

# 2014 Bond Referendum Technology Infrastructure Status For the Long Range Planning Committee

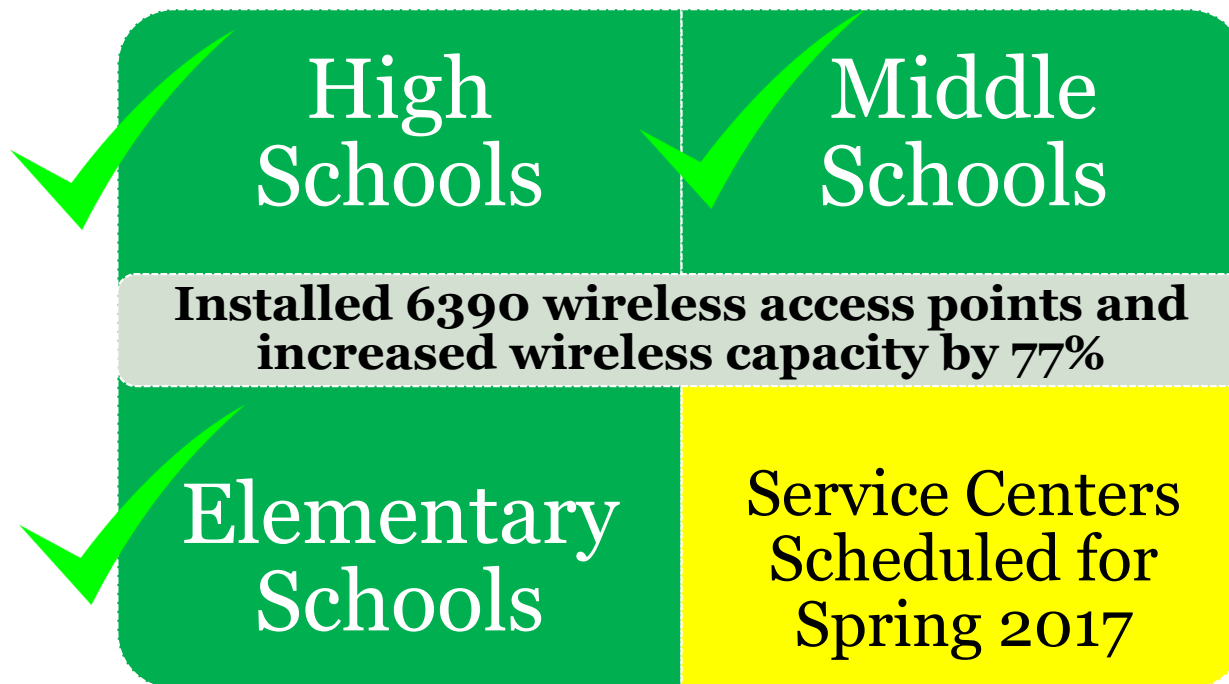
November 1, 2016



**CYPRESS FAIRBANKS**  
INDEPENDENT SCHOOL DISTRICT  
LEARN • EMPOWER • ACHIEVE • DREAM

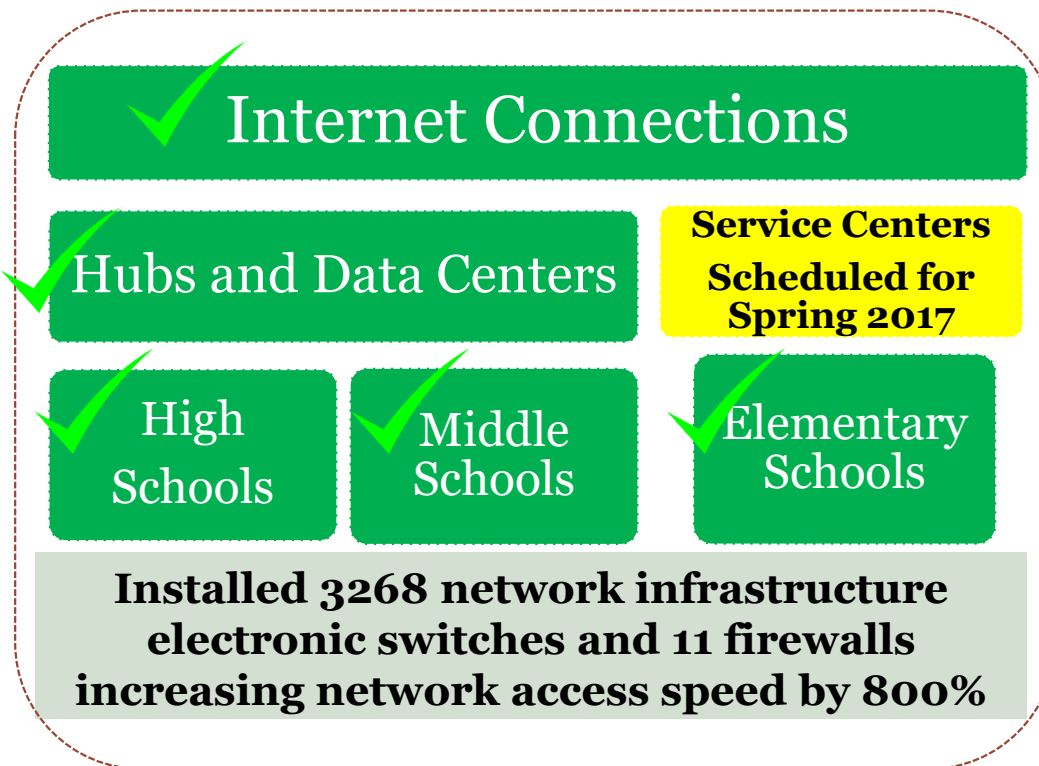
# **Project#1:** Installed enterprise state-of-the-art, high-speed wireless access infrastructure that includes:

