projectors). Anticipate using a district-wide classroom average budget instead to provide consistency.
 - Take portion (maybe 5%) of related bond budgets and allocate for pilots
 - Replacing classroom desktops with more mobile devices
- Potential Issues
 - Chromebooks cannot run some programs (Power Teacher Grade Book, some math manipulative website)
 - Timing with other bond tech projects