- ✓ Up to 3 wireless device connections
- ✓ Bring Your Own Technology (BYOT) program
- ✓ Secured visitor access
- ✓ Outdoor wireless coverage



## **Project #2:** Installed high-speed network electronic switching gear that provides:

- ✓ Secured, high-performance communications from the end-user devices in:
  - Schools, Service Centers, Hubs, Data Centers, and
  - Internet connections



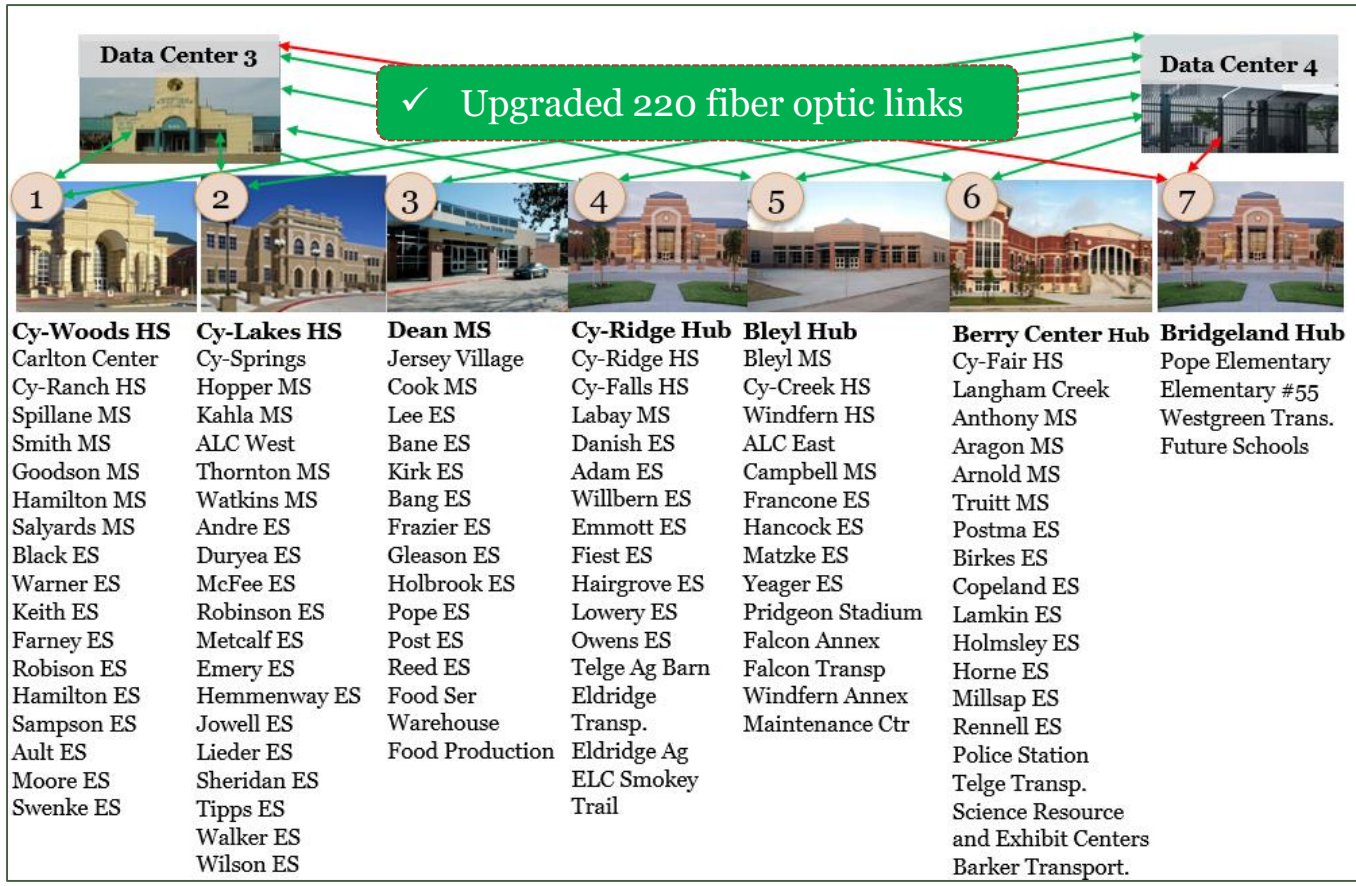
# Project #3: Upgraded network cabling, fiber optic connectivity, power, and network closets in the schools, service centers, hub connections, and data centers that:

- ✓ Expanded access for faster connectivity and network reliability
- ✓ Installed adequate air conditioning in secondary schools

**Installed 3442 high-speed cables**

**Connected 85,920 network components**

**Installed 195 Air Conditioning Units**



**Elementary and Service Centers Upgrades Pending**

# **Project #4:** Upgraded Data Center Infrastructure to make more efficient use of server resources, and improve server availability and system sustainability.

- ✓ Upgraded Data Center 2 and 3
- ✓ Moved into a colocation facility (outside the district)
- Building a Virtualized Server Data Center
- Installing a Storage Area Network (SAN)
- Building Backup, Recovery, and Business Continuity



**Building Data Center 4  
Colocation Facility  
(External to CFISD)**

- Primary Internet Point of Presence ✓
- Telephones and Security Systems
- Mission Critical Applications
- Scheduled completion is 2017



**Upgraded Data  
Center 3  
Primary District  
Data Center**

- Secondary Internet Point of Presence ✓
- Core Network Routing Infrastructure ✓
- Campus WAN Fiber Connections ✓



**Upgraded Data  
Center 2  
Secondary  
District Data  
Center**

- Inhouse Technology Applications ✓
- Data Archival ✓
- Secondary backup recovery site ✓

# **Project #5:** Upgrading staff's technology and telephone systems will provide state-of-the-art equipment for staff and teachers.

- ✓ Replacing telephone system with Voice Over Internet Protocol
- ✓ Replacing staff and teachers classroom computers
- ✓ Replacing all district network printers and servers

## **Installing New Phone (VoIP) System**

✓

Bleyl  
Carlton Center  
CyFair HS and Annex  
Andrew ES  
Arnold MS  
CySprings HS  
CyPark HS  
Hopper MS  
Berry Center/Police Dept

**Others Scheduled Through 2017**

## **Replacing Staff Computers**

✓

2014-2015  
2015-2016

### **Replacing by Obsolescence Cycles in:**

2016-2017  
2017-2018  
2018-2019

## **Replacing Network Printers**

✓

2014-2015  
2015-2016

### **Replacing by Obsolescence Cycles in:**

2016-2017  
2017-2018  
2018-2019

**Project #6:** Installing technology infrastructure in new schools: 2 high schools, 2 middle schools, and 5 elementary schools.

- ✓ Installing phone system and administrative staff technology
- ✓ Installing wireless access points
- ✓ Installing network infrastructure

**High Schools**

- ✓ CyPark
- Bridgeland

**Middle Schools**

- School #19
- School #20

**Elementary Schools**

- Matzke Replacement
- School #55
- School #56
- School #57
- School #58

# Technology Infrastructure Expenditures as of October 17, 2016

Project	Description	Balance	% Spent	Allocation in 2014 Bond	Expenditures to Date
1	Install High Speed Wireless Access Infrastructure	\$2,994,575	76.85%	\$12,934,270	\$9,939,695
2	Install Network Electronics Infrastructure	\$12,887,101	55.08%	\$28,689,853	\$15,802,753
3	Upgrade Connectivity, Power and A/C	-\$2,803,929	129.09%	\$9,640,013	\$12,443,942
4	Upgrade Data Center and Infrastructure	\$3,778,578	62.77%	\$10,148,660	\$6,621,013
5	Upgrade Staff Technology and Telephone Systems	\$11,197,050	43.31%	\$19,749,725	\$8,552,675
6	Install Technology Infrastructure in New Schools	\$1,601,997	51.68%	\$3,315,248	\$1,713,251
7	Design Contingency	\$4,982,421	15.74%	\$5,913,444	\$931,022
	<b>Totals:</b>	<b>\$34,637,793</b>	<b>61.68%</b>	<b>\$90,391,213</b>	<b>\$56,004,352</b>



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# Technology Leadership and Communication

Vision: BE the District that TRANSFORMS education

Mission: LEAD in Providing World-Class Quality K-12 Systems

Values: Efficient - Accessible - Systematic - Highly Skilled - Student Focused - Service Oriented - Leadership



- Home
- Teams
- Daily Status
- 2014 Bond**
- Performance Excellence
- Resources
- more...



## 2014 Bond Referendum

### Technology Infrastructure



Enterprise High Speed Wireless



Network Infrastructure



Cabling, Power, and Air Conditioning



Data Center Upgrades



Administrative Staff Technology



Technology for New Schools



Instructional Technology